

Annual Drinking Water Quality Report

Medford Township Utility Department

For the Year 2025, Results from the Year 2024

Landlords must distribute this information to every tenant as soon as practicable, but no later than three business days after receipt. Delivery must be done by hand, mail, or email, and by posting the information in a prominent location at the entrance of each rental premises, pursuant to section 3 of P.L. 2021, c. 82 (C.58:12A-12.4 et seq).

We are pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our 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 to protect our water resources.

Our Drinking Water sources include groundwater wells and water purchased from New Jersey American Water (NJAW). Our eight active wells draw groundwater from the Upper Potomac-Raritan-Magothy (PRM) Aquifer System and the Mount Laurel-Wenonah (MLW) Aquifer System. The NJDEP strictly regulates the volume of water that can be pumped from the PRM and MLW aquifers because they are being depleted at a faster rate than they are replenished. To supplement our water supply, Medford Township purchases water from NJAW. NJAW's sources include nine active wells that draw groundwater from the Upper & Lower PRM Aquifer System and surface water treated at the Delaware River Regional Treatment Plant. Our groundwater is treated with an iron-sequestering agent and chlorine disinfection. Fluoride is not added to our drinking water system.

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.

The Medford Township Utility Department and NJAW routinely monitor for contaminants in your drinking water according to Federal and State laws. The table below shows the results of our monitoring for the period of January 1st to December 31st 2024. The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, may be more than one year old. The Safe Drinking Water Act regulations allow monitoring waivers to reduce or eliminate the monitoring requirements for asbestos and synthetic organic chemicals (SOCs). Our system received a monitoring waiver for asbestos for the current compliance period and has applied for and expects to receive a waiver for SOC. Medford Township received an SOC waiver for the previous compliance period. NJAW also received a monitoring waiver for asbestos and expects to receive one for SOC.

Definitions:

In the "Test Results" tables you may find some terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following 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 - 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 - 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 (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 contamination.

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.

Non-Detects (ND) - laboratory analysis indicates that the contaminant 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 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 nanogram per liter - one part per trillion corresponds to one minute in 20,000 years, or a single penny in \$100,000,000.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Recommended Upper Limit (RUL) - Recommended maximum concentration of secondary contaminants. These reflect aesthetic qualities such as odor, taste or appearance. RUL's are recommendations, not mandates.

Secondary Contaminant - Substances that do not have an impact on health. Secondary Contaminants affect aesthetic qualities such as odor, taste or appearance. Secondary standards are recommendations, not mandates.

Total Organic Carbon (TOC) - NJAW is required to remove a certain percentage of TOC from their drinking water on a monthly basis. Total Organic Carbon has no adverse health effects. However, TOC provides a medium for the formation of disinfection byproducts.

Treatment Technique - A required process intended to reduce the level of a contaminant in drinking water.

Turbidity - A measure of the particulate matter or "cloudiness" of the water. High turbidity can hinder the effectiveness of disinfectants.

If you have questions about this report or concerning your water utility, please contact us at 609-654-6791. 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 Township Meetings. Times and dates for those Meetings are posted in the Township's Calendar at www.medfordtownship.com.

The Medford Township Utility Department works around the clock to provide you with top quality drinking water. We ask our customers and residents to help us protect our water sources, which are the heart of our community, our way of life, and our children's future.

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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

TABLES OF DETECTED CONTAMINANTS

The table below shows the contaminants that were detected in our water system. Our system is supplied by a combination of water from the Township's wells and treated water purchased from NJAW. The tables on the next page show contaminants that NJAW has detected in their systems that provide water for Medford Township's system, but these samples were not collected in Medford's system.

