



CITY OF SALINA
Consumer Confidence Report – 2017
Covering Calendar Year – 2016



This document is a snapshot of the quality of the water that the City of Salina 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. It is important that customers be aware of the efforts that are made continually to improve their water systems.

Water Source

Your water comes from 15 groundwater wells located within the city of Salina and surface water from the Smoky Hill River.

Your water is treated to remove several contaminants and a disinfectant is added to protect you against microbial contaminants. The Safe Drinking Water Act (SDWA) required states to develop a Source Water Assessment (SWA) for each public water supply that treats and distributes raw source water in order to identify potential contamination sources. The state has completed an assessment of our source water. For results of the assessment, please contact us or view online at: <http://www.kdheks.gov/nps/swap/SWreports.html>.

Do I need to take special precautions?

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).

Why are there contaminants in my drinking 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 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 water sources 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 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 stormwater 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 stormwater run-off, and septic systems.

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. 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 50 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 Conservation

Again this year, the City of Salina is asking Salina area water users to be good stewards of our natural resources. Continued diligence in conserving raw water resources will help ensure that an adequate water supply is available to meet our customers' needs. The efficient use of water has the beneficial effect of limiting or postponing costly water system expansions.

Results of Voluntary Monitoring

Certified laboratories analyze water samples at various points in the treatment process on a daily basis. Samples are also obtained on a regular basis to ensure the water quality standard is maintained throughout the distribution system. In addition to the testing we are required to perform, the Water Division voluntarily tests for many additional substances and microscopic organisms to make certain our drinking water is safe and of high quality. Approximately 80,000 samples are taken and analyzed each year to provide quality assurance.

Water Quality Data

The following table lists 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): an average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

Testing Results for: CITY OF SALINA

Microbiological	Result		MCL		MCLG	Typical Source	
COLIFORM (TCR)	In the month of December, 1.79% of samples returned as positive		MCL: Systems that Collect 40 or More Samples per Month - No more than 5% positive monthly samples		0	Naturally present in the environment	
Regulated Contaminants	Collection Date	Your Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
ATRAZINE	6/13/2016	0.46	0.46	ppb	3	3	Runoff from herbicide used on row crops
BARIUM	5/9/2016	0.014	0.014	ppm	2	2	Discharge from metal refineries
CARBON TETRACHLORIDE	6/16/2014	0.94	0.94	ppb	5	0	Discharge from chemical plants and other industrial activities
CHROMIUM	5/9/2016	3	3	ppb	100	100	Discharge from steel and pulp mills
FLUORIDE	1/11/2016	0.63	0.56 - 0.63	ppm	4	4	Natural deposits; Water additive which promotes strong teeth
NITRATE	6/13/2016	1.2	0.69 - 1.2	ppm	10	10	Runoff from fertilizer use
SELENIUM	5/9/2016	9	9	ppb	50	50	Erosion of natural deposits
TETRACHLOROETHYLENE	6/16/2014	0.84	0.84	ppb	5	0	Discharge from factories and dry cleaners
Disinfection Byproducts	Monitoring Period	Your Highest RAA	Range (low/high)	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	2016	33	5.5 - 56	ppb	60	0	By-product of drinking water disinfection
TTHM	2016	62	8.8 - 60	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	2012 - 2014	0.037	0.009 - 0.204	ppm	1.3	0	Corrosion of household plumbing
LEAD	2012 - 2014	2	1 - 2	ppb	15	0	Corrosion of household plumbing
Total Organic Carbon Lowest Month for Removal		Number of Samples	Actual Removal Ratio	Required Removal Ratio		Lowest Monthly Removal Ratio	
6/1/2016-6/31/2016		9	1.54	1.0 RATIO		1.93	
Secondary Contaminants-Non Health Based Contaminants-No Federal Maximum Contaminant Level (MCL) Established.		Collection Date	Your Highest Value	Range (low/high)	Unit	SMCL	
ALKALINITY, TOTAL		5/9/2016	75	75	MG/L	300	
ALUMINUM		5/9/2016	0.025	0.025	MG/L	0.05	
CALCIUM		5/9/2016	29	29	MG/L	200	
CHLORIDE		5/9/2016	160	160	MG/L	250	
CONDUCTIVITY @ 25 C UMHOS/CM		5/9/2016	1100	1100	UMHO/CM	1500	
CORROSIVITY		5/9/2016	-0.31	-0.31	LANG	0	
HARDNESS, TOTAL (AS CaCO3)		5/9/2016	120	120	MG/L	400	
MAGNESIUM		5/9/2016	11	11	MG/L	150	
NICKEL		5/9/2016	0.0018	0.0018	MG/L	0.1	
PH		5/9/2016	8	8	PH	8.5	
PHOSPHATE, TOTAL		5/12/2014	0.2	0.2	MG/L		
PHOSPHORUS, TOTAL		5/9/2016	0.2	0.2	MG/L	5	
POTASSIUM		5/9/2016	11	11	MG/L	100	
SILICA		5/9/2016	12	12	MG/L	50	
SODIUM		5/9/2016	180	180	MG/L	100	
SULFATE		5/9/2016	190	190	MG/L	250	
TDS		5/9/2016	650	650	MG/L	500	

Please Note: Because of sampling schedules, results may be older than one year.

Additional Required Health Effects Language

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

Overview

In 2016, as in years past, the City of Salina's tap water met all U.S. Environmental Protection Agency (EPA) and State Department of Health and Environment (KDHE) drinking water health standards. The City of Salina, Water Division, vigilantly safeguards its water supplies, and again, we are proud that our system has not violated a maximum contaminant level or other water quality standard.

Public Participation Opportunities

The Salina City Commission meets at 4 P.M. on Mondays at the City-County Building, 300 W. Ash. You may present items related to water issues at the commission meeting, or express your concerns to Martha Tasker, Director of Utilities during normal office hours at (785)309-5725 or email at martha.tasker@salina.org.