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.

To receive this report in the mail, contact our office.

Greenup Water System Water Quality Report 2023



Water System ID: KY0450169 Manager: 606-547-2810 CCR Contact: Roger Harris 606-473-7331 firefighter harris@yahoo.com

Mailing address: 1005 Walnut St. Greenup, KY 41144

Meeting location and time: Greenup City Hall Second Tuesday monthly at 6:00 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.

The Greenup Water System withdraws surface water from the Little Sandy River. An analysis of the system's susceptibility to contamination yields a solid moderate ranking. Of the 156 potential contaminant sites, within the protection zones of the intake, 12 received a low ranking and 134 received a medium ranking with only 10 ranked high. Those ranked high include land used for row crops because of the possible use of pesticides, the city sewer system because of the possibility of breaks in a line, and the presence of bridges and culverts. Agricultural activity in this watershed is negligible and, therefore, the use of pesticides and herbicides and the danger of runoff contaminated thereby is greatly reduced. The threat posed by major roadways in the protection area in the event of accidental release of contaminants, though it exists, is moderate. The complete assessment is available for review at Greenup Water System.

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:

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 water system is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact your local water system. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead.

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 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 during business hours.**

Regulated Contaminan	t Test Re	sults	Greenup W	ater System	1				
Contaminant			Report	Range		Date of		Likely Source of	
[code] (units)	MCL	MCLG	Level	of Det	ection	Sample	Violation	Contamination	
Radioactive Contamina	ants								
Combined radium (pCi/L)	5	0	1.31	1.31 to	1.31	May-20	No	Erosion of natural deposits	
Inorganic Contaminant	te								
Barium	15							1	
[1010] (ppm)	2	2	0.033	0.033 to	0.033	Apr-23	No	Drilling wastes; metal refineries; erosion of natural deposits	
Fluoride									
[1025] (ppm)	4	4	0.91	0.91 to	0.91	Apr-23	No	Water additive which promotes strong teeth	
Nitrate [1040] (ppm)	10	10	0.254	0.254 to	0.254	Mar-23	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits	
Disinfectants/Disinfecti	on Bypro	ducts and Pi	recursors						
Total Organic Carbon (ppm)			1.41						
(measured as ppm, but	TT*	N/A	(lowest	1.09 to	1.85	2023	No	Naturally present in environment.	
reported as a ratio)			average)	(month)	y ratios)				
*Monthly ratio is the % TOC ren	noval achieve	d to the % TOC r	emoval required. A	Annual average	must be 1.00 o	r greater for con	npliance.		
Chlorine	MRDL	MRDLG	1.23					TT 7 , 11 ¹¹ , 1, , 1	
(ppm)	= 4	= 4	(highest average)	0.4 to	1.8	2023	No	Water additive used to control microbes.	
HAA (ppb) (Stage 2)			45						
[Haloacetic acids]	60	N/A	(high site	11 to	49	2023	No	Byproduct of drinking water	
			average)	(range of ind	ividual sites)			disinfection	
TTHM (ppb) (Stage 2)			74		,				
[total trihalomethanes]	80	N/A	(high site	30 to	116	2023	No	Byproduct of drinking water	
		1	average)	(range of ind	ividual sites)			disinfection.	
Household Plumbing C	ontamina	nts					•	•	
Copper [1022] (ppm) Round 1	AL =		0.01						
sites exceeding action level	1.3	1.3	(90 th	0.004 to	0.012	Sep-23	No	Corrosion of household plumbing systems	
0			percentile)					systems	
Lead [1030] (ppb) Round 1	AL =		0						
sites exceeding action level	15	0	(90 th	0 to	3	Sep-23	No	Corrosion of household plumbing systems	
0			percentile)					5,500115	
Other Constituents			· · · ·						
Turbidity (NTU) TT	A	lowable	Highest Single		Lowest	Violation			
* Representative samples	1	Levels	Measurement		Monthly %		Likely So	ource of Turbidity	
Turbidity is a measure of the clarity of the water and not a contaminant.	No more tha Less than 0. 95% of more		0.06		100	No		Soil runoff	

	Average	Range of Detection			
Fluoride (added for dental health)	1.0	0.58 to 1.31			
Sodium (EPA guidance level = 20 mg/L)	13.5	13.5 to 13.5			

Secondary contaminants do not have a direct impact on the health of consumers. They are being included to provide additional information about the quality of the water.

Secondary Contominant		Report	Range			Date of
Secondary Contaminant	Maximum Allowable Level	Level	0	Sample		
Chloride	250 mg/l	16.5	16.5	to	16.5	Mar-23
Corrosivity	Noncorrosive	-2.04	-2.04	to	-2.04	Mar-23
Fluoride	2.0 mg/l	0.91	0.91	to	0.91	Mar-23
Odor	3 threshold odor number	3	3	to	3	Mar-23
pН	6.5 to 8.5	7.11	7.11	to	7.11	Mar-23
Sulfate	250 mg/l	26.1	26.1	to	26.1	Mar-23
Total Dissolved Solids	500 mg/l	91	91	to	91	Mar-23

