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## VILLAGE OF WARWICK

INCORPORATED 1867

May 7, 2024

Dear Village of Warwick Water User,

The Village of Warwick has significant and valuable water resources. The Village maintains three reservoirs and two wells. The reservoirs are fed by natural run-off, mountain streams and springs. The wells tap into a large aquifer which stretches from Memorial Park to points beyond the eastern boundary of the Village as far as Wickham Lake, a substantial recharge area.

Each of the resources are connected to a purification system, the reservoirs to the Main Water Plant and Well #2 to a state of the art Microfiltration Plant.

This year the Village will be engaged in two major projects, the redevelopment of Well #3 and the moving of the Maple Avenue Pump Station. Well #3 has been offline for many years as it was found under the influence of surface water. Bringing the Well back online will allow for enhanced redundancy and drought resiliency. The move of the Maple Avenue Pump Station will allow for the redevelopment of the intersection of Colonial and Maple Avenue by the NY State Department of Transportation. Both projects have been awarded grants totaling \$1,210,000.

The distribution system encompasses the entire Village and includes six storage tanks, six pump stations and 45 miles of water mains which includes fire hydrants.

The following report will give you direct information about your water. It is a thorough accounting of levels of found contaminants and purification methods. Please take a moment to review this report. It has vital information about one of our most precious resources.

The Village of Warwick is dedicated to the continued upgrades and repairs of its water system. The purity of our water and the safe management of our water systems has and remains our priority.

Thank you,

Michael J. Newhard  
Mayor

**Annual Drinking Water Quality Report for 2023**  
**Village of Warwick**  
**77 Main Street**  
**Warwick, N.Y. 10990**  
**(Public Water Supply ID# 3503561)**

## **INFORMACIÓN PARA RESIDENTS QUE NO HABLAN INGLÉS**

### **Español**

Este informe contiene información muy importante sobre el agua potable. Este informe se puede ver en español en el sitio web de el Pueblo de Warwick <http://www.villageofwarwick.org>

## **INTRODUCTION**

To comply with State and Federal regulations, the Village of Warwick annually issues a report describing the quality of your drinking water. The purpose of this report is to raise your understanding and awareness of the need to protect our drinking water sources. Last year, your tap water met all State drinking water health standards. We are proud to report that our system did not violate a maximum contaminant level or any other water quality standard. The Village received one violation for a sampling event in the First Quarter 2023 where the sample for Disinfection Byproducts was taken at an incorrect location. Included in the report are details about where your water comes from, what it contains, and how it compares to state and federal standards.

If you have any questions, concerns or suggestions regarding your drinking water or this report, please consult the Village website [www.villageofwarwick.org](http://www.villageofwarwick.org). If you need further information contact Cathy Schweizer, Village DPW office at (845) 986-2031 ext. 110, between the hours of 8:30 am and 4:00 p.m. Monday through Friday. The Village wants you to be informed about your drinking water. If you want to learn more, please attend or view online any of the regularly scheduled Village Board meetings. These meetings are normally held on the first and third Monday of each month. The meetings can be viewed live or recorded and can be accessed by going to the Village of Warwick website <https://villageofwarwick.org>

## **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, in some cases, radioactive material, 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 concentration of certain contaminants in water provided by public water systems. The New York State Department of Health (NYSDOH) and the FDA regulations establish limits for contaminants in bottled water, which are required to provide the same protection for public health.

### **Reservoir Filtration Plant (a.k.a. RWTP)**

Our main surface water source is the Village of Warwick's three reservoirs located on Village owned property north of Black Rock Road in the Town of Warwick. The water from these reservoirs is gravity fed into the Reservoir Filtration Plant where it is treated with Sodium Permanganate for taste and odor control, treated with a PacI coagulant, then filtered to remove particulate matter; it is then chlorinated to destroy microorganisms prior to entering the distribution system. The plant injects Orthophosphate into the treated water to sequester iron and manganese, which can cause discoloration of the water without this treatment.

### **Well #1**

Well #1 is in Memorial Park and is a small supply source that has not been in service for many years primarily because it is hydraulically connected to Well #2.

### **Well #2 / Microfiltration Plant (a.k.a. MWTP)**

Well #2 is a substantial supply, which supplies the new Microfiltration Plant. Both are in Memorial Park. This plant is a membrane filter system with a rated capacity to treat 1,000,000 gallons per day. This facility went into service in April 2012. The plant has been producing water of outstanding quality from a source that previously had no filtration and was

determined to be Groundwater Under Direct Influence (GWUDI) of surface water. Chlorine for disinfection and Orthophosphate for sequestering are the only chemicals added to the water at this plant.

