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.



Water Quality Report 2020



Water System ID: KY0870147 Manager: Billy Ray Fawns 859-498-4809 CCR Contact: Billy Ray Fawns 859-498-4809 brfawns@gmail.com

Mailing address: P.O. Box 781 Mt. Sterling, KY 40353

Meeting location and time: 2010 Maysville Road First Monday at 7:00 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.

Judy Water Association purchases treated surface water from Kentucky American Water Company (KAWC) and Mt. Sterling Water & Sewer Commission (MSWSC). The source for KAWC is the Kentucky River and the source for MSWSC is Slate Creek and Greenbrier Reservoir. Specific service area information is available by contacting our office. An analysis of the susceptibility to contamination of these sources indicates that the susceptibility is rated as high. The potential contaminants of greatest concern include several major road ways and bridges, numerous car repair facilities and salvage yards in the area, and superfund sites. Also of concern are the presence of underground storage tanks, Tier II chemical use, waste generators or transporters, and KPDES permitted wastewater treatment facilities within the source water protection area. The sources are vulnerable to contamination from agricultural run-off which can typically include pesticides, nutrients and silt from croplands and potential pathogens from pasture lands. Urban storm water runoff is a concern due to paved areas, nutrients, and pesticides lawn care. The complete Source Water Assessment and Protection Plans are available for review at the respective water company 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.



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. 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.

Regulated Contaminant Testing Results for Mt. Sterling Water Works

Regulated Contaminant	lest Resu	ılts	Mt. Sterling Water and Sewer							
Contaminant			Report	Range		Date of	Violation	Likely Source of		
[code] (units)	MCL	MCLG	Level	of Detection		Sample		Contamination		
Inorganic Contaminants										
Barium [1010] (ppm)	2	2	0.014	0.014 to	0.014	Feb-20	No	Drilling wastes; metal refineries; erosion of natural deposits		
Fluoride								Water additive which		
[1025] (ppm)	4	4	0.98	0.98 to	0.98	Feb-20	No	promotes strong teeth		
Nickel (ppb)										
(US EPA remanded MCL in February 1995.)	N/A	N/A	2.1	2.1 to	2.1	Feb-20	No	N/A		
Disinfectants/Disinfection	Disinfectants/Disinfection Byproducts and Precursors									
Total Organic Carbon (ppm)			1.42					N-41.		
(measured as ppm, but	TT*	N/A	(lowest	1.13 to	2.41	2020	No	Naturally present in environment.		
reported as a ratio)			average)	(month	ly ratios)					
Other Constituents										
Turbidity (NTU) TT	Allowable Highe		Highest	Single	Lowest	Violation				
* Representative samples	-	.e vels	Measur	ement	Monthly %		Likely Source of Turbidity			
Turbidity is a measure of the	No more	than 1 NTU*								
clarity of the water and not	Less than 0.3 NTU in		0.122		100	No	Soil runoff			
a contaminant.	95% of m	onthly samples								

Regulated Contaminant Testing Results for Judy Water Association

Regulated Contaminant	Test Res	ults	Judy Water	Associ	ation					
Contaminant			Report	port Range		Date of	Violation	Likely Source of		
[code] (units)	MCL	MCLG	Level	of Detection		Sample		Contamination		
Disinfectants/Disinfection Byproducts and Precursors										
Chloramines	MRDL	MRDLG	1.35						Water additive used to control	
(ppm)	= 4	= 4	(highest	0.6	to	2.2	2020	No	microbes.	
			average)						mierobes.	
Chlorine	MRDL	MRDLG	1.35						Water additive used to control	
(ppm)	= 4	= 4	(highest	0.7	to	1.8	2020	No	microbes.	
			average)						interobes.	
HAA (ppb) (Stage 2)			54						Duran had af highin ang ta	
[Haloacetic acids]	60	N/A	(high site	25	to	51	2020	No	Byproduct of drinking water disinfection	
			average)	(range o	f indiv	vidual sites)			distillection	
TTHM (ppb) (Stage 2)			59							
[total trihalomethanes]	80	N/A	(high site	26.6	to	105	2020	No	Byproduct of drinking water disinfection.	
			average)	(range o	f indiv	vidual sites)			disinfection.	
Household Plumbing Co	ontamina	nts								
Copper [1022] (ppm)	AL =		0.09							
sites exceeding action level	1.3	1.3	(90 th	0	to	0.14	Jul-20	No	Corrosion of household plumbing systems	
0			percentile)						pitanonig systems	
Lead [1030] (ppb)	AL =		8						Corrosion of household	
sites exceeding action level	15	0	(90 th	0	to	30	Jul-20	No	plumbing systems	
2			percentile)						promoting systems	

Regulated Contaminant Testing Results for Kentucky American Water

Regulated Contaminant Test Results Kentucky American Water - Kentucky River Station II									
Contaminant			Report	Ra	nge	Date of	Violation	Likely Source of	
[code] (units)	MCL	MCLG	Level	of Detection		Sample		Contamination	
Inorganic Contaminants						-			
Fluoride [1025] (ppm)	4	4	0.93	0.93 to	0.93	2020	No	Water additive which promotes strong teeth	
Nitrate [1040] (ppm)	10	10	0.57	0.57 to	0.57	2020	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits	
Disinfectants/Disinfectio	n Byprod	lucts and Prec	ursors						
Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio)	TT*	N/A	1.59 (lowest average)	1.1 to (month	2.36 ly ratios)	2020	No	Naturally present in environment.	
*Monthly ratio is the % TOO	removal a	achieved to the %	% TOC rem	oval required	. Annual aver	age must be 1	.00 or great	er for compliance.	
Other Constituents									
Turbidity (NTU) TT * Representative samples		lowable Levels	Highest Single Measurement		Lowest Monthly %	Violation	Likely Source of Turbidity		
Turbidity is a measure of the clarity of the water and not a contaminant.	Less than	than 1 NTU* 0.3 NTU in onthly samples	0.07		100	No	Soil runoff		

