Water Resources Data New York Water Year 2003

Volume 2. Long Island

By A.G.Spinello, R. Busciolano, G. Peña-Cruz, and R.B. Winowitch

Water-Data Report NY-03-2

Prepared in cooperation with local agencies

U.S. Department of the Interior
U.S. Geological Survey

U.S. Department of the Interior
Gale A. Norton, Secretary

U.S. Geological Survey
Charles G. Groat, Director

2004

U.S. Geological Survey
2045 Route 112, Bldg. 4
Coram, NY 11727-3085
(631)736-0783

Information about the USGS, New York District is available on the Internet at http://ny.usgs.gov

Information about all USGS reports and products is available by calling 1-888-ASK-USGS or on the Internet via the World Wide Web at http://www.usgs.gov/

Additional earth science information is available by accessing the USGS home page at http://www.usgs.gov/

NEW YORK DISTRICT

OFFICE LOCATIONS AND ADDRESSES



District Office:
U.S. Geological Survey
Water Resources Division
425 Jordan Road
Troy, NY 12180-8349
(518)285-5600
FAX (518)285-5601

Ithaca Subdistrict Office:
U.S. Geological Survey
Water Resources Division
30 Brown Road
Ithaca, NY 14850-1572
(607)266-0217
FAX (607)266-0521

Coram Subdistrict Office:
U.S. Geological Survey
Water Resources Division
2045 Route 112, Bldg. 4
Coram, NY 11727-3085
(631)736-0783
FAX (631)736-4283

Potsdam Field Office:
U.S. Geological Survey
Water Resources Division
22 Depot Street, Box U
Potsdam, NY 13676
(315)265-4410
FAX (315)265-2166

PREFACE

This volume of the annual hydrologic data report of New York is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for New York are contained in 3 volumes:

Volume 1. Eastern New York excluding Long Island
Volume 2. Long Island
Volume 3. Western New York.

The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines. The following individuals contributed significantly to the collection, processing, and tabulation of the data:

M.L. Abbene
R.A.Cartwright
A.D. Lange
J. Pitkewicz
C.E. Schubert
J. Thompson
J. Woitovich
J.L. Candela
S. Fisher
J. Monti
S.L. Rivera
R. Spitzer
S.A. Terracciano

This report was prepared in cooperation with local agencies under the general supervision of R.W. Rodriguez, District Chief, New York.

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY *(Leave blank)*	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	June 2004	Annual--October 1, 2002 to September 30, 2003

4. TITLE AND SUBTITLE
Water Resources Data - New York, Water Year 2003
Volume 2, Long Island

5. FUNDING NUMBERS

6. AUTHOR(S)
A.G. Spinello, R. Busciolano, G.P. Peña-Cruz, and R.B. Winowitch

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
U.S. Geological Survey
Water Resources Division
2045 Route 112, Bldg. 4
Coram, New York 11727

8. PERFORMING ORGANIZATION REPORT NUMBER
USGS-WDR-NY-03-2

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)
U.S. Geological Survey
Water Resources Division
425 Jordan Road
Troy, New York 12180

10. SPONSORING / MONITORING AGENCY REPORT NUMBER
USGS-WDR-NY-03-2

11. SUPPLEMENTARY NOTES
Prepared in cooperation with local agencies.

12a. DISTRIBUTION / AVAILABILITY STATEMENT
This report may be purchased from
National Technical Information Service
Springfield, VA 22161

12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

Water resources data for the 2003 water year for New York consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; stage and water quality of estuaries; and water levels and water quality of ground-water wells. This volume contains records for water discharge at 15 gaging stations; lake stage at 7 gaging stations; tide stage at 6 gaging stations; and water levels at 478 observation wells. Also include are data for 10 low-flow partial record stations. Additional water data were collected at various sites not involved in the systematic data collection program, and are published as miscellaneous measurements and analyses. These data, together with the data in Volume 1 and 3 represent that part of the National Water Data system operated by the U.S. Geological Survey in cooperation with State, Federal, and other agencies in New York

