Northeast Woodford County Water District Water Quality Report 2020

Water System ID: KY1200310 Manager: Dale Gatewood 859-873-5989 CCR Contact: Dale Gatewood 859-873-5989

Mailing Address: 225A South Main St Versailles, KY 40383 Meeting location and time: 225A South Main St 1st Tuesday monthly at 10:00 AM

We purchase water from the City of Versailles and on an as-needed basis from the City of Frankfort. When needed, Versailles obtains additional treated water from Kentucky American Water Company in Lexington. All of these suppliers treat surface water from the Kentucky River. Each supplier has conducted a Source Water Assessment Plan to determine the susceptibility to contamination of the source water. These assessments indicate that this susceptibility is generally moderate. Areas of concern that occur in the immediate vicinity of the intakes include transportation corridors, land used for agricultural purposes, firms that use Tier II hazardous chemicals, a Superfund site, a hazardous waste generator and/or transporter, sewer lines and a KPDES permitted discharger. Within the greater watershed area, there are numerous permitted operations and activities and other potential contaminant sources of moderate concern that cumulatively increase the potential for the release of contaminants within the area. These potential contaminant sources include everything from underground storage tanks, to power line rights-of-way that may be treated with herbicides, to active and inactive landfills. The complete Source Water Assessments are available for review at each supplier. Contact our office for more viewing information.

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, (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) 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 unless requested. Copies are available at our office. 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.

Regulated Contamina	nt Test R	esults	Northeast \	Woodfo	rd C	ounty Wa	ter Distri	ct	
Contaminant			Report	Range			Date of	Violation	Likely Source of
[code] (units)	(units) MCL MCLG Level		(of Detection				Contamination	
Chloramines	MRDL	MRDLG	2.09						XX
(ppm)	= 4	= 4	(highest	0.55	to	3.91	2020	No	Water additive used to control microbes.
			average)						
HAA (ppb) (Stage 2)			37						Byproduct of drinking water disinfection
[Haloacetic acids]	60	N/A	(high site	20	to	66	2020	No	
			average)	(range	of indiv	idual sites)			
TTHM (ppb) (Stage 2)			53						Byproduct of drinking water disinfection.
[total trihalomethanes]	80	N/A	(high site	18.6	to	92.6	2020	No	
			average)	(range	of indiv	idual sites)			
Household Plumbing	Contami	nants							
Copper [1022] (ppm)	AL=		0.04						
sites exceeding action level	1.3	1.3	(90 th	0	to	0.04	Sep-20	No	Corrosion of household plumbing systems
0			percentile)						Systems
Lead [1030] (ppb)	AL=		6						Corrosion of household plumbing systems
sites exceeding action level	15	0	(90 th	0	to	7	Sep-20	No	
0			percentile)						

Contaminant		MCLG	Report Level	Range			Date of	Violation	Likely Source of
[code] (units)	MCL			0	f Dete	ction	Sample		Contamination
Radioactive Contamin	nants								
Combined radium	5	0	1.3	1.3	to	1.3	Mar-16	No	Erosion of natural deposits
(pCi/L)									Erosion of natural deposits
Inorganic Contamina	nts	•					,	•	
Barium									
[1010] (ppm)	2	2	0.02	0.02	to	0.02	Feb-20	No	Drilling wastes; metal refineries; erosion of natural deposits
Beryllium									Coal-burning factories; metal
[1075] (ppb)	4	4	0.1	0.1	to	0.1	Feb-20	No	refineries; electrical, defense, and aerospace industries
Fluoride									***
[1025] (ppm)	4	4	0.69	0.69	to	0.69	Feb-20	No	Water additive which promotes strong teeth
Disinfectants/Disinfec	tion Byp	roducts and	Precurso	rs			<u> </u>		
Total Organic Carbon (ppm)			1.22						
(measured as ppm, but	TT*	N/A	(lowest	0.71	to	1.97	2020	No	Naturally present in environment
reported as a ratio)			average)	(me	onthly	ratios)			
*Monthly ratio is the % TOC r	emoval achi	eved to the % TO	OC removal re	quired. A	nnual	average must	be 1.00 or gre	eater for com	pliance.
Other Constituents									
Turbidity (NTU) TT	Allowable High		Highest S	ghest Single		Lowest	Violation		
* Representative samples	Levels		Measurement		I	Monthly %		Likely Source of Turbidity	
Turbidity is a measure of the	No more th	an 1 NTU*							
clarity of the water and not a contaminant.	Less than 0.3 NTU in		0.1			100	No		Soil runoff
соптаншант.	050/ 05-	eth by a america							

95% of monthly samples