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, (μ 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 (606) 256-8283.



Water System ID: KY1020891 Manager: Paula DeBorde 606-256-8283 CCR Contact: Paula DeBorde 606-256-8283

Mailing address: P.O. Box 627 Mt. Vernon, KY 40456

Meeting location and time: Water Office – 435 Highway 150 Second Tuesday each month at 1:00 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.

Water Purchased From Mt. Vernon

Western Rockcastle Water Association purchases water from Mount Vernon Water Works and Southern Madison Water District. Most of our customers are served by Mt. Vernon which treats surface water from Lake Linville located in Renfro Valley. The source water assessment completed for the Mt. Vernon supply indicates that its susceptibility to contamination is generally moderate. The areas of concern are agricultural activities, failing septic systems, highways and railroads. In addition, pesticides and herbicides application and the potential for chemical spills pose a threat to the water source.

Water Purchased From Southern Madison

Water for our customers in Flat Gap is purchased from Southern Madison Water District which purchases water from Berea Municipal Utilities. The City of Berea treats surface water from four reservoirs, Upper Silver Creek, Lower Silver Creek, Cowbell and Owsley Fork Lakes. An analysis of the susceptibility to contamination of Berea's water source is generally moderate. The areas of concern are agricultural activities, failing septic systems, highways and railroads. In addition, pesticides and herbicides application and the potential for chemical spills pose a threat to the water sources.

The complete source water assessments can be reviewed at Mount Vernon Water Works and Berea Municipal Utilities.

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.

The data presented in this repo	ort are from t	he most recent to	esting done in a	cordance v	vith admin	nistrative 1	regulations in	401 KAR Cł	apter 8. As authorized and			Allowable	Highest Sing	10	Lowest	Violation	1		
approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these										Levels		Measurement Monthly %		violation	Likely Source of Turbidity				
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 during business hours.								Turbidity (NTU) TT	No more than 1 NTU*		Measurement Montiny 76								
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									* Representative samples	Less than 0.3 NTU in		0.15 100		100	No	Soil runoff			
lifetime to have a one-in-a-million chance of having the described health effect.									of filtered water		6 of monthly samples		100	110		Sourcement			
Regulated Contamina	nt Test R	esults	Western R	ockcastl	e Water	r Assoc	ciation			Regulated Contamina		<i>i i</i>	Berea Mun	icinal Uti	lities				
Contaminant			Report		Range		Date of	Violation	Likely Source of	Contaminant			Report		ange	Date of	Violation	Likely Source of	
[code] (units)	MCL	MCLG	Level	of	Detection	n	Sample		Contamination	[code] (units)	MCL	MCLG	Level		etection	Sample	Violation	Contamination	
Copper [1022] (ppm)	AL= 0.	0.13						Corrosion of household plumbing	Barium	MCL	MCLO	Level	01 De	tecuon	Sample				
sites exceeding action level	1.3	1.3	(90 th	0.01	to	0.2	Sep-17	No	systems		2	2	0.011	0.011 to	o 0.011	Aug-19	No	Drilling wastes; metal refineries; erosion of natural deposits	
0			percentile)							[1010] (ppm)									
Lead [1030] (ppb)	AL=		4					No	Corrosion of household plumbing systems				-						
sites exceeding action level	15	0	(90 th	0	to	8	Sep-17			Fluoride						1		Water additive which promotes	
0			percentile)						-	[1025] (ppm)	4	4	0.72	0.72 to	o 0.72	Aug-19	No	strong teeth	
Disinfectants/Disinfec	tion Byp	roducts and	Precursors															_	
Chlorine	MRDL	MRDLG	1.49				2019	No	Water additive used to control microbes.	Nitrate	10	10					No	Fertilizer runoff; leaching from	
(ppm)	= 4	= 4	(highest	0.25	to	2.1				[1040] (ppm)			0.38 0.38	0.38 to	to 0.38	Feb-19		septic tanks, sewage; erosion of	
			average)															natural deposits	
HAA (ppb) (Stage 2)			45				2019 N		Byproduct of drinking water	Total Organic Carbon (ppm)			1.57				No	Naturally present in environment.	
[Haloacetic acids]	60	N/A	(high site	17	to	92		No	disinfection	(measured as ppm, but	TT*	N/A	(lowest	1.03 to	2.36	2019			
			average)	(range of	individua	al sites)		<u> </u>		reported as a ratio)			average)	(monthly ratios)					
TTHM (ppb) (Stage 2)			53						Byproduct of drinking water disinfection.	*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.									
[total trihalomethanes] 80	80	N/A	(high site	16.6		86.6	2019	No		Wontiny fatio is the 76 FOCT		neved to the 76 1	oc telibvai iequi	icu. Aiiiiuai a	verage must be	1.00 01 greater			
			average)		individua								1		1				
Unregulated Contami	nants (JCMR 4)	average	1	ıge (ppl	/	date	4				Allowable	Highest Sing	, ,	Lowest	Violation			
HAA5			21.000	17		24	Mar-19	4			-	Levels	Measuremen	ıt	Monthly %		Likely S	ource of Turbidity	
HAA6Br			2.400	2.3		2.6	Mar-19	4		Turbidity (NTU) TT	No more than 1 NTU*					N			
HAA9			23.500	20	to	26	Mar-19]		* Representative samples	Less than 0.3 NTU in		0.288		100	No		Soil runoff	

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.

		lowable Levels	Highest Sing Measuremen		Lowest Monthly %	Violation	Likely Source of Turbidity			
Turbidity (NTU) TT	No more th	an 1 NTU*								
* Representative samples	Less than ().3 NTU in	0.288		100	No		Soil runoff		
of filtered water	95% of mor	nthly samples								
Regulated Contamina	int Test R	esults	Mt. Vernor	Water Wo	orks					
Contaminant			Report	Ra	nge	Date of	Violation Likely Source of			
[code] (units)	MCL MCLG		Level	of De	tection	Sample	Contamination			
Barium [1010] (ppm)	2	2	0.02	0.02 to	0.02	Jan-19	No	Drilling wastes; metal refineries; erosion of natural deposits		
Fluoride [1025] (ppm)	4	4	0.60	0.6 to	0.6	Jan-19	No	Water additive which promotes strong teeth		
Mercury [1035] (ppb)	2	2	0.2	0.2 to	0.2	Jan-19	No	Erosion of natural deposits; refineries and factories; landfills; runoff from cropland		
Nitrate [1040] (ppm)	10	10	1.23	1.23 to	1.23	Jan-19	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	2.09 (lowest average)	0.90 to (month	3.11 ly ratios)	2019	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.