

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.

Harrison Co. Water Association

Water Quality Report 2025

For previous reports include year.
Example: tapwaterinfo.com/2024/harrisonco

Water System ID: KY0490179
Manager: Nathan Fields
859-234-4284
CCR Contact: Nathan Fields
859-234-4284

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

Meeting location and time:
Water Office – 433 Seabiscuit Way
Third Wednesday each month at 5:00 PM



Source Information:
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 and the main Licking River; Kentucky-American Water (KAW) withdraws from Kentucky River and Jacobson Reservoir. In emergency situations, we can purchase water from Nicholas County, whose water is treated by the City of Carlisle and Western Fleming Water District. The City of Carlisle and Western Fleming both withdraw from the main 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. The following streets are served by KAW: 1120-1133 US 68; 2023-3222 Millersburg Rd; 261-503 Colville Rd; 2910-3211 Peacock Rd; 337-763 Collins Rd; 342-1387 Russell Cave; 382-1683 US 27S; 5967-7427 US 62W; 730-1385 Clay Kiser Rd; all of Allen Pike; Ardery Rd; Brentsville Rd; Endicott Ln; Grimes Batterton Rd; Lail Ln; Larue Rd; Marylyn Dr; McNease Rd; Purdy Ln; Redmon Rd; Silas Rd; Steele Ford Rd; Teresa Dr; Townsend Valley Rd; Walnut Grove Ln. Our remaining customers are served by the City of Cynthiana.

Message from the EPA:
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.

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:
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>.

We are required to annually provide information about the health risks from lead in drinking water to schools and child care facilities. All elementary schools, secondary schools, and child care facilities are eligible to be sampled for lead by our water system. Contact our office for scheduling or to learn results of previous sampling.

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. We have completed a service line inventory (SLI) and it is available for review at our office.

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.

Suppliers: Carlisle (C), Cynthiana (CY), Kentucky-American (KA), 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.

	Allowable Levels	Source	Highest Single Measurement	Lowest Monthly %	Violation	Likely Source of Turbidity
Turbidity (NTU) TT	No more than 1 NTU*	C=	0.27	100	No	Soil runoff
* Representative samples	Less than 0.3 NTU in	CY=	0.12	100	No	
of filtered water	95% monthly samples	KA=	0.1	100	No	
		WF=	0.07	100	No	

Regulated Contaminant Test Results:									
Contaminant [code] (units)	MCL	MCLG	Source	Report Level	Range of Detection		Date of Sample	Violation	Likely Source of Contamination
Radioactive Contaminants									
Alpha emitters [4000] (pCi/L)	15	0	CY=	3.9	3.9	to 3.9	2021	No	Erosion of natural deposits
Inorganic Contaminants									
Barium [1010] (ppm)	2	2	C= CY= WF=	0.01 0.013 0.017	0.01 0.013 0.017	to to to	0.01 0.013 0.017	2025	No Drilling wastes; metal refineries; erosion of natural deposits
Fluoride [1025] (ppm)	4	4	C= CY= KA= WF=	0.75 0.82 0.78 0.49	0.75 0.82 0.78 0.49	to to to to	0.75 0.82 0.78 0.49	2025	No Water additive which promotes strong teeth
Nitrate [1040] (ppm)	10	10	C= CY= KA= WF=	1.15 1.5 0.63 0.448	1.15 1.5 0.63 0.448	to to to to	1.15 1.5 0.63 0.448	2025	No Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
Disinfectants/Disinfection Byproducts and Precursors									
Total Organic Carbon (ppm) (report level=lowest avg. range of monthly ratios)	TT*	N/A	C= CY= KA= WF=	1.62 1.41 1.59 1.42	1.39 0.92 0.93 0.83	to to to to	2 2.34 2.6 2	2025	No Naturally present in environment.
*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.									
Chlorite (ppm)	1	0.8	CY=	0.930 (average)	0.50	to 0.97	2025	No	Byproduct of drinking water disinfection.
Chlorine dioxide (ppb)	MRDL = 800	MRDLG = 800	CY=	490	0	to 490	2025	No	Water additive used to control 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 Results				Harrison County Water Association				
Contaminant [code] (units)	MCL	MCLG	Report Level	Range of Detection		Date of Sample	Violation	Likely Source of Contamination
Disinfectants/Disinfection Byproducts and Precursors								
Chloramines (ppm)	MRDL = 4	MRDLG = 4	1.19 (highest average)	1.08	to	2.2	2025	No Water additive used to control microbes.
Chlorine (ppm)	MRDL = 4	MRDLG = 4	1.19 (highest average)	0.56	to	1.85	2025	No Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	52 (high site average)	17	to	61 (range of individual sites)	2025	No Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	53 (high site average)	15.1	to	69.6 (range of individual sites)	2025	No Byproduct of drinking water disinfection.
Household Plumbing Contaminants								
Copper (ppm) Round 1 sites exceeding action level 0	AL = 1.3	1.3	0.058 (90 th percentile)	0	to	0.068	Jul-24	No Corrosion of household plumbing systems
Lead (ppb) Round 1 sites exceeding action level 0	AL = 15	0	0 (90 th percentile)	0	to	5	Jul-24	No Corrosion of household plumbing systems

Unregulated Contaminants (UCMR 5)	average	range (ppb)		date
perfluorobutanoic acid (PFBA)	0.002	0	to 0.0079	Sep-24
perfluorobutanesulfonic acid (PFBS)	0.001	0	to 0.0042	Sep-24
perfluoroheptanoic acid (PFHpA)	0.001	0	to 0.0047	Sep-24
perfluorohexanesulfonic acid (PFHxS)	0.005	0	to 0.0153	Sep-24
perfluorohexanoic acid (PFHxA)	0.002	0	to 0.0089	Sep-24
perfluorooctanesulfonic acid (PFOS)	0.015	0	to 0.0479	Sep-24
perfluoropentanoic acid (PFPeA)	0.002	0	to 0.0134	Sep-24

Your drinking water at Harrison County Water Association has been sampled for a series of unregulated contaminants. Unregulated contaminants are those for which 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.