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, $(\mu g/L)$. 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.

Hardin County Water District #1 Water Quality Report 2024

For previous reports include year. Example: tapwaterinfo.com/2023/hardinco1



Water System ID: KY0470393 & KY0470990

General Manager: Justin Metz CCR Contact: Chris Gohman Phone: 270-862-4340

Mailing address:

1400 Rogersville Road, Radcliff, KY 40160

Meeting location and time: 1400 Rogersville Road Last Tuesday each month at 11:30 AM

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). 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 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.

Source Information:

Hardin County Water District #1 operates two treatment plants, one at Pirtle Spring and one at Fort Knox. The Pirtle Spring Treatment Plant has two surface water sources. Pirtle Spring, located at the plant site, and the Head of Rough Spring, located about 1.5 miles from the water plant. The watersheds for the springs are in agricultural areas and subject our treatment process to fertilizers, pesticides, and herbicides. The susceptibility to contaminants can be high occasionally due to the karst terrains. The Muldraugh Treatment Plant at Fort Knox treats groundwater from the West Point Wellfield. The susceptibility to contamination is considered moderate, however the close proximity of abandoned oil and gas wells provide a higher susceptibility rating. Hardin County #1 purchases supplemental water from Hardin County #2 and Louisville Water Company. Hardin County #2 sources are City Spring of Elizabethtown and White Mills Spring and Louisville is the Ohio River. All of these sources are considered surface water. The overall susceptibility to contamination is considered moderate but a few areas of higher concern include transportation corridors, urban areas, agricultural activities, underground storage tanks, permitted outfalls, abandoned oil and gas wells, and illegal dump sites. Source Water Assessment Plans have been developed for each of these sources and are available for review at the respective water systems.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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.

Service Line Inventory Information:

To address lead in drinking water, EPA requires that all community water systems develop and maintain an inventory of service line materials. A statistical model was used to complete the Service Line Inventory (SLI) and customers may contact our office to request inspection of their service line material.

Lead Sample Results Availability Information:

We are required to periodically sample water from customer taps to determine lead and copper levels. EPA sets the lead action level at 0.015 mg/L (15 ppb). For a water system to be in compliance, at least 90% of tap water samples must have lead levels below this limit. This report contains the 90th percentile and range of our most recent sampling. The individual results for each location sampled can be reviewed at our office.

We are only required to test for some contaminants periodically, so the results listed in this report may not be from the previous year. Only detected contaminants are included in this report. For a list of all contaminants we test for please contact us. Copies of this report are available upon request by contacting our office.

Regulated Contaminant	Test Res	ults - Har	din (County #1	(HC1); l	For	t Knox (Fk	()			
Contaminant			Source	Report	Range of Detection		ige	Date of	Violation	Likely Source of	
[code] (units)	MCL	MCLG	Sou	Level			Sample		Contamination		
Barium			HC1	0.034	0.034	to	0.034	2024		Drilling wastes; metal	
[1010] (ppm)	2	2	FK	0.026	0.026	to	0.026	2023	No	refineries; erosion of natural deposits	
Fluoride			HC1	0.63	0.63	to	0.63	2024		Water additive which	
[1025] (ppm)	4	4	FK	0.72	0.72	to	0.72	2023	No	promotes strong teeth	
Nitrate			HC1	2.59	2.59	to	2.59			Fertilizer runoff; leaching	
[1040] (ppm)	10	10	FK	0.388	0.388	to	0.388	2024	No	from septic tanks, sewage; erosion of natural deposits	
Disinfectants/Disinfect	ion Bypro	oducts and	Pre	cursors							
Total Organic Carbon (ppm (report level=lowest avg. range of monthly ratios)) TT*	N/A	HC1	1.53	1	to	2.5	2024	No	Naturally present in environment.	
*Monthly ratio is the % TC	C remova	l achieved to	the	% TOC ren	noval requi	irec	l. Annual ave	erage must be	1.00 or gre	ater for compliance.	
Chloramines	MRDL	MRDLG	HC1	2.46	1	to	3.5			Water additive used to control microbes.	
(ppm)	= 4	= 4	FK	2.33	1.00	to	3.70	2024	No		
HAA (ppb) (Stage 2)			HC1	29	1	to	34			D 1 . 61:1:	
[Haloacetic acids]	60	N/A	FK	11	0	to	3	2024	No	Byproduct of drinking water disinfection	
TTHM (ppb) (Stage 2)			HC1	34	4	to	34			D 1 (C1:1:)	
[total trihalomethanes]	80	N/A	FK	16	5	to	10	2024	No	Byproduct of drinking water disinfection.	
Household Plumbing Co	ontamina	nts									
Copper [1022] (ppm)	AL =		HC1	0.192	0.016	to	0.269	2022		Corrosion of household plumbing systems	
sites exceeding action level 0	1.3	1.3	FK	0.048	0	to	0.165	2023	No		
Lead [1030] (ppb)	AL =		HC1	2	0	to	6	2022		Commission of Lorentz 14	
sites exceeding action level	15	0	FK	2	0	to	50	2023	No	Corrosion of household plumbing systems	
Other Constituents								•			
Turbidity (NTU) TT	Allowable		Source	Highest Single Measurement		Lowest	Violation				
* Representative samples	Levels		Sor				Monthly %		Likely Source of Turbidity		
Turbidity is a measure of	No more than 1 NTU I		HC1	0.055			100				
the clarity of the water and not a contaminant.	Less than 0.3 NTU in FK 95% monthly samples			0.094			100	No	No Soil runoff		