Medford Township Utility Department Test Results PWSID # NJ0320001						
Contaminant	Violation Y/N	Level Detected	Units of Measure- ment	MCLG	MCL	Likely Source of Contamination
Radioactive Contaminants:						
Gross Alpha Test results Yr. 2020 & 2023	N	Range = ND – 4.0 Highest detect = 4.0	pCi/l	0	15	Erosion of natural deposits
Combined Radium Test results Yr. 2020 & 2023	N	Range = ND – 5.2 Highest detect = 5.2	pCi/l	0	5	Erosion of natural deposits
Inorganic Contaminants:						
Barium Test results Yr. 2020 & 2023	N	Range = 0.011 – 0.152 Highest detect = 0.152	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Copper Test results Yr. 2023	N	90 th Percentile = 0.24 Range = 0.032 – 0.28 No samples exceeded the action level	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Cyanide Test results Yr. 2020 & 2023	N	Range= ND – 44 Highest detect = 44	ppb	200	200	Discharge from steel / metal factories; Discharge from plastic and fertilizer factories
Fluoride Test results Yr. 2020 & 2023	N	Range = ND – 0.158 Highest detect = 0.158	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Lead Test results Yr. 2023	N	90 th Percentile = 0.00 Range = ND – 1.3 No samples exceeded the action level	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Nickel Test results Yr. 2020 & 2023	N	Range = ND – 0.01 Highest detect = 0.01	ppm	N/A	No MCL	Erosion of natural deposits.
Nitrate-Nitrite Test results Yr. 2021 & 2023	N	Range = ND – 0.0663 Highest detect = 0.0663	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Contaminant	Violation Y/N	Level Detected	Units of Measure- ment	MCLG	MCL	Likely Source of Contamination
Disinfection Byproducts:						
TTHM Total Trihalomethanes Test results Yr. 2024	N	Range = 0.59 – 22.10 Highest LRAA = 14.73	ppb	N/A	80	By-product of drinking water disinfection
HAA5 Haloacetic Acids Test results Yr. 2024	N	Range = 0 – 8.0 Highest LRAA = 4.18	ppb	N/A	60	By-product of drinking water disinfection
Regulated Disinfectants		Level Detected	MRDL	MRDLG		Likely Source
Chlorine Test results Yr. 2024		Range = 0.2 – 0.96 ppm Average = 0.34 ppm	4.0 ppm	4.0 ppm		Water additive used to control microbes

Note: Test results are from the most recent sampling, some of which occurred before 2024. Select tests need to be sampled less than annually. Test results include data from 2020 and 2021 for one well that was out of service during 2023.

New Jersey American Water – Mount Holly System Test Results PWSID # NJ0323001						
Contaminant	Violation Y/N	Level Detected	Units of Measure - ment	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants						
Barium Test results Yr. 2023	N	Range = NA Highest detect = 0.1	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Gross Alpha (pCi/L) Test results Yr. 2023	N	Range = ND – 3.53 Highest detect = 3.53	pCi/L	0	15	Erosion of Natural Deposits
Combined Radium (226 & 228) Test results Yr. 2023	N	Range = ND – 1.08 Highest detect = 1.08	pCi/L	0	5	Erosion of Natural Deposits

