

2017 Water Quality Report

Manager: James Gray
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Meetings: City Hall

Hickman Water Department

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Public Meetings: 2nd Mon. of each month at 7:00 PM

We utilize treated groundwater. Our wells are 680 feet deep, are in an alluvial aquifer (sand and gravel) and are located within the city limits. The final source water assessment with a summary of the system's susceptibility to potential sources of contamination indicates that overall susceptibility to contamination is moderate. There are a total of 17 potential sources of contamination within the wellhead protection area. Potential sources include storage tanks, a railroad line and a solid waste landfill. Other concerns include residential and agricultural activities. Copies are available at the Purchase Area Development District is located at 1002 Medical Drive, Mayfield, KY 42066. Phone 270-247-7171. Copies are also available, upon request, at City Hall 1812 South 7 th Street, Hickman, Kentucky 42050, Phone (270) 236-2535, during regular business hours and the Kentucky Division of Water, 300 Sower Drive, Frankfort, Kentucky 40601, (502) 564-3410.

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, (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.

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.

Regulated Contaminant Test Results

Contaminant [code] (units)	MCL	MCLG	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
Microbiological Contaminants							
Total Coliform Bacteria # or % positive samples	TT	N/A		N/A			Naturally present in the environment
E.coli Bacteria % positive samples	0%	0		N/A			Human and animal fecal waste
Radioactive Contaminants							
Beta photon emitters (pCi/L)	50	0		to			Decay of natural and man-made deposits
Alpha emitters [4000] (pCi/L)	15	0		to			Erosion of natural deposits
Combined radium (pCi/L)	5	0		to			Erosion of natural deposits
Uranium (µg/L)	30	0		to			Erosion of natural deposits
Inorganic Contaminants							
Antimony [1074] (ppb)	6	6		to			Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic [1005] (ppb)	10	N/A		to			Natural erosion; runoff from orchards or glass and electronics production wastes
Asbestos (MFL)	7	7		to			Decay of asbestos cement water mains; erosion of natural deposits
Barium [1010] (ppm)	2	2	0.214	0.214 to 0.214	2017	No	Drilling wastes; metal refineries; erosion of natural deposits
Chromium [1020] (ppb)	100	100	7.4	7.4 to 7.4	2017	No	Discharge from steel and pulp mills; erosion of natural deposits
Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	0.218 (90 th percentile)	0.0097 to 0.496	2017	No	Corrosion of household plumbing systems
Fluoride [1025] (ppm)	4	4	0.4	0.4 to 0.4	2017	No	Water additive which promotes strong teeth
Lead [1030] (ppb) sites exceeding action level 0	AL = 15	0	0 (90 th percentile)	0 to 7	2017	No	Corrosion of household plumbing systems
Disinfectants/Disinfection Byproducts and Precursors							
Chlorine (ppm)	MRDL = 4	MRDLG = 4	1.33 (highest average)	0.90 to 1.50	2017	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	6 (high site average)	2 to 6 (range of individual sites)	2017	No	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	11 (high site average)	11 to 13 (range of individual sites)	2017	No	Byproduct of drinking water disinfection.

This report will not be sent to individual customers. It will be available at City Hall upon request.

Maximum Contaminant Level (MCL's) are set at very stringent levels. 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.

Violation 2018 - 9935430 / 7000 CONSUMER CONFIDENCE RULE

Our system received a Notice of Violation (NOV) from our primacy agency, Kentucky Division of Water. *Description of Non Compliance:* 401 KAR 8: 075, Section 1 CONSUMER CONFIDENCE RULE. The public water system failed to prepare and submit to the Department of Environmental Protection a Certification of the report that conforms to the requirements of 401 KAR 8: 075 for the calendar year. *Comments:* Calendar Year 2016's CCR data table had multiple incorrect data listed. The Lead and Copper were not the most recent sampling from 2016, but were the 2013 results. The TTHM data were incorrect, as were the fluoride results that were not the IOC's data. The URL listed the primary method of distribution, on the Certification, does not match the URL that was actually distributed to the public via a bill card. Ensure all data are accurate each year. Detail this violation in next CCR's Violation statement list. *Remedial Measures:* Detail this NOV in 2017 Consumer Confidence Report. There were no health effects due to these oversights.

Violation 2018 - 9935423 / MOR MONTHLY OPERATING REPORT

Our water system violated one or more drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

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 08/01/2017 - 08/31/2017 we did not complete all monitoring or testing for MOR MONTHLY OPERATING REPORT and therefore cannot be sure of the quality of your drinking water during that time.

There is nothing you need to do at this time. You do not need to use an alternative (e.g., bottled) water supply.

What happened? Who is at risk? What is being done?

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

What happened? Who is at risk? What is being done?

