

Section 4

Data Presentation

The weather and groundwater data collected by DPW during the 2000 – 2003 period, and the historical information collected since the 1930s when DPW first began its groundwater monitoring efforts, is voluminous. In order to present this wealth of information in a manageable, concise, and comprehensive fashion, a series of tabulations have been assembled for this section. These tabulations present detailed information collected from DPW's monitoring endeavors during the 2000 – 2003 period, and provide a historical perspective for weather, groundwater levels, and VOC quality monitoring during the entire period of record. The following sub-sections discuss the various databases maintained by DPW.

4.1 Temperature and Precipitation Data

Table 4-1 depicts precipitation, average temperature, and snowfall on a monthly basis from the Mineola weather station for the years 2000 – 2003. In addition, historical maximum and minimums over the life of the station are shown for each month for comparison purposes. Daily temperature and precipitation data has been collected at the Mineola station since 1936, the collection of hourly precipitation data at this station began in 1941, and the reporting of all weather data collected by DPW to the National Weather Service also began in 1941.

The wide variation in weather conditions that occur in the County from month to month and year to year is depicted in the table. Although DPW also operates weather stations in the Wantagh and Upper Brookville areas as previously pointed out in Section 3, data from these stations is not included in this report. However, the data is available to all interested parties upon request. Weather conditions recorded at these stations are generally quite similar to conditions recorded at Mineola. The Mineola weather station, located centrally within the County, is therefore considered to be representative of weather conditions throughout the entire County for purposes of this document.

4.2 Groundwater Monitoring Data

The components and extent of DPW's monitoring well network have been addressed and described in Section 3. The monitoring efforts have yielded valuable information concerning the quantity and quality of the County's groundwater resource. This information, when evaluated and compared to historical information collected during prior years, displays discernable trends and gives a clear understanding of the behavior of the County's aquifer system and condition of the groundwater resource.

4.2.1 Groundwater Levels

Groundwater levels are typically discussed in terms of elevations in feet above mean sea level. In this way, changes in groundwater levels are compared from a common reference, which allows the preparation of contour maps that represent the water table in the Upper Glacial aquifer and potentiometric surface elevations of the deeper aquifers. Contour maps are useful representations of these surfaces and associated groundwater flow directions. They distinctly show fluctuations in water elevations that occur over time, on a countywide scale.

Water Table and Potentiometric Surfaces

The regional water level measurements allow contour maps to be drawn of the water table, and of the potentiometric surfaces of the Magothy and Lloyd aquifers that lie deeper within the groundwater system. Regional water level data is included in Table A-1 of the appendix for the spring and fall seasons of the 2000 – 2003 time period. The table also depicts historical maximum

and minimum water levels during the life of each monitoring well. Figures 4-1 through 4-6 show contours of the water table and potentiometric surfaces in the Upper Glacial and Magothy aquifers, respectively, for years 2001 – 2003. Figure 4-7 depicts the potentiometric surface in the Lloyd and North Shore aquifer during September 2003. Prior to September 2003, an insufficient number of Lloyd and North Shore monitoring wells were available for the regional water level run, and the limited spatial distribution of monitoring wells precluded the preparation of potentiometric maps for these aquifers.

In most areas of the County, the water table is in the Upper Glacial aquifer. However, in the east-central and north-east portion of the County, and along the groundwater divide, the Upper Glacial aquifer is in the unsaturated zone and the water table is actually in the Magothy aquifer. The water table is in the Magothy aquifer in other localized areas of the County as well. In such instances, shallow Magothy aquifer monitoring wells that just penetrate the water table were used to obtain water table elevation data. These shallow Magothy aquifer monitoring wells are identified as either Magothy (wt), M(wt), or (Mwt) on the various figures and tables throughout this report.

The upper portion of the Magothy aquifer is generally in direct contact with the Upper Glacial aquifer and is unconfined. The large amount of clay and finer sediments in the upper and mid segments of the Magothy aquifer causes the lower portion of the Magothy aquifer, which generally consists of coarser sediments and gravel, to become increasingly confined with depth. This can cause the potentiometric heads to vary between wells in some areas, depending on the depth of the wells. For this reason, the majority of water level measurements used to develop the Magothy aquifer potentiometric surface elevation maps were obtained from monitoring wells screened in the lower zone of the aquifer. In isolated instances, elevations from wells screened in the middle zone were used, if no deeper wells were available in a particular area.

On the Great Neck and Manhasset Neck peninsulas, glacial action eroded the Lloyd aquifer, Raritan Clay, and Magothy aquifer in certain areas, with subsequent deposition of the North Shore aquifer and North Shore confining unit. In most areas, the Lloyd and North Shore aquifers are both confined by an overlying clay layer (Raritan Clay or North Shore confining unit), and are in hydrogeologic contact with each other. Due to the hydrogeologic connection and confined nature of both aquifers, North Shore aquifer monitoring wells were included in constructing the potentiometric surface map of the Lloyd aquifer in Figure 4-7.

The most current monitoring well aquifer designations were utilized in constructing the potentiometric surface maps of the deeper aquifers. As more stratigraphic information is obtained, especially in the north shore areas, aquifer designations and interrelationships between aquifers may be revised, which could then slightly alter the potentiometric surface configurations presented in this document.

Drought Indicator Wells

Table 4-2 summarizes monitoring well identification, location, and water level information for the 24 monitoring wells that comprise the “Drought Indicator Well Network.” Water levels in these wells are measured on a monthly basis at the beginning of each month. In order to clearly illustrate the fluctuations in water elevations observed at each well, maximum and minimum levels are shown for each year since 2000. Additionally, historical maximum and minimum levels are included for comparison purposes. Figure 3-6 depicts the locations of the monitoring wells that comprise the drought indicator well network.

Southwest Nassau Indicator Wells

Table 4-3 summarizes monitoring well identification, location, and water level information for the 19 monitoring wells of the “Southwest Nassau Indicator Well Network.” These wells are read on a monthly basis at the beginning of each month. The tabular summary is presented in the same format as that prepared for the drought indicator wells. Figure 3-7 depicts the locations of the monitoring wells that comprise the southwest Nassau indicator well network.

4.2.2 Raw Groundwater Quality Results

Raw groundwater quality results presented in this document were analyzed by the DPW Environmental Laboratory with the exception of the analysis for pesticide, pesticide degradation products, and some pharmaceutical compounds, which were performed by the Suffolk County Department of Health Services – Public and Environmental Health Laboratory (SCDHS-PEHL) for DPW under the New York State Department of Environmental Conservation (NYSDEC) sponsored monitoring program to detect pesticides in Long Island groundwater.

The DPW Environmental Laboratory is certified by the New York State Department of Health (ELAP ID #10862) in the environmental analyses category for Non-potable Water, and is in conformance with National Environmental Laboratory Accreditation Conference Standards (NELAC). The facility is designed to provide comprehensive, efficient and economical analytical support to the various sections of DPW.

The SCDHS-PEHL is certified by the New York State Department of Health (ELAP ID #10528) in the categories of Potable Water, Non-potable Water, Solid and Hazardous Waste, and Air Emissions, and is in conformance with NELAC. This is a state-of-the art laboratory and has previously developed analytical procedures that have been adopted in USEPA Method 531.1 (N-methylcarbamate pesticides). The laboratory has developed a high performance liquid chromatography-ultraviolet detection (HPLC-UV) method for the determination of the two metabolites of the herbicide Dacthal in groundwater. In addition, SCDHS-PEHL has also developed an HPLC-mass spectrometry (MS) method for the determination of herbicides (1 parent and 13 metabolites), insecticides (3 parent and 1 metabolite), 1 parent fungicide and 2 pharmaceutical compounds in groundwater.

The abbreviation “BDL” appears in many tables of this document that summarize raw groundwater quality results and in many figures that portray overall raw groundwater quality in Nassau County’s aquifers. The abbreviation stands for “Below Detection Level,” and is the result reported when the particular quality parameter, or compound being analyzed for, was not detected by the laboratory analytical instrumentation. Detection levels of the instrumentation are calibrated at very low concentrations (well below drinking water standards) by the respective laboratory for each parameter being analyzed.

Volatile Organic Chemical Sample Results

Table 3-1 of Section 3 depicted the list of VOC compounds that were included in the VOC analyses conducted by DPW’s Environmental Laboratory. Total Volatile Organic Chemical (TVOC) concentrations for each raw groundwater quality sample taken during the 2000 – 2003 period are listed in Table 4-4. If more than one sampling event occurred in any given year of this period, the higher TVOC concentration was indicated on the table. In order to show TVOC quality trends for the respective monitoring wells, the table also indicates the initial sampling event at each monitoring well with the respective concentration detected, and historic maximum TVOC concentrations detected during the 1980s and 1990s, if available.

Methyl tertiary butyl ether (MTBE) was included in the VOC analysis during the 2000 – 2003 period and, therefore, is included in TVOC concentrations of each monitoring well presented in Table 4-4. Since MTBE has become a contaminant of concern over the last several years, MTBE results were segregated and incorporated into Table 4-5. This table summarizes MTBE sample results since 1995 for all monitoring wells where the presence of MTBE was found greater than (>) or equal to (=) 2 ppb, along with the respective concentration detected in each monitoring well (2 ppb is the current detection limit of the DPW Environmental Laboratory). The table shows the wide range of concentrations detected in Nassau County’s raw groundwater.

Pesticide, Pharmaceutical and Perchlorate Sample Results

Table 3-2 of Section 3 depicted the comprehensive list of pesticides and pesticide degradation products, in addition to various pharmaceutical compounds, included in the analysis conducted by the SCDHS-PEHL laboratory. Figure 3-8 depicted monitoring well locations, distributed throughout the County, that were sampled for these classes of compounds as well as perchlorate during the 2001 – 2003 period. Tables 4-6 through 4-8 list the monitoring wells that were sampled for the aforementioned compound classes, along with the names of specific compounds and respective concentrations detected at each of the monitoring wells that were sampled.

On Tables 4-6 through 4-8, “trace” levels were detected for some specific compounds, and are indicated as such with “(T)” next to the concentration indicated for the respective compound. Trace, or (T), was reported by the SCDHS-PEHL if a concentration detected for a particular compound was above the statistically calculated method detection limit for that compound, but was below the minimum reportable level (detection level) of the laboratory instrumentation calibration for that particular compound.

Inorganic Chemical Sample Results

As a basis for comparison, inorganic chemical concentrations in the raw groundwater from the sixteen (16) monitoring wells sampled during the 2000 – 2003 period were found to be below drinking water standards for health related substances. Iron concentrations were detected at elevated levels, although consistent with levels normally found in Nassau’s raw groundwater, which is a result of naturally occurring iron in the subsurface geology on Long Island. Nitrate was found in the raw groundwater from these monitoring wells in low concentrations, well below drinking water standards, which further confirms the beneficial effect of sanitary sewers that serve over 90% of Nassau’s population.

Chloride Sample Results

Table 4-9 summarizes historical chloride sampling from the monitoring wells that comprise the south shore saltwater intrusion monitoring well network. Chloride sampling began along the south shore during the 1960s and has continued up to the present in an expanded network of wells. Chloride sampling along the north shore began during the 1990s and has also been continued up to the present. Results for north shore saltwater intrusion monitoring are presented in Table 4-10. Both tables present individual chloride sampling results for the 2000 – 2003 time period along with maximum chloride concentrations detected during prior decades.

4.3 Public Water Supply Withdrawal

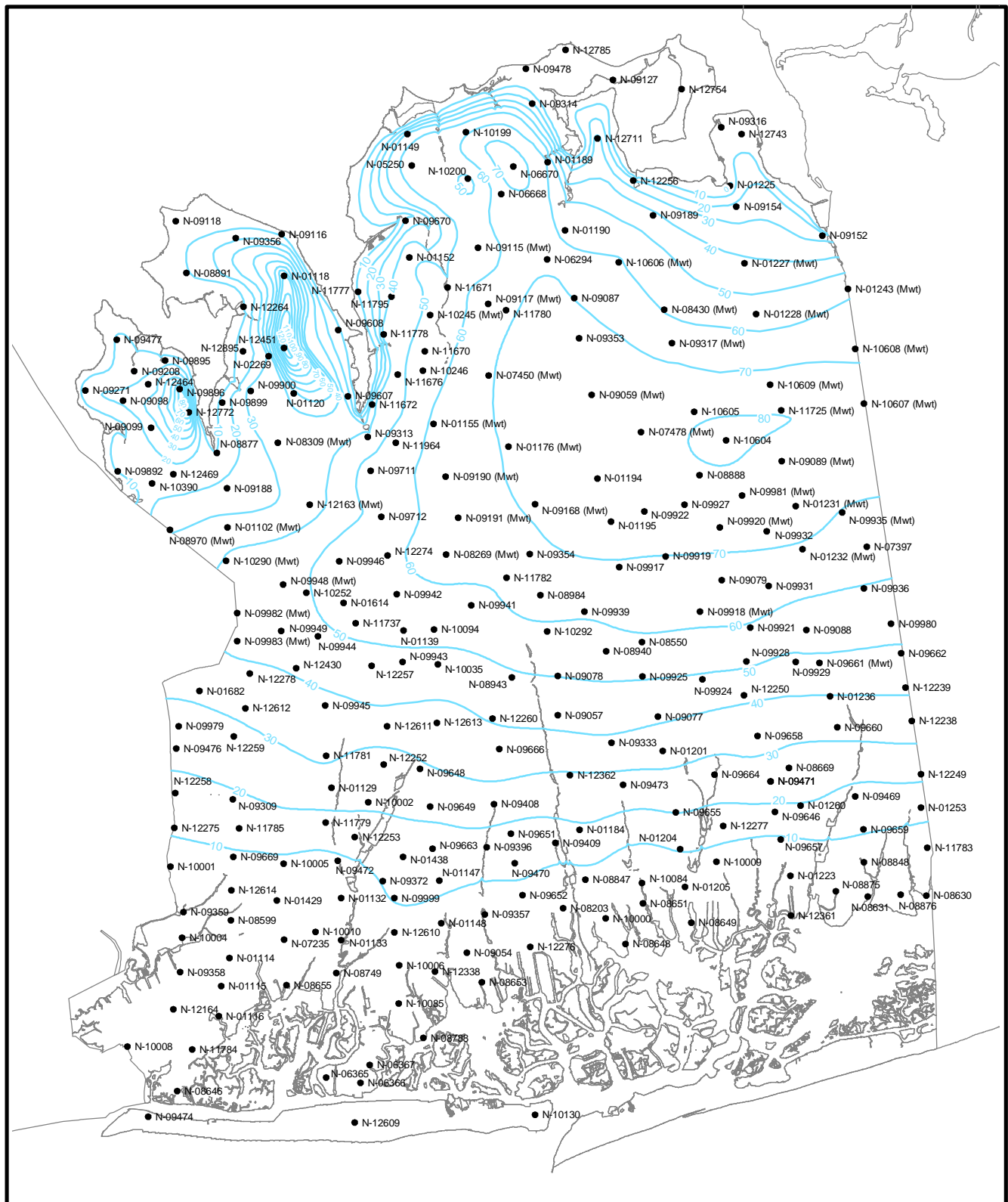
Annual public water supply withdrawal for the years 1990 through 2003, broken down by major public water suppliers in Nassau County, is presented in Table 4-11. The total amount of groundwater withdrawn by these public water suppliers accounts for over 97% of the water pumped in the County. Because groundwater consumption by private wells is insignificant (less than 3%), private water usage is not included in the discussion of public supply withdrawal. Also, several small community water systems serving a limited number of residents and amounting to a negligible

demand (less than 1% of total annual countywide withdrawal) are not included in Table 4-11. For each major water supplier, Tables 4-12 through 4-15 depict their respective monthly withdrawals during each year for the 2000 – 2003 time period.

Water usage in Nassau County is comprised of residential, commercial, and industrial components. Since the portion attributed to commercial and industrial demand is minimal (on the order of 10%), all withdrawal reported by the water suppliers is assumed to be residential use for purposes of this report.

It should be noted that several public water systems receive potable water from adjoining suppliers, namely: Village of East Williston is supplied by Village of Williston Park, Garden City South Water District is supplied by West Hempstead-Hempstead Gardens Water District, Glenwood Water District is supplied by Roslyn Water District, and Plandome Village is supplied by Manhasset-Lakeville Water District. The water used by these systems is included in the amount of water withdrawn and reported by the supplying village or district.

Further, it is also noted that the Town of Hempstead (TOH) is comprised of Bowling Green Estates Water District, East Meadow Water District, Levittown Water District, Roosevelt Field Water District, Uniondale Water District, and Lido-Point Lookout Water District. Excluding Lido-Point Lookout, the other five districts are contiguous and can transfer water between their respective distribution systems. Therefore, the water pumped by these five districts is reported as an aggregate amount under “Town of Hempstead” on Table 4-11, which is consistent with how NYSDEC views water pumped from the contiguous districts. Water pumped by each of the contiguous TOH districts is reported separately on the monthly withdrawal tabulations of Tables 4-12 through 4-15.



Legend

—60— Water Table Contour - Indicates Elevation of Water Table. Contour Interval is 10 Feet. Datum is Mean Sea Level.

Location of NCDPW Groundwater Monitoring Well with NYS Well No. and Aquifer Designation as Follows:

- N-09943 Upper Glacial
- N-11725 (Mwt) Magothy - Water Table

Site Location

FIGURE 4-1

WATER TABLE ELEVATION
SEPTEMBER 2001

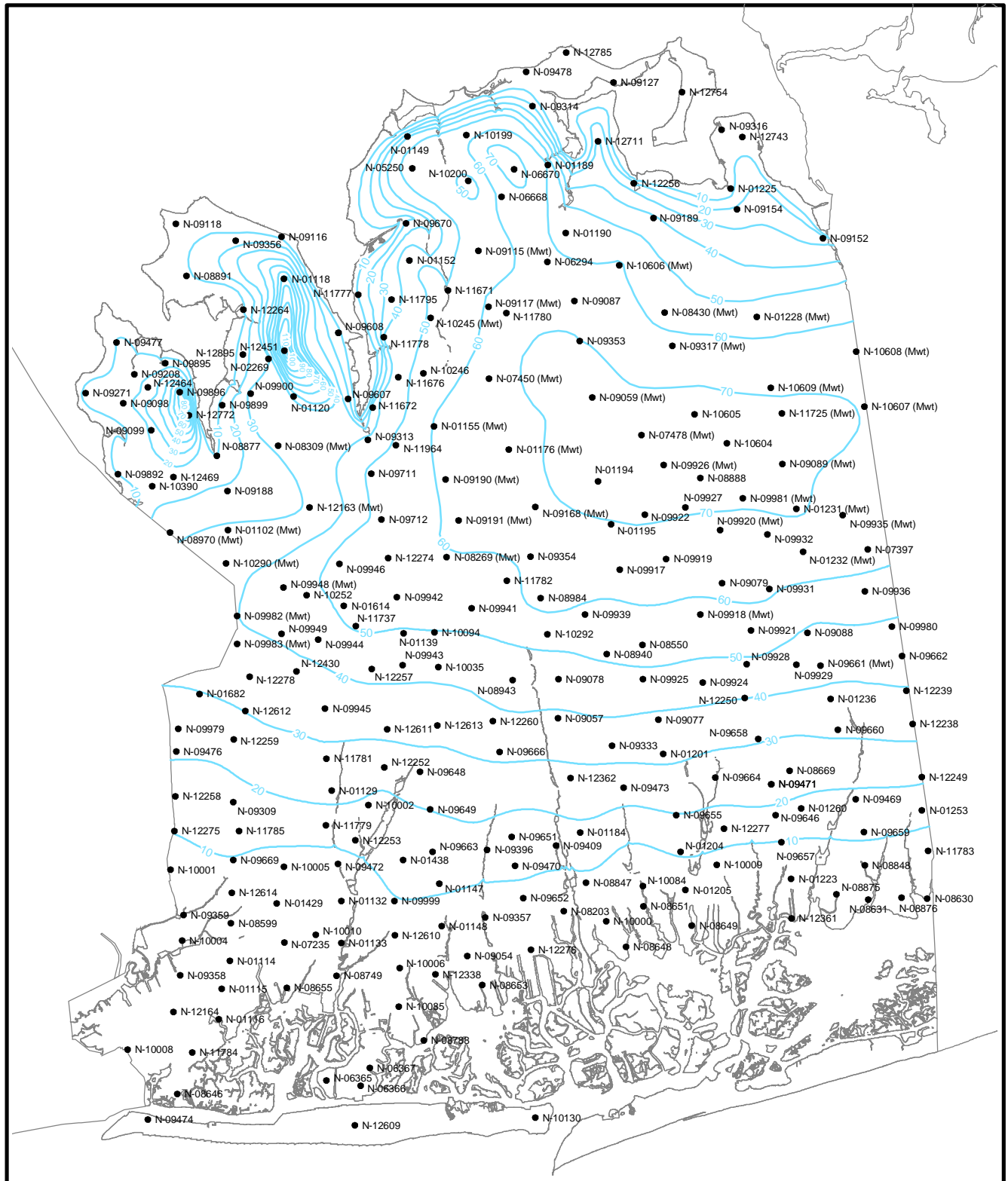
Prepared By: Nassau County Dep't. of Public Works

