

# 2012 drinking water quality report

INC. VILLAGE OF OLD WESTBURY - WATER DEPARTMENT  
PUBLIC WATER SUPPLY IDENTIFICATION NO. 2902824

## ANNUAL WATER SUPPLY REPORT

MAY 2013

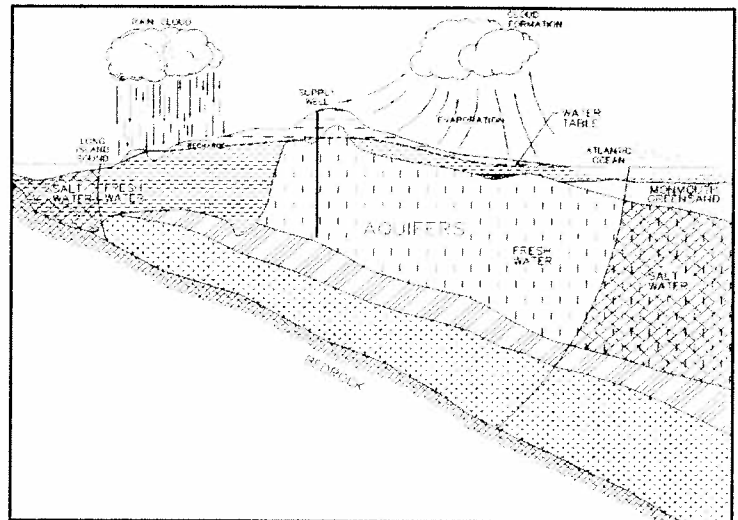
The Inc. Village of Old Westbury is pleased to present to you this year's Water Quality Report. The report is required to be delivered to all residents of our Village in compliance with Federal and State regulations. We are happy to report that during 2012, our water supply is in full compliance with 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 treatment 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.

## SOURCE OF OUR WATER

The source of water for the Village is groundwater pumped from six (6) wells located throughout the community 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.

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 population served by the Inc. Village of Old Westbury during 2012 was 4,350. The total amount of water withdrawn from the aquifer in 2012 was 703.3 million gallons, of which approximately 90.5 percent was billed directly to consumers.



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 2012, the Inc. Village of Old Westbury continued to implement a water conservation program in order to minimize any unnecessary water use. The pumpage for 2012 was 3.1 percent less than in 2011. This is due to the slightly cooler and wetter weather that occurred in the Summer of 2012.

### 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

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 Supt. of Water, Richard Leston at (516) 626-0800 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 meetings. They are normally held on the third Monday of each month at 7:00 p.m. at the Village Hall.

The Inc. Village of Old Westbury 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, 2012. 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.

## NEW YORK STATE MANDATORY HEALTH ADVISORY

The USEPA established a Lead and Copper Rule that required all public water suppliers to sample and test for lead and copper at the tap. The first testing was required in 1992. All results were excellent indicating that the Village's corrosion control treatment program was effective in preventing the leaching of lead and copper from your home's plumbing in to your drinking water. The same testing was last conducted last year with the same excellent results. The Village will conduct its next round of sampling and testing in 2014.

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 SYSTEM IMPROVEMENTS

Over the past year, the Village continued with the construction improvements to its water supply system.

## WATER TREATMENT

The Inc. Village of Old Westbury provides treatment at all wells to improve the quality of the water pumped prior to distribution to the consumer. The pH of the pumped water is adjusted upward to reduce corrosive action between the water and water mains and in-house plumbing by the addition of sodium hydroxide. In addition, the Village also adds small amounts of calcium hypochlorite (chlorine) as a disinfecting agent and to prevent the growth of bacteria in the distribution system.

