

Twin Brook Manor Annual Drinking Water Quality Report for 2024

Public Water Supply # 3921641

Twin Brook Manor HOA, c/o Katonah Management Services
334 Underhill Avenue, Suite 5D, Yorktown Heights, NY 10598

INTRODUCTION

To comply with State and Federal regulations, Twin Brook Manor annually issues a report describing the quality of your drinking water. The purpose of this report is to raise your understanding of drinking water and awareness of the need to protect our drinking water sources. Last year, we conducted tests for over 97 contaminants. We detected 14 of those contaminants and found only sodium detected at a level higher than the State allows for individuals on severely restricted sodium diets. For this reason, sodium sampling will continue quarterly. Included are details about where your water comes from, what it contains, and how it compares to State standards.

If you have any questions about this report or concerning your drinking water, please contact:

John Muro II, President of Allied Pollution Control, Inc. at (845) 878-0007 or,
Twin Brook Manor HOA at the address listed above.

If you want to learn more about your water supply, please contact the Homeowner's Association to attend a scheduled board meeting.

WHERE DOES OUR WATER COME FROM?

In general, 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 can pick up substances resulting from the presence of animals or from human activities. Contaminants that may be present in source water include: microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants. In order to ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The State Health Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water source is groundwater drawn from two drilled wells located within the property boundaries of the community. The water is pumped from the wells to a 10,000 gallon storage tank. The well water is disinfected with sodium hypochlorite as it is transferred to the storage tank. Our water system has 40 service connections.

The NYSDOH has completed a source water assessment for this system, based on available information. Possible and actual threats to the drinking water sources were evaluated. The state source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how easily contaminants can move through the subsurface to the wells. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is, or will become contaminated. See section "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected. The source water assessments provide resource managers with additional information for protecting source waters into the future.

The drinking water is derived from 2 drilled wells. The source water assessment has rated well 1 as having a medium to high susceptibility to microbials, nitrates, halogenated solvents, petroleum products, pesticides, herbicides, metals, and other industrial organics. Well 2 has a medium to high susceptibility microbials and nitrates. These ratings are due primarily to the close proximity of permitted wastewater discharge facilities, and associated activity in the assessment area. The wells draw from fractured bedrock and the overlying soils are not known to provide adequate protection from potential contamination.

Please note that the drinking water is disinfected to ensure that the finished water delivered to you meets the New York State drinking water standards for microbial contamination.

County and state health departments will use this information to direct future source water protection activities. These may include water quality monitoring, resource management, planning, and education programs. A copy of the assessment, including a map of the assessment area, can be obtained by contacting your water supplier or the Putnam County Health Department.

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

As the State regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include: total coliform, turbidity, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, total trihalomethanes, haloacetic acids, radiological and synthetic organic compounds. The table presented below depicts which compounds were detected in your drinking water. The State allows us to test 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.

It should be noted that all drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791) or the Putnam County Health Department at (845) 808-1390.

TABLE OF DETECTED CONTAMINANTS							
Contaminant	Violation (Yes/No)	Sample Date	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Radiologicals							
Beta particle and photon activity from manmade radionuclides Well #2	No	2/9/2023	25.0	pCi/l	0	*50	Decay of natural deposits and man-made emissions.
Uranium Well #1	No	2/9/2023	1.4	ug/l	0	30	Erosion of natural deposits.
Well #2	No	2/9/2023	3.7				
Disinfection Byproducts							
Trihalomethanes							
Total Trihalomethanes (TTHM) *1	No	8/5/2024	10.04 (10.00-10.04)	ug/l	N/A	80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
Inorganic Contaminants							
Beryllium	No	2/9/2023	0.3	ug/l	4	4	Discharge from metal refineries and coil-burning factories; Discharge from electrical, aerospace, and defense industries.
Chloride	No	2/9/2023	160	mg/l	N/A	250	Naturally occurring or indicative of road salt contamination.
Hardness	No	2024	0.3 *2 (0.2 – 0.7)	mg/L	N/A	N/A	Naturally occurring.
Iron	No	2/9/2023	23	ug/l	N/A	300	Naturally occurring.
Nitrate as Nitrogen	No	2/15/2024	3.12	mg/l	10	10	Runoff from fertilizer use; leaching from septic tanks, erosion of natural deposits.
Sodium *3	No	Quarterly 2024	174 (171 – 177)	mg/l	N/A	*see below	Naturally occurring; road salt, water softeners.
Sulfate	No	2/9/2023	23.2	mg/l	N/A	250	Naturally occurring.
Zinc	No	2/9/2023	0.002	mg/l	N/A	5	Naturally occurring; Mining waste.
Synthetic Organic Compounds *4 *5							
Perfluorooctanoic acid - (PFOA)	No	Quarterly 2024	3.96 (2.98– 4.85)	ng/l	N/A	10	Released into the environment from widespread use in commercial and industrial applications.
Perfluorooctanesulfonic acid - (PFOS)	No	Quarterly 2024	3.74 (2.54 – 4.65)	ng/l	N/A	10	Released into the environment from widespread use in commercial and industrial applications.

