Cawood Water District
Water Quality Report 2022

Water System ID: KY0480565 Manager: Ronnie Williams CCR Contact: Charles Tomlin Phone: 606-573-3744
Mailing Address: P.O. Box 429, Cawood, KY 40815
Meeting Location and Time: Cawood Office - Second Tuesday each month at 6:30 PM

Source Information:

The source of water for the Cawood Water Treatment Plant is surface water from the Martins Fork River. A Source Water Assessment Plan has been developed to determine the susceptibility of the Cawoood water supply. This analysis indicates that the susceptibility to contamination is generally moderate. The potential sources of contamination include transportation corridors, mine sites, dump sites, waste storage sites, septic systems, and straight pipes. Activities and land uses upstream of the intake can pose potential risks to your drinking water and increase the cost of treatment. The complete Source Water Assessment Plan is available for review at the Cawood Water District Office.

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).

Information About Lead:

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 $10,000,000,000,000.
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 request a paper copy call (606) 573-3744.

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 — Cawood Water District

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	0.017	0.017 to 0.017	Mar-22	No	Drilling wastes; metal refineries; erosion of natural deposits
Chromium [1020] (ppb)	100	100	0.9	0.9 to 0.9	Mar-22	No	Discharge from steel and pulp mills; erosion of natural deposits
Nickel (ppb) (US EPA remanded MCL in February 1995)	N/A	N/A	1	1 to 1	Mar-22	No	N/A
Disinfectants/Disinfection Byproducts and Precursors							
Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio)	TT*	N/A	1.08 (lowest average)	1.00 to 1.59 (monthly ratios)	2022	No	Naturally present in environment.
*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	1.83 (highest average)	1.49 to 2.1	2022	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	43 (high site average)	16 to 84 (range of individual sites)	2022	No	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	38 (high site average)	21 to 50 (range of individual sites)	2022	No	Byproduct of drinking water disinfection.
Household Plumbing Contaminants							
Copper [1022] (ppm) Round 1 sites exceeding action level 0	AL = 1.3	1.3	0.0039 (90^{th} percentile)	0 to 0.0257	Sep-20	No	Corrosion of household plumbing systems

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	0.25	100	No	Soil runoff

Violation 2022-9605331

We received a violation because the CCR availability notice on our water bill had an incorrect link to the website where the 2021 CCR could be viewed. The correct link for the 2021 CCR should have been www.krwa.org/ccr/cawood.pdf and is still available for viewing. We now have a revised link where all future CCRs can be viewed at any time. All future CCRs for Cawood can be located at www.tapwaterinfo.com/cawood.pdf.

Cawood Water District - Pathfork
Water Quality Report 2022

Water System ID: KY0483727 Manager: Ronnie Williams CCR Contact: Charles Tomlin Phone: 606-573-3744
Mailing Address: P.O. Box 429, Cawood, KY 40815
Meeting Location and Time: Cawood office - Second Tuesday each month at 6:30 PM

Source Information:

Cawood Water District purchases water for the Pathfork area from Pineville. Pineville treats surface water from the Cannon Creek Lake located in Bell County. A Source Water Assessment and Protection Plan for Pineville Water System indicates that our source is moderately susceptible to contamination. The largest potential contaminant to Pineville's source water is the forested land coverings in the watershed which could be subject to logging. Logging could result in soil erosion if required Best Management Practices are not carefully applied. Erosion could contribute silts and clays and natural organics to the source waters. The completed Source Water Assessment and Protection Plan is available for viewing during normal business hours at the Pineville Water System office.

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).

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Regulated Contaminant Test Results — Cawood Water District- Pathfork

Contaminant [code] (units)	MCL	MCLG	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
Disinfectants/Disinfection Byproducts and Precursors							
Chlorine (ppm)	MRDL = 4	MRDLG = 4	1.53 (highest average)	1 to 2.05	2022	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	44 (high site average)	57 to 63 (range of individual sites)	2022	No	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	36 (high site average)	44 to 51 (range of individual sites)	2022	No	Byproduct of drinking water disinfection.
Household Plumbing Contaminants							
Copper [1022] (ppm) Round 1 sites exceeding action level 0	AL = 1.3	1.3	0.0011 (90^{th} percentile)	0.001 to 0.0011	Jul-21	No	Corrosion of household plumbing systems

Violation 2022-18

We received a violation because the CCR availability notice on our water bill had an incorrect link to the website where the 2021 CCR could be viewed. The correct link for the 2021 CCR should have been www.krwa.org/ccr/cawood.pdf and is still available for viewing. We now have a revised link where all future CCRs can be viewed at any time. All future CCRs for Cawood Pathfork can be located at www.tapwaterinfo.com/cawood.pdf.

Regulated Contaminant Test Results — Pineville Water System

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	0.008	0.008 to 0.008	Apr-22	No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride [1025] (ppm)	4	4	0.70	0.7 to 0.7	Apr-22	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	1.02 (lowest average)	1.00 to 4.13 (monthly ratios)	2022	No	Naturally present in environment.

*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	0.09	100	No	Soil runoff

	Average	Range of Detection
Fluoride (added for dental health)	0.8	0.7 to 1.04
Sodium (EPA guidance level = 20 mg/L)	5.1	5.09 to 5.09

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	0.02	0.02 to 0.02	Apr-22
Chloride	250 mg/l	3.7	3.7 to 3.7	Apr-22
Copper	1.0 mg/l	0.168	0.168 to 0.168	Apr-22
Corrosivity	Noncorrosive	-3.28	-3.28 to -3.28	Apr-22
Fluoride	2.0 mg/l	0.7	0.7 to 0.7	Apr-22
pH	6.5 to 8.5	6.91	6.91 to 6.91	Apr-22
Sulfate	250 mg/l	4.6	4.6 to 4.6	Apr-22
Total Dissolved Solids	500 mg/l	119	119 to 119	Apr-22