US 60 Water District Water Quality Report 2020

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 Mailing Address: PO Box 97, Bagdad, KY 40003
 Masting Logotion and Times Third Tuesday monthly at 6:20nm at water office in Boadad KY
 Phone: 502-747-8942

Meeting Location and Time: Third Tuesday monthly at 6:30pm at water office in Bagdad, KY

US 60 Water District purchases water from the Frankfort Plant Board, which treats surface water from Pool #4 of the Kentucky River. The overall susceptibility to contaminants is considered moderate. There are, however, a few areas of high concern. Several highway bridges and major roads occur in the immediate vicinity of the intake. An accidental release of toxic materials from a nearby bridge or road could pose an immediate threat to Frankfort's intake. Other areas of concern in the immediate vicinity of the intake include land used for agricultural purposes, companies that use hazardous substances, a Superfund hazardous waste site, a hazardous waste generator and/or transporter, sewer lines, and a permitted wastewater discharger. Within the greater watershed area there are numerous permitted operations and activities that, cumulatively, pose a moderate concern for release of contaminants. These potential sources include everything from underground storage tanks to power line rights-of-way that may be treated with herbicides to active and inactive landfills. A full copy of the Source Water Assessment and Protection Plan can be obtained by calling the Frankfort Plant Board at 502-352-4372.

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. This report will not be mailed. If you would like a copy mailed to you, please contact our office.

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.**

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Regulated Contamina	nt Test R	lesults F	-		Shelb	yvil	le (S)	1	-	Г	
Contaminant			Source	Report	Range of Detection		Date of	Violation	Likely Source of		
[code] (units)	MCL	MCLG	Sot	Level			Sample		Contamination		
Inorganic Contaminal	nts										
Arsenic [1005] (ppb)	10	N/A	F=	0.7	0.7	to	0.7	2020	No	Natural erosion; runoff from orchards or glass and electronics production wastes	
Barium			F=	0.02	0.02	to	0.02	2020	No		
[1010] (ppm)	2	2	S=	0.01	0.01	to	0.01	2020	No	Drilling wastes; metal refineries; erosion of natural deposits	
Beryllium										Coal-burning factories; metal	
[1075] (ppb)	4	4	S=	0.2	0.2	to	0.2	2020	No	refineries; electrical, defense, and aerospace industries	
Fluoride			F=	0.68	0.68	to	0.68	2020	No	TTT / 11/2 1 1 1	
[1025] (ppm)	4	4	S=	0.68	0.68	to	0.68	2020	No	Water additive which promotes strong teeth	
Mercury [1035] (ppb)	2	2	F=	0.2	0.2	to	0.2	2020	No	Erosion of natural deposits; refineries and factories; landfills; runoff from cropland	
Nitrate			F=	0.7	0.7	to	0.7	2020	No	Fertilizer runoff; leaching from	
[1040] (ppm)	10	10	S=	3	3	to	3	2020	No	septic tanks, sewage; erosion on atural deposits	
Synthetic Organic Co	ntaminar	nts includi	ng P	Pesticides	and H	erbi	cides				
Atrazine [2050] (ppb)	3	3	S=	0.73	BDL	to	1.72	2020	No	Runoff from herbicide used on row crops	
Disinfectants/Disinfec	tion Byp	roducts a	nd P	recursor	s						
Total Organic Carbon (ppm)			F=	1.54	1.24	to	3	2020	No		
(report level=lowest avg. range of monthly ratios)	TT*	N/A	S=	1.98	1.82	to	2.75	2020	No	Naturally present in environment	
*Monthly ratio is the % TOC r	emoval achi	eved to the %	TOC	removal req	uired. Anı	nual a	verage must b	e 1.00 or great	ter for compli	ance.	
Other Constituents											
Turbidity (NTU) TT	Allowable		ource	Highest Single		Lowest	Violation				
* Representative samples	Levels		Sou	Measurement			Monthly %			Likely Source of Turbidity	
Turbidity is a measure of the clarity of the water and not a contaminant.	No more than 1 NTU* Less than 0.3 NTU in 95% monthly samples		F= S=	0.15 0.22		100 100	No No		Soil runoff		
Unregulated Contami				average	rs	inge	(ppb)	date			
Manganese			F	0.731	0.698	to	0.766	2020	1		
HAA5			F	27.7	11.4	to	40.9	2020	1		
HAA6Br			F	7.5	2.2	to	16.6	2020	1		
HAA9			F	34.7	13.8	to	52.7	2020			
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Regulated Contaminat	nt Test R	esults	US 60 Wate	er Distr	rict				
Contaminant		Report Range			e	Date of	Violation	Likely Source of	
[code] (units)	MCL	MCLG	Level	of Detection			Sample		Contamination
Chloramines	MRDL	MRDLG	1.23						Water additive used to control
(ppm)	= 4	= 4	(highest	1.01 to	to	to 1.89	2020	No	microbes.
			average)						
HAA (ppb) (Stage 2)			32						
[Haloacetic acids]	60	N/A	(high site	8	to	42.7	2020	No	Byproduct of drinking water disinfection
			average)	(range o	findiv	idual sites)			
TTHM (ppb) (Stage 2)			32						Byproduct of drinking water disinfection.
[total trihalomethanes]	80	N/A	(high site	16.5	to	41.5	2020	No	
			average)	(range o	findiv	idual sites)			
Household Plumbing	Contami	nants							
Copper [1022] (ppm)	AL=		0.056						G · G 11111
sites exceeding action level	1.3	1.3	(90 th	0.021	to	0.32	Sep-20	No	Corrosion of household plumbing systems
0			percentile)						

