

Some or all of these definitions may be found in this report:

Level 1 Assessment - A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

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.

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.

Henry County Water District Water Quality Report 2016



Water System ID: KY0520192

CCR Contact: Keith Morris

502-532-6279

www.hcwd2.com

Keith Morris – Chief Operations Officer

Barry Woods – Superintendent

Justin Engstrand – Treatment Plant Supervisor

Mailing address:

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Campbellsburg, KY 40011

Meeting location and time:

8955 Main Street, Campbellsburg

2nd Tuesday each month at 7:00 PM

This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product.

The source of your drinking water is groundwater from the Ohio River Alluvium Aquifer. The District has completed phase I and Phase II of a Wellhead Protection Plan. A copy of the completed plan is available for inspection at the KIPDA area Development District, The Division of Water, or our office at 8955 Main Street, Campbellsburg during normal business hours. The Purpose of a Wellhead Protection Area is to study a water source's susceptibility to contamination and minimize the impact of land uses that could potentially threaten source water quality and quantity in the system. Our Wellhead Protection area has been evaluated and given a medium susceptibility status. There are five potential sources of contamination in our system. Sources ranked high are one 500 gallon above ground fuel storage tank and 41 acres of tobacco base. Moderate risk sites include two septic tanks and one county road. Ground water quality is monitored regularly for changes that would indicate any potential effects from these or other contamination sources.

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>.



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.

Regulated Contaminant Test Results

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

Total Coliform Bacteria # or % positive samples	TT	N/A	2	N/A	2016	No	Naturally present in the environment
Barium [1010] (ppm)	2	2	0.036	0.036 to 0.036	Jan-14	No	Drilling wastes; metal refineries; erosion of natural deposits
Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	0.154 (90 th percentile)	0.008 to 0.231	Aug-16	No	Corrosion of household plumbing systems
Fluoride [1025] (ppm)	4	4	1.18	1.18 to 1.18	Jan-14	No	Water additive which promotes strong teeth
Lead [1030] (ppb) sites exceeding action level 0	AL = 15	0	0 (90 th percentile)	0 to 1	Aug-16	No	Corrosion of household plumbing systems
Nickel (ppb) (US EPA remanded MCL in February 1995)	N/A	N/A	3	3 to 3	Jan-14	No	NA
Nitrate [1040] (ppm)	10	10	0.49	0.49 to 0.49	Feb-16	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits

Disinfectants/Disinfection Byproducts and Precursors

Chlorine (ppm)	MRDL = 4	MRDLG = 4	0.98 (highest average)	0.1 to 1.37	2016	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	17 (high site average)	3.3 to 19 (range of individual sites)	2016	No	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	59 (high site average)	14.4 to 79.1 (range of individual sites)	2016	No	Byproduct of drinking water disinfection.

	Average	Range of Detection
Fluoride (added for dental health)	0.8	0.54 to 0.94
Sodium (EPA guidance level = 20 mg/L)	24.6	24.6 to 24.6

Violations 2016-9618320 and 2016-9618321

Our water system failed to comply with required testing procedures. Even though this was not an emergency, as our customers, you have a right to know what happened and what we did to correct the 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 October 2015 and November 2015, we did not complete all monitoring by failing to report or correctly report testing results for chlorine. Therefore, we could not verify the quality of your drinking water to the primavly agency during that time.

There is nothing you need to do at this time. You may continue to drink the water. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

We are required to collect samples and test for chlorine every day and report those results on a Groundwater Minimum Chlorine Residual Report Form within the Monthly Operation Report (MOR). We collected the chlorine samples but failed to send Division of Water our form for October 2015 and November 2015 and received monitoring violations. We have submitted the documents and have implemented procedures to hopefully prevent similar violations in the future.

For more information, please contact Keith Morris at 502-532-6279 or PO Box 219, Campbellsburg, KY 40011.

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.

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

During the past year we were required to conduct one Level 1 assessment(s). One Level 1 assessment(s) were completed. In addition, we were required to take one corrective action and we completed one of these actions.

Secondary contaminants do not have a direct impact on the health of consumers and are not required in the Consumer Confidence Report. They are being included to provide addition 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	Feb-16
Chloride	250 mg/l	25.2	25.2 to 25.2	Feb-16
Color	15 color units	2	2 to 2	Feb-16
Corrosivity	Noncorrosive	0.4	N/A	Feb-16
Fluoride	2.0 mg/l	0.91	0.91 to 0.91	Feb-16
Manganese	0.05 mg/l	0.003	0.003 to 0.003	Feb-16
Odor	3 threshold odor number	1	1 to 1	Feb-16
pH	6.5 to 8.5	7.8	7.8 to 7.8	Feb-16
Sulfate	250 mg/l	49.3	49.3 to 49.3	Feb-16
Total Dissolved Solids	500 mg/l	301	301 to 301	Feb-16