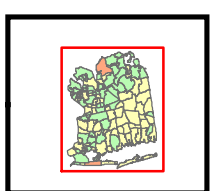
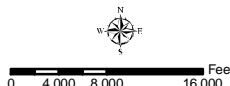

Nassau County

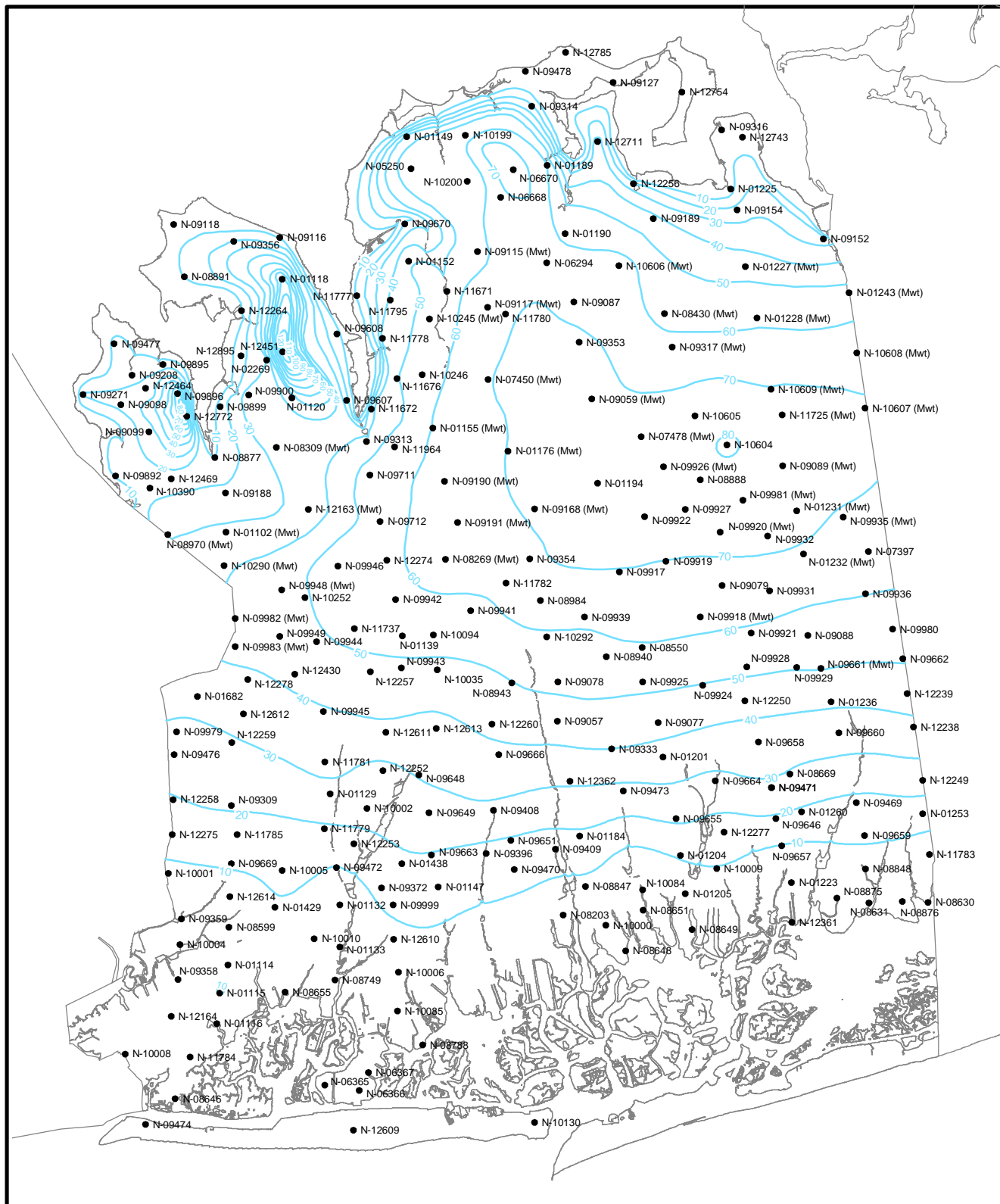
Geographic Information System

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<p>Legend</p> <p>— 60 — Water Table Contour - Indicates Elevation of Water Table. Contour Interval is 10 Feet. Datum is Mean Sea Level.</p> <p>Location of NCDPW Groundwater Monitoring Well with NYS Well No. and Aquifer Designation as Follows:</p> <ul style="list-style-type: none"> ● N-09943 Upper Glacial ● N-11725 (Mwt) Magothy - Water Table 	 <p>Site Location</p>	<p>FIGURE 4-2</p> <p>WATER TABLE ELEVATION</p> <p>SEPTEMBER 2002</p> <p>Prepared By: Nassau County Dep't. of Public Works</p> 	<p>Nassau County</p>  <p>Geographic Information System</p> <p><small>Copyright 1993-2002 County of Nassau, New York</small></p> <p><small>Date: 12/31/2003</small></p>
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Legend

—60— Water Table Contour - Indicates Elevation of Water Table. Contour Interval is 10 Feet. Datum is Mean Sea Level.

Location of NCDPW Groundwater Monitoring Well with NYS Well No. and Aquifer Designation as Follows:

- N-09943 Upper Glacial
- N-11725 (Mwt) Magothy - Water Table

Site Location

FIGURE 4-3

WATER TABLE ELEVATION
SEPTEMBER 2003

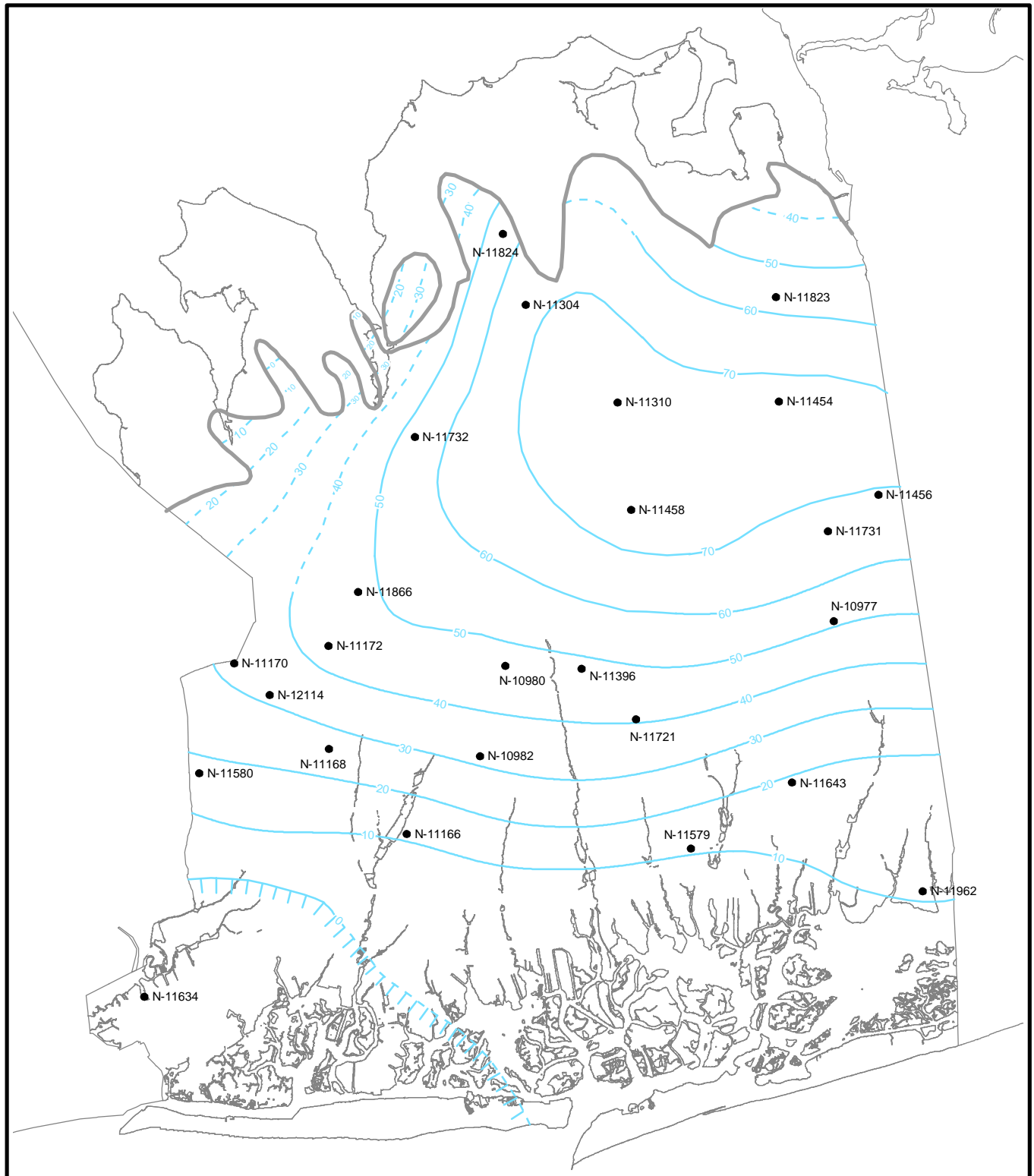
Prepared By: Nassau County Dep't. of Public Works

Nassau County

Geographic Information System

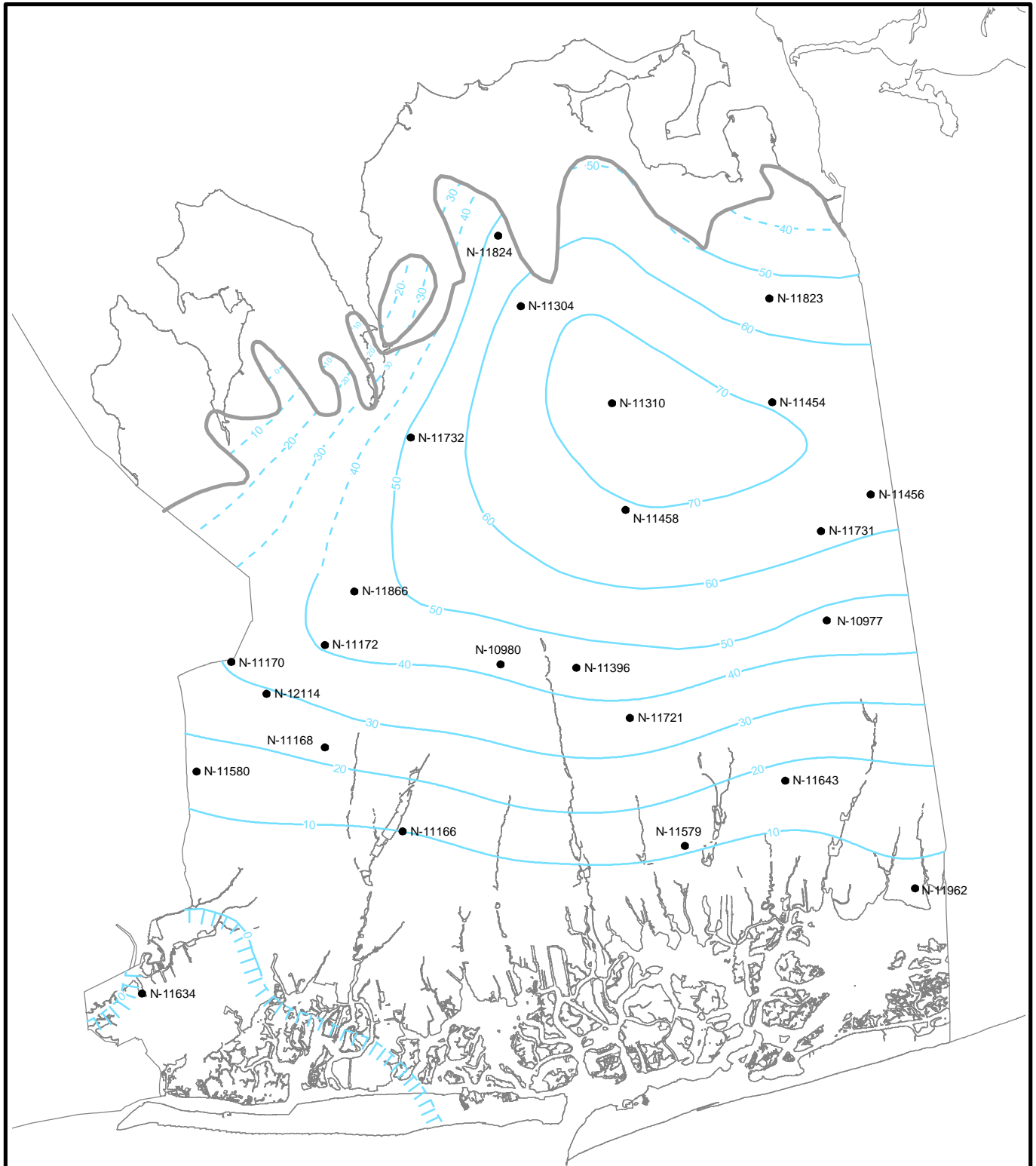
Copyright 1993-2002
County of Nassau, New York

Date: 12/31/2003



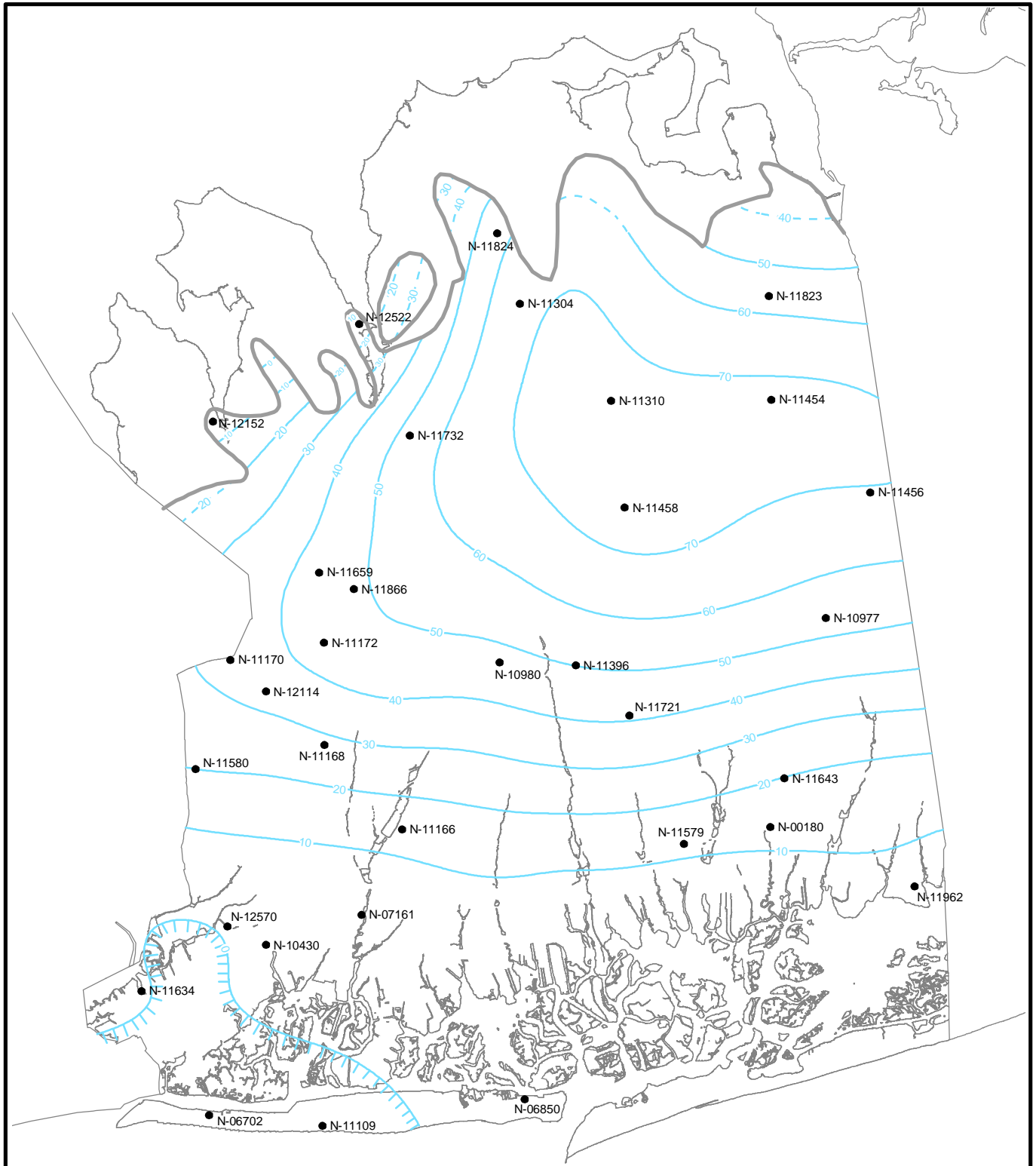
<p>Legend</p> <p>Potentiometric Contour - Indicates Elevation of Potentiometric Surface. Dashed Where Inferred, Hachures Indicate Depression. Contour Interval is 10 Feet. Datum is Mean Sea Level.</p> <p>Location of NCDPW Groundwater Monitoring Well with NYS Well No. - Magothy Aquifer</p> <p>● N-11458</p> <p>— Northern Extent of Hydrogeologic Unit</p>	<p>Site Location</p>	<p>FIGURE 4-4</p> <p>POTENTIOMETRIC SURFACE ELEVATION OF THE MAGOTHY AQUIFER</p> <p>SEPTEMBER 2001</p> <p>Prepared By: Nassau County Dep't. of Public Works</p>	<p>Nassau County</p> <p>Geographic Information System</p> <p><small>Copyright 1993-2002 County of Nassau, New York</small></p> <p><small>Date: 12/31/2003</small></p>
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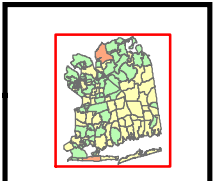

Northern extent of hydrogeologic unit on the Great Neck peninsula from Stumm (2001); on the Manhasset Neck peninsula from Stumm, Lange and Candela (2002); east of Hempstead Harbor to the Nassau/Suffolk border from Busciolano, Monti and Chu (1998).



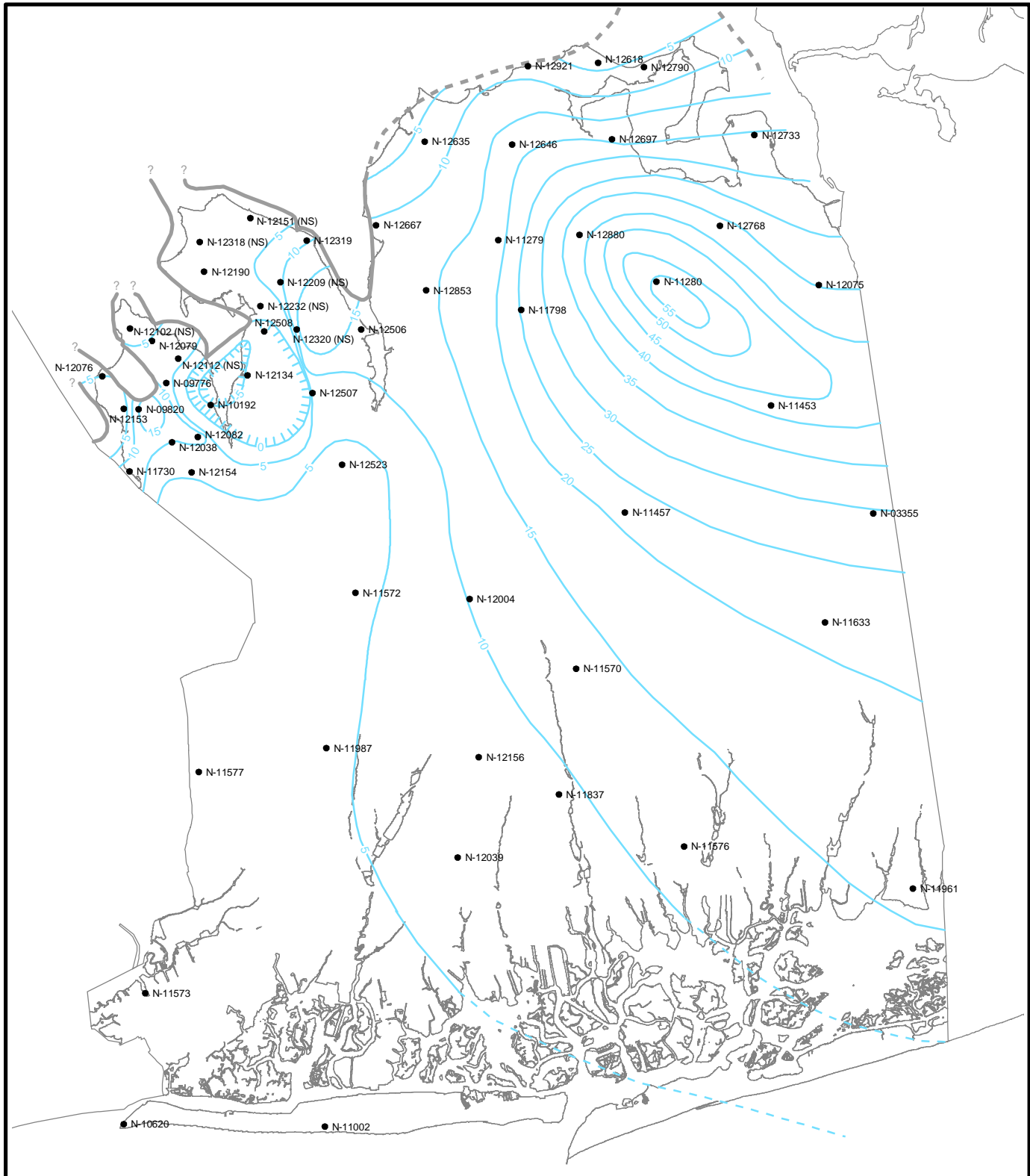
<p>Legend</p> <p>Potentiometric Contour - Indicates Elevation of Potentiometric Surface. Dashed Where Inferred, Hachures Indicate Depression. Contour Interval is 10 Feet. Datum is Mean Sea Level.</p> <p>Location of NCDPW Groundwater Monitoring Well with NYS Well No. - Magothy Aquifer</p> <p>● N-11458</p> <p>— Northern Extent of Hydrogeologic Unit</p>	<p>Site Location</p>	<p>FIGURE 4-5</p> <p>POTENTIOMETRIC SURFACE ELEVATION OF THE MAGOTHY AQUIFER</p> <p>SEPTEMBER 2002</p> <p>Prepared By: Nassau County Dep't. of Public Works</p> <p>0 4,000 8,000 16,000 Feet</p>	<p>Nassau County</p> <p>Geographic Information System</p> <p>Copyright 1993-2002 County of Nassau, New York</p> <p>Date: 12/31/2003</p>
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Northern extent of hydrogeologic unit on the Great Neck peninsula from Stumm (2001); on the Manhasset Neck peninsula from Stumm, Lange and Candela (2002); east of Hempstead Harbor to the Nassau/Suffolk border from Busciolano, Monti and Chu (1998).



