

2022 drinking water quality report

INC. VILLAGE OF EAST WILLISTON WATER DEPARTMENT
PUBLIC WATER SUPPLY IDENTIFICATION NO. 2902820

ANNUAL WATER SUPPLY REPORT

SPRING 2023

The Inc. Village of East Williston is pleased to present to you this year's Water Quality Report. The report is required to be delivered to all residents of our Village in compliance with Federal and State regulations. We are happy to report that during 2022, our water supply is in full compliance with all Federal, State and County drinking water regulations. Our constant goal is to provide you with a safe and dependable supply of drinking water every day. We also want you to understand the efforts we make to continually improve the water supply process and protect our water resources. The Mayor, Board of Trustees and the Village employees are committed to ensuring that you and your family receive the highest quality water at a reasonable cost.

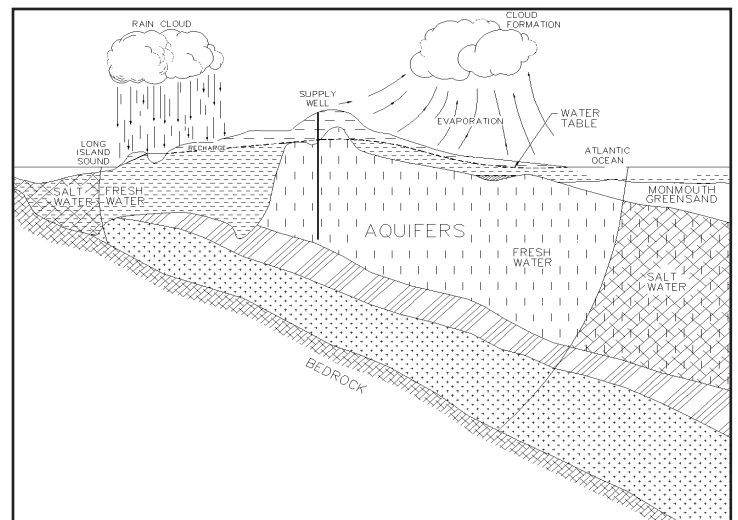
SOURCE OF OUR WATER

The source of water for the Village is groundwater pumped from groundwater wells located within the Village of Williston Park that are drilled into the Magothy aquifer beneath Long Island, as shown on the adjacent figure. Generally, the water quality of the aquifer is good to excellent.

Our Village purchases water on a wholesale basis from the Village of Williston Park. Specific information concerning the supply wells can be obtained from the Village of Williston Park.

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 that limit the amount of certain contaminants in water provided by public water systems.

The population served by the Inc. Village of East Williston during 2022 was approximately 2,556. The total amount of water purchased from the Village of Williston Park in 2022 was 142.1 million gallons.



THE LONG ISLAND AQUIFER SYSTEM

WATER CONSERVATION MEASURES

The underground water system of Long Island has more than enough water for present water demands. However, saving water will ensure that our future generations will always have a safe and abundant water supply.

In 2022, the Inc. Village of East Williston continued to implement a water conservation program in order to minimize any unnecessary water use. The amount of water purchased in 2022 was approximately 1.78 percent more than in 2021. This can be attributed to a hotter and drier summer.

OUTDOOR WATER USE RESTRICTIONS

Use of water for irrigation purposes for lawns, shrubs, trees, plants and vegetation of any type is regulated by hours set forth by the County of Nassau. **Absolutely no watering between the hours of 10:00 a.m. and 4:00 p.m.** Watering will be permitted all other hours under the following conditions:

1. Residents with even house numbers may water on even dates.
2. Residents with odd house numbers may water on odd dates.
3. Premises without numbered addresses may water on even dates.
4. No watering is permitted on the 31st of any month.

