

2016 Annual Water Quality Report

Kentucky Northern Division
Owen and Surrounding Counties
PWS ID: KY0340250



Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

A Message from the Kentucky American Water President

To Our Valued Customer:

Kentucky American Water is proud to be your local water service provider, and I am pleased to share with you good news about the quality of your drinking water. Each year, we provide you with our Annual Water Quality Report that provides information about where your water comes from, the results of water testing, and information about what was found during that testing.

Quite a lot goes into bringing that water to your home. The miles of pipeline hidden below the ground. The facilities that draw water from the source. The plant where it's treated and tested. Our treatment plant operators, water quality experts, engineers, and maintenance crews working around the clock to make sure that water is always there when you need it. Delivering high-quality, reliable water service to your tap around the clock also requires significant investment in our water infrastructure to upgrade aging facilities. In fact, we invest approximately \$20 million in capital improvements each year. We are proud that we continue to supply water for **less than a penny per gallon—an exceptional value.**

We do this because we believe we're delivering more than just water service. We deliver a key resource for public health, fire protection, economic development and overall quality of life. Our job is to ensure that quality water keeps flowing not only today, but well into the future. It's part of our commitment to you and the communities we serve.

We hope you agree that it's worth every penny and worth learning more about. Please take the time to review this report. It provides details about the source and quality of your drinking water using the data from water quality testing conducted for your local water system from January through December 2016.

We appreciate the opportunity to serve you.

Sincerely,

Nick O. Rowe
President, Kentucky American Water



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About Kentucky American Water

Kentucky American Water, a subsidiary of American Water (NYSE: AWK), is the largest investor-owned water utility in the state, providing high-quality and reliable water and/or wastewater services to approximately half a million people.

With a history dating back to 1886, American Water is the largest and most geographically diverse U.S. publicly-traded water and wastewater utility company. The company employs more than 6,700 dedicated professionals who provide regulated and market-based drinking water, wastewater and other related services to an estimated 15 million people in 47 states and Ontario, Canada. More information can be found by visiting www.amwater.com.

Source Water Information

When it rains, water travels over the surface of the land or through the ground, dissolving naturally occurring minerals (possibly radioactive material) and picking up organic material from animals or humans. The water ends up in rivers, lakes, streams, ponds, reservoirs, springs, and wells, where it may become a source of supply for both drinking and bottled water. The following contaminants may be present in source water because of this process:

- **Microbial Contaminants**, such as viruses and bacteria from sewage, agricultural livestock operations or wildlife.
- **Inorganic Contaminants**, such as salts and metals that may occur naturally or may result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- **Pesticides and Herbicides**, which come from a variety of sources such as agriculture, urban storm water runoff and residential uses.
- **Organic Chemical Contaminants (including synthetic and volatile organic chemicals)**, which are by-products of industrial processes and petroleum production, and may come from gas stations, urban storm water runoff and septic systems.
- **Radioactive Contaminants**, which occur naturally or result from oil and gas production and mining activities.

The Kentucky River Station II water treatment plant, that treats water from pool 3 of the Kentucky River as it passes through Owen County, provides the majority of drinking water for Kentucky American Water's Northern Division customers.

Kentucky American Water customers in the Glencoe area receive water purchased from Gallatin County Water. The primary supply for Gallatin County Water is groundwater from an underground aquifer that runs beneath Gallatin County. Our customers may receive treated water that Gallatin County Water purchases from the Warsaw Water Works treatment facility located in Warsaw. The Warsaw Water Works and Gallatin County Water draw water from the same groundwater source.

Customers in the Wheatley area receive water purchased from Carroll County Water District #1, whose source is groundwater drawn from a network of wells drilled into the Ohio River alluvial aquifer.

Protecting Your Water Source

The Kentucky Division of Water approved Source Water Assessment and Protection Plans for Kentucky American Water's suppliers in 2003. Kentucky American Water is in the process of finalizing a Source Water Assessment and Protection Plan for the Kentucky River Station II water treatment plant that treats water from pool 3 of the Kentucky River. These plans focus on identifying potential sources of contamination for drinking water supplies and encourage ongoing planning to protect source waters. The following are brief summaries of potential contamination sources for Kentucky American Water's sources of supply.

A preliminary evaluation of pool 3 Kentucky River water indicates the Kentucky River is moderately susceptible to contamination from agricultural runoff, which may include pesticides, nutrients and silt from croplands, and substances resulting from the presence of animals on pasturelands. Industrial and construction runoff in urban areas may include silts, synthetic chemicals and metals.

