

Este informe contiene informacion muy importante sobre su agua beber. Traduzcalo o hable con alguien que lo entienda bien.

## Quality on Tap Report

### The Borough of Woodbine Utilities Department

PWSID#

NJ0516001

#### For the Year 2022, Results from the Year 2021

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 constant goal is to provide you with a safe and dependable supply of drinking water. This report shows our water quality and what it means.

**If you are a landlord, you must distribute this Drinking Water Quality Report 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 NJ P.L. 2021, c.82 (C.58:12A-12.4 et seq.).**

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).

<b>TEST RESULTS</b>						
Contaminant:	Violation Y/N	Level Detected	Units of Measurement	MC LG	MCL	Likely Source of Contamination
<b>Radioactive Contaminants:</b>						
Gross Alpha Test Results Yr. 2021	N	3.5	pCi/l	0	15	Erosion of natural deposits
<b>Inorganic Contaminants:</b>						
Barium Test results Yr. 2021	N	0.08	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
<b>Copper Test results 1<sup>st</sup> ½ of 2021 Result at 90<sup>th</sup> Percentile</b>	<b>Y</b>	<b>1.75 4 samples out of 20 exceeded the action level</b>	<b>ppm</b>	<b>1.3</b>	<b>AL 1.3</b>	<b>Corrosion of household plumbing systems; erosion of natural deposits</b>
Copper Test results 2 <sup>nd</sup> ½ of 2021 Result at 90 <sup>th</sup> Percentile	N	0.96 1 sample out of 20 exceeded the action level	ppm	1.3	AL 1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead Test results 1 <sup>st</sup> ½ of 2021 Result at 90 <sup>th</sup> Percentile	N	3.2 1 sample out of 20 exceeded the action level	ppb	0	AL 15	Corrosion of household plumbing systems, erosion of natural deposits
Lead Test results 2 <sup>nd</sup> ½ of 2021 Result at 90 <sup>th</sup> Percentile	N	2.12 1 sample out of 20 exceeded the action level	ppb	0	AL 15	Corrosion of household plumbing systems, erosion of natural deposits
Nickel Test results Yr. 2021	N	3.92	ppb	N/A	N/A	Erosion of natural deposits
Nitrate (as Nitrogen) Test results Yr. 2021	N	0.28	ppm	10	10	Erosion of natural deposits
<b>PFAS Per- and Polyfluoroalkyl Substances:</b>						
PFOA Perfluorooctane Acid Test results Yr. 2021	N	Range = 4.4 – 4.9 Highest detect = 4.9	ppt	N/A	14	Used in the manufacture of fluoropolymers
PFOS Perfluorooctane Sulfonic Acid Test results Yr. 2021	N	Range = 4.0 – 4.4 Highest detect = 4.4	ppt	N/A	13	Used in the manufacture of fluoropolymers
<b>Regulated Disinfectants</b>	<b>Level Detected</b>	<b>MRDL</b>	<b>MRDLG</b>			
Chlorine Test results Yr. 2021	Range = 0.6 – 0.7 ppm Average = 0.7 ppm	4.0 ppm	4.0 ppm			

**Chlorine:** Water additive used to control microbes.

**We exceeded the Action Level (AL) for Copper the 1<sup>st</sup> half of 2021. Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor. We are working with NJDEP to correct this.**

The Borough of Woodbine Utilities Department routinely monitors for over 80 contaminants in your drinking water according to Federal and State laws. The table lists only detected contaminants and shows the results of our monitoring from January 1<sup>st</sup> to December 31<sup>st</sup>, 2021. 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, are more than one year old.

**For additional information:** If you have any questions about this report or concerning your water utility, please contact Jim Gurdgiel at 609-861-4541. 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 Borough Committee meetings.

**Our water source:** Our water source is wells. Our two wells draw groundwater from the Kirkwood Cohansey Aquifer System. 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 [www.state.nj.us/dep/swap](http://www.state.nj.us/dep/swap) or by contacting NJDEP's Bureau of Safe Drinking Water at (609) 292-5550. You may also contact your public water system to obtain information regarding your water system's Source Water Assessment. This water system's source water susceptibility ratings, and a list of potential contaminant sources is included.

**Potential sources of contamination:** 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:

- \* 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 storm water runoff, industrial or domestic wastewater discharges, oil and gas projection, mining, or farming.
- \* Pesticides and herbicides, which 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, 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.

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.

#### **Definitions:**

In the "Test Results" table 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:

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 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.