New Jersey American Water – Delaware River Regional Water Treatment Plant PWSID # NJ0327001							
Disinfectants – Collected at the Surface Water Treatment Plant							
Substance	Violation (Y/N)	MRDL G	MRDL	Minimum Chlorine Residual	Lowest Detected	Range Detected	Typical Source
Entry Point Chlorine Residual (ppm) Yr 2024	N	4	4	TT ≥ 0.20	0.74 ¹	0.74-1.18	Water additive used to control microbes.
Treatment Byproducts Precursor Removal – Collected at the Treatment Plant							
Substance	Violation (Y/N)	MCLG	MCL	Range of Removal Achieved		Quarters Out of Compliance	Typical Source
TOC – Total Organic Carbon (mg/L) Yr 2024	N	NA	TT ≥ 35% Removal	37.6% - 58.5%		0	Naturally present in the environment.
Actual / Required TOC Removal (Ratio) 2024	N	NA	TT: Running Annual Avg ≥ 1.0	1.07 – 1.67		0	Naturally present in the environment.
Turbidity – Continuous Monitoring at the Treatment Plant							
Substance	Violation (Y/N)	MCLG	MCL	Highest Single Measurements and Lowest Monthly % of Samples < 0.3 NTU		Sample Date of Highest Result	Typical Source
Turbidity (NTU) ² Yr 2024	N	0	TT: Single result > 1 NTU	Highest Single Measurement: <0.1		NA	Soil Runoff
	N	NA	TT: At least 95% of samples ≤ 0.3 NTU	100% of Samples ≤ 0.3 NTU		NA	Soil Runoff
Other Regulated Substances – Collected at the Treatment Plant							
Substance	Violation (Y/N)	MCLG	MCL/SMCL	Highest Compliance Result	Range Detected	Typical Source	
Nitrate (ppm) Yr 2024	N	5	10	0.79	NA	Runoff from fertilizer use; industrial or domestic wastewater discharges, erosion of natural deposits	
Bromate (ppm) Yr 2024	N	0	10	0.006	NA	Disinfection byproduct.	
Perfluorooctanoic Acid – PFOA (ppt) ^{3,4} Yr 2024	N	0	14	3.9	ND to 3.9	Discharge from industrial, chemical, and manufacturing factories, release of aqueous film forming foam.	
Perfluorooctanesulfonic Acid - PFOS (ppt) ^{3,4} 2024	N	0	13	3.7	ND to 3.7	Discharge from industrial, chemical factories, release of aqueous film forming foam.	

¹ Data represents the lowest residual entering the distribution system from our water treatment plant.

² 100% of the turbidity readings were below the treatment technique requirement of 0.3 NTU. Turbidity is a measure of cloudiness of the water. We monitor turbidity because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants.

³ PFAS chemicals are unique, so two PFAS chemicals at the same level typically do not present the same risk. Therefore, you should not compare the results for one PFAS chemical against the results of another.

⁴ For more information on the U.S. EPA's proposed PFAS drinking water standards, including the Hazard Index, please visit <https://www.epa.gov/pfas>

Source Water Assessment Summary

The New Jersey Department of Environmental Protection (NJDEP) has completed and issued the Source Water Assessment Report and Summary for this public water system, which is available at <http://www.nj.gov/dep/watersupply/swap/index.html> or by contacting NJDEP's Bureau of Safe Drinking Water at (609) 292-5550 or watersupply@dep.nj.gov. You may also contact your public water system. Medford Township Utility Department's Source Water Assessment Summary is included here.

The table below illustrates the susceptibility ratings for the seven contaminant categories (and radon) for each source in the system. The table provides the number of wells that rated high (H), medium (M), or low (L) for each contaminant category. The seven contaminant categories are defined below. For susceptibility ratings of purchased water, refer to the specific water system's source water assessment report.

If a system is rated highly susceptible for a contaminant category, it does not mean a customer is or will be consuming contaminated drinking water. The rating reflects the potential for contamination of source water, not the existence of contamination. Public water systems are required to monitor for regulated contaminants and to install treatment if any contaminants are detected at frequencies and concentrations above allowable levels. As a result of the assessments, DEP may customize (change existing) monitoring schedules based on the susceptibility ratings.

Pathogens: Disease-causing organisms such as bacteria and viruses. Common sources are animal and human fecal wastes.

Nutrients: Compounds, minerals, and elements that aid growth, that are both naturally occurring and man-made. Examples include nitrogen and phosphorus.

Volatile Organic Compounds: Man-made chemicals used as solvents, degreasers, and gasoline components. Examples include benzene, methyl tertiary butyl ether (MTBE), and vinyl chloride.

Pesticides: Man-made chemicals used to control pests, weeds, and fungus. Common sources include land application and manufacturing centers of pesticides. Examples include herbicides such as atrazine, and insecticides such as chlordane.

Inorganics: Mineral-based compounds that are both naturally occurring and man-made. Examples include arsenic, asbestos, copper, lead, and nitrate.

