



WATER QUALITY REPORT
2019 REPORTING YEAR

THE HISTORY OF DRINKING WATER REGULATIONS

The United States Public Health Service (USPHS) adopted the first federal drinking water standards in 1914. Only bacteriological contaminants were monitored under the standards and only in water supplied to interstate carriers, such as trains. The regulation of public water systems was at the discretion of individual states. In 1962, the USPHS standard was revised to cover 28 contaminants, but the standard was still only applied to water systems that supplied common carriers in interstate commerce. Not until 1972, when the US Environmental Protection Agency (EPA) was formed, were bills introduced to give the federal government the authority to set enforceable drinking water standards.

Numerous studies conducted between 1969 and 1974 indicated that many people throughout the country were being supplied poor quality drinking water. A report published in 1974 showed that people drinking treated Mississippi River water (which had been shown to contain many organic contaminants) were at a greater risk of developing cancer than people in the

same area that drank ground water. Reactions to these studies by the public and the government culminated the passing of the 1974 Safe Drinking Water Act. Regulations based on this Act became effective in 1977 and essentially covered the same contaminants as the 1962 USPHS standard except they were applied to all public water systems.

Safe Drinking Water Act amendments in 1977, 1979, 1980 and 1986 resulted in new regulations covering radionuclides, trithalomethanes, corrosion by-products and microbiological contaminants. In 1996, Congress reauthorized and amended the Safe Drinking Water Act again. New regulations being developed under these amendments cover source water protection, system capacity, operator certification, contaminant selection and consumer confidence reports.

This is the consumer confidence report (CCR) for year 2019.

WHERE DOES YOUR WATER COME FROM?

York County has purchased and will continue to purchase all of its potable water for the eastern distribution system from the City of Rock Hill.

The City of Rock Hill owns and operates the water filter plant (WFP) on Cherry Road. This WFP filters and treats the majority of the drinking water customers receive from the County's eastern distribution system.

The City of Rock Hill WFP filters and treats surface waters that are drawn from Lake Wylie. Lake Wylie is located on the Catawba River and within the Catawba-Wateree River sub-basin. The lake has been classified as good to fair in previous water quality assessment reports.

Raw water is pumped from the lake to the WFP where it is filtered and treated in accordance with state and federal drinking water standards. In order to maintain raw water quality, the City of Rock Hill has established and maintains a 200 foot wide buffer around the raw water intake structure. Protection of the buffer area is enforced by the South Carolina Wildlife Commission.

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The York County Water and Sewer Department routinely monitors for contaminants in its water distribution system according to federal and state regulations. The following tables show monitoring results for the period of January 1 to December 31, 2019:

2019 WATER QUALITY REPORT DATA

Inorganic Contaminants							
Contaminant	Violation Y/N	Level Detected	Unit of Measurement	MCLG	MCL	Date of Testing	Likely Source of Contamination
Fluoride	N	Rock Hill WFP 0.67	ppm	4	Rock Hill Plant 4	2019	Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate (as Nitrogen)	N	Rock Hill WFP 0.43	ppm	10	10	2019	Runoff from fertilizer use; Leaching from septic tanks; sewage; Erosion of natural deposits.

Contaminant	Violation Y/N	Action Level	90th Percentile Value	Number of Sampling Sites Exceeding The Action Level	Date of Testing	Likely Source of Contamination
Lead	N	15 ppb	Non-detect	0	2018	Corrosion of household plumbing systems; Erosion of natural deposits.
Copper	N	1.3 ppm	.009	0	2018	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.

Regulated Contaminants								
Disinfection and Disinfection By-Products	Collection date	Highest Level Detected	Range of Levels Detected	MCLG or MRDLG	MCL or MRDL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2019	21 (LRAA)	14—24	No goal for the total	60	ppb	N	By-product of drinking water disinfection
Total Trihalomethanes	2019	46 (LRAA)	21—53	No goal for the total	80	ppb	N	By-product of drinking water disinfection
Chlorine (ppm)	2019	1.4 RAA	1—3	4	4	ppm	N	Water additive used to control microbes.

Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future.