<p>Legend</p> <p>Potentiometric Contour - Indicates Elevation of Potentiometric Surface. Dashed Where Inferred, Hachures Indicate Depression. Contour Interval is 10 Feet. Datum is Mean Sea Level.</p> <p>Location of NCDPW Groundwater Monitoring Well with NYS Well No. - Magothy Aquifer</p> <p>● N-11458</p> <p>— Northern Extent of Hydrogeologic Unit</p>	<p>Site Location</p> 	<p>FIGURE 4-6</p> <p>POTENTIOMETRIC SURFACE ELEVATION OF THE MAGOTHY AQUIFER</p> <p>SEPTEMBER 2003</p> <p>Prepared By: Nassau County Dep't. of Public Works</p> <p>0 4,000 8,000 16,000 Feet</p>	<p>Nassau County</p>  <p>Geographic Information System</p> <p>Copyright 1993-2002 County of Nassau, New York Date: 12/31/2003</p>
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Northern extent of hydrogeologic unit on the Great Neck peninsula from Stumm (2001); on the Manhasset Neck peninsula from Stumm, Lange and Candela (2002); east of Hempstead Harbor to the Nassau/Suffolk border from Busciolano, Monti and Chu (1998).



Legend

Potentiometric Contour - Indicates Elevation of Potentiometric Surface. Dashed Where Inferred, Hachures Indicate Depression. Contour Interval is 5 Feet. Datum is Mean Sea Level.

Location of NCDPW Groundwater Monitoring Well with NYS Well No. and Aquifer Designation as follows:

- N-12038 Lloyd
- N-12102 (NS) North Shore

--- Northern Extent of Hydrogeologic Units (Dashed Where Inferred)

Site Location

FIGURE 4-7
POTENTIOMETRIC SURFACE ELEVATION
LLOYD AND NORTH SHORE AQUIFERS
SEPTEMBER 2003

Prepared By: Nassau County Dep't. of Public Works

Nassau County

Geographic Information System

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 County of Nassau, New York

Date: 12/31/2003

Extent of hydrogeologic units in Little Neck Bay and on the Great Neck peninsula from Stumm (2001), with minor modifications; in Manhasset Bay, on the Manhasset Neck peninsula and in Hempstead Harbor from Stumm, Lange and Candela (2002), with minor modifications; east of Hempstead Harbor to the Nassau/Suffolk border from Busciolano, Monti and Chu (1998).

TABLE 4-1

Weather Monitoring

WEATHER DATA RECORDED AT MINEOLA STATION

Month	Historical Maximum/Minimum						2000			2001			2002			2003		
	Precipitation (ins.)			Temperature (°F)			Monthly Precipitation (inches)	Average Monthly Temperature (°F)	Monthly Snowfall (inches)	Monthly Precipitation (inches)	Average Monthly Temperature (°F)	Monthly Snowfall (inches)	Monthly Precipitation (inches)	Average Monthly Temperature (°F)	Monthly Snowfall (inches)	Monthly Precipitation (inches)	Average Monthly Temperature (°F)	
	Highest Monthly Total	Lowest Monthly Total	Monthly Average	Highest Monthly Average	Lowest Monthly Average	Monthly Average												
Jan	9.84	0.62	3.45	41	23	33	2.85	31	6.7	3.50	33	2.52	40	2.0	2.32	29	7.5	
Feb	6.43	0.86	3.12	40	22	33	1.89	35	5.1	2.22	36	0.86	40	---	4.34	31	20.7	
Mar	9.28	1.30	4.25	48	31	42	4.38	47	0.8	8.43	40	4.20	44	---	4.12	42	2.9	
Apr	10.92	1.11	3.89	54	41	51	5.66	51	---	1.11	53	3.79	54	---	2.97	48	3.3	
May	12.25	0.35	3.81	66	52	62	4.26	62	---	2.50	61	3.66	59	---	4.57	57	---	
Jun	9.47	0.00	3.38	73	62	71	4.38	67	---	4.85	70	3.77	70	---	8.30	67	---	
Jul	10.17	0.39	3.78	80	70	77	5.42	71	---	2.50	71	0.90	79	---	3.03	75	---	
Aug	15.60	0.25	4.00	78	67	73	2.41	71	---	2.55	78	7.24	77	---	3.25	76	---	
Sep	12.61	0.33	3.75	73	61	67	5.11	64	---	3.59	67	6.15	68	---	3.96	67	---	
Oct	8.15	0.11	3.31	62	50	58	0.41	55	---	0.73	58	5.70	55	---	3.95	54	---	
Nov	10.07	0.36	3.96	53	41	46	5.63	44	---	0.72	51	4.71	45	---	4.66	49	---	
Dec	8.99	0.30	3.70	44	27	37	3.30	32	13.6	2.43	44	4.79	35	12.3	4.99	38	5.5	
Annual Totals	64.54	22.04	44.40	56	49	53	45.70	53	26.2	35.13	55	48.29	56	14.3	50.46	53	39.9	

TABLE 4-2

Drought Indicator Monitoring Well Network

WATER ELEVATIONS AT DROUGHT INDICATOR WELLS

(elevations in feet above mean sea level)

Monitoring Well No.	NCDPW Local Well No.	Community	Screen Depth	Aquifer	Measuring Point Elevation	Historical Maximum/Minimum Water Elevations				2000		2001		2002		2003	
						Max	Date	Min	Date	Max	Min	Max	Min	Max	Min	Max	Min
N-01195	O-9	Hicksville	116	Up. Glacial	148.30	88.78	05/28/80	69.13	11/07/02	75.05	74.30	74.12	74.10	70.67	69.13	73.82	69.95
N-01234	T-11	Bethpage	65	Magothy (wt)	100.40	67.60	03/28/78	49.58	09/04/02	-----	-----	55.81	54.92	57.79	49.58	56.70	50.13
N-01259	M-183	Plainedge	41	Up. Glacial	78.08	56.95	06/23/52	40.27	09/04/02	46.45	44.13	48.71	42.85	42.70	40.27	47.08	42.83
N-01614	N-01614.	Herricks	53	Up. Glacial	99.84	71.40	09/09/03	48.42	12/21/70	60.87	53.30	55.54	52.48	52.84	50.84	55.50	51.34
N-01615	N-01615	Freeport	33	Up. Glacial	60.87	42.45	06/11/90	33.31	08/06/02	38.74	36.31	39.48	34.72	35.15	33.31	40.05	36.02
N-01616	N-01616	Old Westbury	68	Magothy	122.08	82.14	06/20/80	64.00	08/06/02	69.26	68.25	69.88	67.27	67.03	64.00	69.46	64.85
N-07397	U-6A	Old Bethpage	101	Up. Glacial	153.94	77.75	06/01/79	62.48	09/08/95	68.20	66.55	68.05	67.44	67.12	62.72	67.92	63.90
N-08269	CH-201A	Old Westbury	86	Magothy (wt)	111.55	80.52	06/20/49	59.23	10/07/02	63.12	61.82	63.98	62.00	61.83	59.23	63.00	59.95
N-08888	P-8A	Hicksville	111	Up. Glacial	174.49	94.22	09/14/79	72.89	08/28/95	79.59	78.69	79.79	78.86	76.82	72.95	76.99	73.24
N-09078	H-12A	East Meadow	65	Up. Glacial	83.62	60.70	09/29/38	46.24	09/05/02	51.07	49.87	51.21	50.14	47.74	46.24	52.66	48.54
N-09945	E-11A	Garden City South	67	Up. Glacial	75.72	55.94	09/28/38	28.84	12/14/71	37.92	37.32	38.17	38.13	36.01	34.32	39.75	36.32
N-09983	D-5A	Floral Park	99	Magothy (wt)	107.39	58.60	06/15/49	30.64	09/21/71	41.49	40.22	42.24	41.05	39.89	37.13	42.39	38.89
N-10035	CH-196A	Garden City	56	Up. Glacial	77.22	63.34	01/14/49	42.36	08/06/02	47.95	46.22	49.20	46.00	45.84	42.36	48.25	45.12
N-10977	TM-2	Bethpage	694	Magothy	100.34	61.49	03/06/91	47.16	08/06/02	53.07	52.38	52.84	51.34	51.94	47.16	55.44	50.02
N-11067	T-11A	Bethpage	99	Magothy	100.22	63.02	03/06/91	48.84	09/04/02	54.47	54.31	55.45	53.71	53.82	48.84	56.02	51.79
N-11396	M-18	East Meadow	580	Magothy	82.74	54.97	09/27/89	43.75	08/06/02	49.70	48.51	49.94	47.77	50.74	43.75	51.89	45.34
N-11397	M-19	East Meadow	280	Magothy	82.63	56.59	04/18/90	45.30	08/06/02	50.58	49.60	50.93	49.48	47.65	45.30	51.63	48.33
N-11457	L-6	Hicksville	860	Lloyd	152.90	30.40	02/19/98	20.72	09/03/92	25.88	23.54	26.77	21.65	28.60	19.32	25.88	22.02
N-11458	M-26	Hicksville	620	Magothy	153.10	82.54	03/06/91	68.10	11/07/02	75.35	75.30	75.48	72.04	71.42	68.10	74.45	68.85
N-11570	L-8	East Meadow	870	Lloyd	83.03	19.43	03/02/93	11.31	09/20/01	16.87	14.01	17.98	11.31	17.97	12.32	16.63	12.47
N-11572	L-10	Herricks	660	Lloyd	98.17	17.65	01/07/03	-1.44	09/11/01	12.08	5.87	11.41	-1.44	16.87	-1.39	17.65	5.25
N-11633	L-7	Bethpage	1070	Lloyd	100.43	25.61	03/18/99	18.43	07/26/95	23.82	21.62	24.18	20.87	24.30	20.05	23.18	21.39
N-11866	M-41	Herricks	436	Magothy	96.72	53.89	06/10/91	42.52	09/05/02	48.98	47.61	48.84	48.80	46.12	42.52	49.26	46.07
N-12250	S-181A	Levittown	44	Up. Glacial	70.35	56.09	05/29/80	38.85	08/06/02	44.67	42.41	46.21	40.95	40.75	38.85	45.36	41.95

TABLE 4-3

Southwest Nassau Monitoring Well Network

WATER ELEVATIONS AT SOUTHWEST NASSAU INDICATOR WELLS

(elevations in feet above mean sea level)

Monitoring Well No.	NCDPW Local Well No.	Community	Screen Depth	Aquifer	Measuring Point Elevation	Historical Maximum/Minimum Water Elevations			2000		2001		2002		2003	
						Max	Date	Min	Max	Min	Max	Min	Max	Min	Max	Min
N-01682	X-45	Floral Park	68	Up. Glacial	82.81	46.20	06/20/49	15.41	31.92	30.62	32.32	31.71	35.21	29.01	36.86	31.23
N-03862	N-03862	Lawrence	307	Magothy	12.28	5.68	06/13/02	1.88	-----	-----	-----	-----	5.68	1.88	4.97	3.03
N-03867	N-03867	Valley Stream	517	Magothy	9.24	4.97	04/18/97	3.05	4.63	2.73	5.08	1.32	4.55	0.74	5.94	3.04
N-08636	N-03867	Valley Stream	23	Up. Glacial	9.24	4.97	04/18/97	3.05	-----	-----	-----	-----	6.26	4.68	6.25	5.66
N-09359	X-7A	Valley Stream	26	Up. Glacial	6.74	3.44	12/06/02	-1.48	-----	-----	1.19	1.02	3.44	0.94	2.44	1.08
N-09979	X-2A	Elmont	74	Up. Glacial	70.64	35.89	02/15/46	5.05	25.20	23.24	26.62	24.84	27.01	22.04	28.52	24.54
N-10620	CL-32	Atlantic Beach	1150	Lloyd	10.31	7.49	05/14/02	1.26	-----	-----	-----	-----	7.49	1.41	6.83	4.86
N-10731	DM-1	Elmont	191	Magothy	70.56	29.43	04/07/04	15.16	25.06	23.27	25.67	24.81	28.04	23.36	28.56	24.67
N-10978	DM-2	Valley Stream	270	Magothy	13.57	6.81	04/07/04	-2.18	-----	-----	-----	-----	5.75	-0.85	7.24	3.60
N-11167	M-4	Franklin Square	240	Magothy	49.16	31.69	05/08/91	23.24	28.25	27.31	28.58	26.80	26.06	23.24	29.76	26.46
N-11168	M-3	Franklin Square	520	Magothy	49.03	31.23	05/08/91	22.30	27.42	26.97	27.86	25.68	25.63	22.30	29.46	26.09
N-11573	L-11	Inwood	797	Lloyd	9.72	8.70	03/06/98	1.68	6.94	4.32	7.14	1.68	7.35	2.12	7.02	3.67
N-11577	L-15	Elmont	720	Lloyd	44.40	9.90	03/11/98	0.45	4.83	4.70	7.89	0.45	8.80	2.04	8.20	3.52
N-11580	M-31	Elmont	450	Magothy	45.42	22.33	04/07/04	14.62	17.75	16.97	17.64	17.09	17.82	14.78	21.12	18.69
N-11634	M-32	Inwood	558	Magothy	11.03	1.05	01/06/03	-5.04	-2.27	-2.59	-1.52	-3.49	0.56	-5.21	1.05	-5.43
N-11987	L-20	Franklin Square	813	Lloyd	49.28	13.09	03/22/99	1.30	10.23	9.53	9.17	1.30	10.95	3.09	11.28	4.58
N-12164	X-9A	Cedarhurst	37	Up. Glacial	23.81	14.10	09/20/78	3.96	8.91	7.81	8.63	7.35	9.72	5.96	11.41	8.65
N-12258	X-4B	Elmont	45	Up. Glacial	45.36	25.37	06/20/52	1.99	-----	-----	-----	-----	16.07	14.58	19.96	16.86
N-12614	D-12A	Valley Stream	25	Up. Glacial	13.44	10.54	09/28/88	3.53	-----	-----	-----	-----	6.24	3.81	6.99	5.49

TABLE 4-4

*Monitoring Well Network
Raw Groundwater Quality Sampling*

TOTAL VOLATILE ORGANIC CHEMICAL (TVOC) RESULTS

(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth (¹)	Aquifer	Initial Sampling Event		Historic Maximum TVOC Concentrations		Most Recent TVOC Concentrations			
				TVOC	Date	1980s	1990s	2000	2001	2002	2003
N-00129	Jones Beach	939	Magothy	BDL	01/03/01	---	---		BDL	BDL	
N-00672	Oyster Bay Cove	207	Magothy	BDL	11/20/03	---	---				BDL
N-01102	Manhasset	166	Magothy (wt)	11.3	10/28/87	12.4	13.6				BDL
N-01114	Hewlett	29	Up. Glacial	424.0	11/17/86	2329.6	99.4	989.9			
N-01118	Sands Point	84	Up. Glacial	BDL	05/07/86	8.4	3.1		BDL		
N-01120	Flower Hill	100	Up. Glacial	63.4	04/01/86	133.4	23.7		2.7		
N-01132	Lynbrook	38	Up. Glacial	8.0	02/05/88	8.6	99.1	44.3			
N-01139	Garden City	68	Up. Glacial	15.3	07/11/88	21.2	5.4				BDL
N-01147	Rockville Centre	24	Up. Glacial	BDL	08/12/86	24.1	BDL			BDL	
N-01152	Glen Cove	130	Up. Glacial	BDL	03/17/86	135.4	7.6	BDL			
N-01176	Old Westbury	191	Magothy (wt)	BDL	04/30/87	BDL	1.8		BDL		
N-01190	Matinecock	99	Up. Glacial	23.4	03/10/86	23.4	231.5	1.7			
N-01194	Jericho	100	Up. Glacial	1.7	10/14/88	3.9	BDL			BDL	
N-01195	Hicksville	116	Up. Glacial	BDL	04/27/87	5.0	BDL			BDL	
N-01205	South Bellmore	29	Up. Glacial	19.9	12/11/86	27.5	49.4	BDL			
N-01231	Plainview	81	Magothy (wt)	11.0	02/24/86	18.3	18.3				BDL
N-01232	Plainview	57	Magothy (wt)	BDL	02/25/86	11.4	1.0				1.2
N-01279	Massapequa	45	Up. Glacial	2.1	03/09/87	5.9	12.2	BDL			
N-01280	Massapequa	29	Up. Glacial	1434.5	12/30/86	3901.1	438.6	16.6			
N-01281	Massapequa	46	Up. Glacial	958.5	12/30/86	2235.5	1116.6	211.9			
N-01453	So. Floral Park	39	Up. Glacial	6.0	11/12/87	9.1	---	BDL			
N-01484	Port Washington	52	Up. Glacial	BDL	05/29/01	---	---		BDL		
N-01616	Old Westbury	68	Magothy	BDL	09/10/98	---	BDL			BDL	
N-02269	Port Washington	215	Up. Glacial	BDL	03/21/97	---	BDL		BDL		
N-02528	Upper Brookville	283	Magothy	BDL	01/27/97	---	BDL		BDL		
N-02635	Port Washington	154	NS Conf. Unit	1.2	05/05/86	1.8	47.4		BDL		
N-03498	Tobay Beach	335	Magothy	BDL	04/14/94	---	15.9	BDL		BDL	
N-03554	Bethpage	290	Magothy	BDL	08/15/02	---	---			BDL	536.9
N-03708	Valley Stream	19	Up. Glacial	6.9	10/24/86	14.7	BDL	BDL			
N-03711	Valley Stream	24	Up. Glacial	8.1	10/24/86	15.2	22.6	1.3			
N-03867	Valley Stream	517	Magothy	1.7	03/17/88	35.1	4.1	BDL			
N-03932	Cedarhurst	176	Jameco	0.4	03/11/88	0.4	0.4				BDL
N-04026	Woodsburgh	153	Jameco	3.4	03/07/88	3.7	3.7				BDL
N-04213	Green Acres	134	Jameco	3.5	03/17/88	23.4	3.3	BDL			BDL
N-04547	Jones Beach	256	Magothy	1.7	04/29/94	---	1.7	BDL		BDL	
N-05129	Jones Beach	965	Magothy	BDL	01/05/01	---	---		BDL		BDL
N-06657	Tobay Beach	291	Magothy	BDL	03/09/94	---	BDL	BDL			BDL
N-06701	Atlantic Beach	857	Raritan Clay	0.1	03/02/88	5.9	6.9	BDL			
N-06849	Point Lookout	1039	Raritan Clay	129.7	03/03/88	129.7	BDL				BDL
N-06850	Point Lookout	914	Magothy	33.9	03/03/88	33.9	BDL				BDL
N-06851	Point Lookout	560	Magothy	62.3	03/03/88	62.3	6.9	BDL			BDL
N-06853	Point Lookout	137	Magothy	14.1	03/03/88	14.1	BDL				BDL
N-06928	Bay Park	726	Magothy	35.8	03/10/88	35.8	BDL	BDL			
N-07161	Rockville Centre	676	Magothy	BDL	03/15/88	1.4	BDL	BDL			BDL
N-07397	Old Bethpage	101	Up. Glacial	7.4	02/21/86	7.4	4.6		BDL		