The Inc. Village of Old Westbury conducts over 10,000 water quality test throughout the year, testing for over 130 different contaminants which have been undetected in our water supply including:

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

## COST OF WATER

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

### SEMI-ANNUAL WATER RATES

Consumption (gallons)	Charges
Up to 100,000	\$175.00 (minimum)
Next 300,000	\$2.25/thousand gallons
Next 400,000	\$3.25/thousand gallons
Over 800,000	\$4.25/thousand gallons

## 2012 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
<b>Inorganic Contaminants</b>							
Copper	No	June/July 2011	ND-0.18 <sup>(1)</sup>	mg/l	1.3	AL = 1.3	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	No	June/July 2011	ND - 1.33 <sup>(1)</sup>	ug/l	0	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits
Barium	No	01/27/12	0.004 - 0.01	mg/l	n/a	MCL = 2	Naturally occurring
Sodium	No	02/17/12	2.7 - 14.8	mg/l	n/a	No MCL <sup>(2)</sup>	Naturally occurring
Zinc	No	01/27/12	ND - 0.04	mg/l	n/a	MCL = 5	Naturally occurring
Magnesium	No	01/27/12	0.33 - 2.9	mg/l	n/a	None	Naturally occurring
Nickel	No	01/27/12	ND - 2.4	mg/l	n/a	None	Naturally occurring
Chloride	No	01/27/12	3.6 - 9.6	mg/l	n/a	MCL = 250	Naturally occurring
Calcium	No	01/27/12	0.9 - 6.7	mg/l	n/a	None	Naturally occurring
Nitrate	No	02/17/12	0.2 - 2.2	mg/l	10	MCL = 10	Runoff from fertilizer and leaching from septic tanks and sewage
Sulfate	No	01/27/12	ND - 5.3	mg/l	n/a	MCL = 250	Naturally occurring
<b>Volatile Organic Contaminants</b>							
1,1,1-Trichloroethane	No	01/19/12	ND - 1.4	ug/l	0	MCL = 5	Industrial discharge
1,1-Dichloroethene	No	01/19/12	ND - 1.6	ug/l	0	MCL = 5	Industrial discharge
Trichloroethene	No	01/20/12	ND - 0.8	ug/l	0	MCL = 5	Industrial discharge
Total Trihalomethanes (TTHM)	No	04/17/12	ND - 0.5	ug/l	0	MCL = 80	Disinfection By-Products
<b>Synthetic Organic Contaminants Including Pesticides and Herbicides</b>							
None Detected	--	--	ND	--	--	--	--
<b>Radionuclides</b>							
Gross Alpha	No	10/07/10	0.03 - 0.03	pCi/L	--	MCL = 15	Naturally occurring
Radium 228	No	10/08/10	0.7 - 1.8	pCi/L	--	NO MCL	Naturally occurring

### 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.

<sup>(1)</sup> - During 2011, 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 sampling program for lead and copper will be conducted in 2014.

<sup>(2)</sup> - 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.

## SOURCE WATER ASSESSMENT

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" 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.

Our drinking water is derived from six (6) wells. The source water assessment has rated three (3) of the wells as having a very high susceptibility to industrial solvents and two (2) of the wells as having a high susceptibility to nitrates. The elevated susceptibility to industrial solvents is due primarily to point sources of contamination related to commercial/industrial facilities and related activities in the assessment area. The high susceptibility to nitrates is attributable to unsewered residential land use and related practices in the assessment area, such as fertilizing lawns. A copy of the assessment, including a map of the assessment area, can be obtained by contacting the Village Water Department.

## WATER QUALITY

In accordance with State regulations, the Inc. Village of Old Westbury 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 135 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.

Copies of a Supplemental Data Package, which includes the water quality data for each of our supply wells utilized during 2012, are available at the Inc. Village of Old Westbury - Village Hall located at 1 Store Hill Road, Old Westbury, New York and the Westbury Public Library.

We at Inc. Village of Old Westbury work diligently to provide top quality water to your tap. 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.

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## INCORPORATED VILLAGE OF OLD WESTBURY

1 Store Hill Road

Old Westbury, New York 11568

### **Board of Trustees**

Mayor Fred Carillo  
Trustee Harvey R. Blau  
Trustee Michael Wolf  
Trustee Harvey Simpson  
Trustee Elizabeth Greenberg

### **Village Administrator**

Kenneth J. Callahan

### **Superintendent of Water**

Richard Leston