CONTACTS FOR ADDITIONAL INFORMATION

NEW YORK STATE MANDATORY HEALTH ADVISORY

We are pleased to report that our drinking water meets all Federal and State requirements. If you have any questions about this report or concerning your water utility, please contact the Village Clerk, Joanna Palumbo at (516) 746-0782 or the Nassau County Department of Health at (516) 227-9692. We want our valued customers to be informed about our water system. If you want to learn more, please attend any of our regularly scheduled Village Board meetings. They are normally held on the second and last Monday of each month at 7:30 p.m. at the Village Hall.

The Inc. Village of East Williston routinely monitors for different parameters and contaminants in your drinking water as required by Federal and State laws. The table on Page 3 shows the results of our water quality monitoring for the period of January 1 through December 31, 2023. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk. For more information on contamination and potential health risks, please contact the USEPA Safe Drinking Water Hotline at 1-800-426-4791 or www.epa.gov/safewater.

During 2022, the Village Water Dept. collect 11 samples for lead and copper. The next round of samples will occur in 2025. 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 as a result of materials used in your home's plumbing. The East Williston Water Department is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.

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).

WATER TREATMENT

The Village of East Williston does not provide any treatment to the water purchased from Williston Park. Water pumped into the distribution system from the Village of Williston Park's Well No. 2 and Well No. 4 is treated to remove volatile organic chemicals by packed tower aeration (stripping towers). The process is completely natural, using air delivered through the packing media in the tower past the cascading water to remove the volatiles from the water. The treated water discharges from the tower to a clear well where it is pumped to the distribution system.

All source water from the Williston Park Water Department is treated with sodium hydroxide (caustic soda) in an amount necessary to maintain a pH level between 7.5 and 8.5 in order to reduce corrosivity. As required by the Nassau County Department of Health, Williston Park also disinfects its water supply by feeding small amounts of liquid sodium hypochlorite(chlorine) into the distribution system at each pumping station. For specific water quality information pertaining to Williston Park's supply wells, please visit the Village of Williston Park website at <https://villageofwillistonpark.org/water-department>.

COST OF WATER

The Village bills its consumers utilizing a step billing schedule as shown below.

WATER RATES

Consumption (gallons)	Charges
Up to 100,000	\$6.79/thousand gallons
Over 100,000	\$7.04/thousand gallons

The Inc. Village of East Williston conducts over 1,000 water quality tests throughout the year, testing for over 180 different contaminants which have been undetected in our water supply including:

Arsenic	Simazine	Bromoacetic Acid	1,1,2-Trichloroethane
Cadmium	Atrazine	Dichloroacetic Acid	Tetrachloroethene
Chromium	Metolachlor	Trichloroacetic Acid	1,3-Dichloropropane
E.coli Bacteria	Metribuzin	Dibromoacetic Acid	Isopropylbenzene (Cumene)
Fluoride	Butachlor	Total Haloacetic Acid	1,1,1,2-Tetrachloroethane
Total Coliform Bacteria	2,4-D	O-Xylene	N-Propylbenzene
Mercury	2,4,5-TP (Silvex)	M,P-Xylene	1,1,2,2-Tetrachloroethane
Styrene	Dinoseb	Bromoforn	1,2,3-Trichloropropane
Silver	Dalapon	Ethylbenzene	2-Chlorotoluene
Color	Picloram	Toluene	4-Chlorotoluene
Turbidity	Dicamba	Benzene	1,2-Dichlorobenzene
Odor	Pentachlorophenol	Chlorobenzene	1,3-Dichlorobenzene
Iron	Hexachlorocyclopentadiene	Dichlorodifluoromethane	1,4-Dichlorobenzene
Manganese	bis(2-Ethylhexyl)adipate	Chloromethane	1,24-Trichlorobenzene
Ammonia	bis(2-Ethylhexyl)phthalate	Vinyl Chloride	Hexachlorobutadiene
Detergents (MBAS)	Hexachlorobenzene	Bromomethane	1,2,3-Trichlorobenzene
Free Cyanide	Benzo(A)Pyrene	Chloroethane	1,3,5-Trimethylbenzene
Antimony	Aldicarb Sulfone	Trichlorofluoromethane	Tert-Butylbenzene
Beryllium	Aldicarb sulfoxide	Chlorodifluoromethane	1,2,4-Trimethylbenzene
Thallium	Aldicarb	Methylene Chloride	Sec-Butylbenzene
Selenium	Total Aldicarb	Trans-1,2-Dichloroethene	4-Isopropyltoluene (P-Cumene)
Lindane	Oxamyl	1,1-Dichloroethane	N-Butylbenzene
Heptachlor	Methomyl	cis-1,2-Dichloroethene	Methyl Tert-Butyl Ether (MTBE)
Aldrin	3-Hydroxycarbofuran	2,2-Dichloropropane	
Heptachloro Epoxide	Carbofuran	Bromobenzene	
Dieldrin	Carbaryl	Carbon Tetrachloride	
Endrin	Glyphosate	Carbon Tetrachloride	
Methoxychlor	Diquat	1,1-Dichloropropene	
Toxaphene	Endothall	1,2-Dichloroethane	
Chlordane	1,2-Dibromoethane (EDB)	1,2-Dichloropropane	
Total PCBs	1,2-Dibromo-3-Chl.Propane	Dibromomethane	
Propachlor	Dioxin	Trans-1,3-Dichloropropene	
Alachlor	Chloroacetic Acid	cis-1,3-Dichloropropene	

