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.

Western Pulaski Water District Water Quality Report 2023



To request a paper copy call (606) 679-1569.

Water System ID: KY1000363 Manager: Joe McClendon

606-679-1569

CCR Contact: Joe McClendon

606-679-1569

Mailing address: 2128 West Hwy 80 Somerset, KY 42503

Meeting location and time: Water District Office - 2128 West Hwy 80 Somerset, KY 3rd Tuesday each month at 5:30 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.

Western Pulaski Water District purchases water from Somerset. Somerset Water Service treats surface water from Lake Cumberland. An analysis of the susceptibility of Lake Cumberland to contamination indicates that this susceptibly is low. However, there are several areas of concern. Near the source water withdrawal location can be found residential, commercial and industrial areas, a Superfund site, a closed landfill, roadways, bridges/culverts, and railroads. Agricultural activities and urban development also have a potential to affect water quality. The overall potential of these contaminant sources to adversely impact the water quality at the withdrawal site is low. The complete Source Water Assessment Plan is available for review at Somerset Water Service and also at the Lake Cumberland Area Development District Office.

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 vour 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.

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 Contaminant Test Results Somerset Water Service											
Contaminant			Report	Range		Range Date of			Likely Source of		
[code] (units)	MCL	MCLG	Level	of Detection		of Detection		of Detection		Violation	Contamination
Inorganic Contaminants											
Barium [1010] (ppm)	2	2	0.02	0.02	to	0.02	2023	No	Drilling wastes; metal refineries; erosion of natural deposits		
Fluoride [1025] (ppm)	4	4	0.83	0.83	to	0.83	2023	No	Water additive which promotes strong teeth		
Nitrate [1040] (ppm)	10	10	0.32	0.32	to	0.32	2023	No	Fertilizer runo ff; leaching from septic tanks, sewage; erosion of natural deposits		

Disinfectants/Disinfection Byproducts and Precursors

Total Organic Carbon (ppm)			1.10						
(measured as ppm, but	TT*	N/A	(lowest	1.00	to	1.84	2023	No	Naturally present in environment.
reported as a ratio)			average)	(m	onthly:	ratios)			

*Monthly ratio is the % TOC removal achieved to the % TOC removal required. A nnu al average must be 1.00 or greater for compliance.

Other Constituents

Turbidity (NTU) TT	Allowable	Highest Single	Lowest	Violation	
* Representative samples	Levels	Measurement	Monthly %		Likely Source of Turbidity
	No more than 1 NTU*				
clarity of the water and not a contaminant.	Less than 0.3 NTU in	0.018	100	No	Soil runo ff
	95% of monthly samples				

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.

	Average	Average Range of Detection				
Fluoride (added for dental health)	0.80	0.57	to	0.92		
Sodium (EPA guidance level = 20 mg/L)	10	10	to	10		

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

S econdary Contaminant		Report	Range		Date of	
Secondary Contaminant	Maximum Allowable Level	Level	o	fDetec	Sample	
Chloride	250 mg/l	10	10	to	10	2023
Corrosivity	Noncorrosive	-1.73		N/A		2023
Fluoride	2.0 mg/l	0.87	0.87	to	0.87	2023
pH	6.5 to 8.5	7.03	7.03	to	7.03	2023
Total Dissolved Solids	500 mg/l	100	100	to	100	2023

Regulated Contaminar	Western Pulaski County Water District									
Contaminant			Report	Range		Date of L		Likely Source of		
[code] (units)	MCL	MCLG	Level	of	Detec	ction	Sample	Violation	Contamination	
Disinfectants/Disinfect	roducts and	Precursors								
Chlorine	MRDL	MRDLG	1.68							
(ppm)	= 4	= 4	(highest	0.94	to	2.09	2023	No	Water additive used to control microbes.	
			average)						Indicated and the second and the sec	
HAA (ppb) (Stage 2)			37						D 1 (C1 : 1 : 4	
[Haloacetic acids]	60	N/A	(high site	19	to	59	2023	No	Byproduct of drinking water disinfection	
			average)	(range o	f indiv	idual sites)				
TTHM (ppb) (Stage 2)			39						D 1 (C1:1:)	
[total trihalomethanes]	80	N/A	(high site	19	to	66	2023	No	Byproduct of drinking water disinfection.	
			average)	(range o	findiv	idual sites)				
Household Plumbing (Contami	nants								
Copper [1022] (ppm) Round 1	AL=		0.317						G : 61 1 11 1 1:	
sites exceeding action level	1.3	1.3	(90th	0.0044	to	1.24	Aug-21	No	Corrosion of household plumbing systems	
0			percentile)						by stell 2	
Lead [1030] (ppb) Round 1	AL=		2			·			C	
sites exceeding action level	15	0	(90 th	0	to	2	Aug-21	No	Corrosion of household plumbing systems	
0			percentile)						-)	