14. SUBJECT TERMS
*New York, *Hydrologic data, *Groundwater, *Surface waters, *Water quality, Gaging stations, Streamflow, Flow rates, Lakes, Reservoirs, Chemical analysis, Sediments, Water temperature, Water analysis, Water levels, Water wells, Data collections, Sites

15. NUMBER OF PAGES
304

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
UNCLASSIFIED			UNCLASSIFIED

CONTENTS

Page
New York district office locations and addresses iii
Preface iv
Report documentation page v
List of surface-water stations, in downstream order, for which records are published in this volume viii
List of discontinued surface-water discharge stations ix
Introduction 1
Cooperation 1
Summary of hydrologic conditions 2
Downstream order and station number 7
Numbering system for wells and miscellaneous sites 7
Special networks and programs 8
Explanation of stage- and water-discharge records 9
Data collection and computation 9
Data presentation 10
Station manuscript 10
Peak discharge greater than base discharge 12
Data table of daily mean values 12
Statistics of monthly mean data 12
Summary statistics 13
Identifying estimated daily discharge 14
Accuracy of field data and computed results 15
Other data records available 15
Explanation of water-quality records 15
Collection and examination of data 15
Water analysis 16
Surface-water-quality records 16
Classification of records 16
Accuracy of the records 17
Arrangement of records 17
On-site measurements and sample collection 17
Water temperature 17
Sediment 18
Laboratory measurements 18
Data presentation 18
Remark codes 20
Water-quality control data 20
Blank samples 20
Reference samples 21
Replicate samples 21
Spike samples 22
Explanation of ground-water -level records 22
Site identification numbers 22
Data collection and computation 22
Data presentation 23
Water-level tables 24
Hydrographs 24
Ground-water-quality data 24
Data collection and computation 24
Laboratory measurements 24
Selected recent U.S. Geological Survey reports relevant to Long Island, New York 24
Access to USGS water data 26
Definition of terms 27
Publications on Techniques of Water-Resources Investigations 42
Station records, surface water 56
Discharge at partial-record stations and miscellaneous sites 127

Low-flow partial-record stations 127
Station records, ground water 128
Ground-water levels 128
Quality of ground water 251
Analysis of samples collected at water-quality miscellaneous sites 255
Mosquito insecticides in surface water 264
South Fork evaluation study 266
Brooklyn-Queens aquifer study 271
Inorganic data 271
Organic data 275
Manhasset Neck peninsula aquifer study 286
New York State pesticide monitoring program 287
Wastewater compounds in ground water 288
Index 289

FIGURES

1. Discharge data, Connetquot Brook near Central Islip 3
2. Discharge data, Nissequogue River near Smithtown 4
3. Hydrograph of water-table observation well S4271 at Riverhead 5
4. Hydrograph of water-table observation well N1259 at Plainedge 6
5. System for numbering wells 7
6A. Map showing location of surface-water data collection stations in Kings, Queens, and Nassau Counties 47
6B. Map showing location of surface-water data collection stations in west half of Suffolk County 48
6C. Map showing location of surface-water data collection stations in east half of Suffolk County 48
7A. Map showing location of water-level data collection stations in Kings, Queens, and Nassau Counties 50
7B. Map showing location of water-level data collection stations in west half of Suffolk County 51
7C. Map showing location of water-level data collection stations in east half of Suffolk County 52
8A. Map showing location of quality of ground-water data collection stations in Kings, Queens, and Nassau Counties 53
8B. Map showing location of quality of ground-water data collection stations in west half of Suffolk County 54
8C. Map showing location of quality of ground-water data collection stations in east half of Suffolk County 55

TABLE

inside of back
1. Factors for converting inch-pound units to International System Units (SI) ..... cover

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

NOTE—Data for partial-record stations and miscellaneous sites for surface-water discharge are published in separate sections of the data report.

