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.

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 request a paper copy of this report contact our office at 270-351-3222.





This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product.

Water System IDs: KY0470393 & KY0470990 General Manager: Stephen Hogan 270-351-3222 CCR Contact: Chris Gohman 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 Hardin County Water District No. 1 and Ft. Knox Water updated the Wellhead Protection Plans (WHPPs) in 2021. Earlier WHPP efforts included identifying the area basins that drain into our raw water sources, to identify possible types and sources of contamination, and then to develop programs or additional measures to better protect this source waters. Pirtle Spring WTP found that its two separate sources do not share the same water. The Pirtle Spring, located at the plant site, collects water from a 27-square-mile area. The Head of Rough Spring, located about 1.5 miles from the water plant, receives water from a 17-squaremile area. Both of these watersheds are in largely agricultural areas and subject our treatment process to contaminants from agricultural runoff including fertilizers, pesticides, and herbicides.

Fort Knox personnel conducted a comprehensive inventory of existing wells for the West Point well field and surrounding 5.5-square-mile protection area, which serves Muldraugh WTP, as well as the 19.4-square-mile recharge area for McCracken Springs, which serves Central WTP. These inventories identify and monitor potential sources of contamination to the water supply. One of the primary management strategies included in the Ft. Knox WHPP is the use of control wells to protect the groundwater supply from chloride intrusion from nearby abandoned oil and gas wells. A copy of these reports is available by contacting us during regular business hours.

In 2018, we switched from chlorine disinfection to chloramine disinfection. We supplement our demand with Louisville Water Company, their source being the Ohio River, and Hardin County Water District No.2, their sources being the City Spring of Elizabethtown and White Mills Spring. Their water quality data has been added to the report.

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. 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).

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.