Your drinking water has been sampled for a series of unregulated contaminants. Unregulated contaminants are those that EPA has not established drinking water standards. There are no MCLs and therefore no violations if found. The purpose of monitoring for these contaminants is to help EPA determine where the contaminants occur and whether they should have a standard. As our customers, you have a right to know that these data are available. If you are interested in examining the results, please contact our office during normal business hours.

Regulated Contaminant Test Results - White Mills (HCA); City Springs (HCB); Louisville Water Co. (LWC)										
Contaminant			Source	Report	Range			Date of	Violation	Likely Source of
[code] (units)	MCL	MCLG	Sou	Level	of Detection			Sample		Contamination
Barium			HCA	0.033	0.033	to	0.033			Drilling wastes; metal
[1010] (ppm)	2	2	НСВ	0.039	0.039	to	0.039	2024	No	refineries; erosion of natural
			LWC	0.024	0.024	to	0.024			deposits
Fluoride			HCA	0.74	0.74	to	0.74			Water additive which
[1025] (ppm)	4	4	HCB	0.65	0.65	to	0.65	2024	No	promotes strong teeth
			LWC	0.66	0.66	to	0.66			promotes strong teeth
Nickel (ppb)										
(US EPA remanded MCL	N/A	N/A	LWC	1.3	1.3	to	1.3	2024	No	N/A
in February 1995.)										
Nitrate			HCA	2.36	2.36	to	2.36			Fertilizer runoff; leaching
[1040] (ppm)	10	10	НСВ	1.6	1.6	to	1.6	2024	No	from septic tanks, sewage;
			LWC	1	0.67	to	1			erosion of natural deposits
Nitrite										Fertilizer runoff; leaching
[1041] (ppm)	1	1	LWC	0.01	BDL	to	0.01	2024	No	from septic tanks, sewage;
										erosion of natural deposits
2,4-D										Runoff from herbicide used on
[2105] (ppb)	70	70	LWC	BDL	BDL	to	0.29	2024	No	row crops
										·· Po
Disinfectants/Disinfect	ion Bypro	oducts and	Prec	ursors						
Total Organic Carbon (ppm)		HCA	1.86	1.27	to	2.86			Naturally present in environment.
(report level=lowest avg.	TT*	N/A	HCB	1.22	1.00	to	2.75	2024	No	
range of monthly ratios)			LWC	1.44	0.90	to	1.91			
*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.										
Other Constituents	1							1		
Turbidity (NTU) TT	Allo	Allowable Supple		Highest Single Measurement		Lowest Violation				
* Representative samples	Levels 5		Sol				Monthly %	•	Lil	kely Source of Turbidity
Turbidity is a measure of	No more	than 1 NTU	HCA	0	.05					
the clarity of the water and	Less than 0.3 NTU in I		НСВ	0	.07		100	No		Soil runoff
not a contaminant.	95% monthly sample:L'			0	09					

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.