



WEST
HEMPSTEAD
WATER
DISTRICT

Board of Commissioners

John Sparacio, Chairperson
Joseph Marando, Treasurer
Kenneth Wenthen, Jr., Secretary

Superintendent

Robert P. York

Secretary to the Board

Frederick Kurz

2014 drinking water quality report

WEST HEMPSTEAD WATER DISTRICT
PUBLIC WATER SUPPLY IDENTIFICATION NO. 2902857

ANNUAL WATER SUPPLY REPORT

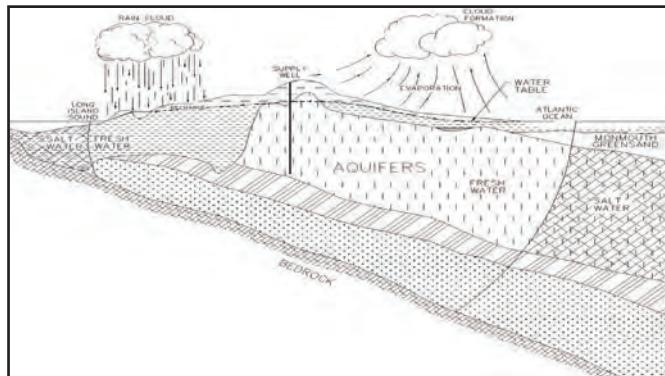
MAY 2015

The West Hempstead Water District is pleased to present to you this year's Water Quality Report. The report is required to be delivered to all residents of our District in compliance with Federal and State 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 treatment process and protect our water resources. The Board of Water Commissioners and the District employees are committed to ensuring that you and your family receive the highest quality water.

SOURCE OF WATER

The source of water for the District is groundwater pumped from 6 wells located at our Birch Street and our 7th Street plant sites that are drilled into the Magothy Aquifer beneath Long Island, as shown on the above diagram. Generally, the water quality of the aquifer is good to excellent, although there are localized areas of contamination.

In order to ensure that our 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 LONG ISLAND AQUIFER SYSTEM

WATER QUALITY AND TREATMENT

Presented on Page 4 are the analytical testing results for 2014 for those constituents required to be tested by the State Sanitary Code and detected in our water. These tests were conducted on samples taken from various locations throughout the community. Where more than one analysis per year was conducted for a specific constituent, the range of results, from highest to lowest, during the reporting period is listed.

In accordance with State regulations, the West Hempstead Water District 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. The table presented on page 4 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 West Hempstead Water District provides treatment to all wells to improve the quality of the water prior to distribution to the consumer. The pH of the water is adjusted upward to reduce corrosive action between the water and water mains and in-house plumbing by the addition of sodium hydroxide. The District also adds small amounts of sodium hypochlorite (chlorine) as a disinfection agent and to prevent the growth of bacteria in the water distribution system.

DISTRICT FACTS

The West Hempstead Water District encompasses an area of approximately two (2) square miles. The communities within this area are West Hempstead, Cathedral Gardens, Franklin Square and Garden City South.

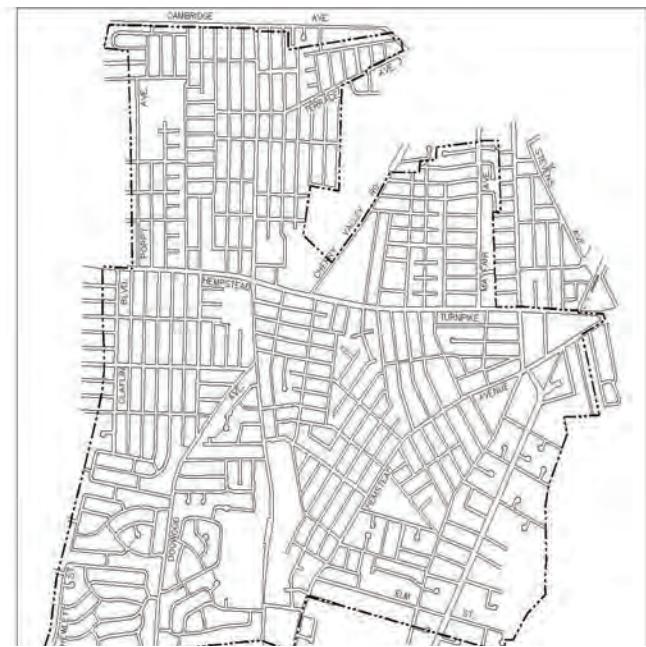
The District supplies water through approximately 120 miles of water mains ranging in size from 6" to 20". The District has the capability of pumping 8 to 9.5 million gallons of water per day from 6 supply wells. Its storage capacity of 2,900,000 gallons consists of 2 elevated storage tanks and 1 ground storage tank. Together the elevated tanks can store 1,400,000 gallons and the ground storage tank can store 1,500,000 gallons.