Carroll County Water sources are moderately susceptible to contamination from row crops, sewage treatment, permitted operations and road exposure. These cumulatively increase the potential for a release of contaminants within their watershed.

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Warsaw Water Works' and Gallatin County Water's groundwater supply is moderately susceptible to contamination. Potential sources of contamination within the wellhead protection area include storage tanks, agricultural land use, highways, wastewater treatment, septic systems and machinery storage.

Protecting drinking water is everyone's responsibility. You can help protect our water supplies by:

- Eliminating excess use of lawn and garden fertilizers and pesticides; they contain hazardous chemicals that can reach our source water.
- Picking up after your pets.
- Disposing of chemicals properly and taking used motor oil to a recycling center.
- Disposing of used medicine properly (visit our website at www.kentuckyamwater.com for additional information).
- Volunteering in watershed groups in our area.
- Remembering that storm drains dump directly into local water bodies.

Kentucky American Water encourages you to take an active part in protecting your water supply by participating in activities as they occur in your area. For example, the company participates in Reforest the Bluegrass in Fayette County annually, planting trees near water bodies to enhance our source water protection, and supports the annual River Sweep on the Kentucky River, coordinated by the Ohio River Valley Sanitation Commission (ORSANCO).

You Can Be Involved in Matters That Affect Your Water

Kentucky American Water welcomes your comments and questions regarding your water. To provide feedback on decisions that may affect the quality of your water, for questions about your water or this report, or to obtain additional copies of this report, please call our Customer Service Center at (800) 678-6301.

As a customer of a utility regulated by the Kentucky Public Service Commission, you have the opportunity to participate in periodic public hearings regarding Kentucky American Water. For more information about this process, please refer to the Public Service Commission website at <http://psc.ky.gov/> or call (800) 772-4636.

Special Information on Nitrate

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

A Proud Master Member of the Kentucky EXCEL Program

The Kentucky Department for Environmental Protection administers a voluntary program that is open to anyone who wishes to improve and protect Kentucky's environment beyond regulatory requirements. The Master membership is the highest of the four membership levels, requiring members to demonstrate comprehensive environmental management planning; undergo an independent third-party assessment of compliance; and commit to complete and report on at least five voluntary projects that will benefit Kentucky's environment. Kentucky American Water is proud to participate in this program at the Master level.



Information on the Internet

The U.S. Environmental Protection Agency (EPA), Centers for Disease Control and the Kentucky Division of Water web sites provide a substantial amount of information relating to water sources, water conservation, and public health. You may visit these sites at the addresses below:

U.S. Environmental Protection Agency
<http://water.epa.gov/drink/index.cfm>

Centers for Disease Control and Prevention
<http://www.cdc.gov/>

Kentucky Division of Water
<http://water.ky.gov/>

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What is Cryptosporidium?

Cryptosporidium is a microbial pathogen found in surface water throughout the United States. Although filtration removes *Cryptosporidium*, the most commonly used filtration methods cannot guarantee 100 percent removal. Ingestion of *Cryptosporidium* may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. People with severely weakened immune systems have a risk of developing life-threatening illness. We encourage such individuals to consult their doctor regarding appropriate precautions to take to avoid infection. *Cryptosporidium* must be ingested to cause disease, and it may be spread through means other than drinking water.

Kentucky American Water began a second round of 24 consecutive months of monitoring for *Cryptosporidium* in pool 3 of the Kentucky River in 2015. We detected *Cryptosporidium* in three of our nine source water samples in 2015 with levels ranging from 0.091 to 0.390 oocysts per liter. We detected *Cryptosporidium* in four of our 12 source water samples in 2016 with levels ranging from 0.182 to 0.857 oocysts per liter. Kentucky American Water's treatment processes are designed to remove *Cryptosporidium* from the water, but additional treatment options are being evaluated.

A Proud Member of the Partnership for Safe Water

In 2010 Kentucky American Water's Kentucky River Station II water treatment plant in Owenton joined the Partnership for Safe Water program administered by the U.S. Environmental Protection Agency (EPA), American Water Works Association and other water-related organizations. The Partnership is a voluntary commitment to continued improvement designed to help utilities provide safer water to millions of Americans by implementing prevention programs above those required by law. These preventive measures focus on improving treatment plant performance, thereby increasing protection of public health.



Substances Expected to be in Drinking Water

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 can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

To ensure tap water is safe to drink, the U.S. Environmental Protection Agency (EPA) prescribes regulations limiting the amount of certain substances in water provided by public water systems. The U.S. Food and Drug Administration establishes limits for contaminants in bottled water that must provide the same protection for public health.