TABLE 4-4

*Monitoring Well Network
Raw Groundwater Quality Sampling*

TOTAL VOLATILE ORGANIC CHEMICAL (TVOC) RESULTS

(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth (1)	Aquifer	Initial Sampling Event		Historic Maximum TVOC Concentrations		Most Recent TVOC Concentrations			
				TVOC	Date	1980s	1990s	2000	2001	2002	2003
N-08046	Kings Point	189	North Shore	BDL	10/11/90	---	BDL	BDL			BDL
N-08052	Kings Point	94	North Shore	BDL	10/11/90	---	1.9	BDL			BDL
N-08204	Freeport	56	Up. Glacial	10.3	11/20/86	10.3	1.5				BDL
N-08414	Jones Beach	1075	Magothy	BDL	01/05/00	---	---	BDL			BDL
N-08550	Levittown	66	Up. Glacial	3.0	03/26/85	10.8	21.1			2.4	
N-08646	Lawrence	22	Up. Glacial	22.1	10/23/86	22.1	32.1				BDL
N-08648	Merrick	28	Up. Glacial	83.1	12/16/86	83.1	BDL	BDL			
N-08669	No. Massapequa	35	Up. Glacial	76.5	01/06/87	76.5	1.8				BDL
N-08749	Bay Park	64	Up. Glacial	137.7	01/15/85	137.7	64.0	2.0			
N-08831	Merrick	97	Magothy	69.5	12/16/86	69.5	1.6			BDL	
N-08832	Baldwin	92	Magothy	BDL	07/29/86	1.4	2.3			BDL	
N-08838	Baldwin Harbor	74	Magothy	BDL	07/29/86	6.6	BDL			BDL	
N-08849	Oceanside	91	Magothy	1.1	08/11/86	5.7	2.0				BDL
N-08857	Merrick	151	Magothy	738.9	11/09/87	738.9	1.2	BDL			
N-08863	Massapequa	168	Magothy	BDL	04/13/87	BDL	5.4	BDL			BDL
N-08873	Massapequa Park	207	Magothy	6.1	03/09/87	6.2	1.5		BDL		
N-08876	Massapequa	36	Up. Glacial	11.3	12/22/86	21.2	44.6			8.0	6.2
N-08877	Manhasset	76	Up. Glacial	BDL	05/20/86	587.9	BDL				BDL
N-08888	Hicksville	111	Up. Glacial	41.3	01/28/85	41.3	1.9		BDL		
N-08891	Sands Point	72	Up. Glacial	BDL	05/07/86	5.7	BDL	BDL			
N-08938	East Meadow	55	Up. Glacial	55.6	06/22/88	55.6	23.2			2.6	
N-08939	East Meadow	51	Up. Glacial	31.0	06/22/88	31.0	13.6			40.3	
N-08940	East Meadow	64	Up. Glacial	3.8	11/02/87	27.1	13.2			BDL	
N-08944	Uniondale	55	Up. Glacial	5.1	05/15/87	5.1	4.8		BDL		
N-08984	Westbury	48	Up. Glacial	3.8	03/26/85	11.8	11.6				BDL
N-09054	Baldwin	40	Up. Glacial	BDL	07/29/86	3.2	11.1				BDL
N-09057	East Meadow	47	Up. Glacial	4.3	03/26/85	11.8	7.7			BDL	
N-09066	Glen Cove	270	Magothy	BDL	11/08/99	---	BDL	BDL			
N-09077	East Meadow	52	Up. Glacial	18.8	01/07/87	18.8	7.1			BDL	
N-09078	East Meadow	65	Up. Glacial	4.4	03/26/85	4.4	10.2			BDL	
N-09098	Great Neck	72	Up. Glacial	BDL	06/03/86	54.2	22702.0	3.0			
N-09099	Great Neck	71	Up. Glacial	BDL	06/03/86	7.0	6.0		BDL		
N-09116	Sands Point	31	Up. Glacial	BDL	05/05/86	43	1.6				BDL
N-09117	Old Brookville	73	Magothy (wt)	34.1	08/30/88	34.1	BDL		BDL	BDL	
N-09118	Sands Point	97	Up. Glacial	0.7	04/01/86	0.7	BDL	BDL	BDL		
N-09127	Bayville	41	Up. Glacial	1.0	02/27/86	21.2	6.4	BDL			
N-09152	Cold Spring Harbor	58	Up. Glacial	0.7	02/11/87	3.8	BDL	BDL	BDL		
N-09154	Oyster Bay Cove	66	Up. Glacial	BDL	02/28/86	4.9	4.5	BDL			BDL
N-09188	Manhasset	80	Up. Glacial	6.5	05/20/86	18.3	BDL		BDL		
N-09189	Oyster Bay	42	Up. Glacial	BDL	03/03/86	21.4	12.4	BDL	BDL		
N-09208	Kings Point	96	Up. Glacial	BDL	05/22/86	11.3	BDL		BDL		
N-09309	Elmont	59	Up. Glacial	1.6	05/18/87	127.3	8.6		BDL		
N-09313	Roslyn	60	Up. Glacial	214.3	03/17/86	214.3	140.6	90.2		15.4	32.9
N-09314	Bayville	54	Up. Glacial	BDL	03/05/86	3.6	58.0	BDL			

TABLE 4-4

*Monitoring Well Network
Raw Groundwater Quality Sampling*

TOTAL VOLATILE ORGANIC CHEMICAL (TVOC) RESULTS

(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth (1)	Aquifer	Initial Sampling Event		Historic Maximum TVOC Concentrations		Most Recent TVOC Concentrations			
				TVOC	Date	1980s	1990s	2000	2001	2002	2003
N-09316	Cove Neck	58	Up. Glacial	6.0	02/28/86	13.2	1.7	BDL			
N-09317	Muttontown	194	Magothy (wt)	5.8	01/19/89	5.8	3.3		BDL		
N-09332	East Meadow	49	Up. Glacial	30.4	04/13/87	37.5	18.1			BDL	
N-09333	East Meadow	50	Up. Glacial	0.3	03/30/87	13.7	14.3			BDL	
N-09356	Sands Point	104	Up. Glacial	BDL	05/07/86	BDL	BDL				BDL
N-09357	Freeport	27	Up. Glacial	2.0	11/14/86	2.4	3.7		BDL		
N-09358	Woodmere	20	Up. Glacial	239.3	09/08/86	1533.0	610.8		19.0		
N-09359	Valley Stream	26	Up. Glacial	BDL	09/08/86	13.1	1.7		BDL		
N-09371	Rockville Centre	10	Up. Glacial	BDL	03/21/03	BDL	BDL				BDL
N-09372	Rockville Centre	22	Up. Glacial	BDL	03/24/03	---	---				1.7
N-09373	Rockville Centre	17	Up. Glacial	BDL	05/23/91	---	BDL		BDL		
N-09383	Valley Stream	11	Up. Glacial	BDL	04/14/98	---	BDL		12.2		
N-09396	Freeport	10	Up. Glacial	BDL	05/14/03	---	---				BDL
N-09408	Roosevelt	15	Up. Glacial	BDL	06/05/98	---	BDL				BDL
N-09409	Roosevelt	20	Up. Glacial	BDL	05/05/03	---	---				BDL
N-09410	Uniondale	15	Up. Glacial	BDL	05/05/03	---	---				BDL
N-09419	Baldwin	17	Up. Glacial	BDL	04/30/03	---	---				BDL
N-09468	Inwood	25	Up. Glacial	3294.3	05/06/87	3685.6	6666.0	3309.5			
N-09469	Massapequa	46	Up. Glacial	70.4	12/30/86	86.3	118.9	19.0	BDL		BDL
N-09470	Freeport	29	Up. Glacial	1.3	11/14/86	7.3	0.6		BDL		
N-09471	Seaford	41	Up. Glacial	1.6	12/12/86	7.3	0.7		BDL		
N-09472	Malverne	36	Up. Glacial	4.9	10/27/86	5.8	7.5		BDL	BDL	
N-09473	Bellmore	42	Up. Glacial	7297.3	12/16/86	7297.3	16.6			BDL	
N-09474	Atlantic Beach	33	Up. Glacial	BDL	12/21/88	2.6	0.8		BDL		
N-09475	Atlantic Beach	68	Up. Glacial	BDL	12/21/88	2.2	1.6			BDL	
N-09477	Kings Point	137	Up. Glacial	BDL	06/05/86	1.7	1.4	BDL		BDL	
N-09478	Lattintown	24	Up. Glacial	BDL	03/05/86	4.6	1.8	BDL			
N-09607	Port Washington	191	Up. Glacial	BDL	03/19/86	5.7	1.0	BDL	BDL		
N-09608	Port Washington	161	Magothy	0.4	03/28/86	0.4	BDL	BDL	BDL		
N-09609	Port Washington	148	Up. Glacial	1.0	03/28/86	37.3	BDL	BDL	BDL		
N-09647	Carle Place	63	Magothy	2.4	04/30/87	21.6	20.7			BDL	BDL
N-09648	Hempstead	51	Up. Glacial	51.5	05/08/87	51.5	148.9	BDL			7.4
N-09649	South Hempstead	50	Up. Glacial	BDL	04/20/87	9.5	BDL			BDL	
N-09650	South Hempstead	47	Up. Glacial	1.3	08/12/86	48.1	0.7			BDL	
N-09651	Roosevelt	47	Up. Glacial	7.8	12/11/85	46.4	87.7	44.6			BDL
N-09652	Freeport	42	Up. Glacial	3.1	11/14/86	6.9	3.2		BDL	BDL	
N-09653	Merrick	31	Up. Glacial	132.3	12/04/86	132.3	64.0			BDL	
N-09655	Bellmore	31	Up. Glacial	163.5	12/11/86	226.6	445.1			BDL	
N-09656	North Bellmore	39	Up. Glacial	56.3	12/04/86	93.3	1305.0	5.3	1.9		
N-09658	North Wantagh	53	Up. Glacial	8.0	12/12/86	12.9	5.5		BDL		
N-09659	Massapequa	50	Up. Glacial	232.2	12/30/86	232.2	111.9	62.4			
N-09661	South Farmingdale	57	Magothy (wt)	BDL	09/05/86	13.7	10.4		BDL		
N-09662	Farmingdale	57	Up. Glacial	521.1	08/22/86	712.7	182.1			5.9	
N-09663	Rockville Centre	50	Up. Glacial	BDL	08/12/86	7.7	3.1		BDL		

TABLE 4-4

*Monitoring Well Network
Raw Groundwater Quality Sampling*

TOTAL VOLATILE ORGANIC CHEMICAL (TVOC) RESULTS

(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth (1)	Aquifer	Initial Sampling Event		Historic Maximum TVOC Concentrations		Most Recent TVOC Concentrations			
				TVOC	Date	1980s	1990s	2000	2001	2002	2003
N-09664	No. Wantagh	31	Up. Glacial	6.8	12/18/86	15.5	30.7			BDL	BDL
N-09665	North Bellmore	34	Up. Glacial	2.0	12/22/86	7.7	3.0		BDL		
N-09666	Uniondale	47	Up. Glacial	2.7	05/07/87	38.2	5.3		3.3	BDL	
N-09667	Levittown	55	Up. Glacial	5.9	05/17/88	37.9	11.9		BDL		
N-09668	Roosevelt	50	Up. Glacial	5.0	12/11/85	12.4	2.7		BDL		
N-09669	Valley Stream	32	Up. Glacial	BDL	11/17/86	7.2	44.9		BDL	BDL	
N-09670	Glen Cove	42	Up. Glacial	BDL	03/07/86	2.0	24.8	478.4			
N-09694	Port Washington	189	Up. Glacial	193.8	05/08/86	193.8	---		BDL		
N-09703	Uniondale	106	Magothy	3.3	02/25/98	---	3.3			94.7	BDL
N-09711	Roslyn	146	Up. Glacial	28.0	03/18/86	74.9	15.1		BDL		
N-09712	Albertson	158	Up. Glacial	8.8	03/18/86	8.8	102.6	63.4			BDL
N-09713	Uniondale	215	Magothy	1096.7	02/25/98	---	1096.7	937.3		247.7	BDL
N-09776	Kings Point	284	Lloyd	0.2	06/04/86	0.2	BDL	BDL		BDL	BDL
N-09802	Uniondale	143	Magothy	16.2	03/28/85	656.5	336.0	90.1			35.5
N-09803	Uniondale	59	Magothy	83.7	03/28/85	979.5	195.8		BDL		
N-09805	Uniondale	61	Up. Glacial	2.7	03/29/85	2.7	1.7		BDL		
N-09820	Great Neck	318	Lloyd	BDL	06/04/86	6.1	4.8	BDL			
N-09892	Great Neck Estates	45	Up. Glacial	BDL	11/04/92	---	BDL				BDL
N-09893	Kings Point	70	Up. Glacial	10.4	01/24/96	---	10.4				BDL
N-09894	Kings Point	35	Up. Glacial	6.3	01/24/97	---	6.3	2.0			
N-09895	Kings Point	44	Up. Glacial	BDL	08/14/96	---	BDL				BDL
N-09896	Kings Point	90	Up. Glacial	BDL	12/06/95	---	BDL				BDL
N-09898	Manhasset	110	Up. Glacial	24.8	01/24/96	---	24.8	BDL		1.1	BDL
N-09900	Plandome	35	Up. Glacial	BDL	08/14/96	---	BDL		BDL		
N-09902	Plandome	100	Up. Glacial	BDL	06/25/03	---	---				BDL
N-09906	Flower Hill	125	Up. Glacial	10.2	02/21/91	---	10.2				BDL
N-09914	Garden City	57	Up. Glacial	BDL	07/28/86	BDL	4.7		BDL		
N-09917	Hicksville	76	Up. Glacial	2.6	01/29/85	3.3	5.3				BDL
N-09918	Hicksville	77	Magothy (wt)	8.4	04/14/87	8.4	3.5			BDL	
N-09919	Hicksville	84	Up. Glacial	724.0	03/27/85	724.0	56.5		25.6		
N-09920	Hicksville	89	Magothy (wt)	23.7	01/29/85	44.6	5.7		BDL		
N-09921	Wantagh	62	Up. Glacial	103.6	02/26/86	395.2	28.3				59.7
N-09922	Hicksville	82	Up. Glacial	16.3	04/24/87	34.9	68.1		BDL		
N-09923	Farmingdale	43	Up. Glacial	406.8	08/19/86	406.8	162.4	126.7		5.4	
N-09924	Levittown	45	Up. Glacial	8.1	04/14/87	8.1	3.2			BDL	BDL
N-09925	East Meadow	51	Up. Glacial	3.6	01/07/87	13.8	2.5		BDL		
N-09927	Hicksville	94	Up. Glacial	12.6	01/28/85	12.6	4.5				BDL
N-09928	Levittown	38	Up. Glacial	2.4	04/14/87	2.4	BDL		BDL		
N-09930	Farmingdale	46	Up. Glacial	1033.7	08/19/86	1033.7	14.1		BDL		
N-09931	Bethpage	73	Up. Glacial	BDL	02/26/86	6.1	1.7		BDL		BDL
N-09936	Old Bethpage	63	Up. Glacial	BDL	01/22/86	4.2	BDL			BDL	
N-09938	Westbury	80	Up. Glacial	1149.2	03/25/85	6034.8	1985.3	430.2			5.4
N-09939	Bowling Green	74	Up. Glacial	84.2	03/25/85	175.9	21.1		28.2		
N-09940	Carle Place	53	Up. Glacial	4.0	05/21/87	4.0	5.0			BDL	

TABLE 4-4

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Raw Groundwater Quality Sampling*

TOTAL VOLATILE ORGANIC CHEMICAL (TVOC) RESULTS

(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth (¹)	Aquifer	Initial Sampling Event		Historic Maximum TVOC Concentrations		Most Recent TVOC Concentrations			
				TVOC	Date	1980s	1990s	2000	2001	2002	2003
N-09941	Carle Place	50	Up. Glacial	5.8	04/30/87	5.8	21.2			3.0	
N-09942	Mineola	69	Up. Glacial	3.7	05/21/87	3.7	0.9				BDL
N-09943	Garden City	69	Up. Glacial	2.4	07/28/86	2.4	7.1		BDL		
N-09944	Garden City Park	80	Up. Glacial	75.5	07/17/86	168.1	20.2		2.9		
N-09945	Garden City So.	67	Up. Glacial	36.1	05/28/87	36.1	2.5				BDL
N-09946	Herricks	60	Up. Glacial	6.2	05/21/87	6.2	1.8		BDL		
N-09948	New Hyde Park	114	Magothy (wt)	13.8	07/17/86	13.8	9.4			BDL	
N-09949	New Hyde Park	100	Up. Glacial	204.9	05/15/87	590.1	297.5		1.0		
N-09962	Carle Place	65	Up. Glacial	BDL	12/09/92	---	BDL			9.3	
N-09964	Garden City	54	Up. Glacial	28.6	12/01/92	---	28.6			BDL	
N-09979	Elmont	95	Up. Glacial	BDL	04/29/87	7.7	4.9		BDL		
N-09982	New Hyde Park	112	Magothy (wt)	9.8	05/18/87	9.8	BDL			BDL	
N-09984	Franklin Square	60	Up. Glacial	122.0	05/28/87	122.0	3.9		BDL		
N-09999	Rockville Centre	31	Up. Glacial	1.5	11/24/86	188.2	1.6		BDL	BDL	
N-10000	Merrick	41	Up. Glacial	1.6	12/17/86	4.8	19.6			BDL	
N-10001	Valley Stream	34	Up. Glacial	BDL	08/20/86	8.2	5.7		2.8	1.9	
N-10002	Lakeview	48	Up. Glacial	2.2	08/20/86	4.5	4.8			BDL	
N-10004	Valley Stream	26	Up. Glacial	0.1	09/08/86	14.1	2.0		BDL		
N-10005	Lynbrook	42	Up. Glacial	2.3	08/20/86	18.6	20.2			BDL	
N-10006	Oceanside	26	Up. Glacial	BDL	02/05/88	11.6	3.1			BDL	
N-10007	Merrick	36	Up. Glacial	150.2	12/17/86	175.2	15.1			BDL	
N-10008	Lawrence	31	Up. Glacial	285.0	05/06/87	285.0	3.0			BDL	
N-10009	Wantagh	46	Up. Glacial	4.2	12/17/86	6.0	BDL		BDL		
N-10010	East Rockaway	40	Up. Glacial	BDL	01/15/85	26.6	0.5		BDL		
N-10011	Baldwin	26	Up. Glacial	BDL	02/10/88	6.6	3.5		BDL		
N-10035	Garden City	56	Up. Glacial	189.4	05/20/87	189.4	3.1		BDL		
N-10084	Bellmore	21	Up. Glacial	22.6	12/16/86	22.6	40.0			BDL	
N-10085	Oceanside	31	Up. Glacial	1.1	07/30/86	7.2	BDL		BDL		
N-10130	Point Lookout	9	Up. Glacial	BDL	03/21/03	---	---				BDL
N-10133	Point Lookout	9	Up. Glacial	BDL	03/21/03	---	---				BDL
N-10134	Point Lookout	9	Up. Glacial	BDL	03/21/03	---	---				BDL
N-10200	Locust Valley	119	Up. Glacial	30.3	03/10/86	30.3	31.7	BDL			
N-10202	Garden City	43	Up. Glacial	BDL	04/09/93	---	BDL				BDL
N-10245	Glen Head	100	Magothy (wt)	BDL	03/17/86	0.5	1.4	BDL		BDL	
N-10252	Garden City Park	104	Up. Glacial	5.6	07/17/86	6.7	7.4				BDL
N-10290	Lake Success	169	Magothy (wt)	69.5	10/28/87	155.4	624.0	575.0	431.7		
N-10291	Herricks	126	Magothy	BDL	07/28/86	BDL	6.9			BDL	
N-10314	Hicksville	64	Up. Glacial	BDL	10/02/01	---	---		BDL		
N-10390	Great Neck Estates	100	Up. Glacial	32.5	08/06/93	---	242.5	130.2			
N-10430	Hewlett Bay Pk	615	Magothy	98.8	03/18/88	98.8	8.7				BDL
N-10605	Locust Grove	148	Up. Glacial	BDL	08/19/97	---	130.8	30.6			
N-10608	Woodbury	279	Magothy (wt)	BDL	04/23/87	0.5	5.8		BDL		
N-10609	Woodbury	199	Magothy (wt)	1208.4	10/25/88	1208.4	1081.0	261.1			119.2
N-10620	Atlantic Beach	1150	Lloyd	4.4	03/08/88	19.0	5.3	BDL			