The population served by the West Hempstead Water District during 2014 was 32,000. The total amount of water withdrawn from the aquifer in 2014 was 1.374 billion gallons, of which approximately 90 percent was billed directly to consumers.

The water not billed to our customers was used for fire fighting and training, system flushing and loss because of an occasional water main break.

Approximately 60 percent of the water that enters the distribution system is processed through the iron removal/air stripping facility located at the Birch Street headquarters of the Water District. The facility treats all the water that is pumped from the Magothy Aquifer through Wells 9 & 10. The removal of the iron (iron is a naturally occurring element) is accomplished by passing the water through these multi-media pressure filters located at the plant. The water is then discharged into the air stripping towers for the removal of any VOCs (volatile organic compounds). In this process, the filtered water cascades over the stripping tower media (the media is similar to a wiffle ball) where it comes in contact with air being forced up into the towers from large blower fans located at the base of the tower. The treated water is discharged into a clearwell (holding tank) where it is then pumped to the elevated storage tank for delivery to the distribution system and ultimately to you the resident of the district. This filtration system has the capacity to process over 5 million gallons of water per day.

The Commissioners of the West Hempstead Water District are responsible for its overall operation and finances. The day-to-day operation and the mandated license is the responsibility of the District Superintendent. The population and pumping capacity of the West Hempstead Water District requires the Superintendent to have a Grade 1A and B Public Water System Operator's Certification. This certification or license is issued to the individual by the Department of Health of the State of New York. Requirements for this certification include successful completion of academic studies in all aspects of the water industry and a minimum of 10 years experience in the water works field. Additionally, all individuals at the West Hempstead Water District who operate any aspects of the plant have a Grade D and Grade 2-B New York State Certified Water System Operator Certification. The requirements to obtain this certification are similar to that of the Superintendent, but not as detailed.



**WEST HEMPSTEAD
WATER DISTRICT AREA**

COST OF WATER

The District utilizes the following step billing schedule with the average consumer being billed at \$1.60 per 1000 gallons.

Quarterly Water Rates

Consumption (gallons)	Charges
Up to 10,000	\$14.00 minimum
10,000 - 50,000	\$1.70/thousand gallons
Over 50,000	\$2.20/thousand gallons

NOTICE OF VIOLATION

Our water system violated a revised drinking water monitoring requirement which began in the fourth calendar quarter of 2013. Even though this was not an emergency, as our customers, you have a right to know what happened and what we did to correct this 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 October–December 2013 we did not monitor for Total Haloacetic Acid⁽¹⁾ and Total Trihalomethane⁽²⁾ and therefore cannot be sure of the quality of our drinking water during that time.*

Upon recognition of this failure, we commenced monitoring at the required frequency beginning in the first calendar quarter of 2014. The results of these samples are summarized in the **2014 Drinking Water Quality Report- Table of Detected Parameters** found elsewhere in this Drinking Water Quality Report. The results are well within acceptable limits, and consistent with previous data for these specific contaminants. The District is now operating in full compliance with this requirement.

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. At this point, there is no action required for you to take.

¹Haloacetic Acids: Dichloroacetic acid, Trichloroacetic acid, Chloroacetic acid, Bromoacetic acid, Dibromoacetic acid

²Trihalomethanes: Bromodichloromethane, Bromoform, Dibromochloromethane, Chloroform

WATER CONSERVATION MEASURES SOURCE WATER ASSESSMENT

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 2014, the West Hempstead Water District continued to implement a water conservation program in order to minimize any unnecessary water use. The pumpage for 2014 was approximately 2.4 percent more than in 2013. This can be attributed to the hotter and drier summer weather in the summer of 2014.

Residents of the District can also implement their own water conservation measures such as retrofitting plumbing fixtures with flow restrictors, modifying automatic lawn sprinklers to include rain sensors, repairing leaks in the home, installing water conservation fixtures/appliances and maintaining a daily awareness of water conservation in their personal habits. In addition, our consumers should be aware that the Nassau County Lawn Sprinkling Regulations are still in effect as outlined above. Besides protecting our precious underground water supply, water conservation will produce a cost savings to the consumer in terms of both water and energy bills (hot water).

The NYSDOH, with assistance from the local health department, 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 the section entitled "Water Quality and Treatment" 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 6 wells. The source water assessment has rated all of the wells as having a very high susceptibility to nitrates, and all but one (1) well as having very high susceptibility to industrial solvents. The elevated susceptibility to nitrates is due primarily to commercial, institutional and residential land use and related practices, such as fertilizing lawns in the assessment area. The elevated susceptibility to industrial solvents is due primarily to point sources of contamination related to commercial/industrial facilities and related practices in the assessment area.

