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Leon E. Bursley Jr., Water Treatment Plant Manager

City of Mansfield Water Quality Report 2025

The City of Mansfield is proud to present our 2025 Water Quality Report. This report includes valuable information regarding your drinking water. The report emphasizes the quality product the city produces and gives you assurance that your drinking water will continue to be safe. In 2025, we had a current, unconditioned license to operate our water system.

We are proud to report that the water provided by the Mansfield Water Treatment Plant meets or exceeds established water quality standards. This is based on routine chemical and bacteriological testing of City water at the water plant and in the distribution system. Our treatment plant is constantly maintained, evaluated, and upgraded to stay abreast of advancements in technology and government regulations. Through foresight and planning, efficiency in operations, and focus on excellence in customer service, we will provide you the best quality drinking water at an economical price.

This report will answer three important questions:

- Where does my water come from?
- How is my water treated and purified?
- What is in my water?

We will also provide you with information about available sources that will answer other questions on water quality and health effects.

Where does my water come from?

Mansfield City water is a blend of surface and ground water. Surface water is supplied to the treatment plant from the 4.4 billion-gallon Clearfork Reservoir. Ground water is supplied from ten municipal wells, located within 1.5 miles from the plant. Water is blended using approximately 22% surface water and 78% well water. The percent blend is determined by surface water clarity, seasonal algal blooms, tastes and odors, and water chemistry.

How is my water treated and purified?

The treatment process consists of a series of steps. Raw water is pumped from Clearfork reservoir to the plant through a 24" line. The wells are pumped to the plant through two 18" lines. The water is blended at the plant in a raw water wet well. From the wet well the water is pumped to the flash mix where alum polymer and powdered carbon are added. The carbon removes any tastes or odors occurring in the lake water. The alum polymer causes small particles to adhere to one another (called floc) making them heavy enough to settle in a basin from which sediment is removed.

After settling, the water is then filtered through layers of fine coal, silicate sand, and gravel. As smaller, suspended particles are removed, turbidity disappears and clear water emerges.

Next, caustic soda and corrosion inhibitors are added for pH balance and corrosion reduction in the distribution system.

Finally, as a precaution against any bacteria that might remain, chlorine is added before water flows to sanitized, underground storage reservoirs, water towers, and into your homes and businesses. We carefully monitor the amount of chlorine added, trying to provide the lowest quantity necessary to protect the safety of your water at the furthest distance from the plant without compromising taste.

What are sources of contaminate to 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. In order to ensure that tap water is safe to drink, USEPA 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. More information about contaminants and potential health effects can be obtained by calling the Federal Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791).

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 can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- (B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- (D) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- (E) Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

Surface water sources, such as rivers and reservoirs, are more susceptible to contamination than ground water sources. Mansfield utilizes additional drinking water treatment techniques due to the potential for contamination from agricultural, residential, and commercial land uses upstream from the Clearfork Reservoir. For over 50 years, the Mansfield public water system has effectively treated this water to meet drinking water quality standards.

In 2003, revised in 2013, Ohio EPA completed a Source Water Area Protection Report (SWAP) and Vulnerability Assessment for the Clearfork Reservoir (surface water) and wells (ground water). The susceptibility analyses from that report states that because Mansfield's drinking water is a blend between the surface water and ground water, the water system as a whole is considered to be highly susceptible to contamination. By their nature, surface waters are easily accessible and can be readily contaminated by chemicals and pathogens, with relatively short travel times from a source to the intake. The Glacial wellfields are also considered to have a high susceptibility to contamination because of the presence of a relatively thin protective layer of clay overlying the aquifer, the shallow depth (less than 30 feet below the ground surface) of the aquifer, and the presence of significant potential contaminant sources in the protection area. This susceptibility means that under currently existing conditions, the likelihood of the glacial aquifer becoming contaminated is relatively high. The likelihood can be minimized by implementing appropriate protective measures. The Bedrock wellfields are considered to have a moderate susceptibility to contamination because of the presence of moderately thick protective layer of clay overlying the aquifer, and no evidence to suggest that ground water has been impacted by any significant levels of chemical contaminants from human activities. This susceptibility means that under currently existing conditions, the likelihood of the bedrock aquifer becoming contaminated is moderate. This likelihood can be minimized by implementing appropriate protective measures. The susceptibility was determined by using local and regional information to best define the geologic setting of the wells. If additional information becomes available, Ohio EPA will reevaluate the susceptibility. While the source water for

the City of Mansfield Public Water System is considered susceptible to contamination, historically, the City of Mansfield Public Water System has effectively treated this source water to meet drinking water quality standards. If you are interested in a copy of the SWAP, please contact Leon E. Bursley Jr. at 419-884-3310.

Who needs to take special precautions?

