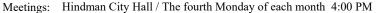
City of Hindman 2023 Water Quality Report

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The City of Hindman purchases water from Knott Co. Water & Sewer District and Southern Water & Sewer District. Both Knott and Southern treat surface water withdrawn from Carr Fork Lake and the Levisa Fork of the Big Sandy River, respectively. A source water assessment has been completed for the water supplies, including a rating of susceptibility to contamination. This susceptibility rating is based on several factors such as intake location, the proximity of the contaminant source, and the nature of the contaminant. The susceptibility to contamination for Knott County is rated moderate, whereas the rating for Southern is high. Potential contaminant sources and pathways that pose a threat to water quality include; roads and bridges; railroad; mining activities, oil and gas wells, untreated sewage; and hazardous waste sites. Activities and land use within the watershed can pose potential risks to your drinking water. Under certain circumstances contaminants could be released that would pose challenges to water treatment or even get into your drinking water. These activities and how they are conducted, are of interest to our customers because they potentially affect your health and the cost of treating your water The complete Source Water Assessment for Knott Co. is available for review at the Kentucky River Area Development District office in Hazard, KY (606) 436-3158.

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).

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.

Pagulated Contaminant T.			isiness nours		COUNTY	WATER	& SEWE	R DISTRICT (KY0600062)
Regulated Contaminant To	est Kesuns				Range		& SEWE	,
Contaminant	MCL	MCLG	Report	of Det	-	Date of	Violation	Likely Source of Contamination
[code] (units) Inorganic Contaminant			Level	01 Det	ection	Sample		Contamination
0	s I	l	1			l	ı	Γ
Fluoride [1025] (ppm)	4	4	0.41	0.41 to	0.41	May-23	No	Water additive which promotes strong teeth
Selenium [1045] (ppb)	50	50	0.5	0.5 to	0.5	May-23	No	Discharge from petroleum and metal refineries or mines; erosion of natural deposits
Disinfection Byproduct	Precurso) r						naturai deposits
Total Organic Carbon (ppm)	11000150	. <u>. </u>	1.29					
(measured as ppm, but reported as a ratio)	TT*	N/A	(lowest average)	1 to (monthl	2.37	2023	No	Naturally present in environment.
*	moval achie	ved to the % TOO				e 1 00 or greate	r for compli	ince
*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance. Other Constituents								
Turbidity (NTU) TT	Allowable		Highest Single Lowest		Lowest			
* Representative samples		Levels	Measurement		Monthly %	Violation Likely		Likely Source of Turbidity
Turbidity is a measure of the	No more th			reasurement 1410mmy 70				
clarity of the water and not a	Less than 0		0	0.083		No	Soil runoff	
contaminant.		nthly samples				110		
Regulated Contaminant To					9	OUTHER	N WATE	R DISTRICT (KY0360026)
Contaminant	cst Results	, 	Report	Range		Date of		Likely Source of
[code] (units)	MCL	MCLG	Level	of Det		Sample	Violation	Contamination
Inorganic Contaminant	•	<u>l</u>	Levei	of Det	ection	Sample		Containmation
Barium	<u> </u>	I						
[1010] (ppm)	2	2	0.05	0.05 to	0.05	May-23	No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride [1025] (ppm)	4	4	1.08	1.08 to	1.08	May-23	No	Water additive which promotes strong teeth
Nitrate		10	0.44	0.44	0.44		NI-	Fertilizer runoff; leaching from
[1040] (ppm)	10	10	0.44	0.44 to 0.44		Sep-23 No		septic tanks, sewage; erosion of natural deposits
Disinfection Byproduct	Precurso	r						
Total Organic Carbon (ppm)			1.50					
(measured as ppm, but	TT*	N/A	(lowest	1 to	2.52	2023	No	Naturally present in environment.
reported as a ratio)			average)	(monthly ratios)				
*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.								
Other Constituents								
Turbidity (NTU) TT	Allowable Highes		est Single	Lowest	Violation	Likely Source of Turbidity		
* Representative samples	1	Levels	Mea	Measurement		violation	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	().29	100	No	Soil runoff	
Contaminant.	95% of mor	nthly samples						
Regulated Contaminant To	est Results	5					CITY OF	HINDMAN (KY0600198)
Contaminant	MCL	MCLG	Report	Rai	nge	Date of	Violation	Likely Source of
[code] (units)	MCL	MCEG	Level	of Det	ection	Sample	Violation	Contamination
Disinfectants/Disinfection	on Bypro	ducts						
Chlorine	MRDL	MRDLG	1.28					W-t14iti1
(ppm)	= 4	= 4	(highest average)	1.22 to	1.29	2023	No	Water additive used to control microbes.
HAA (ppb) (Stage 2)			37					
[Haloacetic acids]	60	N/A	(high site average)	20 to (range of ind	39 ividual sites)	2023	No	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	48 (high site	27 to 76		2023	No	Byproduct of drinking water disinfection.
average) (range of individual sites)								
Household Plumbing Co		nts		1		1		Т
Copper [1022] (ppm)	AL =		0.312					Corrosion of household plumbing
sites exceeding action level 0	1.3	1.3	(90 th percentile)	0 to	0.619	Jun-23	No	systems
Lead [1030] (ppb) sites exceeding action level	AL =	0	2 (90 th	0 to	4	Jun-23	No	Corrosion of household plumbing systems
0 Violation: Revised Total Co	liform Rule	(2023-950272)	percentile)					33364113

We received a violation for failing to collect bacteriological samples during the 1/1/23-1/31/23 compliance period. Normally, we collect two routine bacteriological samples each month however due to a winter storm that stretched our resources to the limit and we failed to collect the samples for January 2023. Since receiving this violation we have made meeting our compliance goals a priority. We are updating our operations & maintenance program with sample collection protocols. No one was at risk because of this violation. We test for chlorine residual in our distribution system daily. Those results are in indicator that any coliform bacteria present in the system would have been inactivated due to the chlorine concentration. Our water suppliers provides us with high quality water that does not need any additional disinfection. We completed the public notice and have since been returned to compliance.