

Annual Drinking Water Quality Report

Chesterfield Water Department

2024

Our Commitment to You: **Safe, Reliable Drinking Water**

We're pleased to present to you this year's Annual Quality Water Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. (Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien)

Origin of our Water

We're pleased to provide you with this year's Annual Quality Water Report. We want to keep you informed about the excellent water and services we have delivered to you over the past year. Our goal is and always has been, to provide to you a safe and dependable supply of drinking water. Your drinking water originates from three municipal wells. Well No. 1 is 100 feet deep and has a capacity to pump 620 gallons per minute and is located inside the treatment plant at 421 Pearl Street.

Well No. 3 is 132 feet deep and has a capacity to pump 363 gallons per minute. It is located just southeast of the treatment plant.

Well No. 4 is 115 feet deep and has the capacity to pump 792 gallons per minute. It is located just south of the treatment plant.

Once the water is pumped through these wells, the water enters the Town's water treatment plant. The treatment plant accomplishes many functions. First, water enters the aerator where the raw water is exposed to oxygen to oxidize the iron and manganese. The water goes to the detention tank where iron and manganese settle out. Then fluoride is added to aid in the prevention of tooth decay and then enters the pressure filter for the purpose of iron removal. Then once the water is filtered, chlorine is added as a disinfectant to kill bacteria. After this process the water enters the distribution system where it travels through the system to the elevated 500,000-gallon storage tank, located at the southeast corner of Commerce and County Line Road.

The water department routinely monitors for constituents in your drinking water according to Federal and State laws. This shows the results of our monitoring for the period of January 1, 2024 to December 31, 2024. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

If you have any questions about this report or concerning your water utility, please contact the Town of Chesterfield at (765) 378-3331, or operator Daniel Wooten at (765) 378-3331, Monday through Friday 8:00 a.m. to 4:00 p.m. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held the second Tuesday of each month at 6:30 p.m.

The Town of Chesterfield is required to take bacteriological samples 3 times per month using a site sample plan that consists of four different areas throughout the town. Also, you will notice that there is far less testing for contaminants this year as opposed to last year because the town is granted quarterly and yearly waivers on certain parameters because of detects far less than the MCL or no detects whatsoever, it will vary from year to year.

We're proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your water IS SAFE at these levels.

"All sources of drinking water are subject to potential contamination by constituents that are naturally occurring or are manmade. Those constituents can be microbes, organic or inorganic chemicals, or radioactive material."

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.

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, 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.

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. These improvements are sometimes reflected as rate structure adjustments. Thank you for understanding.

Some people may be more vulnerable to contaminants in drinking water than the general population. Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office. 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). Some people who drink water containing Haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer. There are no additional required health effects violation notices.

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 land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

There is no safe level of lead in drinking water. Exposure to lead in drinking water can cause serious health effects in all age groups, especially in pregnant people, infants (both formula-fed and breastfed), and young children. Some of the health effects to infants and children include, decreases in IQ and attention span. Lead exposure can also result in new or worsened learning and behavior problems. The children of persons who are exposed to lead before or during pregnancy may be at increased risk of these harmful health effects. Adults have increased risks of heart disease, high blood pressure, kidney or nervous system problems. Contact your health care provider for more information about your risks.

The public can access the Lead Service line inventory Excel Spreadsheet on the Town of Chesterfield recent news page at <https://chesterfield.in.gov/>

Our system collected samples under the U.S. EPA Unregulated Contaminants Monitoring Rule (UMCR) for 29 PFAS compounds and Lithium. This monitoring is being conducted so the EPA can receive occurrence data for these compounds to determine what additional compounds may need to be regulated in drinking water. We collected samples in January 2025 and detected the compounds shown in this table. These compounds are not regulated at this time. If you would like the results, contact our office at 765-378-3331, ddunham@chesterfield.in.gov or the results will be posted at <https://chesterfield.in.gov/> recent news.

We at the Town of Chesterfield 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.

Sincerely,
Daniel Wooten
Water Superintendent

Terms and Abbreviations

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Avg = Average Regulatory compliance with some MCLs are based on running annual average of monthly samples.

LRAA = Locational Running Annual Average

mrem = millirems per year (a measure of radiation absorbed by the body)

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

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 – one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) or Nano grams per liter (Nano grams/l) – one part per trillion corresponds to one minute in 2,000,000 years or single penny in \$10,000,000,000.