TABLE 4-4

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(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth (¹)	Aquifer	Initial Sampling Event		Historic Maximum TVOC Concentrations		Most Recent TVOC Concentrations			
				TVOC	Date	1980s	1990s	2000	2001	2002	2003
N-09941	Carle Place	50	Up. Glacial	5.8	04/30/87	5.8	21.2			3.0	
N-09942	Mineola	69	Up. Glacial	3.7	05/21/87	3.7	0.9				BDL
N-09943	Garden City	69	Up. Glacial	2.4	07/28/86	2.4	7.1		BDL		
N-09944	Garden City Park	80	Up. Glacial	75.5	07/17/86	168.1	20.2		2.9		
N-09945	Garden City So.	67	Up. Glacial	36.1	05/28/87	36.1	2.5				BDL
N-09946	Herricks	60	Up. Glacial	6.2	05/21/87	6.2	1.8		BDL		
N-09948	New Hyde Park	114	Magothy (wt)	13.8	07/17/86	13.8	9.4			BDL	
N-09949	New Hyde Park	100	Up. Glacial	204.9	05/15/87	590.1	297.5		1.0		
N-09962	Carle Place	65	Up. Glacial	BDL	12/09/92	---	BDL			9.3	
N-09964	Garden City	54	Up. Glacial	28.6	12/01/92	---	28.6			BDL	
N-09979	Elmont	95	Up. Glacial	BDL	04/29/87	7.7	4.9		BDL		
N-09982	New Hyde Park	112	Magothy (wt)	9.8	05/18/87	9.8	BDL			BDL	
N-09984	Franklin Square	60	Up. Glacial	122.0	05/28/87	122.0	3.9		BDL		
N-09999	Rockville Centre	31	Up. Glacial	1.5	11/24/86	188.2	1.6		BDL	BDL	
N-10000	Merrick	41	Up. Glacial	1.6	12/17/86	4.8	19.6			BDL	
N-10001	Valley Stream	34	Up. Glacial	BDL	08/20/86	8.2	5.7		2.8	1.9	
N-10002	Lakeview	48	Up. Glacial	2.2	08/20/86	4.5	4.8			BDL	
N-10004	Valley Stream	26	Up. Glacial	0.1	09/08/86	14.1	2.0		BDL		
N-10005	Lynbrook	42	Up. Glacial	2.3	08/20/86	18.6	20.2			BDL	
N-10006	Oceanside	26	Up. Glacial	BDL	02/05/88	11.6	3.1			BDL	
N-10007	Merrick	36	Up. Glacial	150.2	12/17/86	175.2	15.1			BDL	
N-10008	Lawrence	31	Up. Glacial	285.0	05/06/87	285.0	3.0			BDL	
N-10009	Wantagh	46	Up. Glacial	4.2	12/17/86	6.0	BDL		BDL		
N-10010	East Rockaway	40	Up. Glacial	BDL	01/15/85	26.6	0.5		BDL		
N-10011	Baldwin	26	Up. Glacial	BDL	02/10/88	6.6	3.5		BDL		
N-10035	Garden City	56	Up. Glacial	189.4	05/20/87	189.4	3.1		BDL		
N-10084	Bellmore	21	Up. Glacial	22.6	12/16/86	22.6	40.0			BDL	
N-10085	Oceanside	31	Up. Glacial	1.1	07/30/86	7.2	BDL		BDL		
N-10130	Point Lookout	9	Up. Glacial	BDL	03/21/03	---	---				BDL
N-10133	Point Lookout	9	Up. Glacial	BDL	03/21/03	---	---				BDL
N-10134	Point Lookout	9	Up. Glacial	BDL	03/21/03	---	---				BDL
N-10200	Locust Valley	119	Up. Glacial	30.3	03/10/86	30.3	31.7	BDL			
N-10202	Garden City	43	Up. Glacial	BDL	04/09/93	---	BDL				BDL
N-10245	Glen Head	100	Magothy (wt)	BDL	03/17/86	0.5	1.4	BDL		BDL	
N-10252	Garden City Park	104	Up. Glacial	5.6	07/17/86	6.7	7.4				BDL
N-10290	Lake Success	169	Magothy (wt)	69.5	10/28/87	155.4	624.0	575.0	431.7		
N-10291	Herricks	126	Magothy	BDL	07/28/86	BDL	6.9			BDL	
N-10314	Hicksville	64	Up. Glacial	BDL	10/02/01	---	---		BDL		
N-10390	Great Neck Estates	100	Up. Glacial	32.5	08/06/93	---	242.5	130.2			
N-10430	Hewlett Bay Pk	615	Magothy	98.8	03/18/88	98.8	8.7				BDL
N-10605	Locust Grove	148	Up. Glacial	BDL	08/19/97	---	130.8	30.6			
N-10608	Woodbury	279	Magothy (wt)	BDL	04/23/87	0.5	5.8		BDL		
N-10609	Woodbury	199	Magothy (wt)	1208.4	10/25/88	1208.4	1081.0	261.1			119.2
N-10620	Atlantic Beach	1150	Lloyd	4.4	03/08/88	19.0	5.3	BDL			

TABLE 4-4

*Monitoring Well Network
Raw Groundwater Quality Sampling*

TOTAL VOLATILE ORGANIC CHEMICAL (TVOC) RESULTS

(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth (¹)	Aquifer	Initial Sampling Event		Historic Maximum TVOC Concentrations		Most Recent TVOC Concentrations			
				TVOC	Date	1980s	1990s	2000	2001	2002	2003
N-10667	Valley Stream	537	Magothy	BDL	03/18/88	1.1	BDL	BDL			
N-10730	Woodbury	210	Magothy	1374.6	10/17/88	1374.6	1004.0	138.5			
N-10731	Elmont	191	Magothy	BDL	01/09/89	5.3	5.8		BDL		
N-10977	Bethpage	694	Magothy	2.2	07/15/88	2.4	1.3		BDL		
N-10978	Valley Stream	270	Magothy	2.0	08/03/89	2.0	BDL		BDL		
N-10979	Lawrence	340	Magothy	3.6	03/14/88	26.0	BDL				BDL
N-10980	Uniondale	495	Magothy	5.1	10/05/88	5.1	1.4	BDL			
N-10981	Hempstead	220	Magothy	2.3	10/11/88	2.3	1.4		BDL		
N-11002	Long Beach	1255	Lloyd	BDL	03/15/88	4.9	BDL	BDL			BDL
N-11067	Bethpage	99	Magothy	3.8	07/18/88	19.7	1.0		BDL		
N-11109	Long Beach	815	Magothy	3.4	03/15/88	3.4	BDL	BDL			
N-11165	Rockville Centre	309	Magothy	BDL	05/09/89	BDL	1.9		BDL		
N-11169	Floral Park	200	Magothy	6.8	10/04/89	6.8	3.5			BDL	
N-11170	Floral Park	385	Magothy	3.8	10/04/89	3.8	BDL			BDL	
N-11281	East Norwich	518	Lloyd	BDL	12/26/90	---	3.1		BDL		
N-11310	Brookville	558	Magothy	1.5	11/08/89	1.5	BDL		BDL		
N-11324	Old Brookville	178	Magothy	8.6	06/28/89	8.6	1.8		BDL		
N-11396	East Meadow	580	Magothy	BDL	07/11/89	BDL	1.5		BDL		
N-11457	Hicksville	860	Lloyd	3.8	11/01/89	3.8	2.1			BDL	
N-11490	Massapequa	17	Up. Glacial	8.9	10/29/02	---	---			8.9	
N-11570	East Meadow	870	Lloyd	BDL	07/13/90	---	BDL		BDL		
N-11572	Herricks	660	Lloyd	0.6	11/14/91	---	2.0		BDL		
N-11573	Inwood	797	Lloyd	BDL	09/25/90	---	BDL				BDL
N-11574	East Hills	780	Lloyd	BDL	11/06/92	---	BDL		BDL		
N-11577	Elmont	720	Lloyd	BDL	02/25/92	---	BDL				BDL
N-11580	Elmont	450	Magothy	BDL	01/04/91	---	BDL				BDL
N-11633	Bethpage	1070	Lloyd	BDL	06/28/91	---	BDL		BDL		
N-11634	Inwood	558	Magothy	BDL	02/02/90	---	BDL				BDL
N-11643	Seaford	700	Magothy	BDL	10/23/90	---	29.0		BDL		
N-11644	Seaford	175	Magothy	BDL	10/23/90	---	BDL		BDL		
N-11659	Herricks	419	Magothy	56.5	10/04/90	---	94.5	459.0			
N-11671	Glen Head	24	Up. Glacial	BDL	06/19/90	---	17.2				BDL
N-11672	Roslyn Harbor	35	Up. Glacial	51.4	06/19/90	---	51.4	BDL			
N-11673	Glenwood Landing	92	Up. Glacial	BDL	06/18/90	---	1.8	9.0			
N-11675	Sea Cliff	28	Up. Glacial	25.4	06/19/90	---	25.4	BDL			
N-11676	Roslyn Harbor	80	Up. Glacial	BDL	06/18/90	---	0.5	21.9			
N-11720	East Meadow	250	Magothy	BDL	11/09/90	---	1.5		BDL		
N-11721	East Meadow	621	Magothy	BDL	11/09/90	---	1.6		BDL		
N-11725	Woodbury	145	Magothy (wt)	30.7	06/06/91	---	30.7		BDL		
N-11726	Woodbury	198	Magothy	2.3	06/06/91	---	2.3		BDL		
N-11729	Mineola	108	Magothy	6.2	01/09/92	---	6.2			50.3	
N-11730	Great Neck	310	Lloyd	BDL	01/15/91	---	BDL				BDL
N-11731	Plainview	645	Magothy	BDL	06/11/91	---	0.7		BDL		
N-11732	East Hills	443	Magothy	BDL	02/18/92	---	BDL	BDL			

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(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth (¹)	Aquifer	Initial Sampling Event		Historic Maximum TVOC Concentrations		Most Recent TVOC Concentrations			
				TVOC	Date	1980s	1990s	2000	2001	2002	2003
N-11734	Garden City	163	Magothy	211.2	01/08/92	---	211.2	120.0			
N-11735	Garden City	165	Magothy	164.8	01/07/92	---	164.8	54.5		52.8	
N-11737	Mineola	53	Up. Glacial	18.6	01/09/92	---	18.6			BDL	
N-11777	Sea Cliff	78	Up. Glacial	20	11/06/91	---	24.0		5.0		
N-11778	Glenwood Landing	72	Up. Glacial	3.6	11/06/91	---	8.4	BDL	BDL		
N-11779	Lakeview-Malverne Park	37	Up. Glacial	BDL	11/04/91	---	2.2		BDL		
N-11780	Old Brookville	89	Up. Glacial	BDL	07/12/99	---	BDL		BDL	BDL	
N-11781	Franklin Square	48	Up. Glacial	BDL	11/04/91	---	BDL		BDL		
N-11782	Westbury	52	Up. Glacial	BDL	11/04/91	---	6.1			BDL	
N-11784	Lawrence	24	Up. Glacial	BDL	11/06/91	---	BDL		BDL	BDL	
N-11785	No. Valley Stream	34	Up. Glacial	BDL	11/04/91	---	2.2		BDL	BDL	
N-11795	Sea Cliff	113	Up. Glacial	27.5	01/02/92	---	28.6	19.7			
N-11824	Glen Cove	252	Magothy	BDL	01/28/92	---	2.0				BDL
N-11830	Uniondale	31	Up. Glacial	15.4	01/15/91	---	15.4		BDL		
N-11832	Uniondale	41	Up. Glacial	BDL	01/16/91	---	BDL				BDL
N-11865	Herricks	205	Magothy	3.2	11/27/91	---	6.5			2.6	
N-11866	Herricks	436	Magothy	BDL	11/27/91	---	2.4			3.6	
N-11956	Garden City	52	Up. Glacial	12.9	01/07/92	---	12.9			BDL	
N-11961	E. Massapequa	1299	Lloyd	BDL	11/07/91	---	8.8			BDL	
N-11962	E. Massapequa	861	Magothy	BDL	11/07/91	---	BDL			BDL	
N-11964	East Hills	183	Up. Glacial	0.6	12/16/92	---	3.3	BDL	BDL		
N-11987	Franklin Square	813	Lloyd	36.3	07/01/92	---	36.3		BDL		
N-12004	Carle Place	850	Lloyd	BDL	10/02/92	---	BDL		BDL		
N-12005	Garden City Park	59	Up. Glacial	35.2	01/13/92	---	35.2		0.6		
N-12013	Kings Point	200	Lloyd	0.7	01/27/92	---	0.7	BDL			
N-12038	Great Neck Gardens	372	Lloyd	BDL	10/28/92	---	1.3	BDL			
N-12039	Rockville Centre	1015	Lloyd	BDL	10/05/92	---	BDL		BDL		
N-12050	Kings Point	270	North Shore	BDL	02/07/92	---	BDL	BDL		BDL	
N-12075	Laurel Hollow	850	Lloyd	BDL	10/22/92	---	BDL		BDL		
N-12076	Kings Point	260	Lloyd	BDL	04/06/92	---	BDL	BDL		BDL	BDL
N-12079	Kings Point	177	Lloyd	BDL	04/06/92	---	BDL	BDL			
N-12082	Great Neck Gardens	490	Lloyd	BDL	04/22/92	---	0.9	BDL			BDL
N-12102	Kings Point	245	North Shore	BDL	08/20/92	---	BDL	BDL		BDL	
N-12112	Kings Point	285	North Shore	BDL	08/19/92	---	BDL	BDL			
N-12113	Floral Park	195	Magothy	BDL	10/22/93	---	5.4		BDL		
N-12114	Floral Park	420	Magothy	7.4	10/22/93	---	13.3		BDL		
N-12134	Plandome Manor	365	Lloyd	BDL	11/04/92	---	---	BDL			
N-12151	Sands Point	348	North Shore	BDL	02/18/93	---	BDL	BDL			BDL
N-12152	Great Neck	146	Magothy	BDL	02/23/93	---	---	7.9			BDL
N-12153	Kings Point	333	Lloyd	BDL	02/18/93	---	BDL	BDL		BDL	
N-12154	Thomaston	515	Lloyd	0.3	02/19/93	---	0.3			BDL	
N-12156	Hempstead	932	Lloyd	BDL	02/04/94	---	BDL		BDL		
N-12164	Cedarhurst	37	Up. Glacial	1.3	01/25/95	---	4.1			BDL	
N-12190	Sands Point	235	Lloyd	BDL	08/10/93	---	BDL	BDL			

TABLE 4-4

*Monitoring Well Network
Raw Groundwater Quality Sampling*

TOTAL VOLATILE ORGANIC CHEMICAL (TVOC) RESULTS

(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth (¹)	Aquifer	Initial Sampling Event		Historic Maximum TVOC Concentrations		Most Recent TVOC Concentrations			
				TVOC	Date	1980s	1990s	2000	2001	2002	2003
N-12209	Sands Point	365	North Shore	BDL	08/09/93	---	BDL	BDL			
N-12218	Lido Beach	1276	Lloyd	BDL	05/01/96	---	BDL	BDL			BDL
N-12232	Baxter Estates	384	North Shore	BDL	08/10/93	---	BDL	BDL		BDL	
N-12238	South Farmingdale	36	Up. Glacial	BDL	11/08/93	---	BDL		BDL		
N-12239	South Farmingdale	42	Up. Glacial	6.3	02/14/95	---	6.3		1.6		
N-12240	Sands Point	60	Up. Glacial	4.8	06/27/95	---	4.8	BDL	BDL	BDL	
N-12241	Sands Point	117	Up. Glacial	BDL	08/10/93	---	BDL	BDL	BDL		
N-12250	Levittown	44	Up. Glacial	BDL	11/08/93	---	2.0			2.3	
N-12252	Hempstead Gardens	50	Up. Glacial	BDL	11/03/94	---	BDL		BDL		
N-12253	Lakeview	44	Up. Glacial	1.3	01/24/95	---	1.3				BDL
N-12254	Rockville Centre	41	Up. Glacial	BDL	11/10/93	---	BDL		BDL		
N-12255	Island Park	26	Up. Glacial	BDL	11/10/93	---	---		188.5		
N-12256	Oyster Bay	29	Up. Glacial	BDL	11/10/93	---	BDL	BDL			BDL
N-12257	Garden City	60	Up. Glacial	BDL	11/09/93	---	BDL		BDL	BDL	
N-12258	Elmont	45	Up. Glacial	7.5	10/19/93	---	BDL		BDL		
N-12259	Elmont	60	Up. Glacial	BDL	12/02/93	---	BDL		BDL		
N-12260	Uniondale	44	Up. Glacial	BDL	11/10/93	---	BDL		BDL		
N-12262	Baxter Estates	80	Up. Glacial	BDL	08/11/93	---	12.3	BDL	BDL		
N-12263	Baxter Estates	290	North Shore	BDL	08/10/93	---	BDL	BDL			BDL
N-12264	Baxter Estates	20	Up. Glacial	13.9	06/19/95	---	40.1		3.7		
N-12274	Williston Park	65	Up. Glacial	1.8	11/10/94	---	1.8			BDL	
N-12275	Valley Stream	45	Up. Glacial	1.2	08/16/94	---	1.2			BDL	
N-12276	Freeport	26	Up. Glacial	BDL	07/19/94	---	1.5		BDL		
N-12318	Sands Point	165	North Shore	BDL	05/04/94	---	BDL	BDL		BDL	
N-12319	Sands Point	385	Lloyd	BDL	01/31/94	---	BDL	BDL		BDL	
N-12320	Port Washington	530	North Shore	BDL	05/03/94	---	BDL	BDL			BDL
N-12321	Port Washington	572	North Shore	BDL	05/05/94	---	BDL	BDL			
N-12338	Oceanside	25	Up. Glacial	BDL	07/14/94	---	BDL		BDL		
N-12343	Sands Point	170	Magothy	BDL	01/31/94	---	BDL	BDL		BDL	
N-12361	Massapequa	22	Up. Glacial	0.8	01/31/95	---	0.8			BDL	
N-12430	Garden City	65	Up. Glacial	BDL	12/21/93	---	BDL		BDL		
N-12450	Lake Success	680	Lloyd	BDL	08/01/95	---	BDL		BDL		
N-12451	Port Washington	115	Up. Glacial	BDL	03/21/97	---	---		9.9		
N-12464	Kings Point	19	Up. Glacial	BDL	08/28/96	---	BDL	BDL		BDL	
N-12465	Kings Point	125	NS Conf. Unit	1.0	05/11/94	---	1.0	BDL		BDL	
N-12469	Thomaston	195	Up. Glacial	BDL	12/20/94	---	BDL		BDL	BDL	
N-12483	Thomaston	30	Up. Glacial	BDL	08/07/96	---	BDL				BDL
N-12506	Port Washington	496	Lloyd	210.1	12/19/94	---	210.1	BDL			
N-12507	Flower Hill	605	Lloyd	BDL	12/26/94	---	---	2.1		12.5	
N-12508	Port Washington	375	Lloyd	BDL	03/10/95	---	BDL	BDL			
N-12511	Roslyn	159	Up. Glacial	BDL	10/17/94	---	BDL	BDL	BDL		
N-12522	Port Washington	215	Magothy	BDL	12/20/94	---	7.6	BDL			
N-12570	North Woodmere	550	Magothy	0.3	06/14/95	---	0.3	BDL			BDL
N-12571	North Woodmere	535	Magothy	BDL	06/27/95	---	5.2	BDL			BDL

TABLE 4-4

*Monitoring Well Network
Raw Groundwater Quality Sampling*

TOTAL VOLATILE ORGANIC CHEMICAL (TVOC) RESULTS

(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth (1)	Aquifer	Initial Sampling Event		Historic Maximum TVOC Concentrations		Most Recent TVOC Concentrations			
				TVOC	Date	1980s	1990s	2000	2001	2002	2003
N-12572	North Woodmere	199	Jameco	1.8	06/14/95	---	1.8	BDL			BDL
N-12573	North Woodmere	150	Jameco	BDL	06/27/95	---	BDL	BDL			BDL
N-12579	Glen Cove	193	Up. Glacial	BDL	12/11/96	---	BDL	BDL	BDL		
N-12610	Oceanside	35	Up. Glacial	BDL	05/21/97	---	BDL		BDL		
N-12611	West Hempstead	55	Up. Glacial	BDL	06/25/97	---	BDL		BDL		
N-12612	South Floral Park	50	Up. Glacial	3.6	01/04/96	---	3.6		BDL		
N-12613	Hempstead	45	Up. Glacial	1.0	05/12/97	---	1.0				BDL
N-12614	Valley Stream	25	Up. Glacial	1.2	05/12/97	---	45.9		20.5	28.2	
N-12618	Bayville	410	Lloyd	BDL	12/26/95	---	---	BDL			5.4
N-12635	Glen Cove	432	Lloyd	BDL	12/22/95	---	4.8	BDL			
N-12636	North Woodmere	173	Jameco	BDL	10/04/95	---	BDL	BDL			BDL
N-12646	Lattingtown	520	Lloyd	5.0	02/02/96	---	17.2	14.4		13.0	
N-12665	Lattingtown	385	NS Conf. Unit	BDL	02/02/96	---	BDL	BDL		BDL	
N-12667	Glen Cove	500	Lloyd	BDL	06/21/96	---	BDL	BDL			
N-12697	Mill Neck	595	Lloyd	BDL	06/28/96	---	BDL	BDL			BDL
N-12711	Mill Neck	140	Up. Glacial	BDL	07/16/96	---	BDL	BDL			BDL
N-12733	Cove Neck	703	Lloyd	BDL	12/10/96	---	BDL	BDL		BDL	
N-12747	Centre Island	510	Lloyd	BDL	12/05/96	---	BDL	BDL		BDL	
N-12755	Centre Island	118	Up. Glacial	BDL	12/04/96	---	BDL	BDL		BDL	
N-12768	Oyster Bay Cove	849	Lloyd	0.5	02/27/98	---	0.5	BDL			
N-12769	Locust Valley	180	Magothy	13.4	08/22/01	---	---		13.4		
N-12771	Kings Point	90	Up. Glacial	BDL	08/14/00	---	---	BDL			BDL
N-12772	Kings Point	30	Up. Glacial	BDL	07/27/00	---	---	BDL			BDL
N-12774	Bayville	387	Lloyd	BDL	05/19/97	---	BDL	BDL			BDL
N-12775	Bayville	145	Up. Glacial	48.7	05/21/97	---	48.7	BDL			BDL
N-12790	Bayville	424	Lloyd	BDL	06/05/97	---	BDL	BDL		BDL	
N-12791	Bayville	90	Up. Glacial	13.6	06/05/97	---	13.6	BDL		BDL	
N-12793	Port Washington	410	Lloyd	BDL	01/07/98	---	BDL	BDL			BDL
N-12853	Glen Head	681	Lloyd	BDL	08/29/97	---	BDL	BDL			
N-12855	Upper Brookville	900	Lloyd	BDL	01/27/99	---	BDL	BDL			
N-12870	Bayville	435	Lloyd	BDL	11/25/97	---	BDL		BDL		
N-12871	Upper Brookville	160	Up. Glacial	BDL	01/26/98	---	---	2.0			
N-12880	Matinecock	625	Lloyd	BDL	01/22/98	---	BDL	BDL			
N-12894	Tobay Beach	1831	Lloyd	BDL	04/08/98	---	BDL				BDL
N-12895	Port Washington	80	Up. Glacial	BDL	10/13/98	---	BDL	BDL	BDL		
N-12921	Locust Valley	341	Lloyd	BDL	08/14/98	---	BDL			BDL	BDL
N-12929	Oyster Bay	650	Lloyd	BDL	03/17/98	---	BDL	BDL			
N-12946	Bayville	110	Up. Glacial	1.0	11/25/97	---	1.0				BDL

(1) Depth below ground from top of well to bottom of screen zone.

