

## Stanton Water Works 2023 Water Quality Report

Manager: John Skidmore  
Address: PO Box 370 Stanton, KY 40380  
Meetings: Stanton City Hall / 2nd Thursday 6:30 PM

CCR Contact: John Skidmore

PWSID: KY0990418  
Phone: 606-663-6474



We purchase water from Beech Fork Water Commission. Their raw water source is surface water from the Red River. The overall susceptibility to contamination is generally moderate. However, there are a few areas with high susceptibility ratings which are of concern. The airport at Stanton has a high susceptibility rating and is a potential contaminant source because of on-site chemical and fuel storage. Additionally, sixteen bridges or culverts are also located near the intake. There are numerous activities of moderate concern which increase the potential for pollution such as: wastewater discharges, row crops, sewer lines, hazardous chemical users and fuel storage. Activities and land uses within the watershed can pose potential risks to 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 completed source water assessment can be reviewed at the Bluegrass Area Development District in Lexington.

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

**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 BEECH FORK WATER COMMISSION (KY0990281)**

Contaminant [code] (units)	MCL	MCLG	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
<b>Inorganic Contaminants</b>							
Barium [1010] (ppm)	2	2	0.017	0.017 to 0.017	Apr-23	No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride [1025] (ppm)	4	4	0.83	0.83 to 0.83	Apr-23	No	Water additive which promotes strong teeth
Nitrate [1040] (ppm)	10	10	0.213	0.213 to 0.213	Jul-23	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits

**Disinfection Byproduct Precursor**

Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio)	TT*	N/A	1.37 (lowest average)	1.00 to 1.67 (monthly ratios)	2023	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.

**Other Constituents**

Turbidity (NTU) TT * Representative samples	Allowable Levels	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% of monthly samples	0.22	100	No	Soil runoff

**Regulated Contaminant Test Results STANTON WATER WORKS (KY0990418)**

Contaminant [code] (units)	MCL	MCLG	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
<b>Disinfectants/Disinfection Byproducts</b>							
Chlorine (ppm)	MRDL = 4	MRDLG = 4	1.32 (highest average)	0.7 to 1.45	2023	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	37 (high site average)	15 to 63 (range of individual sites)	2023	No	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	86 (high site average)	45 to 190 (range of individual sites)	2023	YES	Byproduct of drinking water disinfection.
TTHM(ppb) Individual Site	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Violation		
SM1	62	58	69	64	No		
SM2	65	67	85	86	Yes		

**Household Plumbing Contaminants**

Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	0.017 (90 <sup>th</sup> percentile)	0.003 to 0.138	Aug-23	No	Corrosion of household plumbing systems
Lead [1030] (ppb) sites exceeding action level 0	AL = 15	0	0 (90 <sup>th</sup> percentile)	0 to 3	Aug-23	No	Corrosion of household plumbing systems

**Violation: Sanitary Survey (2024-9950843 & 2024-9950844)**

Stanton received two violations related to the Sanitary Survey requirements. The first violation (2024-9950843) was for failing to respond/consult with state concerning significant deficiency(s) determined on Sanitary Survey by compliance period 08/2023. Specifically, for not having any operators for the system during the time of the survey and staff/governing entity members unable to answer the survey questions as well and not having a properly certified operator on-site as required by regulation (401 KAR 8:030 and 401 KAR 11:040). The second violation (2024-9950844) was for failing to respond to the Sanitary Survey non-significant deficiency(s) by compliance period 10/13/2023. The city is working with DOW to resolve these deficiencies and expect to be returned back to compliance by August 31, 2024. These are not health based violations.

**Violation: Consumer Confidence Rule (2023-9950840)**

Stanton received a violation for failing to submit the 2022 Consumer Confidence Report to the KY Division of Water (DOW) by July 1st and therefore distribution to consumers cannot be confirmed. The customers were notified in June 2023 on the bill card however we did not submit the certification to DOW by the deadline. The city is working with DOW to resolve this violation and expect to be returned back to compliance by August 31, 2024. This is not a health based violation.