Harrodsburg Water Department Water Quality Report 2019

To request a paper copy call (859) 734-4971.

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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:

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, (μ 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.

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.

	Allowable Levels		Highest Single Measurement			Lowest	Violation			
]	Monthly %		Likely Source of Turbidity		
Turbidity (NTU) TT	No more than 1 NTU*									
* Representative samples	Less than 0.3 NTU in		0.17			100	No	Soil runoff		
of filtered water	95% of monthly samples									
Regulated Contamina	int Test R	esults	Harrodsbu	rg Mur	nicip	al Water l	Departmei	nt		
Contaminant			Report		Ran	ge	Date of	Violation	Likely Source of	
[code] (units)	MCL	MCLG	Level	(of Dete	ction	Sample		Contamination	
Barium										
[1010] (ppm)	2	2	0.01	0	to	0.02	Mar-19	No	Drilling wastes; metal refineries; erosion of natural deposits	
Copper [1022] (ppm)	AL=		0.11						Corrosion of household plumbin	
sites exceeding action level	1.3	1.3	(90 th	0.02	to	0.34	Jun-19	No	systems	
0			percentile)							
Fluoride									Water additive which promotes	
[1025] (ppm)	4	4	1.30	0.7	to	2.9	Mar-19	No	strong teeth	
Lead [1030] (ppb)	AL=		4						Corrosion of household plumbin	
sites exceeding action level	15	0	(90 th	0	to	5	Jun-19	No	systems	
0			percentile)							
Nitrate [1040] (ppm)	10	10	0.6	0.6	to	0.6	Nov-19	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion o natural deposits	
Disinfectants/Disinfe	ction Byn	roducts and	 Precursors						_	
Total Organic Carbon (ppm)			1.72							
(measured as ppm, but	TT*	N/A	(lowest	1.30	to	2.67	2019	No	Naturally present in environment	
reported as a ratio)			average)			ratios)				
*Monthly ratio is the % TOC	removal achie	eved to the % T				/	1.00 or greate	r for complia	nce.	
Chlorine	MRDL	MRDLG	1.10			0	0			
(ppm)	= 4	=4	(highest	0.31	to	1.74	2019	No	Water additive used to control microbes.	
X X X			average)						microbes.	
HAA (ppb) (Stage 2)			55							
[Haloacetic acids]	60	N/A	(high site	20	to	67	2019	No	Byproduct of drinking water disinfection	
			average)	(range o	ofindi	vidual sites)				
TTHM (ppb) (Stage 2)			66			,				
[total trihalomethanes]	80	N/A	(high site	25.1	to	102.3	2019	No	Byproduct of drinking water disinfection.	
-			average)	(range o	ofindi	vidual sites)				
	Average Range		ge of D	etection		-	·			
Fluoride (added for dental health)		0.7	0.6	to	1					
Sodium (EPA guidance level			11.0	11	to	11				

 Sodium
 (EPA guidance level = 20 mg/L)
 11.0
 11 to
 11

 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	Range of Detection			Date of
	Maximum Allowable Level	Level				Sample
Aluminum	0.05 to 0.2 mg/l	0.15	0	to	0.3	Apr-19
Chloride	250 mg/l	12.5	12	to	13	Apr-19
Corrosivity	Noncorrosive	-1.1	-1.28	to	-0.92	Apr-19
Fluoride	2.0 mg/l	1.325	0.7	to	3	Mar-19
рН	6.5 to 8.5	7.245	7.13	to	7.36	Apr-19
Sulfate	250 mg/l	72	62	to	82	Apr-19
Total Dissolved Solids	500 mg/l	208	208	to	208	Mar-19