[Letter after station name designates type of data: (d) discharge, (e) contents and/or elevation, (c) chemical, (b) biological, (m) microbiological, (t) water temperature, (s) sediment]

SURFACE WATER SITES ON LONG ISLAND	Station number	Page
Alley Creek near Oakland Gardens (c, d)	01302050	56
Gabblers Creek at Little Neck (c, d)	01302125	58
Cold Spring Brook at Cold Spring Harbor (d)	01303500	60
Nissequogue River near Smithtown (d)	01304000	62
Peconic River at Riverhead (d)	01304500	64
Big Fresh Pond near North Sea (c,e)	01304594	66
Trout Pond at Noyack (c,e)	01304629	67
Long Pond near Sag Harbor (c,e)	01304655	68
Fort Pond at Montauk (c,e)	01304678	70
Georgica Pond at Midhampton (e)	01304702	71
Georgica Pond near Apaquogue (e)	01304705	73
Mill Pond at Water Mill (c,e)	01304738	75
Carmans River at Yaphank (d)	01305000	76
Swan River at East Patchogue (d)	01305500	78
Connetquot Brook at Central Islip (d)	01306440	80
Connetquot Brook near Central Islip (d)	01306460	82
Connetquot River near Oakdale (d)	01306500	84
Sampawams Creek at Babylon (d)	01308000	86
Carlls River at Babylon (d)	01308500	88
Great South Bay at Lindenhurst (e)	01309225	90
Hudson Bay at Freeport (e)	01310521	95
Reynolds Channel at Point Lookout (e)	01310740	101
Hempstead Lake at Hempstead (e)	0131079450	107
East Rockaway Inlet at Atlantic Beach (e)	01311145	108
Valley Stream at Valley Stream (d)	01311500	113
Conselyeas Pond Tributary at Rosedale (d)	01311810	115
Jamaica Bay at Inwood (e)	01311850	117
Rockaway Inlet near Floyd Bennett Field (e)	01311875	122
* * * * * * * * * * * * * * *		
Discharge at partial-record stations and miscellaneous sites		127
Low-flow partial-record stations		127

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS

The following continuous-record surface-water discharge stations on Long Island have been discontinued. Daily streamflow records were collected and published for the period of record, expressed in water years, shown for each station. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only)]

Station name	Station number	Drainage area (sq mi)	Period of record
Glen Cove Creek at Glen Cove (d)	01302500	About 11	1939-00
Mill Neck Creek at Mill Neck (d)	01303000	About 11.5	1937-00
Patchogue River at Patchogue (d)	01306000	About 13.5	1948-69, 1974-76
Champlin Creek at Islip (d)	01307000	About 6.5	1945-69
Penataquit Creek at Bay Shore (d)	01307500	About 5	1945-76
Santapogue Creek at Lindenhurst (d)	01309000	About 7	1947-69
Massapequa Creek at Massapequa (d)	01309500	About 38	1937-00
Seaford Creek at Massapequa (d)	01309680	About 3.3	1992-95
Bellmore Creek at Bellmore (d)	01310000	About 17	1937-00
East Meadow Brook at Freeport (d)	01310500	About 31	1937-00
Pines Brook at Malverne (d)	01311000	About 10	1937-99

DISCONTINUED LOW-FLOW PARTIAL-RECORD STATIONS

The following low-flow partial-record stations on Long Island, New York, have been discontinued. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. The column headed “Period of record” shows the water years in which measurements were made at the same, or practically the same, site. Where “Drainage area” column is blank, drainage area was not available at time of publication.

