

2019 drinking water quality report

CITY OF GLEN COVE WATER DEPARTMENT
PUBLIC WATER SUPPLY IDENTIFICATION NO. 2902826

ANNUAL WATER SUPPLY REPORT

MAY 2020

The City continues its commitment to provide our residents with drinking water that meets or exceeds quality standards while taking the necessary steps to improve our water supply system infrastructure.

Tim Tenke
Mayor

SOURCE OF OUR WATER

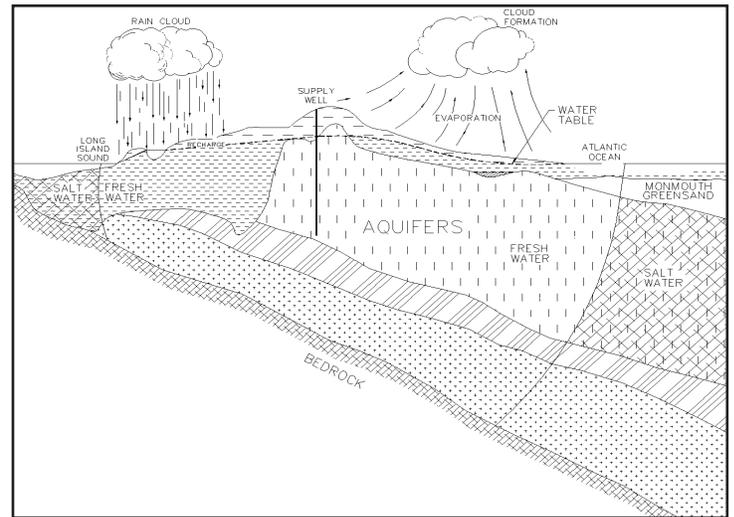
The source of water for the City is groundwater pumped from five (5) wells located throughout the community that are drilled into the aquifers beneath Long Island, as shown on the adjacent figure. Generally, the water quality of the aquifers is good to excellent.

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 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.

The population served by the City of Glen Cove during 2019 was 28,000. The total amount of water pumped by the City in 2019 was 1.314 billion gallons, of which approximately 84.5 percent was billed directly to consumers.

The remaining un-metered water is from uses such as municipal and public school facilities, fire fighting, hydrant flushing, main breaks and undetected service line and water main leaks.



THE LONG ISLAND AQUIFER SYSTEM

WATER TREATMENT

The Water Department treats the water supply before it enters the distribution system. A small amount of chlorine is added to assure the water maintains its bacteria-free quality. Our water is also treated with sodium hydroxide to increase its pH to reduce its corrosivity before it enters the distribution system. This treatment reduces the leaching of copper and lead from household plumbing. Source water from the Kelly Street well and two (2) wells at Duck Pond Road are treated by air stripping to remove various volatile organic chemicals. Source water from the one (1) Duck Pond Road well is treated by granular activated carbon filters to remove various organic chemicals and pesticides. All treatment is approved by and in strict accordance with Nassau County Department of Health standards. Our well at Seaman Road has been removed from service.

INFORMATION FOR NON-ENGLISH SPEAKING RESIDENTS

Spanish

Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.

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 2019, the City of Glen Cove continued to implement a water conservation program in order to minimize any unnecessary water use. The pumpage for 2019 was approximately 2.3% more than the pumpage for 2018.

Water supply management has long been a practice in Glen Cove. Over the last 20 years, the city has initiated numerous programs geared to reducing water usage. Obviously, continued water conservation efforts will be required to maintain ample supplies.

Some of the major water conservation measures implemented by the City are:

Water Conservation Ordinances – local ordinances have long been in effect to restrict non-potable water use during periods of peak demand, such as Summer periods and fire emergencies. In 1987, the City, in an effort to promote conservation, amended its municipal ordinances and adopted stricter regulations related to:

- Water sprinkling (odd/even) hours are 5:00 a.m. to 9:00 a.m. and then again from 4:00 p.m. to midnight. There is NO watering permitted on the 31st of any month. Sprinkler systems must be equipped with a backflow device and rain sensor.
- Car washing – only self closing shut off valved hose permitted for use.
- Water saving plumbing fittings and fixtures are required on all new residential and commercial construction and in certain alterations and additions to existing construction.

SOURCE WATER ASSESSMENT

The NYSDOH, with assistance from the local health department and the consulting firm CDM, has completed a source water assessment for this 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 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.

Drinking water is derived from 5 wells. The source water assessment has rated most of the wells as having a very high susceptibility to industrial solvents, all of the wells as having a high susceptibility to nitrates, and one well as having a medium high susceptibility to microbial contamination. The very high susceptibility to industrial solvents is due primarily to point sources of contamination related to transportation routes and commercial/industrial facilities and related activities in the assessment area. The high susceptibility to nitrate contamination is attributable to unsewered residential land use and related practices in the assessment area, such as fertilizing lawns. Therefore, continued vigilance in compliance with water quality protection and pollution prevention programs as well as continued monitoring and enforcement will help to continue to protect groundwater quality.

A copy of the assessment, including a map of the assessment area, can be obtained by contacting the City Water Dept.

