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2nd Monday of every month

The source of your drinking water is Lake Barkley, which is a surface water source. An analysis of Barkley Lake Regional Water District's water supply, indicates there are six types of potential contaminate sites with the possibility of contaminating the water supply located within the watershed are underground storage tanks, and rock quarries. Other areas of concern are the water treatment plant of the district, roads, bridges, and highways that pose a risk of the possibility of hazardous materials entering the water supply from traffic accidents, spills, and illegal dumping. In addition to households which are connected to the public waste system present a source of contamination due to the possibility of failing septic systems. Farms located within the watershed present the possibility of silation, pathogens, pesticides, and fertilizer entering the water supply. The completer plan is available at the Barkley Lake Regional Water district billing office at 1420 Canton Road, Cadiz, Ky. 42211.

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.

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.

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 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.**

Regulated Contaminant	-	-	Barkley Lal	ke Regional	Water Dis	trict			
Contaminant			Report Range			Date of		Likely Source of	
[code] (units)	MCL	MCLG	Level	of Detection		Sample	Violation Contamination		
Inorganic Contaminant									
Barium									
[1010] (ppm)	2	2	0.022	0.022 to	0.022	Aug-23	No	Drilling wastes; metal refineries; erosion of natural deposits	
Fluoride									
[1025] (ppm)	4	4	0.87	0.87 to	0.87	Aug-23	No	Water additive which promotes strong teeth	
Nitrate								Fertilizer runoff; leaching from	
[1040] (ppm)	10	10	0.489	0.255 to	0.489	Feb23	No		
Disinfectants/Disinfection	on Bypro	ducts and Pr	ecursors						
Total Organic Carbon (ppm)			2.02						
(measured as ppm, but	TT*	N/A	(lowest	1.00 to	3.41	2023	No	Naturally present in environment.	
reported as a ratio)			average)	(month	ly ratios)				
*Monthly ratio is the % TOC re	emoval achie	eved to the % TO	C removal requi	red. Annual av	erage must be	1.00 or greater	for compliar	nce.	
Chlorine	MRDL	MRDLG	1.44						
(ppm)	= 4	= 4	(highest	0.69 to	2.2	2023	No	Water additive used to control microbes.	
			average)						
HAA (ppb) (Stage 2)			28					Demonstrate of this his a sector	
[Haloacetic acids]	60	N/A	(high site	13 to	36	2023	No	Byproduct of drinking water disinfection	
			average)	(range of inc	lividual sites)			distillection	
TTHM (ppb) (Stage 2)			40					Demons de est est duimbin e constant	
[total trihalomethanes]	80	N/A	(high site	27 to	58	2023	No	Byproduct of drinking water disinfection.	
			average)	(range of inc	lividual sites)				
		-							
Household Plumbing Co	ontamina	nts							
Copper [1022] (ppm) Round 1	AL =		0.475						
sites exceeding action level	1.3	1.3	(90 th	0.01 to	0.886	Aug-23	No	Corrosion of household plumbing systems	
0			percentile)					systems	
Lead [1030] (ppb) Round 1	AL =		13					Correction of household always in-	
sites exceeding action level	15	0	(90 th	0 to	46	Aug-23	No	Corrosion of household plumbing systems	
3			percentile)						
Other Constituents									
Turbidity (NTU) TT	Allowable		Highest Single		Lowest	Violation	Likely Source of Turbidity		
* Representative samples	ÿ		Measuremen	t Monthly %					
Turbidity is a measure of the	No more th	an 1 NTU*						•	
clarity of the water and not a	Less than 0.3 NTU in		0.1		100	No	Soil runoff		
contaminant.	95% of mo	nthly samples							

Your drinking water has been sampled for a series of unregulated contaminants. Unregulated contaminants are those that EPA has not established drinking water standards. There are no MCLs and therefore no violations if found. The purpose of monitoring for these contaminants is to help EPA determine where the contaminants occur and whether they should have a standard. As our customers, you have a right to know that these data are available. If you are interested in examining the results, please contact our office during normal business hours.

	Average	Range of Detection
Fluoride (added for dental health)	0.9	0.84 to 1.03
Sodium (EPA guidance level = 20 mg/L)	4.4	4.39 to 4.39

Secondary contaminants do not have a direct impact on the health of consumers. They are being included to provide additional information about the quality of the water.

Secondary Contaminant	Maximum Allowable	Report	Range	Date of	
Secondary Containing	Level	Level	of Detection		Sample
Aluminum	0.05 to 0.2 mg/l	0.06	0.06 to	0.06	Aug-23
Chloride	250 mg/l	11.9	11.9 to	11.9	Aug-23
Copper	1.0 mg/l	0.025	0.025 to	0.025	Aug-23
Corrosivity	Noncorrosive	-0.827	-0.827 to	-0.827	Aug-23
Fluoride	2.0 mg/l	0.86	0.86 to	0.86	Aug-23
pH	6.5 to 8.5	7.21	7.21 to	7.21	Aug-23
Sulfate	250 mg/l	17.7	17.7 to	17.7	Aug-23
Total Dissolved Solids	500 mg/l	143	143 to	143	Aug-23