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,

clarity of water. I urbidity 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.





Water System ID: KY0890302 Manager: Craig Porter 270-338-1300 CCR Contact: Craig Porter

Mailing address: P.O. Box 348 Greenville, KY 42345

Meeting location and time: Water Office – 301 Dean Road Fourth Monday each month at 4:00 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.

Muhlenberg County Water District has the capability to provide purchased water from three suppliers, all of which treat surface water. Central City, our main supplier, and Butler County, our emergency supplier. withdraws water from the Green River. A small amount of water for the southern portion of our system is purchased from Todd County Water District which purchases water from Logan/Todd Regional Water Commission (LTRWC) located in Guthrie, KY. LTRWC treats surface water from the Cumberland River with a raw water intake located in Clarksville, TN. Each of these suppliers has conducted an analysis of susceptibility to contamination and the overall susceptibility is generally moderate. Areas of high concern include transportation corridors, underground storage tanks, agricultural land use, urban runoff, oil and gas wells, mining activities, 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 270-338-1300.

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.



•	•								0	s in 401 KAR Chapter 8. As
										en than once per year because
the concentrations of these			•							in this table, though gour office during busines
hours.	e than one	year old. Co	opres	of this re	port are	ava	Table upon	request by	contacting	g our onnee during busines
Regulated Contaminant	Test Res	ults - Cen	tral	City (CC)	: Logan	-To	td (LT)			
Contaminant	MCL	MCLG	Source	Report Level	Range			Date of	1	Likely Source of
[code] (units)					of	Dete	ction	Sample	Violation	Contamination
Barium	men	ine EG			0.031 to 0.031			Sumple	loiation	Drilling wastes; metal
[1010] (ppm)	2	2	LT	0.0212	0.0212		0.0212	2022	No	refineries; erosion of natural deposits
Fluoride			CC	0.84	0.84	to	0.84		No	Water additive which promotes strong teeth
[1025] (ppm)	4	4	LT	0.641	0.641	to	0.641	2022		
Nitrate			CC	1.5	1.5	to	1.5			Fertilizer runoff; leaching
[1040] (ppm)	10	10	LT	0.572	0.572	to	0.572	2022	No	from septic tanks, sewage; erosion of natural deposits
Atrazine										Runoff from herbicide used o
[2050] (ppb)	3	3	CC	0.285	BDL	to	1.14	2022	No	row crops
Disinfectants/Disinfect	ion Bypro	oducts and	Pree	cursors						
Total Organic Carbon (ppm	ı)		CC	1.38	1.08	to	1.63			Naturally present in environment.
(report level=lowest avg.	TT*	N/A	LT	1.87	1.7	to	2.02	2022	No	
range of monthly ratios)										
*Monthly ratio is the % TO	DC remova	l achieved to	the	% TOC rei	noval req	uired	. Annual ave	erage must be	1.00 or gre	ater for compliance.
Other Constituents										
Turbidity (NTU) TT	Allowable Levels		Measur		-		Lowest	Violation		
* Representative samples							Monthly %		Likely Source of Turbidity	
Turbidity is a measure of	No more than 1 NTU		CC	0	.082		100	No	Soil runoff	
the clarity of the water and			LT	C).11					
not a contaminant.										

Regulated Contaminant	Test Res	sults	Muhlenberg	<u>g Count</u>	y Wa	ter Distri	ct			
Contaminant			Report	Range			Date of		Likely Source of	
[code] (units)	MCL	MCLG	Level	of	Dete	ction	Sample	Violation	Contamination	
Chlorine	MRDL	MRDLG	1.47						Watan addition and the sector	
(ppm)	= 4	= 4	(highest	0.83	to	2.39	2022	No	Water additive used to contro microbes.	
			average)							
HAA (ppb) (Stage 2)			68						Byproduct of drinking water disinfection	
[Haloacetic acids]	60	N/A	(high site	31	to	73	2022	YES		
			average)	(range c	of indiv	vidual sites)				
TTHM (ppb) (Stage 2)			78						Byproduct of drinking water disinfection.	
[total trihalomethanes]	80	N/A	(high site	23	to	119	2022	No		
			average)	(range c	of indiv	vidual sites)				
Household Plumbing Co	ontamina	nts								
Copper [1022] (ppm) Roun	AL =		0.0175						Corrosion of household	
sites exceeding action level	1.3	1.3	(90 th	0	to	0.106	Aug-21	No	plumbing systems	
0			percentile)							
Lead [1030] (ppb) Round 1	AL =		0						Corrosion of household plumbing systems	
sites exceeding action level	15	0	(90 th	0	to	2	Aug-21	No		
0			percentile)							

Violation 2022-9950123

Testing results from 1/1/2022 through 3/31/2022 showed that our system exceeded the standard, or maximum contaminant level (MCL), for haloacetic acids (HAA). The standard for HAA is 0.060 mg/L. This was determined by averaging all samples collected at each sampling location for the previous 12 months. The level of HAA averaged at one of our system's locations for 1/1/2022 to 3/31/2022 was 0.068 mg/L.

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

The high results for the second and third quarters of 2021 affected our average for the first quarter of 2022. This problem was resolved. A public notice was distributed for this violation.