### Well # 3

Well #3 is a backup source and is located north of Route17A at the east end of the Village. Well #3 has been offline since May 2<sup>nd</sup>, 2012 shortly after the Microfiltration Plant came online on April 30<sup>th</sup>, 2012. In the past when Well #3 was used, the water was disinfected with chlorine to destroy microorganisms prior to entering the distribution system. The water from Well #3 has been determined to be Groundwater Under Direct Influence (GWUDI) of surface water, which requires treatment by filtration. Because of this determination, this supply, currently without filtration, would only be used in a very limited fashion, generally during emergency situations. Were the well to be used without filtration the Village would issue a Boil Water Order for its customers. The Village completed an engineering evaluation for a treatment system that will provide the ability to use the well as a safe water resource meeting State and Federal requirements. An engineering firm has prepared the final design and contract documents which were approved by the Orange County Health Department. It is expected that the filtration plant will be brought online in 2025.

## SOURCE WATER ASSESSMENT PROGRAM SUMMARY

The NYS DOH has evaluated this Public Drinking Water Sources (PWS)'s susceptibility to contamination under the Source Water Assessment Program (SWAP), and their findings are summarized in the paragraph below. It is important to stress that these assessments were created using available information and only estimate the potential for source water contamination. Elevated susceptibility ratings do not mean that source water contamination has or will occur for the PWS. This PWS provides treatment and regular monitoring to ensure the water delivered to consumers meets all applicable standards.

The assessment area for this drinking water source contains no discrete Potential Contaminant Sources (PCS)'s, and the amount of pastureland in the watershed results in this reservoir system having a high susceptibility to protozoa. However, the high mobility of microbial contaminants in reservoirs results in this drinking water intake also having medium-high susceptibility ratings for enteric bacteria and viruses. Furthermore, reservoirs are highly susceptible to water quality problems caused by phosphorus additions. A copy of this assessment, including a map of assessment area, can be obtained by contacting the Village of Warwick.

## FACTS AND FIGURES

Our water system serves approximately 6,767 people and numerous businesses through 2605 service connections. The highest single day production was 1,127,000 gallons, which occurred August 14, 2023. Village Usage includes public buildings, water main breaks, hydrant flushing, storage tank overflows, cemetery usage, park usage, wastewater treatment plant usage, firefighting and training, and Fire Department tanker filling. Unaccounted for water was 17.55% of the total amount of water produced. The unaccounted water can be attributed to undetected/unrepaired leaks, losses through under registering and failed meters and estimating accuracy.

<b>Water Use Figures</b>	2023	2022	2021	2020
Produced Annual (gallons)	214,873,000	235,841,000	234,194,000	216,872,000
Produced- Average Daily (gallons/day)	588,693	646,140	641,627	594,170
Produced Highest Single Day (gallons)	1,127,000	991,000	1,156,000	970,000
Metered Delivered Annual (gallons)	158,086,000	165,873,000	169,214,000	163,012,000
Village Usage- Metered and Unmetered (gallons)	15,872,850	8,759,500	19,814,000	12,155,500
Total Accountable Water (gallons)	173,958,850	174,632,500	189,028,000	175,167,500
Accountable Water Average Daily (gallons/day)	476,600	478,445	517,885	479,911
Unaccounted for Usage Annual	37,705,150	61,208,500	45,166,000	41,704,500
Percent Unaccounted Water (%)	17.55	25.95	19.29	19.23

<b>Village of Warwick Water Rates FY 2023-24</b>	Residential/ Commercial Customer In-Village	Industrial Customer In-Village	Residential/ Commercial Customer Outside Village	Industrial Customer Outside Village
Minimum Service Charge per Quarter	\$12.25	\$12.25	\$15.00	\$15.00
1000-25,000 gallons (per 1000 gallons)	\$6.38	\$10.91	\$16.26	\$20.80
26,000-75,000 gallons (per 1000 gallons)	\$7.93	\$10.91	\$18.03	\$20.80
Over 76,000 gallons (per 1000 gallons)	\$10.91	\$10.91	\$20.80	\$20.80

## 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 the results of that testing. 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, is more than one year old. It should be noted that all drinking water, including bottled drinking water, might be reasonably expected to contain 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 Orange County Health Department at (845-291-2331).