Contaminants							
Contaminants	Violation Y/ N	Level Detected	Unit of Measurement	MCLG	MCL	Date of Testing	Likely Source of Contamination
Sodium	N	Rock Hill WFP 4.8	ppm	Not regulated	Rock Hill Plant Not regulated	2019	Erosion of natural deposits, leaching.
Hardness	N	Rock Hill WFP 32	ppm	Not regulated	Not regulated	2019	Erosion of natural deposits, leaching.

In the previous data table, you may have found several terms and abbreviations you might not be familiar with. To help you better understand these terms, we've provided the following definitions:

DEFINITIONS

Action Level - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level (MCL) - The "Maximum Allowed" (MCL) is 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 "Goal" (MCLG) is 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 goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.

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.

Non-Detects (ND) - Laboratory analysis indicates that the constituent is not present.

Parts per billion (ppb) or micrograms per liter (ug/l) - One part per billion corresponds to one minute in 1,903 years or a single penny in \$10,000,000.

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.

All

York County is proud that the water distribution system that provides drinking water to you meets or exceeds federal and state requirements. York County has learned through its monitoring and testing that very few contaminants were detected, all of which were below the maximum allowable limit. The EPA has determined that the water supplied to

Pesticides and herbicides: May come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

Radioactive Contaminants: Can be naturally-occurring or be the result of oil and gas production and mining activities.

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 and Center for Disease Control guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Please call our office at 803-628-3211 if you have any questions. We, at York County, work around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life, and our children's future.

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All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All 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 the 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 at 1-800-426-4791.

MCLs are set at very stringent levels. To understand the possible health effects described for many regulated contaminants, a person drinking 2 liters of water every day at the MCL level for a lifetime will have a one-in-a-million chance of experiencing a health effect.

Nitrates: As a precaution, if there is ever a higher than normal level of nitrates in the water supply, York County will notify the proper authorities in the area of the concern.

Lead: Lead in drinking water is rarely the sole cause of lead poisoning, but it can add to a person's total lead exposure. All potential sources of lead in the household should be identified and removed, replaced or reduced.

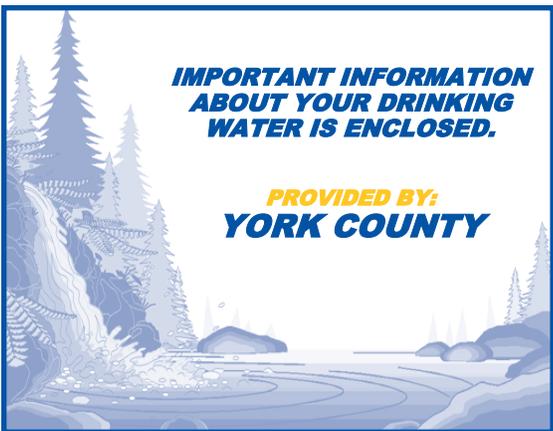
If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. York County Water & Sewer is responsible for providing high quality 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 <http://www.epa.gov/safewater/lead>.

FOR MORE INFORMATION

York County Public Works Department

Water and Sewer Department (7:00 am – 4:00 pm)	(803) 628-3211
Water Quality Concerns (7:00 am – 4:00 pm)	(803) 628-3211
Water Bills (7:00 am – 4:00 pm)	(803) 327-8639 or (803) 628-3211
Safe Drinking Water Hotline	(800) 426-4791
S.C. Dept. of Health and Environmental Control (Bureau of Water)	(803) 898-4300
S.C. Dept. of Health and Environmental Control (Division of Health Hazard Evaluation)	(888) 849-7241
Consumer Product Safety Commission	(800) 638-2772
National Lead Information Center	(800) 424-LEAD



If you have any questions regarding this report or your water utility, please contact Raymond Bailey, York County Water and Sewer Utility Manager, at 628-3211. If you want to learn more, please attend any of our regularly scheduled York County Council meetings, which are held the first and third Mondays of each month, beginning at 6:00 p.m. in the Council Chambers located in the York County Agricultural Building. For more information on these meetings, please call the York County Manager's Office at 684-8511.