Special Health Information

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).

Special Information about Lead in Drinking Water

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. Kentucky American Water 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>. Kentucky American Water remains in full compliance with all of the requirements pertinent to lead and copper in drinking water.

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Commonly Asked Questions

What is the difference between “hard” and “soft” water? Hardness is a measure of the concentration of two minerals (calcium and magnesium) naturally present in water. Excessive hardness can cause scale (white spots) in boilers, pipelines, faucet aerators and shower heads. Hard water also requires the use of large amounts of laundry soap to achieve the desired results. Hardness levels leaving our treatment plant in 2016 averaged 160 ppm (hard) or about 9 grains per gallon and ranged from 84 (moderately hard) to 258 ppm (very hard) or 5 to 15 grains per gallon.

How much sodium is in my water?

The sodium level is approximately 12.4 ppm.

What is the pH (acidity) range of my water?

Water leaving our water treatment plant averaged 7.3 pH units. A pH of 7.0 is considered neutral – neither acidic nor basic.

What is the alkalinity of my water?

Alkalinity is the capacity of water to neutralize acids. The alkalinity averages 92 ppm.

Is there fluoride in my water?

Yes. Kentucky American Water is required by law to add fluoride to assist in the prevention of dental cavities. The average fluoride level in our distribution system is 0.74 ppm.

Protecting Our Water Supply – Backflow Prevention

Kentucky American Water has a backflow prevention program that ensures proper installation and maintenance of thousands of backflow prevention devices throughout our system. These devices ensure hazards originating on customers’ properties and from temporary connections do not impair or alter the quality of water in our distribution system. For more information about Kentucky American Water’s backflow prevention program, please visit our web site at www.kentuckyamwater.com, or contact Senior Cross Connection Control Specialist Kenny Roney at kenny.roney@amwater.com or (859) 268-6310.

Unregulated Contaminant Monitoring Rule 3

Monitoring was performed by Kentucky American Water in 2013 under the U.S. Environmental Protection Agency (EPA) Unregulated Contaminant Monitoring Rule 3 (UCMR 3). Unregulated contaminants are those that don't have a drinking water standard set by EPA. The purpose of monitoring for these contaminants is to help EPA decide whether the contaminants should have a standard.

Contaminants detected as part of the UCMR 3 monitoring are included in the Water Quality Results table. For a report containing all testing performed under the UCMR 3 rule, please contact our Customer Service Center at (800) 678-6301.

Important Information About Your Drinking Water - Monitoring Requirements Not Met by Gallatin County Water District

Gallatin County Water received a Notice of Violation (NOV) for failure to submit the required number of routine bacteriological sampling results October 1, 2016, through October 31, 2016. Please note that these violations were issued to a system from whom we purchase water (i.e. Gallatin County Water), but we want you to be aware of this information. There is nothing you need to do regarding this violation. You do not need to seek an alternative water supply. The “we” listed in the mandatory paragraph below refers to Gallatin County Water.

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 your drinking water meets health standards. During October 1, 2016, through October 31, 2016, we did not complete all monitoring or testing for total coliforms, and therefore cannot be sure of the quality of your drinking water during that time.

The table below lists the contaminants Gallatin County failed to report properly during last year, how often they are supposed to sample for this contaminant, how many samples they are supposed to take, how many samples they took, when samples should have been taken, and the date on which follow-up samples were taken.

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Contaminants	Required Sampling Frequency	Number of Samples Taken	When all Samples Should Have been Taken	When Samples were Taken
Coliform (TCR)	7 Samples per Month	6	October 1, 2016 through October 31, 2016	October 1, 2016 through October 31, 2016

Corrective action measures have been by taken by Gallatin County Water to ensure that the correct number of samples will be taken each month and the results submitted in a timely manner as required by the state.

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.

This notice is being provided to you by Kentucky American Water (Water System ID# KY0340250). If you have any questions about these violations, please contact our Customer Service Center at (800) 678-6301.

Water Quality Testing

Kentucky American Water conducts extensive monitoring to ensure that your water meets all water quality standards. The results of our monitoring are reported in the following tables. While most monitoring was conducted in 2016, certain substances are monitored less than once per year because the levels do not change frequently. We believe it is important that you know exactly what was detected and how much of the substance was present in the water. For help with interpreting this table, see “How to Read This Table.”