2022 DRINKING WATER QUALITY REPORT - TABLE OF DETECTED PARAMETERS

Contaminants	Violation (Yes/No)	Date of Sample	Level Detected (Maximum Range)	Unit Measurement	MCLG	Regulatory Limit (MCL or AL)	Likely Source of Contaminant
Lead & Copper							
Copper	No	April/August 2022	0.0082 - 0.043 0.039 ⁽¹⁾	mg/l	1.3	AL = 1.3	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	No	April/August 2022	ND - 3.8 2.9 ⁽¹⁾	ug/l	0	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits
Inorganic Contaminants							
Barium	No	04/04/22	0.006	mg/l	2.0	MCL = 2.0	Naturally occurring
Sodium	No	04/04/22	17.0	mg/l	n/a	No MCL ⁽²⁾	Naturally occurring
Magnesium	No	04/04/22	6.1	mg/l	n/a	None	Naturally occurring
Chloride	No	04/04/22	38.1	mg/l	n/a	MCL = 250	Naturally occurring
Calcium	No	04/04/22	12.6	mg/l	n/a	None	Naturally occurring
Nitrate	No	04/04/22	3.9	mg/l	10	MCL = 10	Runoff from fertilizer and leaching from septic tanks and sewage
Nickel	No	04/04/22	0.86	ug/l	n/a	MCL = 100	Naturally occurring
Sulfate	No	04/04/22	21.9	mg/l	n/a	MCL = 250	Naturally occurring
Corrosivity	No	04/04/22	-1.66	LSI	n/a	No MCL	Naturally occurring
Perchlorate	No	04/04/22	ND - 2.7	ug/l	0	AL = 18 ⁽³⁾	Oxygen additive in solid fuel propellant for rockets, missiles and fireworks
Radionuclides							
Gross Alpha	No	08/09/19	0.23 - 1.86	pCi/L	0	MCL = 15	Erosion of natural deposits
Gross Beta	No	08/09/19	1.42 - 5.86	pCi/L	0	MCL = 50	Decay of natural deposits and man-made emissions
Radium 226 & 228 Combined	No	08/09/19	0.917 - 1.747	pCi/L	0	MCL = 5 ⁽⁴⁾	Erosion of natural deposits
Uranium	No	08/09/19	0.115 - 0.93	ug/l	0	MCL = 30	Erosion of natural deposits
Disinfectants							
Chlorine Residual	No	continuous	0.36 - 1.13	mg/l	n/a	MRDL = 4.0	Measure of disinfectant
Disinfection By-Products							
Total Trihalomethanes (THMs) ⁽⁵⁾	No	08/15/22	ND - 0.51	ug/l	n/a	MCL = 80	Disinfection By-Products
Physical Characteristics							
pH	No	continuous	7.42 - 8.53	Std. Units	n/a	7.5 - 8.5 ⁽⁶⁾	Measure of water acidity or alkalinity
Calcium Hardness	No	04/04/22	31.5	mg/l	n/a	No MCL	Naturally occurring
Total Alkalinity	No	04/04/22	21.2	mg/l	n/a	No MCL	Naturally occurring
Total Hardness	No	04/04/22	56.5	mg/l	n/a	No MCL	Naturally occurring
Total Dissolved Solids (TDS)	No	04/04/22	146.0	mg/l	n/a	No MCL	Naturally occurring

