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Plainview Water District

2005 Drinking Water Quality Report

Public Water Supply Identification No.: 2902845

ANNUAL WATER SUPPLY REPORT

Spring 2006

The Plainview 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 who live in the community and District 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 District is groundwater pumped from the 12 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, although there are localized areas of contamination.

The population served by the Plainview Water District during 2005 was 32,747. The total amount of water withdrawn from the aquifer in 2005 was 1.61 billion gallons, of which approximately 97.0 percent was billed directly to consumers.

COST OF WATER

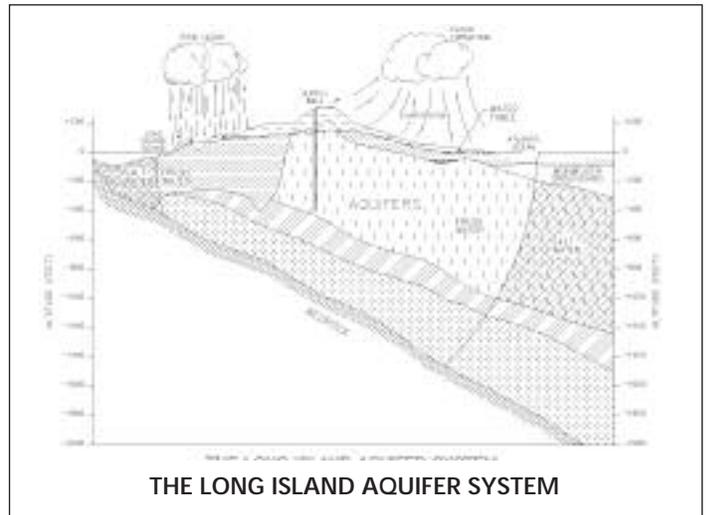
The District utilizes a step billing schedule as shown with the average consumer being billed at \$0.95/1000 gallons.

CONTACTS FOR ADDITIONAL INFORMATION

We are pleased to report that our drinking water is safe and meets all Federal and State requirements. If you have any questions about this report or concerning your water utility, please contact Water District Superintendent Paul J.

QUARTERLY WATER RATES

Consumption	Charges
Up to 10,000 gallons	\$6.50 minimum
10,000 to 40,000 gallons	\$1.05 per thousand gallons
40,000 to 100,000 gallons	\$1.30 per thousand gallons
Over 100,000 gallons	\$1.90 per thousand gallons



Granger, P.E. at (516) 931-6469 or the Nassau County Department of Health at (516) 571-3324. 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 every Monday or Tuesday at 7:30 p.m. at the Water District office, located at 10 Manetto Hill Road. Updated meeting schedules are posted on a monthly basis at the Water District office, Plainview Public Library and on the District website located at <http://www.plainviewwater.org>.

The Plainview 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

Contaminants or Constituents	Violation (Yes/No)	Date of Max. Sample	Level Detected (Maximum) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL or AL)	Likely Source of Contaminant
INORGANIC CONTAMINANTS							
Copper	No	June, July, August, Sept. 2005	0.97 ⁽¹⁾ ND - 2.21	mg/l	1.3	AL = 1.3	Corrosion of galvanized pipes; Erosion of natural deposits
Lead	No	June, July, August, Sept. 2005	3.6 ⁽¹⁾ ND-12.4	ug/l	0	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits
Sodium	No	12/15/05	14.1 ND - 14.1	mg/l	n/a	No MCL ⁽²⁾	Naturally occurring
Manganese	No	12/19/05	3.7 ND - 3.7	ug/l	n/a	MCL =300	Naturally occurring
Calcium	No	12/15/05	11.0 0.8 -11.0	mg/l	None	None	Naturally occurring
Chloride	No	12/15/05	20.0 3.1 - 20.0	mg/l	n/a	MCL = 250	Naturally occurring
Iron	Yes	12/19/05	288 ND - 288	ug/l	n/a	MCL = 300	Naturally occurring
Nitrate	No	12/19/05	8.4 0.1 - 8.4	mg/l	10	MCL = 10	Runoff from fertilizer and leaching from septic tanks and sewage
Magnesium	No	12/15/05	3.8 ND - 3.8	mg/l	None	None	Naturally occurring
SYNTHETIC ORGANIC CONTAMINANTS INCLUDING PESTICIDES AND HERBICIDES							
None Detected	—	—	ND	—	—	—	—
VOLATILE ORGANIC CONTAMINANTS							
1,1-Dichloroethene	No	9/12/05	2.7 ND - 2.7	ug/l	0	MCL = 5.0	Industrial chemical discharge
1,1,1-Trichloroethane	No	9/12/05	2.2 ND - 2.2	ug/l	0	MCL = 5.0	Industrial discharge from metal degreasing site
1,2-Dichloroethane	No	9/12/05	0.7 ND - 0.7	ug/l	0	MCL = 5.0	Industrial chemical discharge
Dibromochloromethane	No	12/6/05	1.0 ND - 1.0	ug/l	0	MCL = 5.0	Industrial chemical discharge
cis-1,2-Dichloroethene	No	9/19/05	2.5 ND - 2.5	ug/l	0	MCL = 5.0	Industrial chemical discharge
Trichloroethene	No	9/19/05	1.8 ND - 1.8	ug/l	0	MCL = 5.0	Industrial discharge from metal degreasing site
Total Trihalomethanes	No	9/12/05	5.3 ND - 5.3	ug/l	0	MCL = 80	Chlorine By-Product
UNREGULATED CONTAMINANTS⁽³⁾							
Perchlorate	No	3/22/05	9.7 ND - 9.7	ug/l	n/a	AL = 18	Fertilizer and/or Chemical 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.