Our system received a Notice of Violation (NOV) from our primacy agency, Kentucky Division of Water. *Description of Non Compliance:* The public water system failed to submit the Monthly Operating Report for the compliance period 08/01/2017 - 08/31/2017. *Comments:* MOR Failure to submit the August 2017 MOR. *Remedial Measures:* Submit MOR, if available, to the Division of Water within (30) days of receipt of this Notice of Violation. Perform Public Notification and the required Certification. Detail this NOV in the 2017 Consumer Confidence Report. There were no health effects due to this NOV.

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 - 9935424 / 0999 CHLORINE

Our water system violated one or more drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

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 08/01/2017 - 08/31/2017 we did not complete all monitoring or testing for 0999 CHLORINE and therefore cannot be sure of the quality of your drinking water during that time.

What happened? Who is at risk? What is being done?

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.

What happened? Who is at risk? What is being done?

Our system received a Notice of Violation (NOV) from our primacy agency, Kentucky Division of Water. *Description of Non Compliance:* 401 KAR 8:150, Sec 1 CHLORINE The public water system failed to submit adequate sampling results to meet CHLORINE summary requirements for the compliance period. *Comments:* SDRD : Failed to collect and report chlorine residual samples throughout the distribution system (MOR pg.7) for the August 2017 monitoring period. *Remedial Measures:* Submit any overdue or unreported sampling analytical results, if available, for the compliance period. Perform Public Notification and the required Certification. Detail this NOV in the 2017 Consumer Confidence Report. There were no health effects due to this NOV.

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 - 9935425 / MOR MONTHLY OPERATING REPORT

Our water system violated one or more drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

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 09/01/18 - 09/30/2017 we did not complete all monitoring or testing for MOR MONTHLY OPERATING REPORT and therefore cannot be sure of the quality of your drinking water during that time.

What happened? Who is at risk? What is being done?

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.

What happened? Who is at risk? What is being done?

Our system received a Notice of Violation (NOV) from our primacy agency, Kentucky Division of Water. *Description of Non Compliance:* 401 KAR 8:020 MONTHLY OPERATIONAL REPORT The public water system failed to submit the Monthly Operating Report for the compliance period 09/01/2017 - 09/31/2017. *Comments:* MOR: Failure to submit the September 2017 MOR. *Remedial Measures:* Submit MOR, if available, to the Division of Water within (30) days of receipt of this Notice of Violation. Perform Public Notification and the required Certification. Detail this NOV in the 2017 Consumer Confidence Report. There were no health effects due to this NOV.

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 - 9935427 / 0999 CHLORINE

Our water system violated one or more drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

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 09/01/2017 - 09/30/2017 we did not complete all monitoring or testing for 0999 CHLORINE and therefore cannot be sure of the quality of your drinking water during that time.

What happened? Who is at risk? What is being done?

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.

What happened? Who is at risk? What is being done?

Our system received a Notice of Violation (NOV) from our primacy agency, Kentucky Division of Water. *Description of Non Compliance:* 401 KAR 8:020 & 8:150 CHLORINE The public water system failed to report on the MOR an adequate number of results for disinfectant residual in the distribution system for the compliance period 09/01/2017 - 09/30/2017. *Comments:* EPRD and at SDRD : Failed to collect and report chlorine residual samples at plant tap/distribution entry point (MOR pg. 5) and throughout the distribution system (MOR pg.7) for the September 2017 monitoring period. *Remedial Measures:* Submit the MOR, if available, to the Division of Water within (30) days of receipt of this Notice of Violation. Perform Public Notification and the required Certification. Detail this NOV in the 2017 Consumer Confidence Report. There were no health effects due to this NOV.

Violation 2018 - 9935428 / MOR MONTHLY OPERATING REPORT

Our water system violated one or more drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

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 10/01/2017 - 10/31/2017 we did not complete all monitoring or testing for MOR MONTHLY OPERATING REPORT and therefore cannot be sure of the quality of your drinking water during that time.

What happened? Who is at risk? What is being done?

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.

What happened? Who is at risk? What is being done?

Our system received a Notice of Violation (NOV) from our primary agency, Kentucky Division of Water. *Description of Non Compliance:* 401 KAR 8:020 MONTHLY OPERATIONAL REPORT The public water system failed to submit the Monthly Operating Report for the compliance period 10/01/2017 - 10/31/2017. *Comments:* MOR: Failure to submit the October 2017 MOR. *Remedial Measures:* Submit MOR, if available, to the Division of Water within (30) days of receipt of this Notice of Violation. Perform Public Notification and the required Certification. Detail this NOV in the 2017 Consumer Confidence Report. There were no health effects due to this NOV.

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 - 9935429 / 0999 CHLORINE

Our water system violated one or more drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

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 10/01/2017 - 10/31/2017 we did not complete all monitoring or testing for 0999 CHLORINE and therefore cannot be sure of the quality of your drinking water during that time.

What happened? Who is at risk? What is being done?

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What happened? Who is at risk? What is being done?