Lead and Copper Information									
Contaminant	Violation (Yes/No)	Date of Sample	Level Detected (90 th Percentile Value Range)	Unit Measurement	Regulatory Limit (AL)	MCLG	Number of Samples Taken	Number of Exceedances	Likely Source of Contamination
Lead ^{*6}	No	August 2024	2 (<1.0 – 2.7)	ug/L	15	0	5	0	Corrosion of household plumbing systems and service lines connecting building to water mains, erosion of natural deposits.
Copper ^{*7}	No	August 2024	0.2 (0.017-0.258)	mg/L	1.3	1.3	5	0	Corrosion of household plumbing systems, erosion of natural deposits; leaching from wood preservatives.

TABLE OF UNREGULATED DETECTED PERFLUOROALKYL SUBSTANCES							
Contaminant	Violation (Yes/No)	Sample Date	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG or Health Advisory Level ^{*8}	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Unspecified Organic Compounds ^{*9 *10}							
Perfluorobutanesulfuric acid - (PFBS)	No	Quarterly 2024	1.45 (ND – 3.40)	ng/l	2,000	N/A	Released into the environment from widespread use in commercial and industrial applications.
Perfluoroheptanoic acid-(PFHpA)	No	Quarterly 2024	0.35 (ND – 1.40)	ng/l	N/A	N/A	Released into the environment from widespread use in commercial and industrial applications.
Perfluorohexanesulfonic acid- (PFHxA)	No	Quarterly 2024	0.66 (ND – 2.63)	ng/l	N/A	N/A	Released into the environment from widespread use in commercial and industrial applications.

Notes:

*50 – The State considers 50 pCi/l to be the level of concern for beta particles.

*1 – During 2024 we collected and analyzed samples at two locations for Trihalomethanes. The level presented in the table above represents the highest detected level and the range of the sites tested.

*2 - The level presented in the table above represents the average of the detected water hardness levels and the range of the sites tested in 2024.

*3 - Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l sodium should not be used for drinking by people on moderately restricted sodium diets. The level of sodium detected showed that the NYS DOH guideline for sodium was exceeded. For this reason, the Putnam County Health Department has required that sodium be sampled quarterly until further notice.

*4 - PFOA and PFOS are part of a larger group of chemicals referred to as perfluoroalkyl substances (PFASs). PFAS are manmade chemicals that have been widely used in various consumer, commercial, and industrial products since the 1950s. These chemicals' unique properties make them resistant to heat, oil, stains, grease, and water and useful in a wide variety of everyday products. One of the PFAS' was widely used in fire-fighting foam. On August 26, 2020, New York State adopted new drinking water standards for public water systems that set maximum contaminant levels (MCLs) of 10 parts per trillion (10 ppt) each for perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS), and 1 part per billion (1 ppb) for 1,4-dioxane.

PFOA and PFOS have caused a wide range of health effects when studied in animals that were exposed to high levels. The most consistent findings in animals were effects on the liver and immune system and impaired fetal growth and development. PFOA and PFOS also cause cancer in laboratory animals exposed to high levels over their lifetimes. Additional studies of exposures PFOA and PFOS in people provide evidence that some of the health effects seen in animals may also occur in humans.

*5 - The level presented in the table above represents the locational running annual average of the detected levels and the range of detected values in 2024.

*6– The level presented represents the 90th percentile of the 5 sites tested. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the copper values detected at your water system. In August 2024, 5 samples were collected at your water system and the 90th percentile value was the average of the two highest samples which equaled 2 ug/l. The action level for lead was not exceeded at any of the sites tested.

*7 – The level presented represents the 90th percentile of the 5 sites tested. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the copper values detected at your water system. In August 2024, 5 samples were collected at your water system and the 90th percentile value was the average of the two highest samples which equaled 0.2 mg/l. The action level for copper was not exceeded at any of the sites tested.

*8 - USEPA Health Advisory Levels identify the concentration of a contaminant in drinking water at which adverse health effects and/or aesthetic effects are not anticipated to occur over specific exposure durations. Health Advisory Levels are not to be construed as legally enforceable federal standards and are subject to change as new information becomes available.

*9- All perfluoroalkyl substances, besides PFOA and PFOS, are considered Unspecified Organic Contaminants (UOC).

*10 – The levels presented in the table above represent the locational running annual average of the detected UOC's and the range of values in 2024.

Definitions:

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.

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 (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.

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

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

Milligrams per liter (mg/l): Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

Micrograms per liter (ug/l): Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

Picocuries per liter (pCi/L): A measure of the radioactivity in water.