<b>Table of Detected Contaminants</b>							
<b>Contaminant</b>	<b>Violation Yes/No</b>	<b>Date of Sample</b>	<b>Level Detected</b>	<b>Unit Measure- ment</b>	<b>MCL G</b>	<b>Regulatory Limit (MCL, TT or AL)</b>	<b>Likely Source of Contamination</b>
Sulfate	No	4/05/2023	18.3	mg/l	250	MCL = 250	Naturally occurring
Nitrate	No	5/03/2023	Max=1.416 Range= 0.266 to 1.416	mg/l	10	MCL = 10	Runoff from fertilizer use.
Five Haloacetic Acids** (HAA5)	No	Quarterly	Max=30.7 Range= 4.3 to 32.0	ug/l	N/A	MCL = 60	By-product of drinking water disinfection needed to kill harmful organisms.
Total Trihalo- methanes** (TTHMs)	No	Quarterly	Max=39.2 Range= 5.5 to 52.0	ug/l	N/A	MCL = 80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
Perfluorooctan- oic Acid (PFOA) (See Note 6)	No	10/24/2023	1.93	ng/l	0	MCL = 10	Released into the environment from widespread use in commercial and industrial applications.
Perfluorooctan- esulfonic Acid (PFOS) (See Note 6)	No	10/24/2023	1.48	ng/l	0	MCL = 10	Released into the environment from widespread use in commercial and industrial applications.
Copper (see note 1)	No	6/08/2023	90 <sup>th</sup> =0.229 Range = 0.029 - 0.280	mg/l	1.3	AL=1.3	Corrosion of household plumbing
Lead (see note 2)	No	6/08/2023	90 <sup>th</sup> = ND Range =ND - 1.62	ug/l	0	AL=15	Corrosion of household plumbing
Manganese	No	12/28/2023	47.4	ug/l	N/A	MCL = 300	Naturally occurring

Sodium	No	4/05/2023	97.8	mg/l	N/A	See Note 5	Road Salt
Chloride	No	3/09/2023	204.48	mg/l	N/A	MCL=250	Road Salt
Turbidity MWTP <sup>3</sup>	No	8/23/2023	0.15	NTU	N/A	TT=< 1	Soil Runoff
Turbidity MWTP <sup>3</sup>	No	Monthly	100%	NTU	N/A	TT=95% of samples ≤ 0.3 NTU	Soil Runoff
Turbidity RWTP <sup>3</sup>	No	10/01/2023	0.175	NTU	N/A	TT=< 1	Soil Runoff
Turbidity RWTP <sup>3</sup>	No	Monthly	100%	NTU	N/A	TT=95% of samples ≤ 0.3 NTU	Soil Runoff
Total Coliform Bacteria	No	8 per month	100% Absent	N/A	0	MCL= 2 positive samples/month	Naturally present in the environment
Distribution System Turbidity <sup>4</sup>	No	May 2023	0.495	NTU	N/A	MCL > 5 NTU	Soil runoff

\*\* The values shown in the table represent the highest locational running annual average calculated from data collected for Stage 2 compliance monitoring; however, the range of values includes Stage 2 and any Health Department surveillance samples.

1. The copper level presented represents the 90<sup>th</sup> percentile of the 21 customer locations 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 90<sup>th</sup> percentile is equal to or greater than 90% of the copper values detected at your water system. In this case, 21 samples were collected at your water system and the 90<sup>th</sup> percentile value was the nineteenth highest value, 0.229 mg/l with a range of 0.029 - 0.280 mg/l. The action level for copper was not exceeded at any of the sites tested.
2. The lead level presented represents the 90<sup>th</sup> percentile of the 21 customer samples collected. If present, elevated levels of lead can cause serious health problems, especially for pregnant women, infants, and young children. It is possible that lead levels at your home may be higher than at other homes in the community because of materials used in customers plumbing components. The Village of Warwick is responsible for providing high quality drinking water but cannot control the variety of materials used in a customer's 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 (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.
3. MWTP and RWTP Turbidity is a measure of the cloudiness of the water. We test it because it is a good indicator of the effectiveness of our filtration systems. The highest single turbidity measurement (0.175 NTU) for the year occurred on 10/01/2023. State regulations require that turbidity leaving the filter plants must always be at or below 1 NTU. The regulations also require that at least 95% of the turbidity samples which are collected every four hours have measurements at or below 0.3 NTU. The Village satisfied this requirement for turbidity at each filter plant each month of 2023 as 100% of the 4-hour samples were below 0.3 NTU.
4. Distribution Turbidity is a measure of the cloudiness of the water found in the distribution system. We monitor it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants. Our highest average monthly distribution turbidity measurement detected during the year (0.459 NTU) occurred May 2023. This value is below the State's Maximum Contaminant Level (5 NTU).
5. 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 of sodium should not be used for drinking by people on moderately restricted sodium diets.
6. Please note that in addition to PFOS and PFOA results shown for 2023, the lab in 2021 performed the analysis for the entire EPA method 537.1, which includes 16 additional perfluorinated chemicals, one of these additional chemicals was detected, the highest of which was 2.4 ng/l. These additional analytes are not currently regulated and do not have a Maximum Contaminant Level.