[Symbols after drainage area designate: *, operated as a continuous-record gaging station; [b], about]

Station name	Station number	Drainage area (mi^2)	Period of record
Whitney Lake Outlet at Manhasset, N.Y.	01302200	--	1953-98
Roslyn Brook at Roslyn, N.Y.	01302300	--	1953-98
Island Swamp Brook at Lattingtown, N.Y.	01302800	--	1953-98
Mill Creek near Huntington, N.Y.	01303600	--	1953-98
Stony Hollow Run at Centerport, N.Y.	01303700	--	1953-98
Fresh Pond Outlet at Fort Salonga, N.Y.	01303742	--	1977-98
Northeast Branch Nissequogue River near East Hauppauge, N.Y.	01303790	--	1972-87, 1989-98
Northeast Branch Nissequogue River at Smithtown, N.Y.	01303800	--	1948-49, 1951-76, 1979-98
Northeast Branch Nissequogue River near Hauppauge, N.Y.	01303850	--	1972-98
Northeast Branch Nissequogue River near Smithtown, N.Y.	01303900	--	1953-98
Nissequogue River near Hauppauge, N.Y.	01303941	--	1972-98
Nissequogue River at Smithtown, N.Y.	01304010	--	1974-98
Stony Brook at Stony Brook, N.Y.	01304051	--	1977-98

Station name	Station number	Drainage area (mi^2)	Period of record
Unnamed tributary to Conscience Bay at Setauket, N.Y.	01304060	--	1977-98
Unnamed tributary to Setauket Harbor at East Setauket, N.Y.	01304065	--	1977-98
Unnamed tributary to Port Jefferson Harbor at Port Jefferson, N.Y.	01304070	--	1977-98
Wading River at Wading River, N.Y.	01304100	--	1953-62, 1964-83, 1985-86, 1989-98
Fresh Pond Outlet, at Baiting Hollow, N.Y.	01304150	--	1977-98
Peconic River at Manorville, N.Y.	01304400	--	1948-49, 1951-99
Peconic River at Nugent Drive, at Riverhead, N.Y.	01304510	--	1976-99
Little River near Riverhead, N.Y.	01304530	--	1952-98
White Brook at Riverhead, N.Y.	01304560	--	1953-69, 1973-98
Weesuck Creek at East Quogue, N.Y.	01304745	--	1974-98
Quantuck Creek at Quogue, N.Y.	01304760	--	1953-69, 1974-98
Aspatuck Creek near Westhampton Beach, N.Y.	01304780	--	1959-88, 1990-98
Beaverdam Creek at Westhampton Beach, N.Y.	01304800	--	1953-88, 1990-98
Speonk River at Speonk, N.Y.	01304820	--	1974-98
Seatuck Creek at Eastport, N.Y.	01304860	--	1953-98
Little Seatuck Creek at Eastport, N.Y.	01304900	--	1955-69, 1974-98
Forge River at Moriches, N.Y.	01304960	--	1948-50, 1952-99
Carmans River at Middle Island, N.Y.	01304990	--	1957-99
Carmans River near Yaphank, N.Y.	01304995	--	1973-99
Carmans River, below Lower Lake, at Yaphank, N.Y.	01304998	--	1973-99
Carmans River at South Haven, N.Y.	01305040	--	1973-99
Mud Creek at East Patchogue, N.Y.	01305300	--	1957-69, 1977-98
Patchogue River near Patchogue, N.Y.	01305800	--	1945-50, 1952-98
Patchogue River at Patchogue, N.Y.	01306000	13.5[b]	1956-69*, 1970-73, 1974-76*, 1977-98
Green Creek at West Sayville, N.Y.	01306400	--	1953-98
Lake Ronkonkoma Inlet at Lake Ronkonkoma, N.Y.	01306405	--	1948-49, 1953-54, 1977-79, 1981-86, 1988-89, 1991-98
Connetquot Brook near Oakdale, N.Y.	01306470	--	1968, 1973-98
Rattlesnake Brook near Oakdale, N.Y.	01306700	--	1954-69, 1971-98
Champlin Creek at Islip, N.Y.	01307000	6.5[b]	1958-69*, 1970-86, 1991-98
Pardees Ponds Outlet at Islip, N.Y.	01307300	--	1958-72, 1974-97
Awixa Creek at Islip, N.Y.	01307400	--	1958-98
Penataquit Creek at Bay Shore, N.Y.	01307500	5[b]	1955-76*, 1977-98
Cascade Lakes Outlet at Brightwaters, N.Y,	01307600	--	1958-98
Sampawams Creek near Deer Park, N.Y.	01307920	--	1965-66, 1973-98
Sampawams Creek near North Babylon, N.Y.	01307950	--	1967, 1971-98
Sampawams Creek below Hawleys Lake, at Babylon, N.Y.	01308200	--	1953-67, 1969-98
Carlls River at Park Avenue, Babylon, N.Y.	01308600	--	1968-85, 1987-98
Santapogue Creek at Lindenhurst, N.Y.	01309000	7[b]	1957-69*, 1970-98
Santapogue Creek at State Highway 27A, Lindenhurst, N.Y.	01309100	--	1953-69, 1971-98
Neguntatogue Creek at Lindenhurst, N.Y.	01309200	--	1948-50, 1952-98
Strongs Creek at Lindenhurst, N.Y.	01309250	--	1953-69, 1971-98
Amityville Creek at Amityville, N.Y.	01309350	--	1953-98
Carman Creek at Amityville, N.Y.	01309400	--	1949, 1953-69, 1971-88, 1990-98