How to Read This Table

Start by finding a **Substance**, and then read across to find the information about that substance. The **Year Sampled** is usually in 2016 or the prior year. **MCL** shows the highest level of substance (contaminant) allowed. **MCLG** is the goal level for that substance (this may be lower than what is allowed). **Highest Value** (results) represents the measured amount (less is better). **Range** tells the highest and lowest amounts measured. **Typical Source** tells where the substance usually originates.

Definitions of Terms Used in This Report

- **AL (Action Level):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- **MCL (Maximum Contaminant Level):** 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.
- **MCLG (Maximum Contaminant Level Goal):** 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.
- **MRDL (Maximum Residual Disinfectant Level):** The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **MRDLG (Maximum Residual Disinfectant Level Goal):** 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.
- **mrem/year (millirems per year):** A measure of radiation absorbed by the body.
- **NA:** Not applicable
- **ND:** Not detected
- **NTU (Nephelometric Turbidity Units):** A measurement of the clarity, or turbidity, of the water.
- **pCi/L (picocuries per liter):** Measure of radioactivity in water.
- **pH:** A measurement of acidity, 7.0 being neutral
- **ppb (parts per billion):** One part substance per billion parts water, or micrograms per liter.
- **ppm (parts per million):** One part substance per million parts water, or milligrams per liter.
- **ppt (parts per trillion):** One part substance per trillion parts water, or nanograms per liter.
- **TT (Treatment Technique):** A required process intended to reduce the level of a contaminant in drinking water.

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Water Quality Results

Regulated Substances (Measured on the Water Leaving the Treatment Facility)

Substance (units)	Year Sampled	MCL	MCLG	Owenton Area Customers		Glencoe Area Customers				Wheatley Area Customers		Typical Source
				Kentucky American Water – Kentucky River Station II		Warsaw Water Works		Gallatin County Water		Carroll County Water District		
				Highest Value	Range Low-High	Highest Value	Range Low-High	Highest Value	Range Low-High	Highest Value	Range Low-High	
Alpha emitters (pCi/L) ¹	2014	15	0	ND	ND	NA	NA	0.8	0.0 to 0.8	NA	NA	Erosion of natural deposits
Barium (ppm) ²	2016	2	2	ND	ND	0.06	0.06 - 0.06	0.035	0.0 - 0.035	0.036	0.036 to 0.036	Discharge of drilling wastes; Discharge from petroleum refineries; Fire retardants; Ceramics; Electronics; Solder
Combined radium (pCi/L) ³	2014	5	0	ND	ND	NA	NA	2.9	1.2 to 2.9	NA	NA	Erosion of natural deposits
Fluoride (ppm) ⁴	2016	4	4	0.68	NA	1.1	1.1 to 1.1	1.04 to 1.06	1.04 to 1.06	1.13	1.13 to 1.13	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate (ppm)	2016	10	10	0.29	NA	5.55	5 to 5.55	6.65	4.97 to 6.65	5.1	3.76 to 5.1	Runoff from fertilizer use; Leaching from septic tanks; Sewage; Erosion of natural deposits
Total Organic Carbon (ppm) ⁵	2016	TT	NA	1.40	0.74 – 2.18	NA	NA	NA	NA	NA	NA	Naturally present in the environment
Turbidity (NTU) ⁶	2016	TT	NA	0.13	100% Lowest Monthly	NA	NA	NA	NA	NA	NA	Soil runoff
Uranium (µg/L) ⁷	2014	30	0	ND	ND	NA	NA	1	0 to 1	NA	NA	Erosion of natural deposits

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Unregulated Contaminant Monitoring Rule 3 (Measured on the Water Leaving the Treatment Facility)

Substance (units)	Year Sampled	MCL	MCLG	Owenton Area Customers		Glencoe Area Customers				Wheatley Area Customers		Typical Source
				Kentucky American Water – Kentucky River Station II		Warsaw Water Works		Gallatin County Water		Carroll County Water District		
				Average	Range Low-High	Average	Range Low-High	Average	Range Low-High	Average	Range Low-High	
Chromium (ppb) ⁸	2013	NA	NA	0.18	ND–0.70	NA	NA	NA	NA	NA	NA	Discharge from steel and pulp mills. Erosion of natural deposits
Chromium (VI) (ppb) ⁸	2013	NA	NA	0.05	0.04–0.08	NA	NA	NA	NA	NA	NA	Naturally-occurring element
Molybdenum (ppb) ⁸	2013	NA	NA	0.70	ND – 1.50	NA	NA	NA	NA	NA	NA	Naturally occurring element found in ores and present in plants, animals and bacteria
Strontium (ppb) ⁸	2013	NA	NA	177	140 – 226	NA	NA	NA	NA	NA	NA	Naturally-occurring element
Vanadium (ppb) ⁸	2013	NA	NA	0.20	ND – 0.40	NA	NA	NA	NA	NA	NA	Naturally-occurring elemental metal