## 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.

**Method Reporting Limit (MRL):** The minimum concentration of a contaminant that can be reported with a specified degree of confidence

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

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

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

**Nephelometric Turbidity Unit (NTU):** A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

**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).

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

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

**MWTP:** Well #2 / Microfiltration Plant.

**RWTP:** Reservoir Filtration Plant.

PFOA/PFOS To provide Americans, including the most sensitive populations, with a margin of protection from a lifetime of exposure to PFOA and PFOS from drinking water, EPA established the health advisory levels at 70 parts per trillion. When both PFOA and PFOS are found in drinking water, the combined concentrations of PFOA and PFOS should be compared with the 70 parts per trillion health advisory level. This health advisory level offers a margin of protection for all Americans throughout their life from adverse health effects resulting from exposure to PFOA and PFOS in drinking water.

## **WHAT DOES THIS INFORMATION MEAN?**

As noted on the table, the Village of Warwick water system had no violations. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the State.

## **DO I NEED TO TAKE SPECIAL PRECAUTIONS?**

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). Please note that after May 2, 2012 all water delivered to customers was treated to remove these microorganisms.

## **IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?**

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 your drinking water meets health standards. During 2023, our water met all drinking water standards established by the U.S.E.P.A. and the N.Y.S.D.O.H.

## **LEAD IN DRINKING WATER**

Lead in drinking water is due to leaching from lead service lines and lead solder joints in service lines and interior building piping. The Village does not believe that it has any lead water lines and in replacing service lines between the main and the curb stop has no history of finding lead lines. The customer is responsible for the line from the curb stop to the structure and all internal piping. If lead is a concern, you should check the materials in your system. The Village of Warwick is responsible for providing high quality drinking water but cannot control the variety of materials used in a customer's plumbing components. When water has been sitting in the pipes for several hours, the potential for lead exposure can be minimized by flushing the tap for 30 seconds to 2 minutes before using water for drinking or cooking.

Further the Village of Warwick injects Orthophosphate into the treated water prior to it entering the distribution system. Orthophosphate works as a sequestering agent which provides a coating on the inside of the pipes creating a shield that prevents corrosion and minimizes leaching of lead and other metals. Scientific American has a brief explanation about how this chemical works: <http://www.scientificamerican.com/video/corrosive-chemistry-how-lead-ended-up-in-flint-s-drinking-water1/>

The Village of Warwick tests for lead at 21 locations in the system. Samples are taken from tap water inside customer locations and are taken as a first draw after the water has remained in the internal piping for 6 hours. In addition, in 2024 the Village will be conducting a Lead Service Line Inventory to determine where in the system there are lead components. This will include service lines between the curb stop and the building. 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 (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.

## **WHY SAVE WATER AND HOW TO AVOID WASTING IT?**

Although the Village's system has an adequate amount of water to meet present and future 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 so that essential fire fighting needs are met.
- ◆ 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 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.
- ◆ Water Softener- Check the softener for leaks from the bottom that may be entering a drain below the unit.
- ◆ 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.

## **SYSTEM IMPROVEMENTS**

The Village of Warwick during 2023 made a substantial investment into its water system through multiple improvements and upgrades.

### **Microfiltration Plant**

- Replaced Membrane Rack Header System on Skid A
- Replaced CIP Tank Heating Element, purchased a spare.

### **Reservoir Filtration Plant**

- Installed security cameras and integrated in Village CCTV system
- Changed 4 valve actuators
- Improved Drainage System around main building
- Emergency generator replacement began. Estimated completion May 2024.