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

**Sources of Lead in Drinking Water**

The Borough of Woodbine Utilities Department is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. Although most lead exposure occurs from inhaling dust or from contaminated soil, or when children eat paint chips, the U.S. Environmental Protection Agency (USEPA) estimates that 10 to 20 percent of human exposure to lead may come from lead in drinking water. Infants who consume mostly mixed formula can receive 40 percent to 60 percent of their exposure to lead from drinking water. Lead is rarely found in the source of your drinking water but enters tap water through corrosion, or wearing away, of materials containing lead in the water distribution system and household plumbing materials. These materials include lead-based solder used to join copper pipes, brass, and chrome-brass faucets, and in some cases, service lines made of or lined with lead. New brass faucets, fittings, and valves, including those advertised as “lead-free”, may still contain a small percentage of lead, and contribute lead to drinking water. The law currently allows end-use brass fixtures, such as faucets, with up to 0.25 percent lead to be labeled as “lead free”. However, prior to January 4, 2014, “lead free” allowed up to 8 percent lead content of the wetted surfaces of plumbing products including those labeled National Sanitation Foundation (NSF) certified. Visit the NSF website at [www.nsf.org](http://www.nsf.org) to learn more about lead-containing plumbing fixtures. Consumers should be aware of this when choosing fixtures and take appropriate precautions. When water stands in lead service lines, lead pipes, or plumbing systems containing lead for several hours or more, the lead may dissolve into your drinking water. This means the first water drawn from the tap in the morning, or later in the afternoon if the water has not been used all day, can contain fairly high levels of lead. Please call 609-861-4541 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.

**Health Effects of Lead**

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother’s bones, which may affect brain development. Contact your local health department or healthcare provider to find out how you can get your child tested for lead if you are concerned about lead exposure. You can find out more about how to get your child tested and how to pay for it at <https://www.state.nj.us/health/childhoodlead/testing.shtml>.

**In July 2021, P.L.2021, Ch.183 (Law) was enacted, requiring all community water systems to replace lead service lines in their service area within 10 years. Under the law, the Borough of Woodbine Utilities Department is required to notify customers, non-paying consumers, and any off-site owner of a property (e.g., landlord) when it is known they are served by a lead service line\*. Our service line inventory is available upon request.**

**Waivers:** The Safe Drinking Water Act regulations allow monitoring waivers to reduce or eliminate the monitoring requirements for asbestos, volatile organic chemicals and synthetic organic chemicals. Our system received a monitoring waiver synthetic organic contaminants.

**The Borough of Woodbine Utilities Department - PWSID # NJ0516001**

Woodbine MUA is a public community water system consisting of 2 wells.

This system’s source water comes from the following aquifer: Kirkwood-Cohansey Watertable Aquifer System

**Susceptibility Ratings for the Borough of Woodbine Utilities Department Sources**

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 and intakes that rated high (H), medium (M), or low (L) for each contaminant category. For susceptibility ratings of purchased water, refer to the specific water system’s source water assessment report.

The seven contaminant categories are defined at the bottom of this page. DEP considered all surface water highly susceptible to pathogens, therefore all intakes received a high rating for the pathogen category. For the purpose of Source Water Assessment Program, radionuclides are more of a concern for ground water than surface water. As a result, surface water intakes’ susceptibility to radionuclides was not determined and they all received a low rating.

**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.

Sources	Pathogens			Nutrients			Pesticides			Volatile Organic Compounds			Inorganics			Radionuclides			Radon			Disinfection Byproduct Precursors			
	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 - 2			2	2				1	1	2			2			2				2			2		

**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.

**Special Notice:**

All Water systems must provide a notice of the individual tap results from Lead Tap Monitoring to the persons served by the water system at the specific sampling site from which the sample was taken. This notice must be provided no later than 30 days after learning of the tap monitoring results. We sampled in June and December of 2021, but we were late with these notices.

### **IMPORTANT INFORMATION ABOUT OUR DRINKING WATER**

#### **The Borough of Woodbine Utilities Department Monitored Late for Haloacetic Acids (HAA5s) & Trihalomethanes (TTHMs) in 2021**

Our water system recently violated a drinking water standard. Although this was not emergency, as our customers you have a right to know what happened. 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 the drinking water meets health standards.

We inadvertently monitored late for the Disinfection Byproducts - Haloacetic Acids (HAA5s) & Trihalomethanes (TTHMs) in 2021. We are required to monitor in July of any given year, but we monitored in August. The results of that monitoring are reflected in the (Test Results) tables. All results were in compliance.

**Total Trihalomethanes (TTHMs) & Haloacetic Acids (HAA5s):** Some people who drink water containing Total Trihalomethanes (TTHMs) & Haloacetic Acids (HAA5s) 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.

**We at the Borough of Woodbine Utilities Department work hard 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. Please call our office if you have questions.**