2021 Water Quality Report

Albany Water Works

Contact: Jeff Conner

Albany, KY 42602

1st Tuesday of the Month @ 5:00 pm

Manager: Jeff Conner Address: P.O. Box 129 Meetings: Albany City Hall

Albany Water Works treats water from Lake Cumberland. The Lake Cumberland Reservoir withdrawal is outside the Albany City Limits in Clinton County. Lake Cumberland is classified as surface water. Water quality and clarity in the 76 falls area is generally good. An analysis of the susceptibility of the Lake Cumberland Reservoir withdrawal water source to contamination indicates that this susceptibly is low. Contamination from agricultural operations, recreational activities, golf course, land cover, bridges, and oil wells are the main source of potential contamination for this water system. The complete source water assessment may be obtained at the Lake Cumberland Area Development District, 2384 Lakeway Dr. Post Office Box 1570 Russell Springs, Ky, Phone (270) 866-4200 or through Albany Water Works.1

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).

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.

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 \$10,000,000,000.

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.

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.

KY0270003

Phone: 606-387-5854

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.

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.

			ribed health ene						
	Allowable Levels		Highest Single Measurement			Lowest	Violation		
					N	Monthly %		Likely Source of Turbidity	
Turbidity (NTU) TT	No more tha	n 1 NTU*						İ	
* Representative samples	Less than 0.3 NTU in 95% of monthly samples		0.29			100	No	Soil runoff	
of filtered water									
Regulated Contamina	nt Test Re	sults	Albany Wat	er Wor	ks			·	1
Contaminant			Report Ra		Rang	ge	Date of	Date of Violation	Likely Source of
[code] (units)	MCL	MCLG	Level of Det		Detec	ction	Sample	<u></u>	Contamination
Inorganic Contaminar	ıts							Т	T
Barium [1010] (ppm)	2	2	0.02	0.02	to	0.02	Feb-21	No	Drilling wastes; metal refineries; erosion of natural deposits
Copper [1022] (ppm) sites exceeding action level	AL= 1.3	1.3	0.0473 (90 th percentile)	0.0103	to	0.0928	Aug-19	No	Corrosion of household plumbing systems
0 Lead [1030] (ppb) sites exceeding action level	AL= 15	0	0 (90 th percentile)	0	to	19	Aug-19	No	Corrosion of household plumbing systems
1 Nitrate [1040] (ppm)	10	10	0.4	0	to	0.4	Feb-21	No	Fertilizer runoff, leaching from septic tanks, sewage; erosion of natural deposits
Disinfectants/Disinfec	tion Byn	roducts and	Precursors						
Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio)	TT*	N/A	l (lowest average)	1.00	to	1.00 ratios)	2021	No	Naturally present in environment.
*Monthly ratio is the % TOC:	romoval achie	aved to the % T					1.00 or greate	r for complia	nce.
*Monthly ratio is the % TOC! Chlorine (ppm)	MRDL = 4	MRDLG =4	1.58 (highest	1	to	2	2021	No	Water additive used to control microbes.
(фрш)			average)						
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	61 (high site	35	to	75 vidual sites)	2021	YES	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	76 (high site average)	44	to	118 vidual sites)	2021	No	Byproduct of drinking water disinfection.

Violations 2022- 9950752; 2022-9950755; 2022-9950753

Albany Water Works failed to report that one of the lead sampling sites was over the action level on the previous Consumer Confidence Report and received a violation. The site was properly reported on this CCR and the issue has been rectified.

Albany Water Works failed to distribute a public notice by November 11, 2021 and failed to submit a copy of the public notice and the public notice certification by November 21, 2021. The PN and PN certification have since been distributed and sent to the state and the issue has been resolved.

Testing results showed that our system exceeded the standard, or maximum contaminant level (MCL), for haloacetic acids. The standard for haloacetic acids is 0.060~mg/L. It is determined by averaging all samples at each sampling location for the last 12 months. Haloacetic acids averaged at one of our systems locations for 4/01/2021 to 6/30/2021 was 0.061~mg/L and at another location for 10/01/2021 to 12/31/2021 was 0.061~mg/L.

We are working to minimize the formation of haloacetic acids while ensuring we maintain an adequate level of disinfectant. We have taken additional steps to increase flushing of water lines to determine if our efforts have been effective. We are also monitoring water storage tank levels and water flow patterns within the distribution system. Public notices were issued for each quarter we were out of compliance.