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 infection. 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 (1-800-426-4791).

Important Terms and Units in your Water Quality Table

Definitions of some of the terms contained in the data table and within 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 Goal (MRDLG): The level of 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 disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

PARTS per MILLION (ppm) or Milligrams per Liter (mg/l) are units of measure for a concentration of a contaminant. A part per million corresponds to a second in a little over 11.5 days.

PARTS per BILLION (ppb) or Micrograms per Liter (ug/l) are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.

PFAS: Per- and polyfluoroalkyl substances (PFAS) are a group of man-made chemicals applied to many industrial, commercial and consumer products to make them waterproof, stain resistant, or nonstick. PFAS are also used in products like cosmetics, fast food packaging, and a type of firefighting foam called aqueous film forming foam (AFFF) which are used mainly on large spills of flammable liquids, such as jet fuel. PFAS are classified as contaminants of emerging concern, meaning that research into the harm they may cause to human health is still ongoing.

Detected Level: The highest level detected of a contaminant for comparison against the acceptance levels for each parameter. These levels could be the highest single measurement, or an average of values depending on the contaminant.

Action Level (AL): The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements that a water system must follow.

Range: The lowest to the highest values for all samples tested for each contaminant. If only one sample is tested, or no range is required for this report, then no range is listed for that contaminant in the table.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Nephelometric Turbidity Unit (NTU): A measurement of the clarity of water. It is used to assess water quality by indicating the cloudiness of the water, which can be an indicator of the presence of contaminants.

Not Applicable (N/A): Abbreviation meaning that this does not apply to our report.

Not Detected (ND): Abbreviation meaning a contaminant was not detected in drinking water sample(s).

Less than "<" symbol: A symbol which means 'less than'. A result of "<5" means that the lowest level detected was 5 and the contaminant in that sample was not detected.

Picocuries per liter (pCi/L): A common measure of radioactivity.

PSWID # OH7002914

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. Mansfield Water Treatment Plant 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 at 800-426-4791 or at <http://www.epa.gov/safewater/lead>.

Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (1-800-426-4791).

Per the Lead and Copper Rules, Public Water Systems were required to develop and maintain a Service Line Inventory. A service line is the underground pipe that supplies your home or building with water. To view the Service Line Inventory, which lists the material type(s) for your location, you can visit: <https://leadandcopper-mansfield.hub.arcgis.com/> and “View the Full Inventory”.

There is also a self-help tool that can be used to identify and report your service line material.

Water Quality Data Table

TABLE OF DETECTED CONTAMINANTS

Contaminants (Units)	MCLG (Goal)	MCL (Limit)	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
Residual Disinfectants and Disinfection Byproducts							
Total Chlorine (ppm) ^{***}	Goal <4	Limit 4	1.80	1.53 – 2.05	No	2025	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)	N/A	60	52.5	18.2 – 78.5	No	2025	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	N/A	80	75.0	20.1 – 108.6	No	2025	By-product of drinking water disinfection
TTHM and HAA5 exceeded operational evaluation levels at 4 of 8 sampling locations in 2025's 3 rd quarter****							
Turbidity							
Turbidity (NTU)	N/A	TT	2.60	0.03 – 2.60	Yes	2025	Soil Run-Off
Turbidity (% of samples meeting standard)*	N/A	TT	98.3%	98.3% – 100%	No	2025	Soil Run-Off
TOC (mg/L)**	N/A	TT	1.54	2.01 – 1.43	No	2025	Naturally Present in the Environment

Inorganic Contaminants							
Fluoride (ppm)	4	4	0.14	0.14	No	2025	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Barium (ppm)	2	2	0.04	0.04	No	2025	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Nitrate (ppm)	10	10	0.58	0.13 – 0.58	No	2025	Run off from fertilizer use, Leaching from septic tanks, sewage; Erosion of natural deposits
Contaminants (Units)	MCLG (Goal)	MCL (Limit)	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
Radioactive Contaminants							
Combined radium (pCi/L)	0	5	2.35	N/A	No	2022	Erosion of natural deposits
Gross Alpha (pCi/L)	0	15	3.02	N/A	No	2022	Erosion of natural deposits

Lead and Copper							
Contaminants (units)	Action Level (AL)	MCLG	Individual Results over the AL	90% of test levels were less than	Violation	Sample Year	Typical source of Contaminants
Lead (ppb)	15 ppb	0 ppb	21 ppb	1.8 ppb	No	2025	Corrosion of household plumbing systems; erosion of natural deposits
	1 out of 31 samples were found to have lead levels in excess of the lead action level of 15 ppb.						
Copper (ppm)	1.3 ppm	0 ppm	N/A	0.2 ppm	No	2025	Erosions of natural deposits; leaching from wood preservatives; Corrosions of household plumbing systems
	0 out of 31 samples were found to have copper levels in excess of the copper action level of 1.3 ppm.						