2022 DRINKING WATER QUALITY REPORT - TABLE OF DETECTED PARAMETERS (cont'd.)

Contaminants	Violation (Yes/No)	Date of Sample	Level Detected (Maximum Range)	Unit Measurement	MCLG	Regulatory Limit (MCL or AL)	Likely Source of Contaminant
Synthetic Organic Contaminants (SOCs)							
1,4-Dioxane	No	12/07/20	ND - 0.12	ug/l	n/a	MCL = 1.0 ⁽⁷⁾	Industrial/Commercial discharge ⁽⁸⁾
Perfluorooctanoic Acid (PFOA)	No	01/23/20	ND - 5.8	ng/l	0	MCL = 10.0 ⁽⁹⁾	Industrial discharge ⁽¹⁰⁾
Perfluorooctanesulfonic Acid (PFOS)	No	03/16/20	ND - 4.9	ng/l	0	MCL = 10.0 ⁽⁹⁾	Industrial discharge ⁽¹⁰⁾
Perfluoroheptanoic Acid (PFHpA)	No	04/13/20	ND - 4.7	ng/l	0	MCL = 50,000	Industrial discharge
Perfluorononanoic Acid (PFNA)	No	04/13/20	ND - 7.5	ng/l	0	MCL = 50,000	Industrial discharge

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.

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

Health Advisory (HA) - An estimate of acceptable drinking water levels for a chemical substance based on health effects information; a health advisory is not a legally enforceable Federal standard, but serves as technical guidance to assist Federal, State and local officials.

Maximum Residual Disinfection 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 Disinfection 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 contaminants.

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 in one trillion parts of liquid (parts per trillion - ppt).

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

pCi/L - pico Curies per Liter is a measure of radioactivity in water.

Langlier Saturation Index (LSI) - LSI is a measure of a solution's ability to dissolve or deposit calcium carbonate, is often used as an indicator of the corrosivity of water.

⁽¹⁾ - During 2022, we collected and analyzed 11 samples for lead and copper. The values reported for lead and copper represent the 90th percentile. 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 lead and copper values detected at your water system. In our sampling program, the 90th percentile value is the second highest result. The action levels for both lead and copper were not exceeded at any site tested. The next sampling program for lead and copper will be conducted in 2025.

⁽²⁾ - No MCL has been established for sodium. However, 20 mg/l is a recommended guideline for people on high restricted sodium diets and 270 mg/l for those on moderate sodium diets.

⁽³⁾ - Perchlorate is an unregulated contaminant. However, the NYS Dept. of Health has established an action level of 18.0 ug/l.

⁽⁴⁾ - MCL for Radium is for Radium 226 and Radium 228 combined.

⁽⁵⁾ - TTHM includes Bromoform, Bromodichloromethane, Chloroform and Dibromochloromethane

⁽⁶⁾ - As per Nassau County Department of Health guidelines.

⁽⁷⁾ - 1,4-Dioxane - The New York State (NYS) established an MCL for 1,4-Dioxane as 1.0 part per billion (ppb) effective August 26, 2020.

⁽⁸⁾ - It is used as a solvent for cellulose formulations, resins, oils, waxes and other organic substances. It is also used in wood pulping, textile processing, degreasing, in lacquers, paints, varnishes, and stains; and in paint and varnish removers.

