Dry Ridge Water Works Commission Water Quality Report 2018

Water System ID: KY0410107 Superintendent: Robbie Bosse 859-824-3335 CCR Contact: Robbie Bosse 859-824-3335

robbie.bosse@cdrky.org

Mailing Address: PO Box 145 Dry Ridge, KY 41035 Meeting location and time: Dry Ridge City Building Third Monday monthly at 6:00 PM

The City of Dry Ridge purchases water from the Williamstown Municipal Water Department. Williamstown treats surface water from Lake Williamstown. An analysis of the susceptibility of the Williamstown Municipal Water Department public water supply at Lake Williamstown to contamination indicates that this susceptibility is generally moderate. There are some areas of concern. Agricultural areas located in the watershed for Lake Williamstown's intake introduce the potential of agricultural chemicals and runoff, activities that contribute to non-point source pollution. Bridges, railroads, and Tier II hazardous chemical users in the area introduce the potential for spills of hazardous materials. Other areas of concern include power line right-of-ways with potential herbicide use, and major roads located throughout the watershed. The following is a summary of the systems susceptibility to contamination, which is a part of the completed Source Water Assessment and Protection Plan (SWAP). The completed plan is available for inspection at the Williamstown City Building, 400 north Main Street, Williamstown, KY 41097.

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. Immuno-compromised 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.

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, (µg/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.

Regulated Contaminant Results from Dry Ridge Water Works Commission:

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. Copies of this report are available upon request by contacting our office during business hours.

To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

Regulated Contaminant	Test Res	sults	Dry Ridge Water Works Commission							
Contaminant			Report	Range	Date of	Violation	Likely Source of			
[code] (units)	MCL	MCLG	Level	of Detection	Sample		Contamination			
Inorganic Contaminants	S									
Copper [1022] (ppm)	AL =		0.11				Corrosion of household			
sites exceeding action level	1.3	1.3	(90 th	0.029 to 0.13	Jul-16	No	plumbing systems			
0			percentile)							
Disinfectants/Disinfection Byproducts and Precursors										
Chlorine	MRDL	MRDLG	0.90				Water additive used to control			
(ppm)	= 4	= 4	(highest	0.68 to 1.21	2018	No	microbes.			
			average)				intereses.			
HAA (ppb) (Stage 2)			35				Byproduct of drinking water			
[Haloacetic acids]	60	N/A	(high site	3.8 to 56	2018	No	disinfection			
			average)	(range of individual sites)			disinfection			
TTHM (ppb) (Stage 2)			35				Byproduct of drinking water			
[total trihalomethanes]	80	N/A	(high site	5.9 to 35	2018	No	disinfection.			
			average)	(range of individual sites)			disinfection.			

Regulated Contaminant Results from Williamstown Municipal Water Department:

regulated contains		results if o	, , , , , , , , , , , , , , , , , ,	11500 111	1 17.	- american	1 11 11 11 11 1	D cpui ti	i cii ci			
	Allowable Levels		Highest Single Measurement			Lowest	Violation					
					1	Monthly %		Likely Source of Turbidity				
Turbidity (NTU) TT	No more than 1 NTU*											
* Representative samples	Less than 0.3 NTU in		0.12			100	No		Soil runoff			
of filtered water	95% of monthly samples											
Regulated Contaminant Test Results Williamstown Municipal Water Department												
Contaminant			Report		Ran	ge	Date of	Violation	Likely Source of			
[code] (units)	MCL	MCLG	Level	of Detection		Sample		Contamination				
Inorganic Contaminants								•	•			
Barium [1010] (ppm)	2	2	0.008	0.008	to	800.0	Apr-18	No	Drilling wastes; metal refineries; erosion of natural deposits			
Fluoride [1025] (ppm)	4	4	0.50	0.5	to	0.5	Apr-18	No	Water additive which promotes strong teeth			
Nitrate [1040] (ppm)	10	10	0.18	0.18	to	0.18	Apr-18	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits			
Disinfectants/Disinfectio	n Byprod	ucts and Prec	ursors									
Total Organic Carbon (ppm) (measured as ppm, but	TT*	N/A	1.47 (lowest	1.16	to	1.87	2018	No	Naturally present in			
reported as a ratio)		11/11	average)			ratios)	2010	110	environment.			
*Monthly ratio is the % TOC	removal a	chieved to the	% TOC remova	al required	. Anı	nual average i	must be 1.00	or greater fo	r compliance.			
Chlorite	1	0.8	0.73	0.18	to	0.74	2018	No	Byproduct of drinking water			
(ppm)			(average)						disinfection.			
Chlorine dioxide (ppb)	MRDL = 800	MRDLG = 800	390	0	to	390	2018	No	Water additive used to control microbes.			
-			•									

Violation 2019-9593928

We received a violation for failing to list three violations in our 2017 Consumer Confidence Report (CCR). We put commentary explaining the violations in the 2016 CCR, but because the violations were technically issued in the calendar year 2017, we were required to list them in our 2017 report. We failed to do so. We are listing them again here:

Violation 2017-9593924: This violation was received for a failure to include all mandatory language in a public notification for another violation (2016-9593913). That notification with the corrected language was issued in the 2016 CCR.

Violation 2017-9593925: This violation was received for a failure to include all mandatory language in a public notification for another violation (2016-9593914). That notification with the corrected language was issued in the 2016 CCR.

Violation 2017-9593926: We inadvertently omitted a required paragraph in the 2015 CCR. That language is included in this report and was detailed in the 2016 CCR.

Violation 2018-9593927

We received a violation for a failure to submit our Monthly Operational Report to the Division of Water for March 2018 by April 10, 2018. This monthly report contains important information regarding our water purchases and distribution system. We submitted the report late and have since submitted all required paperwork in a timely fashion.

For more information, please contact Robbie Bosse at 859-824-3335 or PO Box 145, Dry Ridge, KY 41035.

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 report will not be mailed unless requested. To request a paper copy of this report, call (859) 824-3335.