*Turbidity is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. The turbidity limit set by the EPA is 0.30 NTU in 95% of the daily samples and shall not exceed 1.0 NTU at any time. As reported above the highest recorded turbidity at the Mansfield Water Treatment Plant in 2025 was 2.60 NTU and the lowest monthly percentage of samples meeting the turbidity limits was 98.3%.

**The value reported under “Level Found” for Total Organic Carbon (TOC) is the lowest ratio between the percentage of TOC actually removed to the percentage of TOC required removed. A value of greater than 1.0 indicates the water system is in compliance with TOC removal requirements. A value of less than 1.0 indicates a violation of the TOC removal requirements.

***For total chlorine, the MRDL is 4.0 mg/l. Compliance is based on the running annual average of samples taken in the distribution system and computed quarterly. If the average of the quarterly averages covering any consecutive four-quarter period exceeds the MRDL, the system is in violation and must notify the public.

****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.

Additional Monitoring

As part of the federal 2024 PFAS drinking water rule, Public Water Systems were required to monitor finished drinking water for PFAS by April 26, 2027. We completed our 1 of 4 sampling events on November 6, 2025, analyzing for the six regulated PFAS: PFOA, PFOS, HFPO-DA, PFBS, PFHxS, and PFNA. All results were non-detections except the following:

Contaminants (Units)	Sample Date	Result
PFOA (ppb)	11/06/2025	0.00102
PFOS (ppb)	11/06/2025	0.000921

Violations with Health Effects

Mansfield Water Treatment had three violations in 2025. All violations were treatment technique violations.

Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

On January 2, we had a turbidity violation for nine hours.

From May 7 to May 9, we had an inadequate treatment violation due to rapid mix failure.

From December 9 to January 8, 2026, we had an inadequate treatment violation due to rapid mix failure.

We did not have a rapid mix until recently. Our rapid mix is made to quickly disperse coagulant into water to improve treatment. Rapid mix failures did not negatively impact treatment nor degrade finished water quality.

Rapid mixing is a required process so we received violations upon equipment failure.

Definitions:

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Turbidity: Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

To correct each violation listed above, we work with design engineers, equipment manufacturers, consultants, and contractors to implement solutions.

You may have also received notifications about service line material. US EPA and Ohio EPA are requiring us to identify materials used in every service line between our water mains and your water meter.

We were required to report 43 GRR (galvanized requiring replacement) notices to the State. Our system failed to demonstrate to the State that it delivered annual notifications and information to affected consumers with lead, galvanized requiring replacement, or lead status unknown service lines as required by July 1, 2025. Although the failure to comply with the reporting requirement does not create a risk to public health, we are required to inform you of this violation and provide additional information including what we did to correct the situation. It is important for consumers to know if the water they are receiving has been delivered through a lead, galvanized requiring replacement (GRR), or lead status unknown service line so they can make decisions on whether and what actions to take to reduce their exposure to lead in drinking water.

What should I do?

There is nothing you need to do at this time. You do not need to boil your water or take other actions. Remember, boiling water does not remove lead from water. For more information on reducing lead exposure around your home/building and the health effects of lead, visit the EPA's websites at <https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water> and <http://www.epa.gov/lead>.

What is being done?

Since being notified of the non-compliance the City of Mansfield has worked to identify the 43 recorded GRRs. Through records and field investigation, it has been determined that all 43 were classified as GRR in error and no GRR notices are required to be issued. We will provide the other required notifications to persons served before 12/31/2025.

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.

Engineering has created an online portal and a telephone hotline. For more information or if you would like to help us identify your service line material, please call **City of Mansfield Help Hotline at (419) 755 – 9858** or visit <https://leadandcopper-mansfield.hub.arcgis.com/>

How will I know if there is a problem with my drinking water?

If the amount of a contaminant exceeds a predetermined safe level in your drinking water, (MCL, action level, etc.), the Mansfield Water Treatment Plant will notify you by newspaper, radio, TV or other means within 24 hours. With the notification you will be instructed on what appropriate actions you can take to protect your family's health.

Public Participation

You are invited to participate in our public forum and voice your concerns about your drinking water. The City of Mansfield Council meetings are held on the first and third Tuesday of the month at 7:00 pm on the third floor of the City Municipal Building located at 30 North Diamond Street.

Questions?

Should you have any questions regarding this report or your drinking water, please call Leon E. Bursley Jr., Plant Manager, with the Mansfield Water Treatment Plant at (419) 884 – 3310. Our address is 2010 S. Lexington Springmill Rd. Mansfield OH 44904. We will be pleased to answer your questions.