WATER QUALITY

In accordance with State regulations, the City of Glen Cove 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 135 separate parameters are tested for in each of our wells numerous times per year. Over 5,000 tests are taken each year from the distribution system and supply wells. 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.

COST OF WATER

Our residential rate structure for each 3 month period is as follows: \$2.71 per 1,000 for the first 45,000 gallons, \$3.06 per 1,000 gallons for the next 45,000 gallons, and \$3.39 per 1,000 gallons for usage over 90,000 gallons.

WATER SYSTEM IMPROVEMENTS

The City of Glen Cove is committed to providing Glen Cove residents with the highest quality water and to improve the overall efficiency of the system. With this in mind, the Department of Public Works had undertaken an internal audit of all water department facilities, mechanical systems and delivery infrastructure system improvements are made as necessary. The City is in the process of constructing an air stripping treatment facility at Duck Pond Road well site for the removal of the contaminant Freon and the rehabilitation of Seaman Road.

The City of Glen Cove Water Department conducts over 5,000 water quality tests throughout the year, testing for over 135 different contaminants which have been undetected in our water supply including:

Arsenic	Atrazine	Trichloroacetic Acid	1,1,1,2-Tetrachloroethane
Cadmium	Metolachlor	Dibromoacetic Acid	Bromobenzene
Chromium	Metribuzin	cis-1,2-Dichloroethene	1,1,2,2-Tetrachloroethane
Mercury	Butachlor	Chloroform	1,2,3-Trichloropropane
Langlier Saturation Index	2,4-D	Bromodichloromethane	2-Chlorotoluene
Silver	2,4,5-TP (Silvex)	M,P-Xylene	4-Chlorotoluene
N-Butylbenzene	Dinoseb	Bromoform	1,2-Dichlorobenzene
Ammonia	Dalapon	Methyl Tert. Butyl Ether (MTBE)	1,3-Dichlorobenzene
Aldicarb Sulfoxide	Picloram	Selenium	1,4-Dichlorobenzene
1,3,5-Trimethylbenzene	Dicamba	Dichlorodifluoromethane	1,24-Trichlorobenzene
Odor	Pentachlorophenol	Chloromethane	Hexachlorobutadiene
Nitrite	Hexachlorocyclopentadiene	Vinyl Chloride	1,2,3-Trichlorobenzene
E.coli	bis(2-Ethylhexyl)adipate	Bromomethane	Benzene
Styrene	bis(2-Ethylhexyl)phthalate	Chloroethane	Toluene
Tetrachloroethene	Hexachlorobenzene	Trichlorofluoromethane	Ethylbenzene
O-Xylene	Benzo(A)Pyrene	Haloacetic Acid (HAA5)	4-Isopropyltoluene (P-Cumene)
Detergents (MBAS)	Aldicarb Sulfone	1,1-Dichloroethene	1,2,4-Trimethylbenzene
Free Cyanide	Sec-Butylbenzene	Methylene Chloride	Tert-Butylbenzene
Antimony	Aldicarb	Trans-1,2-Dichloroethene	Isopropylbenzene (Cumene)
Beryllium	Total Aldicarbs	1,1-Dichloroethane	N-Propylbenzene
Thallium	Oxamyl	2,2-Dichloropropane	Nickel
Lindane	Methomyl	Bromochloromethane	Manganese
Heptachlor	3-Hydroxycarbofuran	1,1,1-Trichloroethane	Iron
Aldrin	Carbofuran	Carbon Tetrachloride	Color
Heptachloro Epoxide	Carbaryl	1,1-Dichloropropene	Selenium
Dieldrin	Glyphosate	1,2-Dichloroethane	Turbidity
Endrin	Diquat	Trichloroethene	
Methoxychlor	Endothall	1,2-Dichloropropane	
Toxaphene	1,2-Dibromoethane (EDB)	Dibromomethane	
Chlordane	1,2-Dibromo-3-Chl.Propane	Trans-1,3-Dichloropropene	
Total PCBs	Dioxin	cis-1,3-Dichloropropene	
Propachlor	Chloroacetic Acid	1,1,2-Trichloroethane	
Alachlor	Bromoacetic Acid	1,3-Dichloropropane	
Simazine	Dichloroacetic Acid	Chlorobenzene	

