Some or all of these definitions may be found in this report:

Level 1 Assessment - A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system. 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 2,000,000,000,000 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.

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

Harrison Co. Water Association Water Quality Report 2021



Water System ID: KY0490179 Manager: Kenneth Tolle 859-234-4284 CCR Contact: Kenneth Tolle 859-234-4284

Mailing address: P.O. Box 215 Cynthiana, KY 41031

Meeting location and time: Water Office – US 27 South Third Wednesday each month at 7:00 PM

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.

Harrison Co. Water Association provides purchased water from several suppliers. Some of our suppliers purchase water from other producers. All of the water for our system comes from producers that treat surface water. The producers and their sources include: City of Cynthiana withdraws from South Fork of Licking River: Kentucky-American Water withdraws from Kentucky River and Jacobson Reservoir; City of Paris withdraws from Stoner Creek; Nicholas County Water District purchases from Western Fleming Water District and the city of Carlisle which withdraws from Licking River. Each of the producers has conducted an analysis of susceptibility to contamination and the overall susceptibility is considered moderate to moderately high. Areas of high concern include transportation corridors, underground and above ground storage tanks, agricultural land use, industrial sites, and waste generators. The respective Source Water Assessment Plans are available for review at each of the water producers. Contact information for our suppliers can be obtained by calling our office at 859-234-4284.

For specific service areas contact the Harrison Co. Water Association. General service areas for each producer: Cynthiana, Western Fleming, and Carlisle – blended water serves all of Harrison County, parts of Nicholas County and parts of Scott County

Kentucky, American Water, serves porthern part of

Kentucky-American Water – serves northern part of Bourbon County

Paris—directly serves approximately 40 homes on Peacock and Coultard Roads. Central Bourbon County is indirectly served water by way of the Millersburg-Kentucky American system.

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).

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 vou 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.

Suppliers: Carlisle (C), Cynthiana (CY), Kentucky-American (KA), Paris (P), Western Fleming (WF)

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.

year old.										
	Allow	able Levels			st Single crement		Lowest Monthly %	Violation	Likely Source of Turbidity	
Turbidity (NTU) TT	No more	than 1 NTU*	C=	0	.73		99	No		
* Representative samples	Less than	0.3 NTU in	CY= 0.		1.3		100	No		Soil runoff
of filtered water	95% monthly samples		KA=	0.06 0.275			100	No		
			P=				100	No		
			WF=	0.09			100	No		
Regulated Contaminant	Test Resu	ılts:								
Contaminant			MCLG Report Range		ge	Date of	Violation	Likely Source of		
[code] (units)	MCL	MCLG	Son	Level of Det			_	Sample	, 10141011	Contamination
Radioactive Contaminant										
Alpha emitters	15	0	CY=	3.9	3.9 t	to	3.9	2021	No	E : C : 11 ::
[4000] (pCi/L)										Erosion of natural deposits
Inorganic Contaminants	•		•	•					•	
Barium			C=	0.013	0.013 t	to	0.013			
[1010] (ppm)	2	2	CY=	0.02	0.02 t	to	0.02	2021 No	Drilling wastes; metal refineries; erosion of natural	
			P=	0.02	0.02 t	to	0.02		INO	deposits
			WF=	0.02	0.02 t	to	0.02			аерозно
Fluoride			C=	1	1 t	to	1			
[1025] (ppm)			CY=	0.76	0.76 t	to	0.76	2021 No	No	Water additive which promotes strong teeth
	4	4	KA=	0.83	0.83 t	to	0.83			
			P=	0.79	0.79 t	to	0.79			
			WF=	0.91	0.91 t	to	0.91			
Nitrate			C=	0.587	0.587 t	to	0.587			Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
[1040] (ppm)			CY=	0.8	0.47 t	to	0.8			
	10	10	KA=	0.47	0.47 t	to	0.47	2021	No	
			WF=	0.338		to	0.338			
			P=	0.49		to	0.49			
Total Organic Carbon (ppm)			C=	1.71		to	3.25		No	Naturally present in environment.
(report level=lowest avg.			CY=	1.47	-	to	2.11			
range of monthly ratios)	TT*	N/A	KA=	1.68		to	2.84	2021		
			P=	1.92		to	3.23			
	<u> </u>		WF=	1.3		to	2.35			
*Monthly ratio is the % TO		ı							T .	
Chlorite	1	0.8	CY=	0.850	0.47 t	to	0.93	2021	No	Byproduct of drinking water disinfection.
(ppm)	1.000		-	(average)						
Chlorine dioxide (ppb)	MRDL	MRDLG					.	2021		Water additive used to control microbes.
	= 800	= 800	CY=	590	0 t	to	590	2021	No	microbes.

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

Regulated Contaminant	Test Res	ults	Harrison C	ounty V	Vater	Associati	on		
Contaminant			Report	Range			Date of	Violation	Likely Source of
[code] (units) MCL		MCLG	Level	of	Dete	ction	Sample		Contamination
Chloramines	MRDL	MRDLG	1.12						Water additive used to contro
(ppm)	= 4	= 4	(highest	0.51	to	2.19	2021	No	microbes.
			average)						
Chlorine	MRDL	MRDLG	1.12						Water additive used to control microbes.
(ppm)	= 4	= 4	(highest	0.32	to	2.02	2021	No	
			average)						
HAA (ppb) (Stage 2)			41						Decree dest of deleting and a
[Haloacetic acids]	60	N/A	(high site	11	to	60	2021	No	Byproduct of drinking water disinfection
		!	average)	(range o	f indiv	vidual sites)			disinfection
TTHM (ppb) (Stage 2)			69						Decree dest of deleting and a
[total trihalomethanes]	80	N/A	(high site	23.6	to	90.9	2021	No	Byproduct of drinking water disinfection.
			average)	(range of individual sites)					distillection.
Household Plumbing Co	ontamina	nts							
Copper [1022] (ppm)	AL =		0.05						Corrosion of household
sites exceeding action level	1.3	1.3	(90th	0	to	0.13	Aug-21	No	plumbing systems
0	percentile)					prumonig systems			
Lead [1030] (ppb)	AL =		0						Corrosion of household
sites exceeding action level	15	0	(90th	0	to	6.8	Aug-21	No	plumbing systems
0			percentile)						