Regulated Substances (Measured in the Distribution System)

Substance (units)	Year Sampled	MCL	MCLG	Highest RAA	Range Low-High	Typical Source
Total Trihalomethanes (ppb) ⁹	2016	80	NA	71	11 – 92	By-product of drinking water disinfection
Haloacetic Acids (ppb) ⁹	2016	60	NA	52	3 – 54	By-product of drinking water disinfection
Chlorine (ppm) ¹⁰	2016	MRDL = 4	MRDLG = 4	1.05	0.6 – 1.2	Water additive used to control microbes
Chloramine (ppm) ¹¹	2016	MRDL = 4	MRDLG = 4	2.44	0.3 – 4.1	Water additive used to control microbes

Microbiological Results (Measured in the Distribution System)

Substance (units)	Year Sampled	MCL	MCLG	Highest Percentage Detected	Typical Source
Total Coliform ¹²	2016	5% Positive	0	0.53%	Naturally present in the environment
Total Coliform ¹²	2016	TT	NA	2.03%	Naturally present in the environment

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Regulated Substances (Measured at the Customer's Tap)

Substance (units)	Year Sampled	Action Level	MCLG	90th Percentile	Number of Samples	Number of Samples Above Action Level	Typical Source
Copper (ppm) ¹³	2015	1.3	1.3	0.147	51	0	Corrosion of household plumbing systems; Erosion of natural deposits
Lead (ppb) ¹³	2015	15	0	ND	51	0	Corrosion of household plumbing systems; Erosion of natural deposits

- Alpha Emitters:** Kentucky American Water sampled for Alpha emitters in 2014. Gallatin County Water sampled for Alpha emitters in 2008.
- Barium:** Kentucky American Water sampled for barium in 2016. Warsaw Water Works, Gallatin County Water, and Carroll County Water District sampled for barium in 2014.
- Combined Radium:** Radium-226 and Radium-228 concentrations added together. Kentucky American Water-Northern Division sampled for Combined Radium in 2014. Gallatin County Water District sampled for Combined Radium in 2014.
- Fluoride:** Warsaw Water Works, Gallatin County Water, and Carroll County Water District sampled for fluoride in 2014.
- Total Organic Carbon:** Although the concentration listed is ppm, the values shown are ratios used to determine compliance. Compliance with the TOC Treatment Technique (TT) requirement is based on the lowest running annual average (RAA) of the monthly ratios of the % TOC treatment removal achieved compared to the required removal. A minimum annual average ratio of 1.00 is required.
- Turbidity:** Turbidity is the clarity of water. It is measured as an indicator of water quality and the effectiveness of the filtration system. Compliance with the turbidity Treatment Technique (TT) is achieved when 95% of four-hour filtered water readings are 0.3 NTU or lower and no readings are greater than 1 NTU. Groundwater systems are not required to monitor for turbidity or to meet the TT for turbidity removal.
- Uranium:** Kentucky American Water sampled for Uranium in 2014.
- UCMR3:** Results in table are for 2013 quarterly monitoring at the Kentucky River Station II at Hardin's Landing treatment plant. Chromium is a regulated contaminant that was tested with the rest of the UCMR 3 constituents.
- Total Trihalomethanes (TTHMs) and Haloacetic Acids (HAAs):** Compliance is based on the highest LRAA (locational running annual average) that is calculated quarterly. The highest quarterly LRAA is the measured value in the table. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.
- Chlorine:** The highest RAA for free chlorine is for the Warsaw Water Works, Gallatin County Water and Carroll County Water customer areas.
- Chloramine:** The highest RAA for total chlorine or chloramines is for the in Owenton area customers.
- Total Coliform Bacteria:** From January 1, 2016 – March 31, 2016, the MCL for total coliforms in large systems was detections in 5% of samples collected. A federal rule change that went into effect April 1, 2016, replaced the MCL for total coliforms with a treatment technique that requires systems to perform system assessments if coliforms are detected in 5% of samples.
- Lead and Copper:** Compliance is achieved when at least 90% of samples collected from water standing in contact with plumbing for at least 6 hours are below the Action Level. The 90th percentile for lead was below the detection limit.

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