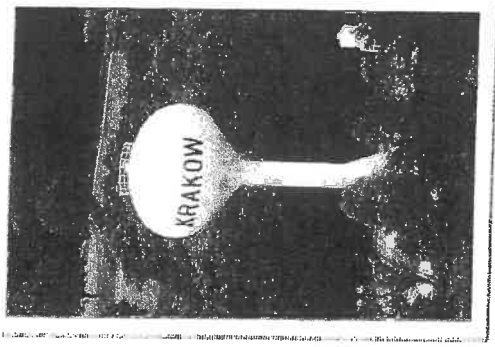


# Public Water Supply District #1 of Franklin County



## Water Quality Report 2018

### Additional Information

To ensure that tap water is safe to drink, EPA prescribes limits on the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water. 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 Environmental Protection Agency'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 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:

- (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- (B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, storm water runoff, and residential uses.
- (D) Organic chemical contaminants, including synthetic and volatile organics, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems.
- (E) 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.

Some people may be more vulnerable to contaminants in drinking water than is the general population. Immunocompromised persons such as those 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* are available from the Safe Drinking Water Hotline (800-426-4791).

### Special Lead and Copper Notice:

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. FRANKLIN CO PWS# 1 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 (800-426-4791) or at: <http://water.epa.gov/drink/info/lead/index.cfm>

You can also find sample results for all contaminants from both past and present compliance monitoring online at the Missouri DNR Drinking Water Watch website: <http://dnr.mo.gov/DWW/index/SearchDNR.jsp>

To find Lead and Copper results for your system, type your water system name in the box titled Water System Name and select *Find Water Systems* at the bottom of the page. Then new screen will show you the water system name and number, select and click the WATER SYSTEM NUMBER. At the top of the next page, under the *Help* column find, *Other Chemical Results by Analyte*, select and click on it. Scroll down alphabetically to Lead and click the blue Analyte Code (1030). The Lead and Copper locations will be displayed under the heading *Sample Comments*. Scroll to find your location and click on the *Sample No.* for the results. If your house was selected by the water system and you assisted in taking a Lead and Copper sample from your home but cannot find your location in the list, please contact FRANKLIN CO PWS# 1 for your results.

**Dear Customer,**

We are pleased to present a summary of the water quality provided to you during the past year. The Safe Drinking Water Act (SDWA) requires that water systems issue an annual "Consumer Confidence" report to customers in addition to other notices that may be required by law. This report details where our water comes from, what it contains, and the risks our water testing and treatment are designed to prevent. The Franklin County Public Water Supply District #1 is committed to providing you with the safest and most reliable water supply possible. Informed consumers are our best allies in maintaining safe drinking water. Call us for information about the next opportunity for public participation in decisions about our drinking water. For further information, see the U.S. Environmental Protection Agency (EPA) water information at [www.epa.gov/safewater/](http://www.epa.gov/safewater/).

**Concerning Lead in Our Water**

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 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).

**Other monitoring**

In addition to testing we are required to perform, our water system voluntarily tests for hundreds of additional substances and microscopic organisms to make certain our water is safe and of high quality. If you are interested in a more detailed report, contact Local Manager, Bob Hathcock at 636-239-2808.

The Franklin County Public Water Supply District #1 utilizes state and private laboratories to perform analysis for 188 pollutants and microbiological contamination. Of the 188 contaminants tested for, traces of only 8 were detected. All were below the allowed level illustrated in the following table.

The current water supply for the Franklin County Public Water Supply District #1 consists of four deep wells.

**How to Read This Table**

The chart in this report provides representative analytical results of water samples, collected in 2017 from our system. Range represents historical high/low readings from multiple years. Please note the following definitions: 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. Records marked with \*, though representative, are more than one year old.

**Key To Table**

AL=Action Level  
MCL=Maximum Contaminant Level  
MCLG=Maximum Contaminant Level Goal  
MFL=millions fibers per liter  
mrem/year-millirems per year (a measure of radiation absorbed by the body)  
NTU=Nephelometric Turbidity Units TT=Treatment Technique  
pCi/L=picocuries per liter (a measure of radioactivity)  
ppm=parts per million, or milligrams per liter (mg/l)  
ppb=parts per billion, or micrograms per liter (ug/l)  
ppt=parts per trillion, or nanograms per liter  
ppq=parts per quadrillion or picograms per liter  
nd=not detectable at testing limits

Regulated Contaminants	Date Tested	Unit	MCL	MCLG	Highest Value	Range	Typical Source	Violation
Barium	8/29/2017	ppm	2	2	0.56	0.186 – 0.56	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.	No
Chromium	8/29/2017	ppb	100	100	4.97	3.68 – 4.97	Discharge from steel and pulp mills.	No
Xylenes	8/29/2017	ppm	10	10	0.00102	0 – 0.00102	Discharge from petroleum factories; Discharge from chemical factories.	No
Nitrate-Nitrite	9/11/2018	ppm	10	10	0.44	0.016 – 0.44	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	No

Copper	Lead	Collected	Unit	AL	90th Percentile	Over AL	Sites	
							Detected	Level
2014-2016*	2014-2016*	1.3	ppm	0.107	0	0	0.0245 – 0.176	Corrosion of household plumbing systems
2014-2016*	2014-2016*	15	ppb	1.42	0	0	1.15 – 4.44	Corrosion of household plumbing systems.

Radionuclides	Date Tested	Unit	MCL	MCLG	Detected	Level	Range	Typical Source	Violation
Radium-228	1/21/2015*	pCi/l	5	0	1.1	1.1	0 – 1.1	Erosion of natural deposits.	No
Combined Radium (-226 & -228)	1/21/2015*	pCi/l	5	0	1.1	1.1	0 – 1.1	Erosion of natural deposits.	No

**Microbiological Contaminants**

No detected results were found in the calendar year of 2018.

**Violations and Health Effects Information**

No Violations Occurred in the Calendar Year of 2018.