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.



Garrard County Water Association Water Quality Report 2020

To request a paper copy call 859-792-4501.



Water System ID: KY0400151 Manager: Sean Smith 859-792-4501 CCR Contact: Sean Smith 859-792-4501

Mailing address: P.O. Box 670 Lancaster, KY 40444

Meeting location and time: 315 Lexington Street, Lancaster, KY First Tuesday each month at 7:30 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.

Garrard County Water Association provides purchased water from several suppliers, all of which treat surface water. The suppliers and their sources include: Berea Municipal Utilities withdraws from Upper Silver Creek, Lower Silver Creek, Cowbell and Owsley Fork Lakes; Lancaster Water System withdraws from Lancaster's East Reservoir which is filled by water pumped from the Kentucky River; Danville Water System withdraws from Lake Herrington. 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, 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 859-792-4501.

For specific service areas contact the Garrard County Water Association. General service areas for each supplier:

Berea - serves south of Highway 52 and east and south of Highway 954 beginning at Narrow Gap Road.

Danville - serves the Bryants Camp area, Fork Church Road, the Fisher Ford Road area, and a portion of Highway 34.

Lancaster and Danville – (combined water) serves customers north of the intersection of US 27 and Highway 34.

Lancaster – serves all other customers not mentioned in service areas above.

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.

every day at the MCL le				•	•					e to drink 2 liters of water effect.
	is reduced m to vary sign	nonitoring req nificantly from	uireme 1 year t	ents for certa to year. Som	in contam e of the da	inant ıta in	s to less often	than once per	year becaus	
this report are available upon Regulated Contamina				-			Lancaste	r (L)		
Contaminant			1	Report		Rar		Date of	Violation	Likely Source of
[code] (units)	MCL	MCLG	Source	Level	of Detection			Sample		Contamination
Combined radium (pCi/L)	5	0	B=	0.42	0.42	to	0.42	5/4/2020	No	Erosion of natural deposits
Barium [1010] (ppm)	2	2	D=	0.01	0.01	to	0.01	1/27/2020	No	Drilling wastes; metal refineries;
[] (FF)			L=	0.01	0.01	to	0.01	1/27/2020	No	erosion of natural deposits
Fluoride [1025] (ppm)	4	4	B= D=	0.72	0.72	to to	0.72	8/3/2020 1/27/2020	No No	Water additive which promotes
[1023] (ppin)			L=	0.05	0.05	to	0.05	1/27/2020	No	strong teeth
Nitrate [1040] (ppm)	10	10	B= D=	0.46	0.46	to to	0.46	2/3/2020 1/27/2020	No No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
			L=	0.4	0.4	to	0.4	1/27/2020	No	
Disinfectants/Disinfec	tion Byp	roducts a	nd P	recursors	8				1	
Total Organic Carbon (ppm) (report level=lowest avg.	TT*	N/A	B= D=	1.64 2	1.24 1.68	to to	2.9 2.46	2020 2020	No No	Naturally present in environment.
range of monthly ratios)			L=	3.71	1.65	to	6.58	2020	No	
*Monthly ratio is the % TOC r	emoval achi	eved to the %	TOC	removal requ	iired. Ann	uala	verage must b	e 1.00 or greate	er for compli	ance.
Other Constituents										
Turbidity (NTU) TT	Allowable		Source	Highest Single			Lowest	Violation		
* Representative samples Turbidity is a measure of the	Levels No more than 1 NTU*			Measurement		Monthly %	No		Likely Source of Turbidity	
clarity of the water and not a contaminant.	No more than 1 N10* Less than 0.3 NTU in 95% monthly samples		B= D=	0.06 0.09		100 100	No		Soil runoff	
			L=	().29		100	No		

Regulated Contaminat	nt Test R	esults	Garrard C	ounty V	Vater	Associat	ion		
Contaminant			Report	ReportRangeLevelof Detection			Date of	Violation	Likely Source of
[code] (units)	MCL	MCLG	Level				Sample		Contamination
Chlorine	MRDL	MRDLG	1.13						Water additive used to control
(ppm)	= 4	= 4	(highest	1	to	1.4	2020	No	microbes.
			average)						
HAA (ppb) (Stage 2)			51						
[Haloacetic acids]	60	N/A	(high site	12	to	63	2020	No	Byproduct of drinking water disinfection
			average)	(range o	ofindiv	idual sites)			
TTHM (ppb) (Stage 2)			70						Denne de la Chieline en ten
[total trihalomethanes]	80	N/A	(high site	24.2	to	128.1	2020	No	Byproduct of drinking water disinfection.
			average)	(range o	ofindiv	idual sites)			
Household Plumbing	Contami	nants							
Copper [1022] (ppm)	AL=		0.21						
sites exceeding action level	1.3	1.3	(90 th	0	to	1.06	Aug-18	No	Corrosion of household plumbing systems
0			percentile)						
Lead [1030] (ppb)	AL=		0						
sites exceeding action level	15	0	(90 th	0	to	3	Aug-18	No	Corrosion of household plumbing systems
0			percentile)						5,50000

