Todd County Water District Water Quality Report 2016

Water System ID: KY1100944

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This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product.

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 may 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, in some cases, radioactive material, and may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons 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).

Information About Lead:

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 local public 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.

Type and Location of Source Water

The Todd County Water District purchases all of its water from the Logan Todd Regional Water Commission (LTRWC). LTRWC produces treated water at the George W. Arnold Treatment Plant. The raw water intake is surface water located in the main channel of the Cumberland River, in Clarksville, Montgomery County, Tennessee. The protection area taken into consideration is from the LTRWC intake point to the Clarksville Water System intake upstream. Urban nonpoint source runoff may contribute contamination to the water supply by delivering sediment, oil and grease, road salt, fertilizer, pesticides, nutrients, and other contaminants to the Cumberland River. Transportation corridors pose a significant threat to water quality. Transportation accidents can release substances into the water supplies, threatening water quality. Tractor-trailers, Barges, rail cars and pipelines all have the potential for adverse impact to our water supply. A state primary road-TN 13crosses the Cumberland River, as do the Cunningham Bridge and the L&N Railroad Bridge. Water sources have bee rated as reasonably susceptible (high), moderately susceptible (moderate) or slightly susceptible (low) based on geologic factors and human activities in the vicinity of the water source. The water source for LTRWC is rated as reasonably susceptible to potential contamination. For more information regarding the LTRWC source water protection area and plan, contact LTRWC located at 248 Tower Street in Guthrie, Kentucky.

Some or all of these definitions may be found in this report:

Maximum Contaminant Level (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 (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. 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.

Maximum Residual Disinfectant Level Goal (MRDLG) - the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

Parts per million (ppm) - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) - or micrograms per liter, $(\mu g/L)$. One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

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 has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.

Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

Todd County Water District 2016 Water Quality Data KY1100944

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by

EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected

to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old.

to vary significantly from year				· .	tatīve, m	Lowest		r old.		
		Allowable Levels		Highest Single Measurement					Likely Source	
Tr. 1.1.1. (NITHI) Tr.	+		Weasurement		Monthly %			Likely Source		
Turbidity (NTU) TT	No more tha									
* Representative samples				078		100	No		Soil runoff	
of filtered water		nthly samples								
Regulated Contaminar	it Test Re	sults								
Contaminant			Report	Range			Date of	Violation	Likely Source of	
[code] (units)	MCL	MCLG	Level	of	Detectio	n	Sample		Contamination	
Microbiological Conta	minants									
Total Coliform Bacteria	1	0	2		N/A		2016	016 No	Naturally present in the environment	
# or % positive samples										
Inorganic Contaminan	its									
Barium										
[1010] (ppm)	2	2	0.0219	0.0219	to	0.0219	Jun-16	No	Drilling wastes; metal refineries; erosion of	
t - 1 (IT)									natural deposits	
Copper [1022] (ppm)	AL =		0.031							
sites exceeding action level	1.3	1.3	(90 th	0	to	0.063	Jun-16	No	Corrosion of household plumbing systems	
0	1.3	1.3	,	O	ιο	0.003	Juli-10	110	Famous systems	
			percentile)							
Fluoride			0.110					.,	W. 112 1:1	
[1025] (ppm)	4	4	0.648	0.648	to	0.648	Jun-16	No	Water additive which promotes strong teeth	
Nitrate									Fertilizer runoff; leaching from septic tanks,	
[1040] (ppm)	10	10	0.18	0.18	to	0.18	Feb-16	No	sewage; erosion of natural deposits	
Disinfectants/Disinfect	ion Bypro	ducts and P	recursors					_		
Total Organic Carbon (ppm)			1.51							
(measured as ppm, but	TT*	N/A	(lowest	1.00	to	1.91	2016	No	Naturally present in environment.	
reported as a ratio)			average)	(moi	nthly rati	os)				
*Monthly ratio is the % TOC	removal achi	eved to the % T	OC removal r	equired. Anni	ual avera	ge must be	1.00 or great	er for comp	liance.	
Chlorine	MRDL	MRDLG	1.30					1 1		
(ppm)	= 4	= 4	(highest	0.31	to	1.87	2016	No	Water additive used to control microbes.	
(Yr)				0.51	10	1.07	2010	'\0		
IIAA (nah) (G) 2)			average)							
HAA (ppb) (Stage 2)	60	27/4	34	22	,	47	2015	N-	Dymroduat of drinking water disinfaction	
[Haloacetic acids]	60	N/A	(high site	23	to	47	2016	No	Byproduct of drinking water disinfection	
			average)	(range of individual sites)						
TTHM (ppb) (Stage 2)			59							
[total trihalomethanes]	80	N/A	(high site	32	to	95	2016	No	Byproduct of drinking water disinfection.	
			average)	(range of	individu	al sites)				