Radionuclides: Radioactive substances that are both naturally occurring and man-made. Examples include radium and uranium.

Radon: Colorless, odorless, cancer-causing gas that occurs naturally in the environment. For more information go to <http://www.nj.gov/dep/rpp/radon/index.htm> or call (800) 648-0394.

Disinfection Byproduct Precursors: A common source is naturally occurring organic matter in surface water. Disinfection byproducts are formed when the disinfectants (usually chlorine) used to kill pathogens react with dissolved organic material (for example leaves) present in surface water.

Medford Township Utility Department Source Water Assessment Summary - PWSID # NJ0320001

The Medford Township Utility Department is a public community water system consisting of 8 active wells.

This system's source water comes from the following aquifers: Upper Potomac-Raritan-Magothy Aquifer System and the Mount Laurel-Wenonah Aquifer System.

This system purchases water from the following water system: New Jersey American Water – Mount Holly System

Susceptibility Ratings for Medford Township Utility Department Sources

	Pathogens			Nutrients			Pesticides			Volatile Organic Compounds			Inorganics			Radionuclides			Radon			Disinfection Byproduct Precursors		
Sources	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L
Wells – 8			8			8			8			8		4	4		4	4		4	4		8	

Drinking Water Sources

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 the source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater 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 stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

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. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

IMPORTANT INFORMATION ABOUT OUR DRINKING WATER

Unregulated Contaminants for Which EPA Required Monitoring

The Medford Township Utility Department and New Jersey American Water participated in the fifth round of the Unregulated Contaminant Monitoring Rule (UCMR5) in 2024. Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist the EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. UCMR5 included monitoring for 29 per- and polyfluoroalkyl substances (PFAS) and lithium. The substances that were detected in Medford or New Jersey American Water's systems are listed below. More information regarding the UCMR5 program, the substances tested, and the results of the testing can be found on the EPA's UCMR5 website: <https://www.epa.gov/dwucmr/fifth-unregulated-contaminant-monitoring-rule> or by contacting us at 609-654-6791.

Medford Township Utility Department UCMR5 Results PSWID #NJ0320001					
Substance	Year Sampled	Range Detected (ppt)	Average Value (ppt)	MCL (ppt)	Typical Source
Medford Township Utility Department Test Results PSWID #NJ0320001					
1H,1H,2H,2H-perfluorooctane sulfonic acid (6:2 FTS)	2024	ND – 6.3	0.35	NA	The breakdown of fluoropolymer coatings like stain-resistant textiles, food packaging, and non-stick cookware

New Jersey American Water – Mount Holly System UCMR5 Results PSWID #NJ0323001					
Substance	Year Sampled	Range Detected (ppt)	Average Value (ppt)	US EPA MCL Effective 2029 (ppt)	Typical Source
Perfluoropentanoic acid (PFPeA)	2024	ND – 5.1	2.28	NA	The breakdown of fluoropolymer coatings like stain-resistant textiles, food packaging, and non-stick cookware
Perfluorohexanoic acid (PFHxA)	2024	ND – 5.1	2.25	NA	
Perfluorooctanoic acid (PFOA)	2024	ND – 4.8	1.2	14	
Perfluorooctanesulfonic acid (PFOS)	2024	ND – 4.2	0.105	13	

Information about Lead in Drinking Water

New Jersey's Lead Service Line Replacement Law was signed into law in July of 2021. The goal of this law is to identify and eliminate all lead and galvanized water service lines within 10 years. To comply with this law, Medford developed a Water Service Line Inventory, which is available on our website (www.medfordtownship.com/Utilities). If your service line material is listed as unknown in this inventory, please help us by taking a picture of your water meter and emailing it to us at waterservices@medfordtownship.com.

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. The Medford Township Utility Department is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact the Medford Township Utility Department at 609-654-6791. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

Call us at 609-654-6791 to find out how to get your water tested for lead. Testing is essential because you cannot see, taste, or smell lead in drinking water.

Drinking Water Sources

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 the source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater 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 stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

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. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.