To understand the possil every day at the MCL le				•			· •		to drink 2 liters of water	Regulated Contaminat	nt Test R	Results - W	1 1	Mills (H	(CA); City	Springs	(HCB); Lou	isville V	vater Co. (LWC)	
The data presented in this repo						0				Contaminant			Source	Report	R	ange	Date of	Violation	Likely Source of	
approved by EPA, the State ha				0			0		1	[code] (units)	MCL	MCLG	Sou	Level	of De	tection	Sample		Contamination	
1	20	2	-	-		in this table, tho	ugh represent	ative, may be	more than one year old. Copies of	Barium			HCA	0.031	0.031 to	0.031				
this report are available upon request by contacting our office during business hours. Regulated Contaminant Test Results - Hardin Co. #1 (HC1); Fort Knox (FK)						[1010] (ppm)	2	2	HCB	0.036	0.036 t	o 0.036	2021	No	Drilling wastes; metal refinerie erosion of natural deposits					
Contaminant	S Report Range Date of Violation Likely Source of				Likely Source of		1								closion of natural deposits					
			J no			8		violation	~	Fluoride			HCA	0.56	0.56 to	0.56				
[code] (units)	MCL	MCLG	S.	Level	of D	etection	Sample		Contamination	[1025] (ppm)	4	4	HCB	0.61	0.61 to	0.61	2021	No	Water additive which promotes	
Barium				0.020	0.020	0.020	2021	No	Drilling wastes; metal refineries;	[1020] (ppm)			LWC		0.7 to		0.7		strong teeth	
[1010] (ppm)	2	2	HC1	0.029	0.029 t	o 0.029	2021	INO	erosion of natural deposits	Nitrate			HCA	2.78	2.78 to					
F1 1			+								10	10	HCB				2021	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of	
Fluoride			HC1	0.77	0.67	0.77	2021	No	Water additive which promotes	[1040] (ppm)	10	10		1.38	1.38 to		2021	INO	natural deposits	
[1025] (ppm)	4	4	HCI	0.67	0.67 t	o 0.67	2021	INO	strong teeth				LWC	1.4	0.6 to	o 1.4				
Tatal Orașia Carban (+							Nitrite									Fertilizer runoff; leaching from	
Total Organic Carbon (ppm)	777 *	27/4		1.0		2.52	2021	N	Naturally present in environment.	[1041] (ppm)	1	1	LWC	0.011	BDL to	0.011	2021	No	septic tanks, sewage; erosion o	
(report level=lowest avg.	TT*	N/A	HC1	1.63	1 t	o 2.73	2021	No	Naturany present in environment.										natural deposits	
range of monthly ratios)	, , , , , , , , , , , , , , , , ,	11 .0				.1	1.00			2,4-D										
*Monthly ratio is the % TOC r		1	1	1		0	e 1.00 or great	er for compli	ince.	[2105] (ppb)	70	70	LWC	BDL	BDL to	0.29	2021	No	Runoff from herbicide used on row crops	
Chloramines	MRDL	MRDLG	HC1	2.60	1.5 t		2021	No	Water additive used to control		i				1				ion crops	
(ppm)	= 4	= 4	FK	2.07	0.96 t	o 3.20	2021	INO	microbes.	Atrazine										
			IIG1	(average)	0	40				[2050] (ppb)	3	3	HCA	0.27	BDL to	0.27	2021	No	Runoff from herbicide used on	
HAA (ppb) (Stage 2)	(0)	27/4	HC1	28	8 t		2021	No	Byproduct of drinking water disinfection	[2030] (pp0)	5	5	псл	0.27	DDL II	0 0.27	2021	110	row crops	
[Haloacetic acids]	60	N/A FI	FK	29	13 t		2021	INO					II.C.I	0.55	1.67	1.2				
			IIG1	(average)		idividual sites)				Total Organic Carbon (ppm)			HCA	2.55	1.67 to				NT	
TTHM (ppb) (Stage 2)		27/4	HC1	27	11 t		2021	N	Byproduct of drinking water	(report level=lowest avg.	TT*	N/A	HCB	1.26	1 to		2021	No	Naturally present in environme	
[total trihalomethanes]	80	N/A	FK	31	14 t		2021 I	No	disinfection.	range of monthly ratios)		LW	LWC	1.37 0.72		o 2.04				
IIhl.d.Dlh.t	C			(average)	(range of ir	idividual sites)				*Monthly ratio is the % TOC r	emoval achi	ieved to the %	5 TOC	removal requ	uired. Annual	average mus	st be 1.00 or great	er for complia	ance.	
Household Plumbing		nants	T					1		Other Constituents										
Copper [1022] (ppm) AL = ites exceeding action level 1.3		1.3	HC1	0.1/0	0.0070	0.652	2019	No	Corrosion of household plumbing	Turbidity (NTU) TT	All	owable	urce	Highest S	Highest Single		Violation			
sites exceeding action level	1.3	1.3		0.169	0.0279 t	o 0.653	2019	INO	systems	* Representative samples			Sour	M		M41-1 0		Likely Source of Turbidity		
U Last [1020] (mmb)	AT -		- (90th percenti	ne)			+		Turbidity is a measure of the		evels		Measurer		Monthly 9	/0	-	Likely Source of Turbidity	
Lead [1030] (ppb)	AL= 15	0	HC1	4	0 t	0 5	2010	No	Corrosion of household plumbing	clarity of the water and not a		nan 1 NTU*	HCA	0.03			N			
sites exceeding action level	15	0		4		0 3	2019	INO	systems	contaminant.		0.3 NTU in HCB			0.04	100 No		Soil runoff		
Other Constituents	ļ		(90th percent	ne)						95% month	hly samples	LWC		0.09					
Turbidity (NTU) TT	A11.	owable	8	Highest S	Single	Lowest	Violation	1			• • •]	
						ehold Plumbing Contaminants - For														
* Representative samples		evels	x	Measure	ment	Monthly %			Likely Source of Turbidity	Copper [1022] (ppm) Round 1	AL=			048				Corrosior	of household plumbing	
Turbidity is a measure of the clarity of the water and not a	No more th			1.3	1.3 1.3				0.097 Mar-21 N	Mar-21 No	systems	1 0								
contaminant.	Less than ().3 NTU in	HC1		0.084	100	No		Soil runoff	0			-	entile)						
	95% month	ly samples								Copper [1022] (ppm) Round 2	AL=			025 poth		0.046	N-	Corrosior	of household plumbing	

Household Plumbing	Contami	nants - Fort	Knox						
Copper [1022] (ppm) Round 1 sites exceeding action level 0	AL= 1.3	1.3	0.048 (90 th percentile)	0	to	0.097	Mar-21	No	Corrosion of household plumbing systems
Copper [1022] (ppm) Round 2 sites exceeding action level 0	AL= 1.3	1.3	0.025 (90 th percentile)	0	to	0.046	Jul-21	No	Corrosion of household plumbing systems
Lead [1030] (ppb) Round 1 sites exceeding action level 3	AL= 15	0	2.6 (90 th percentile)	0	to	20	Mar-21	No	Corrosion of household plumbing systems
Lead [1030] (ppb) Round 2 sites exceeding action level 0	AL= 15	0	0 (90 th percentile)	0	to	14	Jul-21	No	Corrosion of household plumbing systems