#### 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.

To request a paper copy call (270) 384-2181.



# 2022 Water Quality Report



Water System ID: KY0011016 Manager: Lennon Stone 270-384-2181 CCR Contact: Bradley Miller 270-465-2200

Mailing address: P.O. Box 567, 109 Grant Lane Columbia, KY 42728

Meeting location and time: Utilities Office – 109 Grant Lane Columbia, KY Second Thursday each month at 4:30 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.

Most of the water for our system is treated by Columbia/Adair Utilities which has a source of Green River Reservoir. Some water is purchased from Campbellsville to serve the Eastridge Cemetery Road. Campbellsville treats water from Green River Reservoir and City Lake in Taylor County. Water purchased from Jamestown serves the Glensfork area and that water comes from Lake Cumberland. All of these water sources come from surface water. Each water system has completed a Source Water Assessment Plan (SWAP) to determine the susceptibility to contamination. The analysis of the susceptibility for all sources indicates that the potential for contamination is generally low. However, each assessment had areas of high concern including row crops, roads, bridges and culverts, forestland, pastureland, and KPDES permitted discharges. The release of contaminants through accidental spills could have an immediate impact on source water quality. The complete Source Water Assessment Plans are available for review at the respective water systems during normal business hours and are also available at the 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. 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 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 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 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. Copies of this report are available upon request by contacting our office.

representative, may be more							equest by c	ontacting	our office.	
Regulated Contaminant	Test Res	ults	Columbia/A	dair Utili	itie	S				
Contaminant			Report	R	Ran	ge	Date of		Likely Source of	
[code] (units)	MCL	MCLG	Level	of D	e te	ction	Sample	Violation	Contamination	
Barium [1010] (ppm)	2	2	0.01	0.01	to	0.01	May-22	No	Drilling wastes; metal refineries; erosion of natural deposits	
Fluoride [1025] (ppm)	4	4	0.99	0.99	to	0.99	May-22	No	Water additive which promotes strong teeth	
Nitrate [1040] (ppm)	10	10	0.45	0.45	to	0.45	May-22	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits	
Atrazine									Runoff from herbicide used on	
[2050] (ppb)	3	3	1	BDL 1	to	2	Sep-20	No	row crops	
Disinfectants/Disinfecti	ion Bypro	oducts and Pr	ecursors	1						
Total Organic Carbon (ppm	)		1.29						Naturally present in	
(measured as ppm, but	TT*	N/A	(lowest	1.02	to	1.69	2022	No	environment.	
reported as a ratio)			average)	(mont	thly	ratios)			en i nominenti	
*Monthly ratio is the % TO	C remova	l achieved to th	ie % TOC rem	oval require	ed.	Annual aver	age must be 1	.00 or grea	ter for compliance.	
Chlorine	MRDL	MRDLG	1.57						Water additive used to control	
(ppm)	= 4	= 4	(highest	0.64	to	2.51	2022	No	microbes.	
YY + ( 1) (0 2)			average)							
HAA (ppb) (Stage 2)		27/4	48				2022	No	Byproduct of drinking water	
[Haloacetic acids]	60	N/A	(high site	- ,	to 	61	2022	NO	disinfection	
TTIP ( 1) (0: 2)			average)	(range of i	ındı	vidual sites)				
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	50 (high site	19.3	to	68.1	2022	No	Byproduct of drinking water disinfection.	
			average)	(range of i	indi	vidual sites)				
Household Plumbing Co	ntamina	nts								
Copper [1022] (ppm) Roun			0.11						Corrosion of household	
sites exceeding action level	1.3	1.3	(90 <sup>th</sup>	0	to	0.16	Jul-20	No	plumbing systems	
0			percentile)							
Lead [1030] (ppb) Round 1	AL =		6						Corrosion of household	
sites exceeding action level	15	0	(90 <sup>th</sup>	0 1	to	12	Jul-20	No	plumbing systems	
0			percentile)							
Other Constituents			1							
Turbidity (NTU) TT	All	owable	Highest Si	_		Lowest	Violation			
* Representative samples		evels	Measurem	ent	[1	Monthly %		Likely	Source of Turbidity	
Turbidity is a measure of		han 1 NTU*								
the clarity of the water and not a contaminant.	Less than	0.3 NTU in	0.07			100	No		Soil runoff	
not a contaminant.	95% of m	onthly samples								

	Average	Range of Detection
Fluoride (added for dental health)	0.9	0.62 to 1.23

Regulated Contaminant Test Results Campbells ville Water and Sewer System								
Contaminant [code] (units)	MCL	MCLG	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination	
Barium [1010] (ppm)	2	2	0.02	0.02 to 0.02	May-22	No	Drilling wastes; metal refineries; erosion of natural deposits	
Fluoride [1025] (ppm)	4	4	1.03	1.03 to 1.03	May-22	No	Water additive which promotes strong teeth	
Nitrate [1040] (ppm)	10	10	0.42	0.42 to 0.42	May-22	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits	
Total Organic Carbon (ppm (measured as ppm, but reported as a ratio)	) TT*	N/A	1.25 (lowest average)	1.07 to 1.58 (monthly ratios)	2022	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.

## Other Constituents

o their competituents					
Turbidity (NTU) TT	Allowable	Highest Single	Lowest	Violation	
* Representative samples	Levels	Measurement	Monthly %	)	Likely Source of Turbidity
	No more than 1 NTU*				
the clarity of the water and	Less than 0.3 NTU in	0.29	100	No	Soil runoff
not a contaminant.	95% of monthly samples				

	Average	Range of Detection
Fluoride (added for dental health)	0.8	0.53 to 1.01

Regulated Contaminant	Test Res	ults	James town	Municipal Water Wor	ks		
Contaminant			Report	Range	Date of		Likely Source of
[code] (units)	MCL	MCLG	Level	of Detection	Sample	Violation	Contamination
Barium [1010] (ppm)	2	2	0.01	0.01 to 0.01	May-22	No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride [1025] (ppm)	4	4	0.99	0.99 to 0.99	May-22	No	Water additive which promotes strong teeth
Nitrate [1040] (ppm)	10	10	0.19	0.19 to 0.19	May-22	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
Total Organic Carbon (ppm (measured as ppm, but reported as a ratio)	TT*	N/A	1.88 (lowest average)	1.00 to 3.32 (monthly ratios)	2022	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.

#### Other Constituents

Turbidity (NTU) TT	Allowable	Highest Single	Lowest	Violation	
* Representative samples	Levels	Measurement	Monthly %		Likely Source of Turbidity
Turbidity is a measure of	No more than 1 NTU*				
the clarity of the water and	Less than 0.3 NTU in	0.02	100	No	Soil runoff
not a contaminant.	95% of monthly samples				

	Average	verage Range of Det		etection
Fluoride (added for dental health)	0.8	0.65	to	1.01