

CITY OF LONGTON

Consumer Confidence Report – 2014

Covering Calendar Year – 2013



This brochure is a snapshot of the quality of the water that we provided last year. Included are 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 improve their water system. To learn more, please attend any of the regularly scheduled meetings, which are held the second Tuesday, 7:00PM of each month at City Hall, 501 Kansas Ave in Longton, Kansas.

For more information please contact, Mayor Steve Fielder at (620) 642-2225.

Your water came from Elk River till December 16, 2013, after that your drinking water came from Quivera Boy Scout Lake in CQ County.

Source Name:	Source Water Type
Intake 999 Chautauqua County RWD 4	Surface Water (1/1/2013 – 12/15/2013 Public Wholesale WSD 20 (12/16/2013 – 12/31/2013)

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 source water before we treat it 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 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 runoff, 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 tested a minimum of 4 of samples per month in accordance with the Total Coliform Rule for microbiological contaminants, until 12/16/2013 then we tested a minimum of 2 samples per month. 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 tables on the following pages list all of the drinking water contaminants, which were detected during the 2012 calendar year. The presence of these contaminants 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, 2013. 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 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 treatment technique is 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): laboratory analysis indicates that the contaminant is not present.

Part 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.

Million Fibers per Liter (MFL): a measure of the presence of asbestos fibers that are longer than 10 micrometers.

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.

TESTING RESULTS FOR: CITY OF LONGTON

Microbiological	Result	MCL	MCLG				Typical Source
No Detected Results	Were found in the	Calendar Year of 2013					
Disinfection Byproducts	Monitoring Period	Highest RAA	Range	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	2013	443	33-680	ppb	60	0	By-product of drinking water disinfection
TOTAL TRIHALOMETHANES(TTHMs)	2013	310	55-230	ppb	80	0	By-product of drinking water chlorination

Lead and Copper	Monitoring Period	90 th Percentile	Range	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2011-2013	0.267	0.05-0.44	ppm	1.3	0	Corrosion of household plumbing systems
LEAD	2011-2013	1.9	1.1 - 2.2	ppb	15	0	Corrosion of household plumbing systems

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
01/01/2013 - 01/31/2013	9	0	1.0 RATIO	0.0657

** Failed to monitor November 2013.

During the 2013 calendar year, we had the below noted violation(s) of drinking water regulations.

Compliance Period	Analyte	TYPE
01/01/2013 - 01/31/2013	TOTAL HALOACETIC ACIDS (HAA5)	MCL, AVERAGE
01/01/2013 - 03/31/2013	TTHM	MCL, AVERAGE
01/01/2013 - 01/31/2032	CARBON, TOTAL	INADEQUATE DBP PRECURSOR REMOVAL
04/01/2013 - 06/30/2013	TTHM	MCL, AVERAGE
04/01/2013 - 06/30/2013	TOTAL HALOACETIC ACIDS (HAA5)	MCL, AVERAGE
04/01/2013 - 06/30/2013	CARBON, TOTAL	INADEQUATE DBP PRECURSOR REMOVAL
06/01/2013 - 06/30/2013	CARBON, TOTAL	MONITORING, ROUTINE (DBP), MAJOR
07/01/2013 - 09/30/2013	TOTAL HALOACETIC ACIDS (HAA5)	MCL, AVERAGE
07/01/2013 - 09/30/2013	CARBON, TOTAL	INADEQUATE DBP PRECURSOR REMOVAL
07/01/2013 - 09/30/2013	TTHM	MCL, AVERAGE
010/01/2013 - 12/31/2013	CARBON, TOTAL	INADEQUATE DBP PRECURSOR REMOVAL
11/01/2013 - 11/30/2013	COLIFORM (TCR)	MONITORING (TCR), ROUTINE MINOR
12/01/2013 - 12/31/2013	COLIFORM (TCR)	MONITORING (TCR), ROUTINE MINOR

Some or all of our drinking water is supplied from another Water system. The table on the next page list all of the drinking water contaminants, which were detected during the 2013 calendar year from the water systems that we purchase drinking water from.

Regulated Contaminants	Collection Date	Water System	Your Highest Value	ppm	Unit	MCL	MCLG	Typical Source
Barium	5/22/2013	PWWSD 20	0.055	0.055	ppm	2	2	Discharge from metal refineries
NITRATE	5/22/2013	PWWSD 20	0.29	0.2 – 0.29	ppm	10	10	Runoff from fertilizer use

Secondary Contaminants	Collection Date	Water System	Highest Value	Range	Unit	SMCL
ALKALINITY,TOTAL	5/22/2013	PWWSD 20	120	120	MG/L	300
ALUMINUM	5/22/2013	PWWSD 20	0.05	0.05	MG/L	0.05
CALCIUM	5/22/2013	PWWSD 20	46	46	MG/L	200
CHLORIDE	5/22/2013	PWWSD 20	11	11	MG/L	250
CONDUCTIVITY@25C UMHOS/CM	5/22/2013	PWWSD 20	320	320	UMHO/CM	1500
CORROSIVITY	5/22/2013	PWWSD 20	0.24	0.24	LANG	0
HARDINESS, TOTAL (AS CaCO3)	5/22/2013	PWWSD 20	130	130	MG/L	400
MAGNESIUM	5/22/2013	PWWSD 20	4.1	4.1	MG/L	150
PH	5/22/2013	PWWSD 20	8.1	8.1	PH	8.5
POTASSIUM	5/22/2013	PWWSD 20	1.9	1.9	MG/L	100
SILICA	5/22/2013	PWWSD 20	4.6	4.6	MG/L	50
SODIUM	5/22/2013	PWWSD 20	10	10	MG/L	100
SULFATE	5/22/2013	PWWSD 20	19	19	MG/L	250
TDS	5/22/2013	PWWSD 20	170	170	MG/L	500

During the 2013 calendar year, the water systems that we purchase water from had no violation(s) of drinking water regulations

Additional Require Health Effects Language:

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

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.

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.

Please Note: Because of sampling schedules, results may be older than 1 year.



