2020 Water Quality Report Burkesville Water Works

Burkesville Water Works KY0290049
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Meetings: Burkesville City Hall Third Thursday each month 5:00 PM

Burkesville treats surface water from the Cumberland River. Analysis of the susceptibility of the Cumberland River to contamination at our intake indicates that this is low. Potential sources of contamination fall into mostly non-point source contamination. Contaminant sources and land use of concern include; oil production, bridges, roadways, chemical and fuel storage; and agricultural pesticide and fertilizer application. There is some potential for pollution, but not a severe threat due to the small size of the community and the high volume of water flow in the river. However: under certain circumstances contaminants could be released that would pose challenges to water treatment or even get into your drinking water. These activities, and how they are conducted, are of interest to the entire community because they potentially affect your health and the cost of treating your water. The complete source water assessment is available at Lake Cumberland area Development District, 2384 Lakeway Drive, Russell Springs, KY 42642 (270-866-4200).

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).

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.

Manager: Ed Peretto

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.

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

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.

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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.

of having the o	lescribed health e	ffect.						
Allowable		Highest Single			Lowest	Violation		
]	Levels Meas		1easurement		Monthly %		Likely So	urce of Turbidity
No more tha	n 1 NTU*							
Less than 0.3 NTU in		0.29			100	No		Soil runoff
95% of monthly samples								
Regulated Contaminant Test Results Burkesville Water Works								
		Report Ra		Ran	ge	Date of	Violation	Likely Source of
MCL	MCLG	Level of De		f Dete	ction	Sample		Contamination
Inorganic Contaminants								
								Drilling wastes; metal refineries;
2	2	0.017	0.017	to	0.017	Feb-20	No	erosion of natural deposits
AL =		0.0582						
1.3	1.3	(90 th	0.001	to	0.0801	Aug-18	No	Corrosion of household plumbing systems
		percentile)						systems
								W
4	4	0.77	0.77	to	0.77	Feb-20	No	Water additive which promotes strong teeth
AL =		2						Corrosion of household plumbing
15	0	(90 th	2	to	3	Aug-18	No	systems
		percentile)						by stems
								Fertilizer runoff; leaching from
10	10	0.335	0.335	to	0.335	Aug-20	No	septic tanks, sewage; erosion of natural deposits
Disinfectants/Disinfection Byproducts and Precursors								
		1.2						
TT*	N/A	(lowest	1.00	to	2.67	2020	No	Naturally present in environment.
		average)	(m	onthly	ratios)			
*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.								
MRDL	MRDLG	1.05						***
= 4	= 4	(highest	0.81	to	1.29	2020	No	Water additive used to control microbes.
		average)						microbes.
		44						D 1 (C1'1'
60	N/A	(high site	18	to	41	2020	No	Byproduct of drinking water disinfection
		average)	(range	of indi	vidual sites)			dishirection
		34						B 1 . 61.11
80	N/A	(high site	19	to	40	2020	No	Byproduct of drinking water disinfection.
		average)	(range	of indi	vidual sites)			disinfection.
	All No more that Less than 0. 95% of mon Test Resul MCL 2 AL = 1.3 4 AL = 15 10 1 Byprodu TT* moval achieve MRDL = 4	Allowable Levels	Levels Measurement	No more than 1 NTU* Less than 0.3 NTU in 95% of monthly samples	No more than 1 NTU* Less than 0.3 NTU in 0.29 95% of monthly samples	No more than 1 NTU* Less than 0.3 NTU in 95% of monthly samples Lowest Monthly %	Allowable Highest Single Lowest Monthly %	No more than 1 NTU* Likely So No more than 1 NTU* Less than 0.3 NTU in 0.29 100 No No