TABLE 4-5

*Monitoring Well Network
Raw Groundwater Quality Sampling*

METHYL TERTIARY BUTYL ETHER (MTBE) DETECTIONS**1995 - 2003**

(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth	Aquifer	Date	MTBE Concentrations > or = 2.0 ppb
N-01102	Manhasset	166	Magothy (wt)	11/04/99	13.6
N-01281	Massapequa	46	Up. Glacial	01/24/00	193.0
N-03864	So. Valley Stream	472	Magothy	05/13/98	2.0
N-06704	Atlantic Beach	298	Magothy	03/30/98	2.0
N-08646	Lawrence	22	Up. Glacial	03/24/98	5.0
N-08849	Oceanside	91	Magothy	05/06/98	2.0
N-08938	East Meadow	55	Up. Glacial	05/28/99	19.9
N-09088	Bethpage	68	Up. Glacial	12/11/96	2.0
N-09127	Bayville	41	Up. Glacial	07/19/99	5.4
N-09313	Roslyn	60	Up. Glacial	04/14/00	2.2
N-09383	Valley Stream	11	Up. Glacial	06/15/01	12.2
N-09469	Massapequa	46	Up. Glacial	05/18/00	2.7
N-09651	Roosevelt	47	Up. Glacial	06/18/99	5.2
N-09651	Roosevelt	47	Up. Glacial	05/17/00	3.9
N-09656	North Bellmore	39	Up. Glacial	02/02/00	4.0
N-09666	Uniondale	47	Up. Glacial	05/30/97	3.0
N-09666	Uniondale	47	Up. Glacial	07/02/01	3.3
N-09893	Kings Point	70	Up. Glacial	01/24/96	2.0
N-09919	Hicksville	84	Up. Glacial	06/22/99	2.9
N-09919	Hicksville	84	Up. Glacial	07/30/01	6.2
N-09921	Wantagh	62	Up. Glacial	06/30/03	59.7
N-09923	Farmingdale	43	Up. Glacial	04/17/00	14.0
N-09938	Westbury	80	Up. Glacial	04/06/00	3.6
N-09939	Bowling Green	74	Up. Glacial	10/18/01	28.2
N-10008	Lawrence	31	Up. Glacial	07/09/96	3.0

TABLE 4-5

*Monitoring Well Network
Raw Groundwater Quality Sampling*

METHYL TERTIARY BUTYL ETHER (MTBE) DETECTIONS**1995 - 2003**

(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth	Aquifer	Date	MTBE Concentrations > or = 2.0 ppb
N-10008	Lawrence	31	Up. Glacial	06/04/97	2.0
N-10084	Bellmore	21	Up. Glacial	06/29/95	40.0
N-10199	Lattingtown	56	Up. Glacial	07/19/96	2.0
N-10200	Locust Valley	119	Up. Glacial	02/25/97	10.0
N-10390	Great Neck Estates	100	Up. Glacial	05/12/00	5.2
N-10606	Upper Brookville	86	Magothy (wt)	08/09/96	2.0
N-11673	Glenwood Landing	92	Up. Glacial	10/25/00	6.0
N-11729	Mineola	108	Magothy	08/28/02	26.4
N-11735	Garden City	165	Magothy	06/10/98	2.0
N-11735	Garden City	165	Magothy	05/11/00	8.4
N-11735	Garden City	165	Magothy	06/12/02	11.6
N-11795	Sea Cliff	113	Up. Glacial	02/24/97	2.0
N-11795	Sea Cliff	113	Up. Glacial	06/05/98	24.0
N-11795	Sea Cliff	113	Up. Glacial	10/24/00	17.5
N-11956	Garden City	52	Up. Glacial	08/18/97	2.0
N-11956	Garden City	52	Up. Glacial	07/09/98	3.0
N-12005	Garden City Park	59	Up. Glacial	11/26/96	15.0
N-12250	Levittown	44	Up. Glacial	09/09/98	2.0
N-12255	Island Park	26	Up. Glacial	09/18/01	181.0
N-12259	Elmont	60	Up. Glacial	12/09/98	4.0
N-12451	Port Washington	115	Up. Glacial	04/03/01	9.9
N-12609	Long Beach	25	Up. Glacial	03/23/98	18.0
N-12618	Bayville	410	Lloyd	08/25/03	5.4

TABLE 4-6

*Monitoring Well Network
Raw Groundwater Quality Sampling*

PESTICIDE AND PERCHLORATE SAMPLING RESULTS - 2001

(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth	Aquifer	Date	Detected Compounds
N-02269	Port Washington	215	Up. Glacial	10/31/01	No Detections
N-02528	Upper Brookville	283	Magothy	10/16/01	No Detections
N-09117	Old Brookville	73	Magothy (wt)	11/26/01	No Detections
N-09118	Sands Point	97	Up. Glacial	08/08/01	No Detections
N-09152	Cold Spring Harbor	58	Up. Glacial	11/26/01	No Detections
N-09188	Manhasset	80	Up. Glacial	10/16/01	No Detections
N-09189	Oyster Bay	42	Up. Glacial	07/30/01	No Detections
N-09309	Elmont	59	Up. Glacial	07/11/01	Bromacil: 0.14 (T) Perchlorate: 1.6 (T)
N-09357	Freeport	27	Up. Glacial	08/20/01	Bis-2-ethylhexyl phthalate: 9.9 Dichlorbenil: 2.1
N-09358	Woodmere	20	Up. Glacial	08/20/01	Tebuthiuron: 0.66
N-09470	Freeport	29	Up. Glacial	08/30/01	No Detections
N-09471	Seaford	41	Up. Glacial	08/16/01	Dieldrin: 0.44 Chlordane: 1.31
N-09474	Atlantic Beach	33	Up. Glacial	09/18/01	No Detections
N-09607	Port Washington	191	Up. Glacial	07/31/01	No Detections
N-09656	North Bellmore	39	Up. Glacial	07/17/01	Simazine: 0.25 Dieldrin: 0.15 (T)
N-09658	North Wantagh	53	Up. Glacial	07/16/01	No Detections
N-09661	South Farmingdale	57	Magothy (wt)	10/23/01	No Detections
N-09663	Rockville Centre	50	Up. Glacial	12/04/01	Atrazine: 0.36 Dieldrin: 0.24 Chlordane: 1.16 Chlorothalonil: 0.36 (T) Deisopropylatrazine: 0.07 (T)
N-09667	Levittown	55	Up. Glacial	10/29/01	Dieldrin: 0.28
N-09668	Roosevelt	50	Up. Glacial	08/06/01	Dieldrin: 0.2, Chlordane: 0.5 (T)
N-09900	Plandome	35	Up. Glacial	08/15/01	No Detections
N-09919	Hicksville	84	Up. Glacial	07/30/01	No Detections
N-09928	Levittown	38	Up. Glacial	09/05/01	Dieldrin: 0.40 Chlordane: 1.07
N-09930	Farmingdale	46	Up. Glacial	10/23/01	Atrazine: 0.24
N-09943	Garden City	69	Up. Glacial	07/23/01	Simazine: 0.15 (T)
N-09949	New Hyde Park	100	Up. Glacial	07/11/01	No Detections

TABLE 4-6

*Monitoring Well Network
Raw Groundwater Quality Sampling*

PESTICIDE AND PERCHLORATE SAMPLING RESULTS - 2001

(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth	Aquifer	Date	Detected Compounds
N-10010	East Rockaway	40	Up. Glacial	07/18/01	Prometon: 0.52 Chlordane: 0.33 (T)
N-10290	Lake Success	169	Magothy (wt)	08/15/01	No Detections
N-10608	Woodbury	279	Magothy (wt)	10/03/01	Bis-2-ethylhexyl phthalate: 21.0
N-10981	Hempstead	220	Magothy	10/30/01	No Detections
N-11281	East Norwich	518	Lloyd	10/09/01	No Detections
N-11310	Brookville	558	Magothy	09/26/01	No Detections
N-11324	Old Brookville	178	Magothy	11/09/01	Desethylatrazine: 0.07 (T) Alachlor ESA: 0.34
N-11777	Sea Cliff	78	Up. Glacial	07/27/01	No Detections
N-11778	Glenwood Landing	72	Up. Glacial	07/27/01	No Detections
N-11779	Lakeview-Malverne Pk	37	Up. Glacial	07/18/01	Dieldrin: 0.47
N-11780	Old Brookville	89	Up. Glacial	11/14/01	No Detections
N-11964	East Hills	183	Up. Glacial	11/14/01	No Detections
N-12005	Garden City Park	59	Up. Glacial	07/23/01	Dieldrin: 0.2 Chlordane: 2.9
N-12239	South Farmingdale	42	Up. Glacial	08/16/01	Dieldrin: 0.18 (T) Chlordane: 0.17 (T)
N-12252	Hempstead Gardens	50	Up. Glacial	08/01/01	Simazine: 0.16 (T) Atrazine: 1.14 Dieldrin: 0.57 Deisopropylatrazine: 0.18 (T) Desethylatrazine: 0.13 (T)
N-12255	Island Park	26	Up. Glacial	09/18/01	No Detections
N-12276	Freeport	26	Up. Glacial	10/09/01	No Detections
N-12338	Oceanside	25	Up. Glacial	10/09/01	No Detections
N-12511	Roslyn	159	Up. Glacial	12/03/01	No Detections

TABLE 4-7

*Monitoring Well Network
Raw Groundwater Quality Sampling*

PESTICIDE, PHARMACEUTICAL AND PERCHLORATE SAMPLING RESULTS - 2002
(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth	Aquifer	Date	Detected Compounds
N-01194	Jericho	100	Up. Glacial	11/14/02	Benzyl butyl phthalate: 0.24 Butylated hydroxytoluene: 0.42 Perchlorate: 1.1 (T)
N-09077	East Meadow	52	Up. Glacial	08/05/02	Butylated hydroxytoluene: 0.17 (T)
N-09117	Old Brookville	73	Magothy (wt)	10/08/02	Disulfotone sulfone: 0.19 (T)
N-09472	Malverne	36	Up. Glacial	10/17/02	Bis-2-ethylhexyl phthalate: 3.84 Metolachlor metabolite: 0.12 (T) Diethyltoluamide (DEET): 0.21
N-09650	So. Hempstead	47	Up. Glacial	08/20/02	Bis-2-ethylhexyl phthalate: 3.63 Metolachlor metabolite: 0.45
N-09652	Freeport	42	Up. Glacial	09/05/02	Bis-2-ethylhexyl phthalate: 5.91
N-09666	Uniondale	47	Up. Glacial	08/13/02	Bis-2-ethylhexyl phthalate: 11.37 Chlordane: 0.74 (T) Phenanthrene: 0.12 (T) Fluoranthene: 0.14 (T)
N-09669	Valley Stream	32	Up. Glacial	10/10/02	Diethyltoluamide (DEET): 28.4 Diethylphthalate: 1.25
N-09936	Old Bethpage	63	Up. Glacial	10/29/02	Butylated hydroxytoluene: 1.75 Diethyltoluamide (DEET): 0.32
N-09999	Rockville Centre	31	Up. Glacial	09/04/02	Bis-2-ethylhexyl phthalate: 2.65 Perchlorate: 1.5 (T)
N-10005	Lynbrook	42	Up. Glacial	09/24/02	Bis-2-ethylhexyl phthalate: 3.13 Bromacil: 0.55 Metolachlor metabolite: 0.57 Diethyltoluamide (DEET): 0.26
N-10008	Lawrence	31	Up. Glacial	07/25/02	Bis-2-ethylhexyl phthalate: 3.26 Prometon: 0.16 (T)
N-11490	Massapequa	17	Up. Glacial	10/29/02	Butylated hydroxytoluene: 0.42 Metolachlor ESA: 0.25 (T)
N-11737	Mineola	53	Up. Glacial	08/28/02	Chlordane: 0.71 (T) Dieldrin: 0.13 (T)
N-11780	Old Brookville	89	Up. Glacial	10/08/02	Butylated hydroxyanisole: 0.47 (T) Butylated hydroxytoluene: 1.32 Benzyl butyl phthalate: 0.34
N-11784	Lawrence	24	Up. Glacial	09/24/02	Butylated hydroxytoluene: 0.15 (T)
N-11785	No. Valley Stream	34	Up. Glacial	09/17/02	Butylated hydroxytoluene: 1.57 Perchlorate: 1.8 (T)
N-12240	Sands Point	60	Up. Glacial	10/01/02	Bis-2-ethylhexyl phthalate: 7.66
N-12250	Levittown	44	Up. Glacial	10/31/02	Benzyl butyl phthalate: 0.14 (T) Butylated hydroxytoluene: 0.3 Chlordane: 0.17 (T)
N-12257	Garden City	60	Up. Glacial	11/14/02	Butylated hydroxytoluene: 1.19
N-12469	Thomaston	195	Up. Glacial	07/18/02	No detections
N-12614	Valley Stream	25	Up. Glacial	10/24/02	Butylated hydroxytoluene: 0.38 Prometon: 0.28 (T)

TABLE 4-8

*Monitoring Well Network
Raw Groundwater Quality Sampling*

PESTICIDE, PHARMACEUTICAL AND PERCHLORATE SAMPLING RESULTS - 2003
(all concentrations in ppb)

Monitoring Well No.	Community	Screen Depth	Aquifer	Date	Detected Compounds
N-01232	Plainview	57	Magothy (wt)	10/28/03	Butylated hydroxytoluene: 0.94 Perchlorate: 1.3 (T)
N-08876	Massapequa Park	36	Up. Glacial	09/25/03	Butylated hydroxytoluene: 1.27
N-08877	Manhasset	76	Up. Glacial	10/16/03	Butylated hydroxytoluene: 0.83
N-09116	Sands Point	31	Up. Glacial	10/23/03	Benzyl butyl phthalate: 0.12 (T) Butylated hydroxytoluene: 1.69
N-09154	Oyster Bay Cove	66	Up. Glacial	08/07/03	Butylated hydroxytoluene: 0.68
N-09313	Roslyn	60	Up. Glacial	11/13/03	Butylated hydroxytoluene: 0.15
N-09372	Rockville Centre	22	Up. Glacial	12/16/03	Bis-2-ethylhexyl adipate: 3.01 Bis-2-ethylhexyl phthalate: 20.7 Prometon: 0.2 (T)
N-09469	Massapequa Park	46	Up. Glacial	09/25/03	Butylated hydroxytoluene: 0.26
N-09664	Wantagh	31	Up. Glacial	08/12/03	Benzyl butyl phthalate: 0.19 (T) Bis-2-ethylhexyl phthalate: 4.28 Dibutyl phthalate: 1.01 Diethyl phthalate: 1.27 Diethyl toluamide: 0.74 Dioctyl phthalate: 0.22 Perchlorate: 2.0 Phenanthrene: 0.39
N-09776	Kings Point	284	Lloyd	07/30/03	No detections
N-09893	Kings Point	70	Up. Glacial	10/08/03	Butylated hydroxytoluene: 0.21
N-09895	Kings Point	44	Up. Glacial	10/08/03	Butylated hydroxytoluene: 1.48 Carbamazepine: 0.37
N-09898	Manhasset	110	Up. Glacial	10/16/03	Benzyl butyl phthalate: 0.12 (T) Butylated hydroxytoluene: 0.32
N-09927	Hicksville	94	Up. Glacial	07/17/03	Bis-2-ethylhexyl phthalate: 12.03 Diethyl toluamide: 0.18 (T)
N-09931	Bethpage	73	Up. Glacial	10/28/03	Benzyl butyl phthalate: 0.12 (T) Butylated hydroxytoluene: 0.26 Dieldrin: 0.21
N-09938	Westbury	80	Up. Glacial	07/17/03	Benzyl butyl phthalate: 0.13 (T) Butylated hydroxytoluene: 0.23
N-10609	Woodbury	199	Magothy (wt)	10/30/03	Benzyl butyl phthalate: 0.17 (T) Butylated hydroxytoluene: 0.3
N-11730	Great Neck	310	Lloyd	12/03/03	Butylated hydroxytoluene: 0.12 (T)
N-12013	Kings Point	200	Lloyd	10/22/03	Butylated hydroxytoluene: 1.18
N-12921	Locust Valley	341	Lloyd	12/23/03	No detections

TABLE 4-9

South Shore Saltwater Intrusion Monitoring Well Network

CHLORIDE CONCENTRATIONS AT SOUTH SHORE MONITORING WELLS

(all concentrations in ppm)

