

2018 Water Quality Report

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Albany Water Works

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1st Tuesday of the Month @ 5:00 pm

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 susceptibility 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.

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, ($\mu\text{g}/\text{L}$). 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.

Variations & 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.

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.

	Allowable Levels	Highest Single Measurement	Lowest Monthly %	Violation	Likely Source of Turbidity
Turbidity (NTU) TT * Representative samples of filtered water	No more than 1 NTU* Less than 0.3 NTU in 95% of monthly samples	0.25	100	No	Soil runoff

Regulated Contaminant Test Results

Contaminant [code] (units)	MCL	MCLG	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
Inorganic Contaminants							
Barium [1010] (ppm)	2	2	0.022	0.022 to 0.022	Feb-18	No	Drilling wastes; metal refineries; erosion of natural deposits
Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	0.051 (90 th percentile)	0.004 to 0.06	Sep-16	No	Corrosion of household plumbing systems
Fluoride [1025] (ppm)	4	4	0.90	0.9 to 0.9	Feb-18	No	Water additive which promotes strong teeth

Disinfectants/Disinfection Byproducts and Precursors

Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio)	TT*	N/A	1 (lowest average)	1.00 to 1.00 (monthly ratios)	2018	No	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	1.29 (highest average)	0.9 to 1.8	2018	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	65 (high site average)	37 to 81 (range of individual sites)	2018	YES	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	73 (high site average)	46 to 97 (range of individual sites)	2018	No	Byproduct of drinking water disinfection.

Violation #: 2018-9950739

Our water system violated drinking water requirements by failing to timely report our Level 1 Assessment (Coliform Bacteria) to the Kentucky Division of Water (KDOW). Even though this is not an emergency, as our customers, you have a right to know what happened and what we did to correct this situation.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the 09/01/2017 compliance period, we did not complete all monitoring requirements by failing to correctly report our Level 1 Assessment on time. Therefore, a violation was issued because the KDOW could not verify our plan to adequately check the quality of your drinking water. A Level 1 Assessment is to be submitted within 30 days after positive total coliform bacteria samples trigger the requirement to do an assessment.

There is nothing you need to do at this time. There are no potential adverse health effects related to the reporting violation, no population is at risk, and there is no need to use alternative water supplies.

After becoming aware of the omission, we have since submitted the required Assessment and determined the cause of the positive coliform sample was due to improper sampling techniques. The Level 1 Assessment has since been submitted to KDOW. No further actions are required at this time.

For more information, please contact Jeff Conner at (606) 387-5854 or P.O. Box 129 Albany Ky 42602.

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.

Violation #: 2018-9950741

We recently received a violation for failure to complete a Public Notice for the Tier 3 Violation 2017-9950737 (February 2017 Chlorine) within 1 year of the allotted time frame. We have since submitted the required paperwork to the primacy agency and have been returned to compliance.

Violation #: 2018-9950740

We recently received a violation for exceeding the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 04/01/2018-06/30/2018. The reported result of 0.64 mg/L exceeded the MCL of 0.60 mg/L. We are working to remedy the issue by increased line flushing, lowering the chlorine feed rate, and introducing hydrogen peroxide into the treatment process.

Violation #: 2018-9950742

We recently received a violation for exceeding the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 07/01/2018-09/30/2018. The reported result of 0.65 mg/L exceeded the MCL of 0.60 mg/L. We are working to remedy the issue by increased line flushing, lowering the chlorine feed rate, and introducing hydrogen peroxide into the treatment process.

Violation #: 2018-9950744

We recently received a violation for exceeding the MCL for locational running annual average (LRAA) of samples for the specific contaminant in compliance period 10/01/2018-12/31/2018. The reported result of 0.62 mg/L exceeded the MCL of 0.60 mg/L. We are working to remedy the issue by increasing flushing, lowering the chlorine feed rate, and introducing hydrogen peroxide into the treatment process.