### **Well #3 Filtration Plant**

Engineering firm prepared the final design and contract documents for the treatment facility for Well #3. The design has been approved by the Orange County Health Department. It is expected that construction will commence in 2024 and be completed and brought online in 2025. The Village has received a \$959,752 grant from Congressman Pat Ryan which will pay for a portion of the cost of the project.

### **Water Sources- Reservoirs and Wells**

The Village Water Department monitor and report water levels on a biweekly basis. Raw water in the reservoir and well sources did not see diminished capacity during the year to a point where water advisory alerts were issued or water restrictions were implemented requiring customers to reduce water use.

Listed below are the accomplishments made during the year to the reservoir system.

- Annual dam inspection conducted by Village's engineer Tectonic and semiannual inspection by the Department of Environmental Conservation.

- Conducted annual watershed property inspection.
- A remote-controlled slope mower was used to mow the dam embankments six times during the year.
- Repaired seam between retaining wall and weir at Lower Reservoir.

The Village received a Water Quality Improvement Project program grant from New York State that will provide funding for the Village to acquire land in the Reservoir watershed so that the Village has greater control over activities and uses that could be detrimental to the water quality. The grant requires a 25% match by the Village and the total received from the State is limited to \$288,150. The Village will begin negotiations with property owners and conduct appraisals and surveys in 2024 with the expectation that transfer of the properties or securing easements will occur in 2025.

## **Pump Stations and Storage Tanks**

Improvements were made to the following:

- Reservoir Storage Tank Replacement design was completed. Application was submitted to NYS Health Department for review in July 2023. Village is pursuing grant funding for the construction of the tanks.
- Galloway Pump Station- electrical connection completed to Engine #3 firehouse to supply power including alternate emergency power.
- Hilltop Pump Station- installed emergency power generator
- Repaired a leak on Hillside/Highland Tank
- Repaired multiple leaks on Hilltop Tank
- Valley View Tank- Nearby trees removed and fence repaired.
- Maple Ave Pump Station- Replaced one pump and two check valves. Commenced design to relocate the Maple Ave PS to Grand St. Received a \$250,000 grant through State Senator Skoufis. The estimated project cost is \$1,064,000. Project is being done ahead of a NYSDOT project to reconfigure the intersection of Maple Ave and Colonial Ave.

## **Distribution**

The Village Water Department is responsible for maintaining approximately 45 miles of water main, with portions originally installed during the early 1900's. Given the length of pipe in the system and its age it is understandable breaks occur from time to time.

Below is a listing of the Distribution projects performed during 2023.

- Received a Lead Service Line Grant to inventory the Village's distribution system to determine where there are lead and galvanized service lines.
- Orange County Water Authority sponsored Leak Detection Survey was performed. The survey found 10 leaks. Upon further investigation by the Village, it was determined that at 3 of the locations the leak could not be confirmed or was attributable to interferences. The remaining 7 were confirmed and 6 were repaired. The Village is working to pinpoint and repair the last leak.
- River St Water Main Replacement- new service line connections completed.
- Performed system-wide flushing in April, July and October.
- Altitude valves and Pressure Reducing Valves (PRV) pressures were inspected for proper operation.
- Installed 1 new hydrant to replace existing.
- Repaired 9 hydrants that had failed.
- Repaired 4 water main breaks.
- Installed 2 new services.
- Repaired 26 service lines.
- Updated 95 residential water meters to Sensus iPERL and Omni meters and 100 MXU's
- Valves- Checked 27; located and mapped approx. 348 curb stops; raised 79
- Altitude valves and PRV's were inspected for proper operation and adjusted as required.
- Installed 20 Storz adapters on hydrants. The Storz Adapters Installation Program has been completed for all hydrants.
- Altitude valves and PRV's were inspected for proper operation and adjusted as required.
- Rebuilt the 3" and 8" Valves in the Ridgefield PRV Vault



- Backflow Prevention- Developed notification system and notified customers with devices who have not provided current test results.

## **General**

- Maintained and updated the GIS-based system for inventory, management, and maintenance of water infrastructure.
- Emergency Response Plan and Vulnerability Assessment updated and submitted to Orange County Health Department.

## **CLOSING**

Thank you for allowing us to continue to provide you with quality drinking water. We ask that all our customers help us protect our water sources, which are the heart of our community. Please call our office at the Village Hall (845) 986-2031 ext. 110 if you have any questions, concerns, or suggestions.