Monitoring Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth	Aquifer	Maximum Concentration Detected							
					1960s	1970s	1980s	1990s	2000	2001	2002	2003
N-00129	Jones Beach	Jones Beach	939	M	8	-	-	5	<3	8	<3	<3
N-00180	Seaford	N. Y. Water Service Corp.	723	M	-	-	-	-	<3	<3	<3	-
N-02790	Bay Park STP	L. I. American Water	560	M	4	5	10	8	-	-	-	<3
N-03498	Tobay Beach	Tobay Beach	335	M	12	14	-	10	<3	<3	<3	<3
N-03861	Cedarhurst STP	L. I. American Water	530	M	15500	16000	15995	16750	-	-	-	16000
N-03862	Lawrence STP	L. I. American Water	307	M	1920	1900	2050	2014	-	-	-	1850
N-03864	Woodmere	L. I. American Water	472	M	3	5	142	312	-	273	-	234
N-03865	Oceanside Park	L. I. American Water	564	M	3	5	15	287	-	<3	-	<3
N-03867	Green Acres STP	L. I. American Water	517	M	4	5	14	8	<3	<3	<3	<3
N-03932	Cedarhurst STP	L. I. American Water	176	J	5	13	7	8	-	5	-	<3
N-04026	Woodsburgh Dock	L. I. American Water	153	J	6	-	15	18	-	-	-	<3
N-04062	Lawrence STP	L. I. American Water	142	J	-	22	33	45	-	-	-	275
N-04213	Green Acres STP	L. I. American Water	134	J	-	3	11	500	112	72	70	10
N-04547	Jones Beach	Jones Beach	256	M	-	-	-	8	<3	<3	<3	<3
N-05129	Jones Beach	Jones Beach	965	M	10	8	-	8	5	8	5	<3
N-06581	Woodmere	L. I. American Water	584	M	8340	10900	14250	13180	-	-	-	12400
N-06657	Tobay Beach	Tobay Beach	291	M	11	33	12	13	10	10	5	10
N-06701	Atlantic Beach	L. I. American Water	857	RC	8100	8000	1100	500	-	318	-	5200
N-06702	Atlantic Beach	L. I. American Water	684	M	15800	12200	16250	16744	-	-	-	-
N-06703	Atlantic Beach	L. I. American Water	482	M	4380	5200	8250	6498	-	-	-	-
N-06704	Atlantic Beach	L. I. American Water	298	M	5	7	12	15	-	5	-	5
N-06849	Point Lookout	Lido - Pt. Lookout WD	1,039	RC	61	-	67	165	-	50	-	58
N-06850	Point Lookout	Lido - Pt. Lookout WD	914	M	114	-	197	125	-	115	-	110
N-06851	Point Lookout	Lido - Pt. Lookout WD	560	M	4	4	10	5	-	<3	-	<3
N-06853	Point Lookout	Lido - Pt. Lookout WD	137	M	4	-	10	8	-	-	-	<3
N-06928	Bay Park STP	L. I. American Water	726	M	13	12	17	15	10	10	10	13
N-07161	Rockville Centre	Rockville Centre Village	676	M	4	-	10	10	<3	<3	<3	<3
N-07207	Rockville Centre	Rockville Centre Village	98	M	-	-	13	20	-	-	-	-
N-08414	Jones Beach	Jones Beach	1,075	M	14	14	10	13	8	8	8	<3
N-08646	Lawrence	L. I. American Water	22	UG	-	23	105	200	-	-	-	-
N-08706	Bellmore	N. Y. Water Service Corp.	375	M	-	4	-	-	-	-	-	-
N-08849	Oceanside	L. I. American Water	91	M	-	-	8	25	-	-	-	-
N-08857	Merrick	N. Y. Water Service Corp.	151	M	-	2	-	8	-	5	-	<3
N-08863	Massapequa	Massapequa WD	168	M	-	4	-	5	-	<3	-	-
N-08873	Massapequa	Massapequa WD	207	M	-	7	-	8	-	<3	-	<3
N-08876	Massapequa	N. Y. Water Service Corp.	36	UG	-	3100	270	1100	-	-	-	-
N-10425	Oceanside	L. I. American Water	707	M	-	-	18	80	-	5	-	<3
N-10430	Hewlett School	L. I. American Water	615	M	-	-	8	12	<3	<3	<3	5
N-10620	Atlantic Beach	L. I. American Water	1,150	LL	-	-	58	53	45	45	43	45
N-10667	Valley Stream	L. I. American Water	537	M	-	-	103	1375	1650	1700	2200	2100
N-10979	Lawrence	L. I. American Water	340	M	-	-	875	1050	-	-	-	-
N-11002	Long Beach	Long Beach City	1,255	LL	-	-	5	8	<3	<3	<3	<3
N-11109	Long Beach	Long Beach City	815	M	-	-	12250	13746	11250	-	-	-
N-11573	Inwood STP	L. I. American Water	797	LL	-	-	-	8	-	20	-	13
N-11634	Inwood STP	L. I. American Water	558	M	-	-	-	17500	-	-	-	17000
N-11961	East Massapequa	N. Y. Water Service Corp.	1,299	LL	-	-	-	8	-	5	-	<3
N-11962	East Massapequa	N. Y. Water Service Corp.	861	M	-	-	-	8	-	5	-	<3
N-12218	Point Lookout	Lido - Pt. Lookout WD	1,276	LL	-	16	-	5	<3	<3	<3	<3
N-12570	N. Woodmere	L. I. American Water	550	M	-	-	-	1000	1100	1250	1550	1525
N-12571	N. Woodmere	L. I. American Water	535	M	-	-	-	5	<3	<3	<3	<3
N-12572	N. Woodmere	L. I. American Water	199	J	-	-	-	60	53	55	68	83
N-12573	N. Woodmere	L. I. American Water	150	J	-	-	-	160	8	10	25	18
N-12636	N. Woodmere	L. I. American Water	173	J	-	-	-	5	<3	5	<3	<3
N-12894	Tobay Beach	L. I. American Water	1,831	LL	-	-	-	10	<3	<3	8	<3
Q-00287	Howard Beach	NYCDEP	725	LL	-	-	152	350	-	-	-	145
Q-01071	Far Rockaway	NYCDEP	836	LL	-	-	59	72	-	-	-	-
Q-01187	Rosedale	NYCDEP	130	J	-	-	-	15	-	15	-	13
Q-01237	Queens	NYCDEP	227	J	112	-	400	995	-	-	-	430
Q-03109	Kennedy Airport	NYCDEP	310	M	-	-	4749	5000	-	-	-	4500

TABLE 4-10

North Shore Saltwater Intrusion Monitoring Well Network

CHLORIDE CONCENTRATIONS AT NORTH SHORE MONITORING WELLS

(all concentrations in ppm)

Monitoring Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth	Aquifer	Maximum Concentration Detected				
					1990s	2000	2001	2002	2003
N-01152	Glen Cove	Glen Cove City	130	UG	73	33	---	---	---
N-08046	Kings Point	Great Neck No. Water Auth.	189	NS	20	25	---	50	---
N-08052	Kings Point	Great Neck No. Water Auth.	94	NS	33	43	---	---	---
N-08891	Sands Point	Sands Point Village	72	UG	13	8	---	---	---
N-09118	Sands Point	Sands Point Village	97	UG	10	10	---	---	---
N-09127	Bayville	Bayville Village	41	UG	3000	775	---	1025	---
N-09152	Cold Spring Hbr	Jericho WD	58	UG	10	10	---	---	---
N-09154	Oyster Bay Cove	Oyster Bay WD	66	UG	10	18	---	---	8
N-09189	Oyster Bay Cove	Oyster Bay WD	42	UG	35	23	---	---	---
N-09208	Kings Point	Great Neck No. Water Auth.	96	UG	8	---	---	---	---
N-09314	Bayville	Bayville Village	54	UG	70	35	---	---	---
N-09316	Cove Neck	Oyster Bay WD	58	UG	50	25	---	23	---
N-09477	Kings Point	Great Neck No. Water Auth.	137	UG	78	80	---	---	---
N-09478	Llatingtown	Locust Valley WD	24	UG	25	28	---	---	---
N-09607	Port Washington	Port Washington WD	191	UG	12	5	---	---	---
N-09608	Port Washington	Port Washington WD	161	M	10745	9050	---	8850	---
N-09609	Port Washington	Port Washington WD	148	UG	100	108	---	143	---
N-09670	Glen Cove	Glen Cove City	42	UG	75	23	---	23	---
N-09776	Kings Point	Great Neck No. Water Auth.	284	LL	13	8	---	8	---
N-09820	Great Neck	Great Neck No. Water Auth.	318	LL	13	8	---	10	---
N-09894	Kings Point	Great Neck No. Water Auth.	35	UG	35	100	---	---	---
N-09898	Manhasset	Manhasset-Lakeville WD	110	UG	225	142	---	---	---
N-10192	Kings Point	Great Neck No. Water Auth.	352	LL	8	<3	---	---	---
N-10199	Llatingtown	Locust Valley WD	56	UG	70	---	---	---	---
N-10200	Locust Valley	Locust Valley WD	119	UG	185	115	---	---	---
N-10245	Glen Head	Sea Cliff/Aquarion Water Co.	100	M(wt)	38	---	---	68	---
N-11574	East Hills	Roslyn WD	780	LL	5	---	---	---	---
N-11672	Roslyn Harbor	Roslyn WD	35	UG	53	53	---	---	---
N-11673	Glenwood Landing	Jericho WD	92	UG	35	35	---	---	---
N-11675	Sea Cliff	Sea Cliff/Aquarion Water Co.	28	UG	40	48	---	50	---
N-11676	Roslyn Harbor	Roslyn WD	80	UG	60	58	---	---	---
N-11730	Great Neck	Great Neck No. Water Auth.	310	LL	85	15	---	---	---
N-11732	East Hills	Roslyn WD	443	M	5	<3	---	---	---
N-11777	Sea Cliff	Sea Cliff/Aquarion Water Co.	78	UG	120	---	---	---	---
N-11778	Glenwood Landing	Glenwood WD	72	UG	328	308	---	---	---
N-11795	Sea Cliff	Sea Cliff/Aquarion Water Co.	113	UG	55	35	---	35	---
N-11964	East Hills	Roslyn WD	183	UG	30	35	---	---	---
N-12013	Kings Point	Great Neck No. Water Auth.	200	LL	1900	1090	---	---	---
N-12038	Great Neck Gardens	Great Neck No. Water Auth.	372	LL	23	10	---	---	---
N-12050	Kings Point	Great Neck No. Water Auth.	270	NS	14500	13700	---	---	---
N-12076	Kings Point	Great Neck No. Water Auth.	260	LL	725	345	500	800	780
N-12079	Kings Point	Great Neck No. Water Auth.	177	LL	525	512	---	---	---
N-12082	Great Neck Gardens	Great Neck No. Water Auth.	490	LL	5	5	---	---	5
N-12102	Kings Point	Great Neck No. Water Auth.	245	NS	14500	12350	---	---	---
N-12112	Kings Point	Great Neck No. Water Auth.	285	NS	8	<3	---	---	---
N-12134	Plandome Manor	Manhasset-Lakeville WD	365	LL	35	5	---	---	---
N-12151	Sands Point	Sands Point Village	348	NS	10	8	---	---	---

TABLE 4-10

North Shore Saltwater Intrusion Monitoring Well Network

CHLORIDE CONCENTRATIONS AT NORTH SHORE MONITORING WELLS

(all concentrations in ppm)

Monitoring Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth	Aquifer	Maximum Concentration Detected				
					1990s	2000	2001	2002	2003
N-12152	Great Neck	Great Neck No. Water Auth.	146	M	10	8	---	5	---
N-12153	Kings Point	Great Neck No. Water Auth.	333	LL	5500	2950	5700	6050	5900
N-12190	Sands Point	Sands Point Village	235	LL	10	18	---	---	---
N-12191	Munsey Park	Manhasset-Lakeville WD	674	LL	5	---	---	---	---
N-12209	Sands Point	Sands Point Village	365	NS	5	5	---	<3	---
N-12232	Baxter Estates	Port Washington WD	384	NS	325	152	---	128	---
N-12240	Sands Point	Sands Point Village	60	UG	13	15	---	10	---
N-12241	Sands Point	Sands Point Village	117	UG	20	23	---	15	---
N-12256	Oyster Bay	Oyster Bay WD	29	UG	53	50	---	30	---
N-12262	Baxter Estates	Port Washington WD	80	UG	90	50	---	53	---
N-12263	Baxter Estates	Port Washington WD	290	NS	65	45	---	40	---
N-12264	Baxter Estates	Port Washington WD	20	UG	55	50	---	33	---
N-12318	Sands Point	Sands Point Village	165	NS	180	215	138	190	155
N-12319	Sands Point	Sands Point Village	385	LL	5	<3	---	<3	---
N-12320	Port Washington	Port Washington WD	530	NS	10	5	---	---	---
N-12321	Port Washington	Port Washington WD	572	NS	5	<3	---	---	---
N-12343	Sands Point	Sands Point Village	170	M	8	8	---	5	---
N-12451	Port Washington	Port Washington WD	115	UG	38	---	---	---	---
N-12464	Kings Point	Great Neck No. Water Auth.	19	UG	95	48	---	---	---
N-12465	Kings Point	Great Neck No. Water Auth.	125	NSC	25	25	---	---	---
N-12506	Port Washington	Port Washington WD	496	LL	15	15	---	---	---
N-12507	Flower Hill	Port Washington WD	605	LL	13	13	---	10	---
N-12508	Port Washington	Port Washington WD	375	LL	700	725	750	770	800
N-12511	Roslyn	Roslyn WD	159	UG	5	5	---	---	---
N-12522	Port Washington	Port Washington WD	215	M	9750	9400	---	---	---
N-12579	Glen Cove	Glen Cove City	193	UG	23	23	---	33	---
N-12618	Bayville	Bayville Village	410	LL	5	<3	40	5	45
N-12635	Glen Cove	Glen Cove City	432	LL	5	<3	---	---	---
N-12646	Llatingtown	Locust Valley WD	520	LL	28	28	23	28	28
N-12665	Llatingtown	Locust Valley WD	385	NSC	20	18	---	15	---
N-12667	Glen Cove	Glen Cove City	500	LL	5	<3	---	---	---
N-12697	Mill Neck	Locust Valley WD	595	LL	8	<3	8	5	5
N-12711	Mill Neck	Locust Valley WD	140	UG	48	8	---	10	5
N-12733	Cove Neck	Private	703	LL	<3	<3	---	<3	---
N-12747	Centre Island	Private	510	LL	38	<3	<3	<3	<3
N-12754	Centre Island	Private	20	UG	1025	---	---	---	---
N-12755	Centre Island	Private	118	UG	14495	10200	10600	11000	10550
N-12768	Oyster Bay Cove	Oyster Bay WD	849	LL	<3	<3	---	<3	---
N-12771	Kings Point	Great Neck No. Water Auth.	90	UG	---	38	---	38	---
N-12772	Kings Point	Great Neck No. Water Auth.	30	UG	---	135	---	60	---
N-12774	Bayville	Bayville Village	387	LL	5	8	<3	5	8
N-12775	Bayville	Bayville Village	145	UG	6800	1900	7300	8950	5000
N-12790	Bayville	Bayville Village	424	LL	1900	2080	2350	2950	2850
N-12791	Bayville	Bayville Village	90	UG	13750	14100	---	14200	14000
N-12793	Port Washington	Port Washington WD	410	LL	30	45	60	90	112
N-12853	Glen Head	Sea Cliff/Aquarion Water Co.	681	LL	<3	<3	---	<3	---
N-12855	Upper Brookville	Jericho WD	900	LL	<3	5	---	5	---

TABLE 4-10*North Shore Saltwater Intrusion Monitoring Well Network***CHLORIDE CONCENTRATIONS AT NORTH SHORE MONITORING WELLS**

(all concentrations in ppm)

Monitoring Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth	Aquifer	Maximum Concentration Detected				
					1990s	2000	2001	2002	2003
N-12870	Bayville	Bayville Village	435	LL	1550	750	33	83	108
N-12871	Upper Brookville	Jericho WD	160	UG	20	15	---	28	---
N-12880	Matinecock	Locust Valley WD	625	LL	5	5	---	5	---
N-12895	Port Washington	Port Washington WD	80	UG	80	122	---	248	235
N-12921	Locust Valley	Locust Valley WD	341	LL	8	5	---	8	---
N-12929	Oyster Bay	Oyster Bay WD	650	LL	5	<3	---	<3	---
N-12946	Bayville	Bayville Village	110	UG	8500	10950	12300	11900	11000

TABLE 4-11

ANNUAL PUBLIC WATER SUPPLY WITHDRAWAL IN NASSAU COUNTY

(withdrawals in millions of gallons unless noted)

Public Water Supplier	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Albertson WD	685	853	708	769	735	730	636	713	773	808	788	818	759	770
Bayville Village	285	308	294	340	300	332	307	288	345	352	332	330	313	316
Bethpage State Park	55	83	40	105	95	92	43	100	137	169	135	205	179	145
Bethpage WD	1186	1329	1275	1344	1295	1301	1193	1226	1286	1365	1236	1348	1346	1276
Carle Place WD	481	514	495	539	569	534	523	531	575	618	604	589	577	535
Farmingdale Village	388	418	381	408	382	393	389	391	389	398	429	431	423	400
Franklin Square WD	675	684	670	752	748	743	769	714	804	831	743	848	846	771
Freeport Village	1743	1794	1748	1789	1794	1819	1794	1867	1916	1889	1961	2113	2014	1876
Garden City Park WD	1064	1211	1107	1354	1393	1269	1180	1258	1260	1299	1243	1362	1380	1225
Garden City Village	1330	1417	1257	1486	1508	1512	1456	1571	1634	1702	1703	1794	1697	1616
Glen Cove, City of	1371	1404	1445	1573	1557	1613	1609	1639	1710	1791	1731	1775	1858	1767
Hempstead Village	2301	2316	2264	2373	2559	2452	2392	2438	2552	2561	2529	2664	2575	2548
Hempstead, Town of (excluding Lido-Pt. Lookout)	5676	6866	6239	6594	6269	6744	6089	6628	7120	7742	7067	7588	7248	6750
Hicksville WD	2338	2536	2393	2629	2472	2365	2233	2226	2330	2560	2345	2655	2537	2319
Jericho WD	3770	4464	3920	4646	4818	4869	4273	4778	4962	5457	4619	5365	5439	4568
Jones Beach State Park	81	81	81	76	79	77	67	77	85	89	172	81	88	68
Lido-Point Lookout WD	315	349	322	397	356	327	347	340	314	335	312	328	330	287
Locust Valley WD	444	585	476	613	569	629	492	557	612	694	622	726	743	586
Long Beach, City of	1284	1339	1325	1466	1448	1399	1364	1337	1370	1436	1366	1375	1358	1328
Long Island American Water	9750	10528	9821	10706	10492	10674	9990	10338	10564	10813	10516	11129	10760	9855
Manhasset-Lakeville WD	2190	2281	2132	2480	2550	2575	2544	2375	2395	2713	2375	2495	2562	2320
Massapequa WD	1781	1893	1726	1948	1854	2069	1730	1871	1922	1891	1831	2126	2340	1978
Mineola Village	953	1011	1025	1076	1147	1075	1036	1054	1028	1117	965	1018	980	1038
New York Water Service Corp.	5266	5491	5269	5843	5791	5807	5398	5653	5861	6139	5632	6149	6063	5560
Old Westbury Village	465	577	493	634	621	643	543	607	664	772	620	777	773	617
Oyster Bay WD	385	439	378	430	416	431	384	417	425	455	383	438	451	451
Plainview WD	1577	1691	1679	1817	1762	1785	1543	1663	1706	1790	1536	1617	1591	1384
Plandome Village	71	84	68	79	0	0	0	0	0	0	0	0	0	0
Port Washington WD	1149	1412	1351	1401	1201	1320	1275	1370	1444	1407	1425	1478	1455	1365
Rockville Centre Village	1313	1398	1337	1546	1434	1439	1212	1234	1339	1429	1481	1667	1513	1401
Roslyn WD	1114	1278	1128	1259	1281	1366	1194	1298	1286	1322	1194	1366	1314	1190
Sands Point Village	246	272	271	328	336	302	280	305	316	361	338	346	368	359
Sea Cliff/Aquarion Water Co.	436	469	406	489	480	493	439	446	472	527	432	487	491	468
South Farmingdale WD	1408	1589	1575	1740	1714	1680	1543	1705	1799	1944	1755	2045	1944	1732
Water Authority of Great Neck North	1483	1653	1507	1674	1623	1624	1520	1673	1663	1666	1541	1689	1665	1518
Water Authority of Western Nassau County	3765	3701	3524	3434	3914	3808	3443	3926	4293	4340	3935	3851	4356	4258
West Hempstead-Hempstead Gardens WD	1107	1155	1077	1119	1070	1066	903	1108	1163	1213	1117	1234	1217	1213
Westbury WD	1024	1083	988	1092	1152	1167	1157	1189	1170	1258	1169	1256	1144	1006
Williston Park Village	440	556	448	496	480	472	441	453	450	450	383	433	442	415
Total Countywide Withdrawal:	61393	67166	62643	68853	68263	68993	63728	67365	70133	73705	68567	73995	73140	67279
Countywide Average Withdrawal Rate (MGD):	168	184	171	189	187	189	174	185	192	202	187	203	200	184