A copy of the assessment, including a map of the assessment area, can be obtained by contacting the District office.

CONTACTS FOR ADDITIONAL INFORMATION

We are pleased to report that our drinking water is safe and meets all Federal and State requirements with the exception of iron. Iron content in the water is not a health concern, but is only an aesthetic issue. The District provides iron treatment at its iron removal facility or by the addition of a food grade sequestering agent. Now that the District's iron removal treatment facility is in operation, virtually all of the water that is delivered to the residents of the District is iron-free. The District may have to utilize a well in which the iron content of the water is higher than normal. This water is blended with the iron-free filtered water so the iron content is almost unnoticeable. As stated earlier, this condition only occurs when demand is extremely high. If you have any questions about this report or your water utility, please contact Water District Supt. Robert York at (516) 483-1180 or the Nassau County Department of Health at (516) 227-9692. The Water District's regularly scheduled District meetings are normally held each Thursday at 6:30 p.m. at the District office. We want our valued customers to be informed about our water system and the improvements that are being made to enhance the quality of the water. The normal business hours of the Water District office are 8:30 a.m. to 4:30 p.m. Should you need to contact the District at any time, the District's 24-Hour Emergency Number is (516) 483-1180 (Menu No. 5).

WATER QUALITY

The West Hempstead Water District 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 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 2014, the District collect 30 samples for lead and copper. The next round of samples will occur in 2017. 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. Franklin Square Water District 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>.

2014 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	June/July/August 2014	ND-0.76 0.39 ⁽¹⁾	mg/l	1.3	AL = 1.3	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	No	June/July/August 2014	ND - 6.4 1.4 ⁽¹⁾	ug/l	0	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits
Arsenic	No	08/14/14	ND - 2.1	ug/l	n/a	MCL = 10	Naturally occurring
Barium	No	05/08/14	ND - 0.05	mg/l	n/a	MCL = 2.0	Naturally occurring
Sodium	No	05/08/14	4.9 - 32.0	mg/l	n/a	No MCL ⁽²⁾	Naturally occurring
Zinc	No	05/08/14	ND - 0.084	mg/l	n/a	MCL = 5	Naturally occurring
Chloride	No	05/08/14	8.5 - 64.8	mg/l	n/a	MCL = 250	Naturally occurring
Iron	No	09/11/14	ND - 260	ug/l	n/a	MCL = 300 ⁽³⁾	Naturally occurring
Ammonia	No	08/14/14	ND - 0.25	mg/l	n/a	None	Runoff from fertilizer and leaching from septic tanks and sewage
Nickel	No	08/14/14	ND - 4	ug/l	n/a	MCL = 100	Naturally occurring
Nitrate	No	07/16/14	ND - 1.8	mg/l	10	MCL = 10	Runoff from fertilizer and leaching from septic tanks and sewage
Sulfate	No	08/14/14	9.0 - 34.8	mg/l	n/a	MCL = 250	Naturally occurring
Magnesium	No	05/08/14	1.0 - 3.6	mg/l	n/a	None	Naturally occurring
Calcium	No	05/08/14	1.9 - 19.0	mg/l	n/a	None	Naturally occurring
Volatile Organic Contaminants							
Dichlorodifluoromethane	No	04/22/14	ND - 0.7	ug/l	n/a	None	Freon discharge to groundwater
Tetrachloroethene	No	05/18/14	ND - 2.8	ug/l	n/a	MCL = 5	Industrial discharge
Toluene	No	02/25/14	ND - 3.1	ug/l	n/a	MCL = 5	Paint By-Products
Total Haloacetic Acid (HAA5)	No	06/23/14	ND - 3.7	ug/l	n/a	MCL = 60	Disinfection By-Products
Total Trihalomethanes (TTHM)	No	06/23/14	ND - 4.0	ug/l	n/a	MCL = 80	Disinfection By-Products
Unregulated Contaminants							
Perchlorate	No	--	ND	ug/l	n/a	None ⁽⁴⁾	Fertilizers
Synthetic Organic Contaminants Including Pesticides and Herbicides							
None Detected	--	--	ND	--	--	--	--
Radionuclides							
Gross Alpha	No	12/19/13	0.185 - 1.76	pCi/L	--	MCL = 15	Naturally occurring
Combined Radium 226 & 228	No	12/19/13	0.3 - 1.2	pCi/L	--	MCL = 5	Naturally occurring
Micro-Bacteriological							
Total Coliform	No	--	Zero ⁽⁶⁾ Positive out of 480 samples	Positive or Negative	--	MCL = Positive results in more than 5% of the monthly samples	Commonly found in the environment

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.

