

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.**

CL = Crittenden Livingston County Water District (KY0700532) LB = Ledbetter Water District (KY0700243)

Regulated Contaminant Test Results

Contaminant [code] (units)	MCL	MCLG	Source	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
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Inorganic Contaminants

Arsenic [1005] (ppb)	10	N/A	LB	1.2	1.2 to 1.2	Dec-20	No	Natural erosion; runoff from orchards or glass and electronics production wastes
Barium [1010] (ppm)	2	2	LB CL	0.038 0.025	0.038 to 0.038 0.025 to 0.025	Dec-20 Jun-22	No No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride [1025] (ppm)	4	4	LB CL	0.54 0.79	0.54 to 0.54 0.79 to 0.79	Dec-20 Jun-22	No No	Water additive which promotes strong teeth
Nitrate [1040] (ppm)	10	10	CL	0.75	to 0.75 to 0.75	Apr-22	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
Selenium [1045] (ppb)	50	50	LB	1.2	1.2 to 1.2	Dec-20	No	Discharge from petroleum and metal refineries or mines; erosion of natural deposits

Disinfectants/Disinfection Byproducts

Total Organic Carbon (ppm) (report level=lowest avg. range of monthly ratios)	TT*	N/A	CL	0.75	to 0.79 to 1.69 to	2022	YES	Naturally present in environment.
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*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.

Chlorine (ppm)	MRDL = 4	MRDLG = 4	LB	1.36 (highest average)	0.5 to 2.08	2021	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	LB	47 (high site average)	33 to 52.1 (range of individual sites)	2021	No	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	LB	76 (high site average)	60.6 to 100.7 (range of individual sites)	2021	No	Byproduct of drinking water disinfection.

Household Plumbing Contaminants

Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	LB	0.12 (90 th percentile)	0.0083 to 0.29	Jul-22	No	Corrosion of household plumbing systems
Lead [1030] (ppb) sites exceeding action level 0	AL = 15	0	LB	0 (90 th percentile)	0 to 4	Jul-22	No	Corrosion of household plumbing systems

Other Constituents						
Turbidity (NTU) TT * Representative samples	Allowable Levels	Source	Highest Single Measurement	Lowest Monthly %	Violation	Likely Source of Turbidity
Turbidity is a measure of the clarity of the water and not a contaminant.	No more than 1 NTU* Less than 0.3 NTU in 95% monthly samples	CL	0.14	100	No	Soil runoff

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.

Fluoride (added for dental health)	CL	Average	Range of Detection		
		0.8	0.63	to	0.94
Sodium (EPA guidance level = 20 mg/L)	LB	21.00	21	to	21
	CL	9.30	9.3	to	9.3

Violation #: 2022-871 MONITORING, ROUTINE (DBP), MAJOR

Our system recently received a violation during the compliance period 01/01/2022 - 03/31/2022. Our system is required to monitor for Disinfection Byproducts. Two samples are required per quarter and we failed to submit our samples during the first quarter of 2022. We have since resolved the issue by performing the required actions by the Division of Water and have been returned to compliance.

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 Contaminant	Maximum Allowable Level		Report Level	Range of Detection		Date of Sample	
Aluminum	0.05 to 0.2 mg/l	CL	0.076	0.076	to	0.076	Aug-22
Chloride	250 mg/l	CL	14	14	to	14	Aug-22
Copper	1.0 mg/l	CL	0.015	0.015	to	0.015	Aug-22
Corrosivity	Noncorrosive	CL	-0.58	N/A			Aug-22
Fluoride	2.0 mg/l	CL	0.78	0.78	to	0.78	Aug-22
pH	6.5 to 8.5	CL	7.7	7.7	to	7.7	Aug-22
Sulfate	250 mg/l	CL	21	21	to	21	Aug-22
Total Dissolved Solids	500 mg/l	CL	120	120	to	120	Aug-22

Crittenden Livingston County Water District: Violation

Violation #: 2022-9951921: INADEQUATE DBP PRECURSOR REMOVAL CLWD received a NOV for compliance period 10/01/2021 - 12/31/2021. Contaminant: 2920 Carbon, Total. Violation #2022-9951921. Measures taken. [1] Mailed a copy of notice to every customer including consecutive systems. [2] Posted on CLWD website. [3] Posted in public places and provided a list of said places to DOW. [4] Provided a completed and signed Public Notice Certification to DOW.

Total organic carbon. Total organic carbon (TOC) has no health effects. However, total organic carbon, provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes, or THMs, and haloacetic acids, or HAAs. Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.