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.

(1) - During 2005 we collected and analyzed 40 samples for lead and copper. The 90% percentile level is presented in the table. The action level for lead was not exceeded at any site tested. The action level for copper was exceeded at only one site. The next round of sampling and testing will occur in 2008.

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

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

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.

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 District'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 is repeated every three years and was last conducted in 2005. Results of the 2005 testing also were excellent. Retesting is scheduled for 2008.

NEW YORK STATE MANDATORY HEALTH ADVISORY

Water from the Plainview Water District has elevated levels of nitrates, but clearly below the maximum contaminant level of 10.0 parts per million. 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. The source of the nitrates is the nitrogen in fertilizers and from on-site septic systems. If you are caring for an infant you should ask advice from your health care provider.

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 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 2005, the Plainview Water District continued to implement a water conservation program in order to minimize any unnecessary water use. However, the

pumpage for 2005 was 9.2 percent higher than in 2004. This increase can most likely be attributed to the hotter and drier weather difference between the two (2) years.

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, the Nassau County Lawn Sprinkler Regulations are still in effect. 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).

WATER TREATMENT

The Plainview Water District 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 lime. The pumped water is also chlorinated to a minimum chlorine residual of 0.1 milligrams per liter (mg/l) to protect against the growth of bacteria within the distribution system. At Plant No. 4, an individual well with high nitrate levels is blended with another well with low nitrate levels to meet the nitrate limit of 10 mg/l. A carbon adsorption treatment system is available for Well No. 3-2 for the removal of volatile organic compounds. Well Nos. 4-2, 5-1, 5-2 and 7 are presently treated by air stripping treatment systems for the removal of volatile organic compounds.

The District is continuing with its Capital Improvement Program to ensure all of the equipment and facilities are in optimum working order. The District is constructing a wellhead treatment system at Plant No. 2.

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.

Drinking water is derived from 12 wells. The source water assessment has rated most of the wells as having a very high susceptibility to industrial solvents and a high susceptibility to nitrates. The elevated 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 elevated susceptibility to nitrates is due to unsewered residential land use and related practices, such as fertilizing lawns, in portions of the assessment area.

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

It must be noted that assessment results indicating an elevated susceptibility does not imply supply well contamination or inevitability. Susceptibility correlates to contaminant prevalence and sensitivity. Furthermore, a supply well that has a medium to high susceptibility demonstrates the need for continuing management of potential contamination sources. It is important to note that there is a distinct difference between raw source water and actual finished (treated) water delivered to the

customers. Water suppliers are obligated by strict federal, state and local laws and regulations to provide water that is safe to drink. Treatment is required when water quality results indicate the presence of contaminants at or above an established maximum contaminant level.

WATER QUALITY

In accordance with State regulations, the Plainview 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 2 of this Water Quality Report 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 2005, are available at the Plainview Water District office located at 10 Manetto Road, Plainview, New York, local Public Library and the Water District website located at <http://www.plainviewwater.org>.

We at the Plainview 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.

S.T.O.P. to Protect Your Groundwater

Every household tends to accumulate a collection of hazardous waste products that if disposed of in the regular trash, or even left sitting in a garage or basement, can be harmful to our local groundwater supply. The Town of Oyster Bay S.T.O.P. program (Stop Throwing Out Pollutants) provides drop-off facilities, which collect hazardous and electronic waste, allowing the town to properly dispose of the materials.

S.T.O.P. drop-off facilities can accept: Aerosol cans, batteries, chemistry kits, deodorizers, many medicines, oven cleaners, pesticides, pool chemicals, wood polish, non-latex and latex paints, antifreeze, many fertilizers, drain cleaners, laundry products, photographic chemicals, waste motor oil, paint thinner, pet cleaners, weed killers, propane tanks, upholstery cleaners and spot removers. S.T.O.P. also accepts the following electronic waste items: cables, cell phones, computer monitors, copiers, fax machines, hard drives, keyboards and mice, pagers, printers, stereos and VCRs.

S.T.O.P. drop-off facilities cannot accept: Ammunition, biohazard/medical wastes, radioactive materials, fireworks,

explosives of any kind, unlabeled or unidentified materials, water-based paints, or commercial or industrial wastes.

The S.T.O.P. schedule for the remainder of the year is as follows:

- April 22 – Massapequa, John J. Burns Town Park, Merrick Road
- May 21 – Syosset, Oyster Bay Department of Public Works Garage, 150 Miller Place
- June 17 – Massapequa, Town Hall South, 977 Hicksville Road
- July 15 – Sea Cliff, Sea Cliff Department of Public Works Garage, Altamont Avenue
- August 19 – Hicksville, Hicksville Fire Department, West John Street
- September 16 – Old Bethpage Solid Waste Disposal Complex, Bethpage-Sweet Hollow Road
- October 14 – Massapequa, Town Hall South, 977 Hicksville Road
- November 19 – Syosset, Oyster Bay Department of Public Works Garage, 150 Miller Place

For more information on the S.T.O.P. program, call the Town of Oyster Bay at (516) 677-5748.