

Board of Commissioners

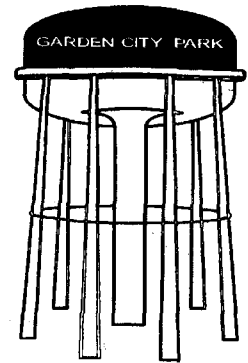
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District Superintendent
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Garden City Park Water District

2010 Drinking Water Quality Report

Public Water Supply Identification No.: 2902825



ANNUAL WATER SUPPLY REPORT

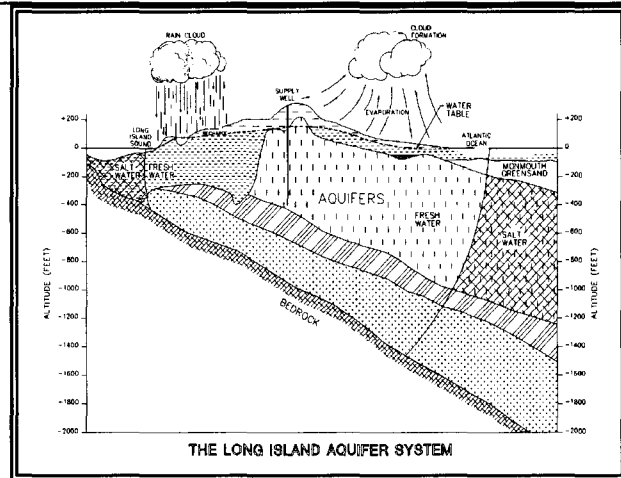
May 2011

The Garden City Park 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. This report is designed to inform you about the quality of water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We also want you to understand the efforts we make to continually improve the water-treatment process and protect our water supply. 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 the 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, although there are localized areas of contamination.

The population served by the Garden City Park Water District during 2010 was 18,000. The total amount of water withdrawn from the aquifer in 2010 was 1.15 billion gallons, of which approximately 91 percent was billed directly to consumers.



COST OF WATER

The District utilizes a step billing schedule presented below with the average consumer being billed at \$1.20/1000 gallons.

QUARTERLY WATER RATES

<u>Consumption (gallons)</u>	<u>Charges</u>
Up to 10,000	\$1.10/thousand gallons
Over 10,000	\$1.20/thousand gallons
Commercial Rate	\$1.40/thousand gallons

CONTACT 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 your water supply, please contact Water District Superintendent, Michael Levy, at (516) 746-3194 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 second Wednesday of each month at 8:00 p.m. at the Water District office.

The Garden City Park 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.

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 2010, the Garden City Park Water District continued to implement a water conservation program in order to minimize any unnecessary water use. The pumpage for 2010 was approximately 9.5 percent more than in 2009. This increase can be attributed to the hotter and drier weather in the summer of 2010. The conservation program has been proven to be effective and will remain in effect in 2011.

Consumers should be aware that Nassau County Lawn Sprinkler Regulations of Odd-Even Watering Days are still in effect. In addition, the District feels it is necessary to impose increased water restrictions which prohibit irrigation between the hours of 6 a.m. to 6 p.m. 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

Prior to distribution to the consumer, the Garden City Park Water District provides treatment at all wells to improve the quality of the water pumped. 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. An air-stripping tower at Plant No. 6 is utilized to treat potable water from Well No. 6 for the removal of volatile organic compounds. Similar treatment facilities are also utilized at Plant Nos. 7/10, 8 and 9. A granular activated carbon filter is used at Well No. 11 for the removal of volatile organic compounds. The District is also mandated to chlorinate the water supply with small amounts of chlorine. The chlorine disinfects the water to protect against the possibility of bacteria in the water supply.

WATER QUALITY

In accordance with State regulations, the Garden City Park 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 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 effects.

Water from the Garden City Park Water District has a slightly elevated nitrate level but is well 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 for advice from your health care provider.

**GARDEN CITY PARK WATER DISTRICT
2010 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 - Sept. 2008	ND - 0.09 ⁽¹⁾	mg/l	1.3	AL = 1.3	Corrosion of household plumbing; erosion of natural deposits
Lead	No	June - Sept. 2008	ND - 1.36 ⁽¹⁾	ug/l	0	AL = 15	Corrosion of household plumbing; erosion of natural deposits
Iron	No	01/11/10	ND - 30	ug/l	N	MCL = 300	Naturally occurring
Zinc	No	01/07/10	ND - 0.03	mg/l	n/a	MCL = 5.0	Naturally occurring
Sodium	No	01/11/10	15.8 - 34.1	mg/l	n/a	No MCL ⁽²⁾	Naturally occurring
Magnesium	No	01/11/10	7.5 -15.1	mg/l	n/a	None	Naturally occurring
Chloride	No	01/11/10	38.9 - 66.0	mg/l	n/a	MCL = 250	Naturally occurring
Calcium	No	01/11/10	16.0 - 25.1	mg/l	n/a	No MCL	Naturally occurring
Nitrate	No	01/12/10	3.8 - 7.1	mg/l	10	MCL = 10	Runoff from fertilizer and leaching from septic tanks and sewage
Sulfate	No	01/12/10	29.4 - 41.4	mg/l	n/a	MCL = 250	Naturally occurring
Perchlorate	No	01/07/10	ND - 1.3	ug/l	n/a	None ⁽³⁾	Fertilizer
Synthetic Organic Contaminants Including Pesticides and Herbicides							
None Detected	--	--	ND	--	--	--	--
Radiological							
Gross Alpha	No	12/22/10	0.7 - 2.1	pci/L	--	MCL = 15 pci/L	Naturally occurring
Radium 228	No	12/22/10	1.2 - 1.8	pci/L	--	No MCL	Naturally occurring
Volatile Organic Contaminants							
Tetrachloroethene	No	04/08/10	ND - 1.3	ug/l	0	MCL = 5	Industrial/Commercial Discharge
MTBE	No	07/06/10	ND - 1.7	ug/l	0	MCL = 10	Gasoline Additive
Total Trihalomethanes	No	01/04/10	ND - 1.7	ug/l	na	MCL = 80	Disinfection By-Product

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).

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

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

⁽¹⁾ - During 2008 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.

⁽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 not regulated by the USEPA. However, New York State has set an action level of 18.0 ppb.

**A Publication of the Garden City Park
Water/Fire District**

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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 five (5) of the wells as having a very high susceptibility to industrial solvents and one (1) well with a high susceptibility to nitrates. The elevated susceptibility to industrial solvents and nitrates is due primarily to point sources of contamination related to commercial/industrial facilities and related activities in the assessment area. In addition, the high susceptibility to nitrates is also 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 reviewed by contacting the District office.

Copies of a Supplemental Data Package, which includes the water quality data for each of our supply wells utilized during 2010, are available at the Garden City Park Water District office which is located at 333 Marcus Avenue, Garden City Park, New York and the local Public Library.

We, at the Garden City Park 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 supply which will improve our way of life and our children's future.