Harrodsburg Water Department Water Quality Report 2023

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The Harrodsburg Water Department treats surface water from the Kentucky River near High Bridge. A Source Water Assessment has been conducted and is available for inspection at Harrodsburg City Hall at 208 South Main Street. In summary, the assessment indicates that the susceptibility to contamination is generally moderate, although there are a few areas of high concern. Herrington Lake, a tributary to the Kentucky River, has been identified as impaired. The condition of this lake may indicate conditions in the watershed that could adversely affect source water quality. Other areas of high concern include a railroad bridge, a highway bridge, areas of row crops, a waste generator or transporter and a KPDES permitted discharger. Finally, there are numerous permitted operations and activities and other potential contaminant sources of moderate concern within the greater watershed that increase the potential for the release of contaminants within the area. These potential contaminant sources include large capacity septic systems, major roads, underground storage tanks, & Tier II hazardous chemical users.

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:

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 water system is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact your local water system. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available 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.

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 Test Results

Harrodsburg Municipal Water Department

Regulated Contamina	nt Test R	esults	Harrodsbu	Harrodsburg Municipal Water Department							
Contaminant			Report			nge	Date of		Likely Source of		
[code] (units)	MCL	MCLG	Level	of Detection		Sample	Violation Contamination				
Inorganic Contamina	nts										
Barium									5.70		
[1010] (ppm)	2	2	0.03	0.03	to	0.03	May-23	No	Drilling wastes; metal refineries; erosion of natural deposits		
Fluoride									W. 1122 121		
[1025] (ppm)	4	4	0.70	0.7	to	0.7	May-23	No	Water additive which promotes strong teeth		
Nitrate									Fertilizer runoff; leaching from		
[1040] (ppm)	10	10	0.11	0.11	to	0.11	May-23	No	septic tanks, sewage; erosion of natural deposits		
Disinfectants/Disinfec	tion Byp	roducts and	Precursors	•				•			
Total Organic Carbon (ppm)			1.54								
(measured as ppm, but	TT*	N/A	(lowest	1.12	to	2.41	2023	No	Naturally present in environment.		
reported as a ratio)			average)	(m	onthl	y ratios)					
*Monthly ratio is the % TOC r	emoval achi	eved to the % To					1.00 or greater	for compliar	ice.		
Chlorine	MRDL	MRDLG	0.94				<u> </u>	<u> </u>			
(ppm)	= 4	= 4	(highest	0.33	to	1.47	2023	No	Water additive used to control		
(F)			average)						microbes.		
HAA (ppb) (Stage 2)			39								
[Haloacetic acids]	60	N/A	(high site	13	to	60	2023	No	Byproduct of drinking water		
[]			average)			ividual sites)			disinfection		
TTHM (ppb) (Stage 2)			50	(
[total trihalomethanes]	80	N/A	(high site	18.6	to	84.4	2023	No	Byproduct of drinking water		
[retar trinarementaries]		10/11	average)			ividual sites)	2023	1.0	disinfection.		
Household Plumbing	Contami	nants	uverage)	(lunge () I III G	ividual sites)		ļ			
Copper [1022] (ppm) Round 1	AL=		0.036								
sites exceeding action level	1.3	1.3	(90 th	0.005	to	0.142	Aug-22	No	Corrosion of household plumbing		
0	1.5	1.3	percentile)	0.003	ιο	0.142	Aug-22	110	systems		
Lead [1030] (ppb) Round 1	AL=		0								
sites exceeding action level	15	0	(90 th	0	to	3	Aug-22	No	Corrosion of household plumbing		
0	13	U	percentile)	0	10	3	Aug-22	110	systems		
Other Constituents	ļ		percentile)								
Turbidity (NTU) TT		llowahlo	Highest Sing	do.		Lowest	Violation				
· · · · · · ·	Allowable		Highest Single			Violation	Likely Source of Turbidity				
* Representative samples Turbidity is a measure of the	Levels No more than 1 NTU*		Measurement		Monthly %						
clarity of the water and not a	Less than 0.3 NTU in		0.00		100	No					
contaminant. Less than 0.3 NTU in 95% of monthly samples		0.09		100	No		Soil runoff				
	195% of mon	niniy samples	1.		-	<u> </u>		ļ.			
Fluorida (added for dertal boolth)			Average	T		Detection					
Fluoride (added for dental health)			0.8	0.64	to	1.03					
Sodium (EPA guidance level = 20 mg/L)			16.0	16	to	16	ļ				

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		Report	Ran	Date of	
Secondary Contaminant	Maximum Allowable Level	Level	of Detection		Sample
Aluminum	0.05 to 0.2 mg/l	0.07	0.07 to	0.07	May-23
Chloride	250 mg/l	17	17 to	17	May-23
Corrosivity	Noncorrosive	-0.76	-0.76 to	-0.76	May-23
Fluoride	2.0 mg/l	0.75	0.75 to	0.75	May-23
Odor	3 threshold odor number	1	1 to	1	May-23
pН	6.5 to 8.5	7.41	7.41 to	7.41	May-23
Sulfate	250 mg/l	105	105 to	105	May-23
Total Dissolved Solids	500 mg/l	224	224 to	224	May-23