TABLE 4-12

MONTHLY PUBLIC WATER SUPPLY WITHDRAWAL IN NASSAU COUNTY
-2000-

Public Water Supplier	(withdrawals in Thousands of Gallons per Month, unless noted)												Annual Total
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Albertson WD	41357	44081	47544	47934	71972	93431	102485	89352	76278	64475	55033	54316	788258
Bayville Village	18038	18770	20151	21221	23350	37545	41556	39752	37436	32201	22750	19430	332200
Bethpage State Park	0	0	1585	3967	10568	19516	39233	15817	14161	9556	9556	10824	134783
Bethpage WD	78418	70199	73496	74986	110987	139228	179173	137884	119623	97016	77659	77530	1236199
Bowling Green Estates WD (TOH)	55549	49865	48046	50765	58592	64078	70148	63300	65441	54747	61506	61762	703799
Carle Place WD	40046	41954	42496	42334	53131	64354	74929	54719	53543	49746	40910	46305	604467
East Meadow WD (TOH)	127882	86155	123410	137632	181944	209925	269294	224472	217616	182770	146698	134023	2041821
Farmingdale Village	25970	25946	28393	30720	38770	43227	54620	47024	39975	35398	29354	29317	428714
Franklin Square WD	52489	55146	58502	55613	68792	89284	87094	74384	67064	60662	23246	50267	742543
Freeport Village	137830	126061	131827	136926	169553	198151	215512	185241	191822	175326	152468	140592	1961309
Garden City Park WD	81853	79598	81814	80006	109467	138108	156580	132083	119695	103163	82265	77903	1242535
Garden City Village	100523	92299	103230	107757	153482	191708	221904	195160	174051	150408	109608	103057	1703187
Glen Cove, City of	129900	119795	130203	107804	130296	180466	205149	168662	155288	151651	129104	123052	1731370
Hempstead Village	193271	183531	193706	190175	214379	236217	264943	239418	222392	210425	188671	191839	2528967
Hicksville WD	157360	150955	153268	152224	201826	255915	314361	246645	221019	187461	151909	151951	2344894
Jericho WD	189674	199605	222747	250479	478633	624509	759094	559484	483441	385167	241643	224244	4618720
Jones Beach State Park	2918	2794	2527	3441	7015	11550	14819	12256	12487	35712	34560	32406	172485
Levittown WD (TOH)	150564	148631	144637	140888	181539	216023	279767	199348	187837	161693	136292	137092	2084311
Lido-Point Lookout WD (TOH)	16677	14172	15871	17437	27495	38099	47010	40282	35232	28261	17411	14295	312242
Locust Valley WD	26934	24258	27291	42753	75806	83590	104384	61891	63360	50687	33522	27429	621905
Long Beach, City of	98516	93601	102831	102899	117802	118943	138245	137775	129321	120629	101768	103220	1365550
Long Island American Water	695180	642892	685536	686656	903673	1080912	1265796	1125851	1076387	929606	722555	700578	10515622
Manhasset-Lakeville WD	145491	140957	150850	147733	232092	279576	306121	258318	227970	195445	154826	136073	2375452
Massapequa WD	108272	93221	106408	115955	165425	218312	271495	214954	193430	146251	102153	95604	1831480
Mineola Village	66429	70881	72606	72632	87959	100505	109377	97482	88103	86284	56877	56153	965288
New York Water Service Corp.	357520	335220	364880	369700	502970	621020	741980	588670	553070	475120	365340	357000	5632490
Old Westbury Village	20969	22226	23167	26806	62692	91324	113828	82041	69298	54571	29243	23433	619598
Oyster Bay WD	23529	21390	22592	23290	36155	46596	56815	39911	34595	31118	24148	23064	383203
Plainview WD	91595	85791	88977	98538	145861	178709	210242	187808	157754	123894	85898	81403	1536470
Port Washington WD	100880	88410	92300	100140	131490	153360	186410	140180	126160	114430	98850	92350	1424960
Rockville Centre Village	101517	97119	105046	97610	124307	152237	183832	156019	145062	126044	96437	95755	1480985
Roosevelt Field WD (TOH)	34429	29637	36544	32653	53013	74450	99526	85057	71493	54595	27628	26846	625871
Roslyn WD	66086	62976	67886	69169	111351	144649	169429	137800	120871	106611	71590	65152	1193570
Sands Point Village	14920	12390	16050	17540	34500	48080	56350	39780	37790	31200	15840	13860	338300
Sea Cliff/Aqarion Water Co.	29104	27353	29047	32358	44472	51905	62186	41979	35544	29163	24763	24081	431955
South Farmingdale WD	105107	103084	110458	115972	150539	197965	252158	193658	167086	142638	108405	107933	1755003
Uniondale WD (TOH)	108157	155494	125325	88530	129021	162182	207220	155953	141219	127428	105702	105052	1611283
Water Auth. of Gt. Neck North	90774	83007	96748	97804	147846	177084	194865	168478	152572	139141	99581	92925	1540825
Water Auth. of W. Nassau Cty.	286743	255972	278767	272946	358872	413290	455835	379503	357153	321172	271622	282709	3934584
West Hemp-Hemp.Gardens WD	71601	62729	74425	81544	99492	106194	134901	112089	107437	104277	85180	77092	1116961
Westbury WD	86617	79751	80739	77750	98765	113990	141678	116580	102921	97380	88484	84515	1169170
Williston Park Village	27610	27070	27480	26310	33450	40800	45000	39730	32910	35510	23680	23720	383270
Total Annual Withdrawal	4358299	4124986	4409406	4449597	6139344	7507007	8905344	7286790	6685907	5819032	4504735	4376152	68566599
Countywide Average Withdrawal Rate (MGD)	141	142	142	148	198	250	287	235	223	188	150	141	187

TABLE 4-13

MONTHLY PUBLIC WATER SUPPLY WITHDRAWAL IN NASSAU COUNTY
-2001-

Public Water Supplier	(withdrawals in Thousands of Gallons per Month, unless noted)												Annual Total
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Albertson WD	53683	48383	56078	58345	93696	89443	103346	99777	78197	60320	39775	36579	817622
Bayville Village	17770	17801	20480	19890	37929	28334	40477	45060	38380	28823	19770	14989	329703
Bethpage State Park	0	0	0	4423	35981	39893	34729	33123	24501	15057	14873	2853	205433
Bethpage WD	84240	64223	70440	80760	152924	162113	183144	176550	133437	96588	70070	73174	1347663
Bowling Green Estates WD (TOH)	63161	44535	52468	59057	49101	66956	77732	91321	72690	75856	66067	63680	782624
Carle Place WD	44322	36557	37464	38188	63487	65294	71010	64532	54974	43703	35015	34150	588696
East Meadow WD (TOH)	158321	144395	157048	163077	240961	254672	285907	255874	219880	162434	107991	101770	2252330
Farmingdale Village	30252	26746	31977	30443	43282	43376	50795	47386	39127	34335	27114	26087	430920
Franklin Square WD	53698	46144	51120	64618	88714	89112	96473	99055	80585	67164	55424	56066	848173
Freeport Village	141737	126391	144295	149027	200969	210465	226744	237162	202576	174310	149968	149337	2112981
Garden City Park WD	80479	71678	79712	82998	148108	153424	171095	168620	132360	109981	83299	79944	1361698
Garden City Village	105322	92493	103313	110699	197753	209449	225578	236208	189250	139495	101099	83268	1793927
Glen Cove, City of	120998	103919	118390	119415	186556	183041	206551	194056	161823	139495	121285	119932	1775461
Hempstead Village	194002	180872	199773	196379	238277	250874	262498	271198	239946	224583	201590	203667	2663659
Hicksville WD	163289	142729	158386	172086	285523	285016	332113	333174	256097	206988	163332	156722	2655455
Jericho WD	223094	196751	227428	270700	704211	666219	798486	754149	594082	435478	272616	221290	5364504
Jones Beach Park	2297	1617	2298	3269	6449	11327	16900	16031	8357	5438	4129	3174	81286
Levittown WD (TOH)	152571	132423	135547	146312	221098	228268	269262	258751	206577	172702	151626	119710	2194847
Lido-Pt. Lookout WD (TOH)	15706	12446	14338	17022	37758	39148	43822	48154	38623	27567	18008	15584	328176
Locust Valley WD	27585	23819	25318	36570	100175	89499	113083	103991	76914	59169	40033	29421	725577
Long Beach, City of	101636	88857	92843	94487	129098	133986	147780	152362	118420	119455	100581	95271	1374776
Long Island American Water	712375	607023	687014	741451	1138574	1189480	1302429	1318252	1103173	917621	730596	680961	11128949
Manhasset-Lakeville WD	137899	116757	136971	148511	274512	289579	325979	318875	254062	202335	148757	140806	2495043
Massapequa WD	98996	86418	89456	112325	231523	247180	288670	298836	250988	157238	170621	94009	2126260
Mineola Village	61848	56252	65005	72353	110409	111316	110169	111158	95713	83393	72870	67068	1017554
New York Water Service Corp.	367780	323630	361520	403160	654840	683010	762160	746540	621600	492390	377260	354860	6148750
Old Westbury Village	23891	22191	25808	33176	104544	101984	118848	123736	91793	62951	39596	27997	776515
Oyster Bay WD	23060	19928	22000	25450	55939	50726	55585	55889	43653	34406	26364	24613	437613
Plainview WD	81924	75145	78596	114570	196272	189279	235447	198756	167821	115318	88365	75842	1617335
Port Washington WD	96290	84600	90840	107230	166700	150340	163920	162680	137790	119830	103050	95210	1478480
Rockville Centre Village	90524	78375	84480	88313	162194	179929	166741	189154	153339	131426	246529	96246	1667250
Roosevelt Field WD (TOH)	28401	25663	35711	42273	99464	82084	88038	107125	86258	60980	46298	48320	750615
Roslyn WD	68804	61343	71295	75459	162783	160986	178566	188886	144335	111466	76097	66185	1366205
Sands Point Village	12660	10550	11900	11900	17840	49900	59440	55730	45420	36960	21140	12580	346020
Sea Cliff/Aquarion Water Co.	24060	25048	28199	34842	59040	53551	62556	59834	46274	36491	29632	27396	486923
South Farmingdale WD	124953	96461	107212	120488	219999	243050	278692	272116	211036	155896	110451	105004	2045358
Uniondale WD (TOH)	98383	88787	164695	96181	161658	166908	189591	185359	148982	112057	102628	92764	1607993
Water Auth. of Gt. Neck North	96160	83761	95986	107786	196347	190857	208958	202480	169469	142877	105686	88639	1689006
Water Auth. of W. Nassau Cty.	295403	259510	290269	110676	106237	475380	476595	509750	421096	346129	282924	277083	3851052
West Hemp-Hemp.Gardens WD	69420	67320	78202	85278	122972	124080	142202	159632	119280	101936	81152	82900	1234374
Westbury WD	88289	77261	76889	82438	118693	128105	135434	161171	114409	108808	84448	79738	1255683
Williston Park Village	27800	24090	23790	27120	43700	46680	51560	52620	42900	35650	29240	28260	433410
Total Annual Withdrawal	4463083	3892892	4404554	4558745	7666290	8214313	9159105	9165113	7436187	5965099	4817369	4253149	73995899
Countywide Average Withdrawal Rate (MGD)	144	134	142	152	247	274	295	296	248	192	161	137	203

TABLE 4-14

MONTHLY PUBLIC WATER SUPPLY WITHDRAWAL IN NASSAU COUNTY
-2002-

Public Water Supplier	(withdrawals in Thousands of Gallons per Month, unless noted)												Annual Total
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Albertson WD	37796	31572	39039	46651	68917	79659	119313	109081	80267	61132	42587	43047	759061
Bayville Village	17975	15209	15613	20642	25920	35165	42131	47712	34152	24588	17899	16220	313226
Bethpage State Park	0	0	4250	13096	20493	22432	44526	43810	18223	11948	0	0	178778
Bethpage WD	77165	64093	68166	79299	109531	141725	213155	193518	140975	106214	72148	80080	1346069
Bowling Green Estates WD (TOH)	65148	59297	64249	67014	72786	76179	85835	80174	63317	66307	41858	39983	782147
Carle Place WD	34727	30120	33872	35939	47697	57782	86270	77184	55631	44015	33174	41009	577420
East Meadow WD (TOH)	110114	90046	88307	105688	142744	188547	295742	304206	190054	124848	90108	97326	1827730
Farmingdale Village	25860	22841	25185	30634	35529	43908	56567	50387	32223	44769	25169	30021	423093
Franklin Square WD	60320	54226	60408	60765	71291	82867	108717	99691	75212	63333	52764	56290	845884
Freeport Village	146168	127139	139853	143162	167587	194768	251672	226966	178938	161802	137436	138251	2013742
Garden City Park WD	82663	71940	80936	92005	116462	145276	200590	178436	134508	106811	82970	86933	1379530
Garden City Village	87222	78410	92002	111025	153890	178816	259178	239213	184170	140078	86983	85979	1696966
Glen Cove, City of	123925	110552	123496	133086	158492	162133	230913	227888	172728	153462	130553	131014	1858242
Hempstead Village	194663	175466	191329	191490	212451	232161	292497	274955	227378	215575	185991	181335	2575291
Hicksville WD	158918	139177	152774	167064	210296	258531	384453	343065	233988	186405	145757	156701	2537129
Jericho WD	221011	190663	219516	305019	543050	630203	926255	916830	616941	411880	237900	219931	5439199
Jones Beach State Park	2589	2789	3289	5198	7479	11093	19558	17527	7896	5024	3240	2558	88240
Levittown WD (TOH)	124207	109204	122589	126789	150128	190821	294750	266165	178769	151700	127342	130621	1973085
Lido-Point Lookout WD (TOH)	15609	14027	14032	18035	30377	36778	52525	49564	36000	27123	16456	19714	330240
Locust Valley WD	26919	24193	27282	44920	72450	84885	142036	138720	78004	46987	26271	30131	742798
Long Beach, City of	90000	82620	100750	106238	124729	127527	141949	141949	119351	117006	103072	102484	1357675
Long Island American Water	672782	589669	651467	725209	977992	1152794	1476779	1325854	1034706	848203	656266	648366	10760087
Manhasset-Lakeville WD	140462	121767	137827	148759	227833	264702	375020	372389	271929	205297	150507	145464	2561956
Massapequa WD	88611	81848	98370	196538	170186	219622	353737	427869	241842	228083	129134	104114	2339954
Mineola Village	66987	58562	66780	67905	80275	90777	119743	112422	93803	82596	70546	69835	980231
New York Water Service Corp.	348650	305010	346820	406380	533290	649310	859150	797630	592810	492790	367430	363310	6062580
Old Westbury Village	32080	27652	26057	39554	71594	87603	143931	143142	91815	57410	28049	23649	772536
Oyster Bay WD	23622	20268	22251	27766	40612	47105	71984	71489	44249	33299	24251	23999	450895
Plainview WD	81299	66701	79392	94988	143872	168958	242328	227289	174067	125646	103859	82352	1590751
Port Washington WD	92300	78440	86830	97420	122050	150020	203450	199240	138470	113290	87570	85444	1454524
Rockville Centre Village	95308	79673	91921	100237	127812	157284	215624	179958	154822	125062	92180	93217	1513098
Roosevelt Field WD (TOH)	41403	35078	52582	64341	82329	102860	123160	113284	77348	79430	62637	56881	891333
Roslyn WD	65120	54753	61687	79248	120039	141788	198789	200992	148181	107129	70441	66006	1314173
Sands Point Village	12290	9610	11520	19830	38180	45350	68405	58495	46940	31875	14130	11610	368235
Sea Cliff/Aquarion Water Co.	27083	24023	23008	34202	43342	50688	78419	73065	47112	35834	27171	27133	491080
South Farmingdale WD	105878	96810	110769	126710	164393	207823	307031	276989	190443	147805	102908	106716	1944275
Uniondale WD (TOH)	87886	91045	110676	126843	146070	156877	235827	211426	168237	161693	128371	148308	1773259
Water Auth. of Gt. Neck North	90921	76704	90996	107479	154801	175289	243469	227982	176878	136715	93801	90433	1665468
Water Auth. of W. Nassau Cty.	270111	241299	270615	281448	367577	429692	616542	534858	423553	342353	283675	294504	4356227
West Hemp-Hemp.Gardens WD	81940	75060	83208	80692	102300	124736	149218	144465	113965	98098	79368	84254	1217304
Westbury WD	77345	65733	71788	77618	91336	115081	158366	149422	106723	94160	62366	74053	1143991
Williston Park Village	29800	24910	27430	29960	37400	42940	61950	54780	41300	34260	27300	30440	442470
Total Annual Withdrawal	4234877	3718199	4188931	4836886	6385582	7562555	10551554	9930081	7237918	5852035	4321638	4319716	73139972
Countywide Average Withdrawal Rate (MGD)	137	128	135	161	206	252	340	320	241	189	144	139	200

TABLE 4-15

MONTHLY PUBLIC WATER SUPPLY WITHDRAWAL IN NASSAU COUNTY
-2003-

Public Water Supplier	(withdrawals in Thousands of Gallons per Month, unless noted)												Annual Total
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Albertson WD	47416	44015	49037	52675	68975	69890	106901	98539	78428	65942	46454	42226	770498
Bayville Village	16500	16493	17950	19056	25260	27393	46545	42094	28738	23364	35112	17490	315995
Bethpage State Park	0	0	1803	11597	18607	9080	35237	30952	19317	14466	3536	0	144595
Bethpage WD	83129	79220	79861	83674	108504	115856	182213	163621	125128	103651	74420	76250	1275527
Bowling Green Estates WD (TOH)	56961	57661	61379	49984	52352	52637	74351	70648	66705	66148	46513	37064	692403
Carle Place WD	38693	35651	41415	38506	44261	45850	70156	62433	49208	42735	32964	33323	535195
East Meadow WD (TOH)	82762	81366	75956	75712	127855	124751	229075	198903	181085	160597	111376	105883	1555321
Farmingdale Village	25905	22860	28836	27203	31678	32570	54906	43465	35223	31861	35503	30021	400031
Franklin Square WD	61979	55753	59170	57380	66363	67567	93132	86258	69830	58533	48170	47234	771369
Freeport Village	136488	128376	150413	140398	157488	163468	220419	199271	165642	147340	131729	135038	1876070
Garden City Park WD	93646	86434	92930	87334	102039	108232	153476	135865	110796	97281	76641	80096	1224770
Garden City Village	90769	90614	104350	111492	142383	139034	217756	201974	171779	148215	98512	99170	1616048
Glen Cove, City of	133649	120830	140154	127826	143922	148741	215532	189656	155376	146648	121723	122751	1766808
Hempstead Village	195097	195148	202165	204927	213723	208833	254950	246228	220704	211815	195389	198552	2547531
Hicksville WD	166683	153673	167530	166222	195065	202933	302285	274083	211620	184382	146981	147590	2319047
Jericho WD	228536	204221	228331	254618	401366	416552	757016	681351	529041	413739	247319	206165	4568255
Jones Beach State Park	2684	2304	2206	3132	4950	8037	14387	13050	6817	4687	2857	2546	67657
Levittown WD (TOH)	132453	121755	139597	136289	153351	164023	216221	213744	169650	181855	149435	128441	1906814
Lido-Point Lookout WD (TOH)	16188	13741	14693	16389	26452	27278	43289	39739	30539	26443	18587	13821	287159
Locust Valley WD	30299	27981	30474	34088	57561	55929	112994	99981	52388	34185	23272	27016	586168
Long Beach, City of	113232	96045	105358	101662	108226	95000	133098	133247	127275	113056	100732	101453	1328384
Long Island American Water	668424	603731	674094	662590	822242	871927	1296478	1156644	974122	829212	651271	644032	9854767
Manhasset-Lakeville WD	146687	131169	143645	142947	199852	206425	323236	304284	246254	193146	144494	138026	2320165
Massapequa WD	97335	92860	98370	171578	170186	219622	353737	265699	118618	164304	132519	93180	1978008
Mineola Village	72092	71546	79584	77929	90668	90700	116167	109228	92914	87162	74855	75467	1038312
New York Water Service Corp.	369970	320630	362350	381790	478780	511610	753440	645250	564880	472630	346990	351830	5560150
Old Westbury Village	26389	23069	25670	30523	54649	59561	117354	98474	75211	53097	27417	25461	616875
Oyster Bay WD	23622	20268	22251	27766	40612	47105	71984	71489	44249	33299	24251	23999	450895
Plainview WD	75918	65773	75416	79337	120815	155458	206687	191999	136488	124857	72586	78231	1383565
Port Washington WD	93154	84203	101924	91348	118128	110069	171162	160440	137914	117741	91869	86959	1364911
Rockville Centre Village	91505	82569	94702	99164	119698	122613	178654	161303	141119	125680	94458	89499	1400964
Roosevelt Field WD (TOH)	56749	48029	57583	59584	70313	71053	95207	89100	75289	86707	70278	78269	858161
Roslyn WD	69627	66511	69501	67732	98722	110169	179353	165587	133637	104893	62550	62018	1190300
Sands Point Village	11630	11070	14400	19360	34880	36630	67270	55380	40690	34230	17860	15790	359190
Sea Cliff/Aquarion Water Co.	27460	25606	29257	29986	38473	42591	70000	61619	45004	37274	30823	30256	468349
South Farmingdale WD	106611	100500	114278	116875	146065	156971	247274	211238	173773	144381	104892	108917	1731775
Uniondale WD (TOH)	142583	145483	160888	156618	146949	154417	206091	189494	149495	117098	89746	78581	1737443
Water Authority of Gt. Neck North.	93989	83221	90602	97837	137539	136824	209299	191069	154130	136128	95356	92182	1518176
Water Authority of W. Nassau Cty.	284353	273169	314362	303642	364518	382419	548632	492917	385161	346700	283226	278979	4258078
West Hemp. - Hemp. Gardens WD	73600	73226	79648	78220	106019	117322	159932	143556	129036	104188	74315	74123	1213185
Westbury WD	71728	63433	62630	71707	99690	87556	117507	110194	94054	88206	63142	75700	1005547
Williston Park Village	32350	28700	32130	30590	35460	35320	49690	46420	36570	32430	27050	28370	415080
Total Annual Withdrawal	4388845	4048907	4496893	4597287	5744639	6010016	9073093	8146486	6553897	5710306	4327173	4181999	67279541
Countywide Average Withdrawal Rate (MGD)	142	145	145	153	185	200	293	263	218	184	144	135	184