Our system received a Notice of Violation (NOV) from our primary agency, Kentucky Division of Water. *Description of Non Compliance:* 401 KAR 8:020 & 8:150 CHLORINE The public water system failed to report on the MOR an adequate number of results for disinfectant residual in the distribution system for the compliance period 10/01/2017 - 10/31/2017. *Comments:* EPRD and SDRD : Failed to collect and report minimum chlorine residual samples at plant tap/distribution entry point (MOR pg. 5) and throughout the distribution system (MOR pg.7) for the October 2017 monitoring period. *Remedial Measures:* Submit the MOR, if available, to the Division of Water within (30) days of receipt of this Notice of Violation. Perform Public Notification and the required Certification. Detail this NOV in the 2017 Consumer Confidence Report. There were no health effects due to this NOV.

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Violation 2018 - 9935431 / MOR MONTHLY OPERATING REPORT

Our water system violated one or more drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

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 01/01/2018 - 01/31/2018 we did not complete all monitoring or testing for MOR MONTHLY OPERATING REPORT and therefore cannot be sure of the quality of your drinking water during that time.

What happened? Who is at risk? What is being done?

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What happened? Who is at risk? What is being done?

Our system received a Notice of Violation (NOV) from our primary agency, Kentucky Division of Water. *Description of Non Compliance:* 401 KAR 8:020 MONTHLY OPERATIONAL REPORT The public water system failed to submit the Monthly Operating Report for the compliance period 01/01/2018 - 01/31/2018. *Comments:* MOR: Failure to submit the January 2018 MOR. *Remedial Measures:* Submit MOR, if available, to the Division of Water within (30) days of receipt of this Notice of Violation. Perform Public Notification and the required Certification. Detail this NOV in the 2017 Consumer Confidence Report. There were no health effects due to this NOV.

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Violation 2018 - 9935432 / 0999 CHLORINE

Our water system violated one or more drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

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What happened? Who is at risk? What is being done?

Our system received a Notice of Violation (NOV) from our primary agency, Kentucky Division of Water. *Description of Non Compliance:* 401 KAR 8:020 & 8:150 CHLORINE The public water system failed to report on the MOR an adequate number of results for disinfectant residual in the distribution system for the compliance period 01/01/2018 - 01/31/2018. *Comments:* SDRD : Failed to collect and report chlorine residual samples throughout the distribution system (MOR pg.7) for the January 2018 monitoring period. *Remedial Measures:* Submit the MOR, if available, to the Division of Water within (30) days of receipt of this Notice of Violation. Perform Public Notification and the required Certification. Detail this NOV in the 2017 Consumer Confidence Report. There were no health effects due to this NOV.

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Violation 2018 - 9935433 / MOR MONTHLY OPERATING REPORT

Our water system violated one or more drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

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 02/01/2018 - 02/28/2018 we did not complete all monitoring or testing for MOR MONTHLY OPERATING REPORT and therefore cannot be sure of the quality of your drinking water during that time.

What happened? Who is at risk? What is being done?

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What happened? Who is at risk? What is being done?

Our system received a Notice of Violation (NOV) from our primary agency, Kentucky Division of Water. *Description of Non Compliance:* 401 KAR 8:020 MONTHLY OPERATIONAL REPORT The public water system failed to submit the Monthly Operating Report for the compliance period 02/01/2018 - 02/28/2018. *Comments:* MOR: Failure to submit the October 2017 MOR. *Remedial Measures:* Submit MOR, if available, to the Division of Water within (30) days of receipt of this Notice of Violation. Perform Public Notification and the required Certification. Detail this NOV in the 2017 Consumer Confidence Report. There were no health effects due to this NOV.

Violation 2018 - 9935434 / 0999 CHLORINE

Our water system violated one or more drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

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 02/01/2018 - 02/28/2018 we did not complete all monitoring or testing for 0999 CHLORINE and therefore cannot be sure of the quality of your drinking water during that time.

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What happened? Who is at risk? What is being done?

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Violation 2018 - 9935435 / MOR MONTHLY OPERATING REPORT

Our water system violated one or more drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

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 03/01/2018 - 03/31/2018 we did not complete all monitoring or testing for MOR MONTHLY OPERATING REPORT and therefore cannot be sure of the quality of your drinking water during that time.

What happened? Who is at risk? What is being done?

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.

What happened? Who is at risk? What is being done?

Our system received a Notice of Violation (NOV) from our primacy agency, Kentucky Division of Water. *Description of Non Compliance:* 401 KAR 8:020 MONTHLY OPERATIONAL REPORT The public water system failed to submit the Monthly Operating Report for the compliance period 03/01/2018 - 03/31/2018. *Comments:* MOR Late: The March 2018 MOR was mailed to the Division of Water on 04/11/18 and was received by 04/18/18. MORs must be placed in the mail before the 10th to be received by Division of Water on time. *Remedial Measures:* Submit the MOR, if available, to the Division of Water within (30) days of receipt of this Notice of Violation. Perform Public Notification and the required Certification. Detail this NOV in the 2017 Consumer Confidence Report. There were no health effects due to this NOV

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