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).

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 2014, we collected and analyzed 30 samples for lead and copper. The 90% percentile level is presented in the table. The action levels for both lead and copper were not exceeded at any site tested. The next round of sampling for lead and copper will occur in 2017.

⁽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⁾ - Iron is only a secondary water standard. Iron has no health effects. Therefore, exceeding the MCL represents a level at which adverse aesthetics effects start to occur. The District treats the water with an iron sequestering agent to minimize the aesthetic impact of the iron. Several wells also receive iron removal treatment.

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

⁽⁵⁾ - UCMR3 - Unregulated Contaminant Monitoring Rule 3 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.

⁽⁶⁾ - During September 2014 several samples were collected and mishandled, and later determined to be invalid. Additional samples were collected and tested.

West Hempstead Water District
575 Birch Street
West Hempstead, New York 11552

PRESORTED
STANDARD MAIL
U.S. POSTAGE
PAID
HEMPSTEAD, NY
PERMIT NO. 10

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.

The West Hempstead Water District conducts over 10,000 water quality tests throughout the year, testing for over 130 different contaminants which have been undetected in our water supply including:

Cadmium	2,4,5-TP (Silvex)	Bromodichloromethane	Chlorobenzene
Chromium	Dinoseb	Bromoform	1,1,1,2-Tetrachloroethane
Mercury	Dalapon	Total Trihalomethanes	Bromobenzene
Selenium	Picloram	Gross Alpha	1,1,2,2-Tetrachloroethane
Silver	Dicamba	Gross Beta	1,2,3-Trichloropropane
Odor	Pentachlorophenol	Radium 226	2-Chlorotoluene
Manganese	Hexachlorocyclopentadiene	Radium 228	4-Chlorotoluene
Nitrite	bis(2-Ethylhexyl)adipate	Chloromethane	1,2-Dichlorobenzene
Turbidity	bis(2-Ethylhexyl)phthalate	Vinyl Chloride	1,3-Dichlorobenzene
Detergents (MBAS)	Hexachlorobenzene	Bromomethane	1,4-Dichlorobenzene
Free Cyanide	Benzo(A)Pyrene	Chloroethane	1,24-Trichlorobenzene
Antimony	Aldicarb Sulfone	Trichlorofluoromethane	Hexachlorobutadiene
Beryllium	Aldicarb sulfoxide	Chlorodifluoromethane	1,2,3-Trichlorobenzene
Thallium	Aldicarb	1,1-Dichloroethene	Benzene
Perchlorate	Total Aldicarbs	Methylene Chloride	Ethylbenzene
Lindane	Oxamyl	Trans-1,2-Dichloroethene	M,P-Xylene
Heptachlor	Methomyl	1,1-Dichloroethane	O-Xylene
Aldrin	3-Hydroxycarbofuran	cis-1,2-Dichloroethene	Styrene
Heptachloro Epoxide	Carbofuran	2,2-Dichloropropane	Isopropylbenzene (Cumene)
Dieldrin	Carbaryl	Bromochloromethane	N-Propylbenzene
Endrin	Glyphosate	1,1,1-Trichloroethane	1,3,5-Trimethylbenzene
Methoxychlor	Diquat	Carbon Tetrachloride	Tert-Butylbenzene
Toxaphene	Endothall	1,1-Dichloropropane	1,2,4-Trimethylbenzene
Chlordane	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	Sec-Butylbenzene
Total PCBs	1,2-Dibromo-3-Chl.Propane	Trichloroethene	4-Isopropyltoluene (P-Cumene)
Propachlor	Dioxin	1,2-Dichloropropane	N-Butylbenzene
Alachlor	Chloroacetic Acid	Dibromomethane	Methyl Tert.Butyl Ether (MTBE)
Simazine	Bromoacetic Acid	Trans-1,3-Dichloropropene	
Atrazine	Dichloroacetic Acid	Metribuzin	
Metolachlor	Trichloroacetic Acid	cis-1,3-Dichloropropene	
Butachlor	Dibromoacetic Acid	1,1,2-Trichloroethane	
2,4-D	Chloroform	1,3-Dichloropropane	

Copies of a Supplemental Data Package, which includes the water quality data for each of our supply wells utilized during 2014, are available at the West Hempstead Water District office located at 575 Birch Street, West Hempstead, New York and the West Hempstead Public Library. For more information, please contact Supt. Robert York at (516) 483-1180.

We, at the West Hempstead Water District, work around the clock to provide top quality water to every tap throughout the community. We ask that all our customers help us protect our water resources, which are the heart of our community, our way of life and our children's future. Please call our office if you have any questions.