West Liberty Water Works Water Quality Report 2023

Water System ID: KY0880452	CCR Contact:	Mailing Address:	Meeting location and time:
Manager: Ray Adkins	Ray Adkins	9761 Highway 519	City Hall – 565 Main Street
606-743-3330	606-743-1953	West Liberty, KY 41472	4th Monday monthly at 5PM
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The City of West Liberty treats surface water from the Licking River. The intake is in Cave Run Lake. An analysis of the susceptibility of the City of West Liberty Water System's raw water supply to contamination indicates that the susceptibility potential is generally moderate. One potential contaminant source of concern is major road-ways and bridges that extend over and along streams that drain into the water source upstream of the intake. Farming sites located in the area also present the possibility for impact from the application of pesticides and fertilizer. Activities and land uses upstream of the City of West Liberty Water System's sources of water can pose potential risks to your drinking water. Under certain circumstances, contaminants could be released that would pose challenges to water treatment, or even get into your drinking water. These activities, and how they are conducted, are of interest to the entire community because they potentially affect your health and the cost of treating your water. The complete source water assessment is available for review during normal business hours at the West Liberty Water Works.

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. Immuno-compromised 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).

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.

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, (µg/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.

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.

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 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.**

contacting our office during bu				117 -		71				
Regulated Contaminan	t Test Re	sults	West Libert	y Wate						
Contaminant			Report			nge		e of		Likely Source of
[code] (units)	MCL	MCLG	Level		of Det	tection	Sar	nple	Violation	Contamination
Inorganic Contaminant	S									
Barium [1010] (ppm)	2	2	0.025	0.025	to	0.025	Арі	-23	No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride										Water additive which promotes strong teeth
[1025] (ppm)	4	4	0.86	0.86	to	0.86	Арі	-23	No	
Disinfectants/Disinfecti	on Bypro	ducts and Pr	ecursors							
Total Organic Carbon (ppm)			1.23							
(measured as ppm, but	TT*	N/A	(lowest	1.00	to	1.82	20	23	No	Naturally present in environment.
reported as a ratio)			average)	(n	nonthl	ly ratios)				
*Monthly ratio is the % TOC ren	noval achieve	d to the % TOC re	moval required. A				or greater	for con	npliance.	
Chlorine	MRDL	MRDLG	0.81							
(ppm)	= 4	= 4	(highest average)	0.42	to	1.12	20	23	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	42 (high site	0	to	46	20	23	No	Byproduct of drinking water disinfection
			average)	(range	of ind	lividual sites)				
TTHM (ppb) (Stage 2)		27/4	54	0		0.4		•••	Na	Byproduct of drinking water
[total trihalomethanes]	80	N/A	(high site	0 to		84	20	23	No	disinfection.
II		4	average)	(range	of ind	lividual sites)				
Household Plumbing C		ints	0.219							
Copper [1022] (ppm) Round 1	AL =		0.318 (90 th	0.040					NI.	Corrosion of household plumbing
sites exceeding action level 0	1.3	1.3	(90 percentile)	0.042	to	0.364	Aug	g-21	No	systems
Lead [1030] (ppb) Round 1	AL =		2							Corrosion of household plumbing
sites exceeding action level	15	0	(90 th	0	to	3	Aug	g-21	No	systems
0			percentile)							,
Other Constituents							-			
Turbidity (NTU) TT			Highest Single	0 0		Lowest	Viol	ation		
* Representative samples			Measurement			Monthly %			Likely Source of Turbidity	
Turbidity is a measure of the	No more than 1 NTU*									
clarity of the water and not a contaminant.	Less than 0.	3 NTU in	0.24		100	100 No		Soil runoff		
	95% of mor	nthly samples						-		
			Average		Rar	nge of Detect	ion			
Fluoride (added for dental health)		0.8	0.8 0.74		to 1.01					
Sodium (EPA guidance leve	el = 20 mg/I	J)	5.7		5.74	to 5	.74	Ī		
Secondary Contaminant		Report	Report R		ange	Da	te of			
	Maximum Allowable Level		Level		of Detection		Sa	mple	⊣ —	
Chloride	2	50 mg/l	7.3	3 3 to -1.61 -1.61 to		o 7.3	М	ar-23		econdary contaminants do not
Color	15	color units	3			o 3 N		ar-23		ve a direct impact on the health consumers. They are being
Corrosivity	Nor	ncorrosive	-1.61			o -1.61	М	ar-23	inc	cluded to provide additional
Fluoride	2	2.0 mg/l	0.85			0.85	М	ar-23		information about the quality of
Odor	3 thresho	ld odor number	3	3	to	o 3	М	ar-23	the water.	
рН	6	.5 to 8.5	7.37	7.37	tc	o 7.37	M	ar-23	⊣ └──	
Sulfate	2	50 mg/l	9.7	9.7	tc	9.7	М	ar-23	4	
Total Dissolved Solids	5	00 mg/l	78	78	tc	o 78	М	ar-23		

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

This report will not be mailed unless requested. Additional copies will be available at City Hall during normal business hours.