⁽⁹⁾ - The New York State (NYS) has established a maximum contaminant level (MCL) at 10 ppt for PFOA and 10.0 ppt for PFOS effective August 2020.

⁽¹⁰⁾ - PFOA/PFOS has been used to make carpets, leathers, textiles, fabrics for furniture, paper packaging, and other materials that are resistant to water, grease, or stains. It is also used in fire fighting foams at airfields. Many of these uses have been phased out by its primary U.S. manufacturer; however, there are still some ongoing uses.

WATER QUALITY

In accordance with State regulations, the Inc. Village of East Williston Water Department routinely monitors your drinking water for numerous parameters. We test your drinking water for coliform bacteria, turbidity, inorganic contaminants, lead and copper, nitrate, volatile organic contaminants, total trihalomethanes and synthetic organic contaminants. Over 180 separate parameters are tested for in each of our wells numerous times per year. The table presented on page 3 depicts which parameters or contaminants were detected in your drinking water. It should be noted that many of these parameters are naturally found in all Long Island drinking water and do not pose any adverse health affects.

The NYSDOH, with assistance from the local health department, has completed a source water assessment for the Village of Williston Park water well system, based on available information. Possible and actual threats to this drinking water source were evaluated. The source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how rapidly contaminants can move through the subsurface to the wells. The susceptibility of a water supply well to contamination is dependent upon both the presence of potential sources of contamination within the well's contributing area and the likelihood that the contaminant can travel through the environment to reach the well. 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 the section entitled "Water Quality" 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.

A copy of the assessment, including a map of the assessment area, can be obtained by contacting the Village of Williston Park.

NOTICE OF VIOLATION

Our water system violated a drinking water standard over the past year. Even though this was not an emergency, as our customers, you have a right to know what happened and what we did to correct the situation.

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 our drinking water meets health standards. During the month of November 2022, we did not monitor or test for Total Coliform and Escherichia Coliform at an approved site in the distribution system and, therefore, cannot be sure of the quality of our drinking water during that time.

What should I do?

There is nothing you need to do at this time.

The table below lists the contaminants we did not properly test for during the month of November 2022 at one site in the distribution system, how often we are supposed to sample for these contaminants, how many samples we are supposed to take, how many samples we took, when the sample should have been taken and the time period when the follow-up sample was taken.

During the routine microbiological sampling of the distribution system in November 2022, one approved site was not sampled. The site was sampled as scheduled in December 2022.

Contaminant	Required Sampling Frequency	Number of Samples Taken	When Sample Should Have Been Taken	When Sample Was Taken
Total Coliform and Escherichia Coliform ⁽¹⁾	3 samples from approved distribution sites	2	November 2022	December 2022

⁽¹⁾ - Microbiological contaminants, such as Total Coliform and Escherichia Coliform (E. Coli), are tested by collecting and analyzing samples from approved sites throughout the distribution system. Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially harmful waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. E. Coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special risk for infants, young children, and people with severely-compromised immune systems.

What is being done?

To avoid the reoccurrence of missed monitoring samples, a system of checks and balances has been instituted and, to comply with State monitoring requirements, the Inc. Village of East Williston took the required sample for Total Coliform and Escherichia Coliform in December 2022, as described in the last column of the table above.

For more information, please contact Village of East Williston at (516) 746-0782 or the Nassau County Department of Health at (516) 227-9692.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

INCORPORATED VILLAGE OF EAST WILLISTON

2 Prospect Avenue

East Williston, New York 11554

Mayor

Bonnie L.S. Parente

Deputy Mayor

James L. Iannone

Trustees

Raffaella Dunne

James Lark

Anthony Gallo

Thank you for allowing us to continue to provide your family with clean, quality drinking water this year. In order to maintain a safe and dependable water supply, we sometimes need to make improvements that will benefit all of our customers. The costs of these improvements may be reflected in the rate structure. Rate adjustments may be necessary in order to address these improvements. The Incorporated Village of East Williston works hard to provide top quality water to every customer. We ask that all our customers help us protect our water resources.