

# Whitley County Water District

## Water Quality Report 2024

Water System ID: KY1180468  
Manager: Sandy Smith  
(606) 549-3600

CCR Contact: Sandy Smith  
(606) 549-3600

Mailing Address:  
19 US Hwy 25W S  
Williamsburg, KY 40769

Meeting location and time:  
19 US Hwy 25W S  
4<sup>th</sup> Thursdays at 1:00 PM

Whitley County Water District purchases water from Corbin and Williamsburg. Corbin treats surface water from Laurel River Lake, whereas Williamsburg treats surface water from the Cumberland River. Water from each of these suppliers has the potential to mix within our distribution system. Each of these suppliers has conducted an analysis of susceptibility to contamination and the overall susceptibility is generally moderate. Areas of high concern for the water sources include transportation corridors, underground storage tanks, agricultural land use, and waste generators. The complete Source Water Assessment Plans for Corbin and Williamsburg are available for review at the respective water producers or Area Development District offices.

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).

**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. We have completed a service line inventory (SLI) and it is available for review at the Whitley Co. Water District office located at 19 US Hwy 25W S., Williamsburg, KY 40769.

### 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 .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 the Whitley Co. Water District office located at 19 US Hwy 25W S., Williamsburg, KY 40769.

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.

### 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, ( $\mu\text{g/L}$ ). 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.

**Variations & 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 call (606)549-3600.**

Regulated Contaminant Test Results Whitley County Water District							
Contaminant [code] (units)	MCL	MCLG	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
Chlorine (ppm)	MRDL = 4	MRDLG = 4	1.59 (highest average)	0.35 to 2.05	2024	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	57 (high site average)	22 to 91 (range of individual sites)	2024	No	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	71 (high site average)	18 to 85 (range of individual sites)	2024	No	Byproduct of drinking water disinfection.
Household Plumbing Contaminants							
Copper (ppm) Round 1 sites exceeding action level 0	AL = 1.3	1.3	0.339 (90 <sup>th</sup> percentile)	0.004 to 1.1	Jul-23	No	Corrosion of household plumbing systems
Lead (ppb) Round 1 sites exceeding action level 0	AL = 15	0	0 (90 <sup>th</sup> percentile)	0 to 3	Jul-23	No	Corrosion of household plumbing systems

Unregulated Contaminants (UCMR 5)	average	range (ppb)	date
perfluorobutanoic acid (PFBA)	0.004	0 to 0.0073	Jul-24
perfluorobutanesulfonic acid (PFBS)	0.002	0 to 0.0041	Jul-24
perfluorohexanoic acid (PFHxA)	0.011	0.0035 to 0.02	Jul-24
perfluorooctanesulfonic acid (PFOS)	0.001	0 to 0.0046	Jul-24
perfluorooctanoic acid (PFOA)	0.005	0 to 0.01	Jul-24
perfluoropentanoic acid (PFPeA)	0.006	0 to 0.012	Jul-24

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 Corbin Utilities (C) Williamsburg Water (W)								
Contaminant [code] (units)	MCL	MCLG	Source	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
Inorganic Contaminants								
Barium [1010] (ppm)	2	2	C=	0.02	0.02 to 0.02	2024	No	Drilling wastes; metal refineries; erosion of natural deposits
			W=	0.028	0.028 to 0.028	2024	No	
Fluoride [1025] (ppm)	4	4	C=	0.86	0.86 to 0.86	2024	No	Water additive which promotes strong teeth
			W=	0.93	0.93 to 0.93	2024	No	
Nitrate [1040] (ppm)	10	10	C=	0.432	0.432 to 0.432	2024	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=	1.17	1.00 to 1.65	2024	No	Naturally present in environment.
			W=	1.14	0.50 to 1.73	2024	No	
*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 Levels		Source	Highest Single Measurement	Lowest Monthly %	Violation	Likely Source of Turbidity	
* Representative samples	No more than 1 NTU* Less than 0.3 NTU in 95% monthly samples		C=	0.24	100	No	Soil runoff	
Turbidity is a measure of the clarity of the water and not a contaminant.			W=	0.01	100	No		

# Whitley County Water District 92 West Water Quality Report 2024

Water System ID: KY1183728  
Manager: Sandy Smith  
(606) 549-3600

CCR Contact: Sandy Smith  
(606) 549-3600

Mailing Address:  
19 US Hwy 25W S  
Williamsburg, KY 40769

Meeting location and time:  
19 US Hwy 25W S  
4<sup>th</sup> Thursdays at 1:00 PM

Whitley County Water District 92 West purchases water from McCreary County Water District which treats surface water from Lake Cumberland and Laurel Creek Reservoir. An analysis of the overall susceptibility to contamination indicated that this susceptibility is generally low. Within the critical protection area of the Lake Cumberland intake there are three potential sources of contamination that are ranked high. Areas of concern include forest and woodland cover, one major roadway and power lines with potential herbicide usage. Within the critical protection area of the Laurel Creek intake there are eighteen potential sources of contamination that are ranked high. Area of concern includes a railroad, row crops, underground storage tanks; KPDES permitted discharges, mining, and waste generators or transporters. This is a summary of the system's susceptibility to contamination, which is a part of the completed Source Water Assessment Plan (SWAP). The completed plan is available for inspection at the McCreary County Water District Office located on U.S. 27, in Whitley City.

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**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.

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Regulated Contaminant Test Results Whitley Co. Water District 92 West							
Contaminant [code] (units)	MCL	MCLG	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
Chlorine (ppm)	MRDL = 4	MRDLG = 4	1.05 (highest average)	0.35 to 1.95	2024	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	58 (high site average)	41 to 76 (range of individual sites)	2024	No	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	70 (high site average)	34 to 76 (range of individual sites)	2024	No	Byproduct of drinking water disinfection.
Household Plumbing Contaminants							
Copper (ppm) Round 1 sites exceeding action level 0	AL = 1.3	1.3	0.0235 (90 <sup>th</sup> percentile)	0 to 0.038	Jun-22	No	Corrosion of household plumbing systems

Regulated Contaminant Test Results McCreary Co. Plant A (A) McCreary Co. Plant B (B)								
Contaminant [code] (units)	MCL	MCLG	Source	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
Barium [1010] (ppm)	2	2	A=	0.02	0.02 to 0.02	2024	No	Drilling wastes; metal refineries; erosion of natural deposits
			B=	0.017	0.017 to 0.017	2024	No	
Fluoride [1025] (ppm)	4	4	A=	0.66	0.66 to 0.66	2024	No	Water additive which promotes strong teeth
			B=	0.064	0.064 to 0.064	2024	No	

Disinfectants/Disinfection Byproducts and Precursors								
Total Organic Carbon (ppm) (report level=lowest avg. range of monthly ratios)	TT*	N/A	A=	1.22	1.12 to 1.47	2024	No	Naturally present in environment.
			B=	1.25	1.13 to 1.51	2024	No	

\*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 Levels	Source	Highest Single Measurement	Lowest Monthly %	Violation	Likely Source of Turbidity
* Representative samples	No more than 1 NTU* Less than 0.3 NTU in 95% monthly samples	A=	0.221	100	No	Soil runoff
		B=	0.097	100	No	
Unregulated Contaminants (UCMR 5)			average	range (ppb)	date	
perfluorobutanoic acid (PFBA)			0.003	0 to 0.0059	2024	

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.