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

Million Fibers per Liter (MFL): A measure of the presence of asbestos fibers that are longer than 10 micrometers.

Locational Running Annual Average (LRAA): The arithmetic average of analytical results for samples taken at a specific monitoring location during the previous four calendar quarters.

Nanograms per liter (ng/l): Corresponds to one part of liquid in one trillion parts of liquid (parts per trillion - ppt).

WHAT DOES THIS INFORMATION MEAN?

As you can see by the table, our system had no violations. We have learned through our testing that some contaminants have been detected; however, with the exception of sodium, these contaminants were detected below the level allowed by the State. Sodium was found at a level higher than the State recommends for individuals on a severely restricted sodium diet. As per the Putnam County Department of Health we are taking the following steps to address the issue:

Sodium: During 2025, we will continue to monitor the level of sodium in the drinking water by collecting samples on a quarterly basis. Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l sodium should not be used for drinking by people on moderately restricted sodium diets.

Although lead was detected below the action level, it was detected, therefore we are required to present the following information on lead in drinking water:

Lead can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. The Twin Brook Manor water supply is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter, certified by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes for a longer period. If you are concerned about lead in your water and wish to have your water tested, contact the Twin Brook Manor HOA c/o Katonah Management Services. 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>.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2024, our system was in compliance with all applicable State drinking water operating, monitoring and reporting requirements.

INFORMATION ON LEAD SERVICE LINE INVENTORY

A Lead Service Line (LSL) is defined as any portion of pipe that is made of lead which connects the water main to the building inlet. An LSL may be owned by the water system, owned by the property owner, or both. In accordance with the federal Lead and Copper Rule Revisions (LCRR) our system has prepared a lead service line inventory and have made it publicly accessible by contacting the Twin Brook Manor HOA c/o Katonah Management Services.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Although our drinking water met or exceeded state and federal regulations, some people may be more vulnerable to disease causing microorganisms or pathogens 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 from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

WHY SAVE WATER AND HOW TO AVOID WASTING IT?

Although our system has an adequate amount of water to meet present demands, there are a number of reasons why it is important to conserve water:

- ♦ Saving water saves energy and some of the costs associated with both of these necessities of life;
- ♦ Saving water reduces the cost of energy required to pump water and the need to construct costly new wells, pumping systems and water towers; and
- ♦ Saving water lessens the strain on the water system during a dry spell or drought, helping to avoid severe water use restrictions.

You can play a role in conserving water by becoming conscious of the amount of water your household is using, and by looking for ways to use less whenever you can. It is not hard to conserve water. Conservation tips include:

- ♦ Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So get a run for your money and load it to capacity.
- ♦ Turn off the tap when brushing your teeth.
- ♦ Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it up and you can save almost 6,000 gallons per year.
- ♦ Check your toilets for leaks by putting a few drops of food coloring in the tank, watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from one of these otherwise invisible toilet leaks. Fix it and you save more than 30,000 gallons a year.
- ♦ Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances, then check the meter after 15 minutes. If it moved, you have a leak.

CROSS CONNECTION CONTROL INFORMATION

Cross-connections are any linkage through which contaminants could possibly enter a water supply. The contaminant enters the water system typically by back siphonage when a loss in pressure in the water system siphons contaminants into the distribution system through a submerged inlet. While in a residential water system like ours, such contamination is relatively rare, it is important for all users to understand how cross-connections can occur, your obligation as users to avoid them, and how to prevent contamination from any cross-connections.

Some examples are useful to clarify the situations under which cross-connection contamination might occur. One example is someone using a hose to fill a container of pesticide or weed-killer who left the hose under the surface of the liquid. If a sufficient drop in water pressure from the supply line occurred, it is possible that the pesticide would travel back up the hose and into the house water supply. Another example is if antifreeze is put into the pipes while a house is vacant. If there was a drop in pressure outside the house, it is possible that the antifreeze would drain out of the house and into the public water lines. A private well connected to the plumbing system served by public water is another example of a cross-connection. Such a connection is not permitted unless the public system is protected by an appropriate backflow preventer. Other examples could involve other chemical pollutants, such as photography chemicals, and "used" water, such as bathtubs with a spigot (or a detachable spray handle) which is under the level of the water in the tub.

The first defense is knowledge and common sense. Once you know that cross-connection contamination can occur, you can prevent it. Always be very careful in your use of chemicals, and always have an air gap between a filler hose or spigot and the level of liquid in a container.

If you have cross-connections in your plumbing system, you must have a containment device between your house pipes and the water system. The EPA indicates that a dual check valve supplies reliable and inexpensive protection for individual residences. All hose bibs should have vacuum breakers. Installing these devices is the responsibility of the homeowners and would be done at their expense.

CLOSING

Thank you for allowing us to continue to provide your family with quality drinking water this year. 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.

This report was compiled and prepared by your water system operator:

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