Williamstown Municipal Water Department Water Quality Report 2020

Water System ID: KY0410472	CCR Contact: Josh Stinson	Mailing Address:	Meeting location and time:
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Our surface water source is Williamstown Lake The following is a summary of the system's susceptibility to contamination, which is a part of the completed Source Water Plan (SWAP). The completed plan is available for inspection at the Williamstown City Building, 400 North Main St. Williamstown, KY 41097. 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. 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, ($\mu g/L$). 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.

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.

The data presented in this rep	-		-				-		-		
authorized and approved by H											
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. C								uring busi	ness hours.		
Regulated Contaminant Test Results Williamstown Municipal Water Department											
Contaminant			Report	1	Rang	ge	Date of	Violation	Likely Source of		
[code] (units)	MCL	MCLG	Level	of I	Deteo	ction	Sample		Contamination		
Inorganic Contaminants											
Arsenic [1005] (ppb)	10	N/A	0.6	0.6	to	0.6	Apr-20	No	Natural erosion; runoff from orchards or glass and electronics production wastes		
Barium [1010] (ppm)	2	2	0.007	0.007	to	0.007	Apr-20	No	Drilling wastes; metal refineries; erosion of natural deposits		
Fluoride), T	Water additive which		
[1025] (ppm)	4	4	0.64	0.64	to	0.64	Apr-20	No	promotes strong teeth		
Disinfectants/Disinfection	on Bypro	ducts and Pre	cursors	•					•		
Total Organic Carbon (ppm)			1.48						N-411		
(measured as ppm, but	TT*	N/A	(lowest		to	2.50	2020	No	Naturally present in environment.		
reported as a ratio)			average)			ratios)					
*Monthly ratio is the % TOO			1	val required	l. Anı	nual average	must be 1.00	or greater f	for compliance.		
Chlorine (ppm)	MRDL = 4	MRDLG = 4	1.05 (highest average)	0.52	to	1.54	2020	No	Water additive used to control microbes.		
Chlorite	1	0.8	0.63	0.26	to	0.71	2020	No	Byproduct of drinking water disinfection.		
(ppm)	MODI		(average)						Water additive used to control		
Chlorine dioxide (ppb)	MRDL	MRDLG	120			12.0		N	microbes.		
	= 800	= 800	430	20	to	430	2020	No			
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	41 (high site average)		to indiv	58 vidual sites)	2020	No	Byproduct of drinking water disinfection		
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	40 (high site average)		to `indiv	37 vidual sites)	2020	No	Byproduct of drinking water disinfection.		
Household Plumbing Co	ntaminan	ts							•		
Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	0.12 (90 th percentile)	0.0042	to	0.127	Jun-18	No	Corrosion of household plumbing systems		
Lead [1030] (ppb) sites exceeding action level 0	AL = 15	0	4 (90 th percentile)	0	to	5	Jun-18	No	Corrosion of household plumbing systems		
Other Constituents											
Turbidity (NTU) TT Allowable		Highest Single Measurement			Lowest	Violation %					
* Representative samples Levels				N	1onthly %		Likely S	Source of Turbidity			
Turbidity is a measure of the											
clarity of the water and not a contaminant. Less than 0.3 NTU in 95% of monthly samples		0.07			100	No		Soil runoff			
<u></u>	7570 01 III	samples	Average Range of Detection			etection		<u> </u>			
Fluoride (added for dental health)			0.7		to	0.75					
Sodium (EPA guidance le	mg/L)	11.0		to	11						
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This report will not be mailed unless requested. If you would like a copy mailed to you, please contact our office.