2019 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
Inorganic Contaminants							
Copper	No	July, August, September 2017	0.064 - 0.51 0.41 ⁽¹⁾	mg/l	1.3	AL = 1.3	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	No	July, August, September 2017	ND - 12.1 3.5 ⁽¹⁾	ug/l	1.3	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits
Barium	No	03/17/19	0.014 - 0.029	mg/l	n/a	MCL = 2	Naturally occurring
Sodium	No	02/01/19	9.6 - 27.4	mg/l	n/a	No MCL ⁽²⁾	Naturally occurring
Zinc	No	05/02/19	ND - 0.11	ug/l	n/a	MCL = 5000	Naturally occurring
Nitrate	No	02/07/19	3.5 - 6.8	mg/l	n/a	MCL = 10 ⁽³⁾	Naturally occurring
Fluoride	No	05/29/19	ND - 0.19	mg/l	n/a	MCL = 2.2	Naturally occurring
Magnesium	No	05/02/19	5.0 - 8.3	mg/l	n/a	No MCL	Naturally occurring
Chloride	No	03/14/19	13.3 - 39.8	mg/l	n/a	MCL = 250	Naturally occurring
Total Hardness	No	05/02/19	52.4 - 84.5	mg/l	n/a	No MCL	Naturally occurring
pH	No	05/02/19	6.0 - 8.5	Units	n/a	No MCL	Naturally occurring
Calcium	No	05/02/19	12.7 - 20.2	mg/l	n/a	No MCL	Naturally occurring
Calcium Hardness	No	05/02/19	31.7 - 50.4	mg/l	n/a	No MCL	Naturally occurring
Total Alkalinity	No	02/07/19	23.5 - 41.4	mg/l	n/a	No MCL	Naturally occurring
Total Dissolved Solids	No	05/02/19	7.6 - 280.0	mg/l	n/a	No MCL	Naturally occurring
Sulfate	No	03/14/19	15.5 - 29.1	mg/l	n/a	MCL = 250	Naturally occurring
Perchlorate	No	12/31/19	1.1 - 1.9	ug/l	n/a	AL = 18 ⁽⁴⁾	Fertilizer
Bromide	No	08/22/19	ND - 60.8	ug/l	n/a	No MCL	Naturally occurring
Micro-Bacteriological							
Total Coliform	No ⁽⁵⁾	02/26/19	1 positive sample out of 36 samples (each month)	Positive or Negative	--	TTT = 2 or more positive samples per month	Commonly found in the environment
Disinfection By-Products							
HAA5	No	08/22/19	1.0 - 3.22	ug/l	n/a	MCL = 60 ⁽⁶⁾	Disinfection by-products
Total Trihalomethanes	No	10/09/19	0.51 - 6.5	ug/l	n/a	MCL = 80	Disinfection By-Products
Radionuclides							
Gross Alpha	No	12/04/19	ND - 4.27	pCi/L	n/a	MCL = 15	Naturally occurring
Gross Beta	No	09/16/19	ND - 3.93	pCi/L	n/a	MCL = 50	Naturally occurring
Radium 226 & 228 Combined	No	06/05/19	ND - 2.62	pCi/L	n/a	MCL = 5 ⁽⁷⁾	Naturally occurring
Uranium	No	12/04/19	ND - 2.135	ug/l	n/a	MCL = 30	Naturally occurring
Unregulated Contaminants⁽⁸⁾							
1,4-Dioxane	No	03/07/19	0.049 - 0.15	ug/l	n/a	HA = 35	Industrial discharge ⁽⁹⁾⁽¹⁰⁾
Unregulated Contaminants Rule UCMR4⁽⁸⁾							
HAA5	No	08/22/19	1.0 - 3.22	ug/l	n/a	MCL = 60 ⁽⁶⁾	Disinfection by-products
HAA6Br	No	08/22/19	2.36 - 6.77	ug/l	n/a	No MCL	Disinfection by-products
HAA9	No	08/22/19	2.36 - 6.77	ug/l	n/a	No MCL	Disinfection by-products

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 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.

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.

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).

Nephelometric (NTU) - signifies that the instrument is measuring scattered light from the sample at 90-degree angle from the incident light.

TTT - Treatment Technique Trigger

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.

⁽¹⁾ - During 2017, we collected and analyzed 30 samples for lead and copper. The action levels for both lead and copper were not exceeded at any site tested. Resampling is scheduled for 2020. 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 4th highest result.

⁽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⁾ - Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

⁽⁴⁾ - Perchlorate is an unregulated contaminant. However, the State Health Dept. has established an action level of 18 ug/l.

⁽⁵⁾ - The City had one positive sample in February 2019. All follow up repeat samples were negative for bacteria.

⁽⁶⁾ - MCL of 60 ug/l is the combined results for the group of 5 haloacetic acids.

⁽⁷⁾ - MCL is for combined Radium 226 and Radium 228.

⁽⁸⁾ - UCMR - Unregulated Contaminant Monitoring Rule is a Federal water quality sampling program where water suppliers sample and test their source water for 1 year. Results will be used by the USEPA to determine if the contaminants need to be regulated in the future.

⁽⁹⁾ - 1,4-Dioxane - The New York State (NYS) proposed MCL for 1,4 dioxane is 1 part per billion (ppb).

⁽¹⁰⁾ - 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.

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CONTACTS FOR ADDITIONAL INFORMATION

If you have any questions about this report or concerning your water utility, please contact Michael Colangelo at the Water Department at (516) 676-2238 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, you can attend any of our regularly scheduled City Council meetings. They are normally held on the second and fourth Tuesday of each month at 7:30 p.m. at City Hall, unless otherwise posted.

The City of Glen Cove routinely monitors for different parameters and contaminants in your drinking water as required by Federal and State laws. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants 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.

During 2017, the City Water Department collected 30 samples for lead and copper. The next round of samples will occur in 2020. 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 City of Glen Cove 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).