

# CITY OF FORT SCOTT

## Consumer Confidence Report – 2017

### Covering Calendar Year – 2016



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. If you would like to observe the decision-making process that affect drinking water quality, please call SCOTT A. FLATER at 620-223-5160. The public is also welcome to attend any of the regularly scheduled commission meetings which are held the 1<sup>st</sup> and 3<sup>rd</sup> Tuesday of each month at 6 P.M. at City Hall, 123 S. Main Street. Tours of the water plant are available upon request.

**Landlords, businesses, and schools are encouraged to share this report with non-billed users at their locations.**

Your water comes from: Surface Water from the Marmaton River

Source Name	Source Water Type
INTAKE 999	Surface Water

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 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) 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.

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 systems.

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 9 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 2016 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, 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 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 (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.

**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 a particular monitoring location during the previous four calendar quarters.

**Testing Results for: CITY OF FORT SCOTT**

Microbiological	Result	MCL	MCLG	Typical Source
COLIFORM (TCR)	In the month of December, 1 sample returned as positive	MCL: Systems that Collect Less Than 40 Samples per Month - No more than 1 positive monthly sample	0	Naturally present in the environment

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

Regulated Contaminants	Collection Date	Your Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
BARIUM	4/21/2016	0.073	0.073	ppm	2	2	Discharge from metal refineries
FLUORIDE	4/21/2016	0.7	0.38 - 0.7	ppm	4	4	Natural deposits; Water additive which promotes strong teeth.
NITRATE	4/21/2016	0.44	0.29 - 0.44	ppm	10	10	Runoff from fertilizer use

Disinfection Byproducts	Monitoring Period	Your Highest RAA	Range (low/high)	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	2016	18	4.5 - 40	Ppb	60	0	By-product of drinking water disinfection
TTHM	2016	6	2.5 - 7.3	Ppb	80	0	By-product of drinking water chlorination

Lead and Copper	Monitoring Period	90 <sup>th</sup> Percentile	Range (low/high)	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2014 - 2016	0.16	0.0069 - 0.27	ppm	1.3	0	Corrosion of household plumbing
LEAD	2014 - 2016	4.2	1 - 12	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>.

Total Organic Carbon Lowest Month for Removal	Number of Samples	Actual Removal Ratio	Required Removal Ratio	Lowest Monthly Removal Ratio
1/1/2016 - 1/31/2016	12	1.36	1.0 RATIO	0.98

Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THMs) and haloacetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

Radiological Contaminants	Collection Date	Our Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
COMBINED RADIUM (-226 & -228)	7/7/2014	1.8	1.8	PCI/L	5	0	Erosion of natural deposits

Secondary Contaminants-Non Health Based Contaminants-No Federal Maximum Contaminant Level (MCL) Established.	Collection Date	Your Value	Highest	Range (low/high)	Unit	SMCL
ALKALINITY, TOTAL	4/21/2016	140	140		MG/L	300
ALUMINUM	4/21/2016	0.014	0.014		MG/L	0.05
CALCIUM	4/21/2016	64	64		MG/L	200
CHLORIDE	4/21/2016	12	12		MG/L	250
CONDUCTIVITY @ 25 C UMHO/CM	4/21/2016	370	370		UMHO/CM	1500
CORROSIVITY	4/21/2016	-0.017	-0.017		LANG	0
HARDNESS, TOTAL (AS CaCO3)	4/21/2016	180	180		MG/L	400
MAGNESIUM	4/21/2016	5.5	5.5		MG/L	150
MANGANESE	4/21/2016	0.0063	0.0063		MG/L	0.05
PH	4/21/2016	7.6	7.6		PH	8.5
POTASSIUM	4/21/2016	2.6	2.6		MG/L	100
SILICA	4/21/2016	6.5	6.5		MG/L	50
SODIUM	4/21/2016	6.8	6.8		MG/L	100
SULFATE	4/21/2016	23	23		MG/L	250

TDS	4/21/2016	210	210	MG/L	500
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**Please Note: Because of sampling schedules, results may be older than 1 year .**

During the 2016 calendar year, we had the below noted violation(s) of drinking water regulations.

<b>Compliance Period</b>	<b>Analyte</b>	<b>Type</b>
7/1/2016 - 9/30/2016	FLUORIDE	STATE MONITORING

### IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

#### Monitoring Requirements Not Met for City of Fort Scott, KS

Our water system violated drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the Third Quarter of 2016 we did not monitor for Fluoride and therefore cannot be sure of the quality of our drinking water during that time. Even though this was not an emergency, as our customers, you have a right to know what happened and what we did to correct the situation.

#### What should I do?

There is nothing you need to do at this time.

The table below shows when we did or did not properly collect quarterly samples for Fluoride from Fourth Quarter of 2015 to First Quarter of 2017, and when the next sample for Fluoride is scheduled to be taken.

<b>When samples should have been taken</b>	<b>Number of samples collected &amp; date</b>	<b>When samples are next scheduled to be taken</b>
1 sample during 1/1/2017 to 3/31/2017	1 sample on 2/6/2017	Second Quarter of 2017
1 sample during 10/1/2016 to 12/31/2016	1 sample on 10/20/2016	First Quarter of 2016
1 sample during 7/1/2016 to 9/30/2016	0	Fourth Quarter of 2016
1 sample during 4/1/2016 to 6/30/2016	2 samples on 4/21/2016	Third Quarter of 2016
1 sample during 1/1/2016 to 3/31/2016	1 sample on 1/25/2016	Second Quarter of 2016
1 sample during 10/01/2015 to 12/31/2015	1 sample on 10/14/2015	First Quarter of 2016

#### What happened? What is being done?

The City of Fort Scott Water Production Plant tests the fluoride levels in the potable water two (2) times each day. However, because we are not a State certified laboratory these results cannot be used. We are required to send a sample to the Kansas Department of Health & Environment Labs once a quarter. In the third quarter of 2016 our sample was late and therefore counted as not taken. This was corrected and a sample was sent on October 20<sup>th</sup>, 2016.

For more information, please contact [SCOTT A. FLATER](#) at [620-223-5160](tel:620-223-5160) or by Mail: 910 S BURKE ST, PO BOX 151, FORT SCOTT, KS 66701-0151

***Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.***

This notice is being sent to you by City of Fort Scott. Federal ID #: [KS2001104](#) Date distributed: Posted on City website in May, 2017.