Parts per quadrillion (ppq) or Pico grams per liter (pic grams/l) – one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Pico curie per liter (pci/l) – Pico curies per liter is a measure of the radioactivity in the water.

Millirems per year (mrem/yr) – measure of radiation absorbed by the body.

Million Fibers per liter (MFL) – million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) – nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

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

Treatment Technique (TT) – (mandatory language) a treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Maximum Contaminant Level – (mandatory language) the “Maximum Allowed” (MCL) is the highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal – (mandatory language) The “Goal” (MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

MRDL: Maximum Residential Disinfectant Level, the highest level of disinfectant allowed in drinking water.

MRDLG: Maximum Residential Disinfectant Level Goal, the level of drinking water disinfectant below which there is no known or expected risk to health.

Microbial contaminants: such as viruses and bacteria, this may come from sewage treatment plants, septic systems agricultural livestock, and wildlife.

Inorganic contaminants: such as salts and metals, this can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and herbicides: This may 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 byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

Radioactive contaminants: This can be naturally-occurring or be the result of oil and gas production and mining activities.

Potential violation, one that is likely to occur in the near future once the system has sampled for four quarters. (P*)

**Contaminants Detected
Inorganic Contaminants**

Date	Contaminant	MCL	MCLG	Units	Result	Min	Max	Violates	Likely Sources
2024	Barium	2	2	ppm	0.32	0.32	0.32	No	Discharge of drilling wastes: Discharge from metal refineries
2024	Chromium	100	100	ppb	<0.005				Discharges or Erosion of natural deposits
Lead and Copper Period	90th Percentile 90% of you water utility levels were less than	Range of Sample results (low-high)	Unit	Sites over Action Level	Samples Over Action Limit				
Copper 2021-2024	0.1	0.01-0.17	ppm	0	0				Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead 2021-2024	0	0.1	ppb	0	0				Corrosion of household plumbing systems; Erosion of natural deposits
2024	Fluoride	4	4	ppm	0.25	0.25	0.25	No	Erosion from natural Deposit. Additive that promotes strong teeth. Discharge from aluminum factory
2024	PFAS	2.0		ng/L	PFBS 1.1	< 0.5	1.1		Non-stick cookware, Firefighting foams, Waterproof clothing, Stain-resistant carpets, and cleaning products.
2024	Nitrate (as N)	10	10	ppm	< 1.0 mg/L		10 mg/L	No	Erosion of natural deposits
2024	Arsenic	10	0	ppb	<0.001			No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
2024	Cyanide	0.2	0.2	ppb	<0.01			No	Erosion of natural deposits; Runoff from Orchards; Runoff from glass and electronics Production wastes.
2024									Discharge from plastic and fertilizer factories; Discharge from steel/metal factories

Disinfection By-products & Precursors

Date	Contaminant	MCL	MCLG	Units	Highest LRAA	Min	Max	Violates	Likely Sources
2024	Total Haloacetic Acids (haa5)	60	No goal for this total	ppb	<1 ug/L	1	1	No	By-product of drinking water chlorination
2024	Total Trihalomethanes (tthm)	80	No goal for this total	ppb	9.03 ug/L	9.03	9.03	No	By-product of drinking water chlorination

Unregulated Contaminants

Date	Contaminant	MCL	MCLG	Units	Result	Min	Max	Violates	Likely Sources
2015	Sodium	n/a		mg/l	20.4			No	Erosion of natural deposits; Leaching

Radiological Contaminants

Date	Contaminant	MCL	MCLG	Units	Result	Min	Max	Violates	Likely Sources
2024	Gross Alpha excluding Radon & Uranium	15	0	pCi/l	<1	1	1	No	Erosion of natural deposits
2024	Combined Radium 226/228	5	0	pCi/L	0.59			No	Decay of natural and man-made deposits

Residual Disinfectant

Date	Contaminant	MCL	MCLG	Units	Result	Min	Max	Violates	Likely Sources
2024	Chlorine Residual	4 MRDL	4 MRDLG	ppm	0.80	0.80	0.80	No	Water additive (disinfectant used to control)
									microbiological organisms)

Violations During the period covered by this report – None

Deficiencies Reported - None