Station name	Station number	Drainage area (mi^2)	Period of record
Massapequa Creek at South Farmingdale, N.Y.	01309454	--	1962-65, 1973-78, 1980-98
Massapequa Creek at Southern State Parkway, at South Farmingdale, N.Y.	01309476	--	1962-65, 1973-98
Massapequa Creek at North Massapequa, N.Y.	01309490	--	1962, 1964, 1973-98
Seaford Creek at Seaford, N.Y.	01309700	--	1953-98
Seamans Creek at Seaford, N.Y.	01309800	--	1953-67, 1971-81, 1983-98
Bellmore Creek tributary near North Wantagh, N.Y.	01309970	--	1973-98
Bellmore Creek tributary at North Wantagh, N.Y.	01309980	--	1973-98
Newbridge Creek at Merrick, N.Y.	01310100	--	1963-98
Cedar Swamp Creek at Merrick, N.Y.	01310200	--	1953-62, 1965-98
East Meadow Brook near Westbury, N.Y.	01310470	--	1973-98
East Meadow Brook at Uniondale, N.Y.	01310475	--	1973-98
East Meadow Brook at East Meadow, N.Y.	01310488	--	1973-98
East Meadow Pond Outlet at Freeport, N.Y.	01310510	--	1975-80, 1986, 1990-98
Freeport Creek at Freeport, N.Y.	01310515	--	1975-80, 1986, 1990-98
Milburn Creek at Baldwin, N.Y.	01310600	--	1953-98
Parsonage Creek at Baldwin, N.Y.	01310700	--	1953-69, 1971-81, 1983-84, 1986-88, 1991-98
South Pond Outlet at Rockville Centre, N.Y.	01310800	--	1953-93, 1995-98
Motts Creek at Valley Stream, N.Y.	01311200	--	1954-98
Valley Stream, below West Branch, at Valley Stream, N.Y.	01311700	--	1953-98

INTRODUCTION

Water-resources data for the 2003 water year for New York consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; stage and water quality of estuaries; and water levels and water quality of ground-water wells. This volume contains records for water discharge at 15 gaging stations; lake stage at 7 gaging stations; tide stage at 6 gaging stations; and water levels at 478 observation wells. Also included are data for 10 low-flow partial record stations. Locations of these sites are shown on pages 47-55. Additional water data were collected at various sites not involved in the systematic data collection program, and are published as miscellaneous measurements and analyses. Surface-water, ground-water, and water-quality data at all New York District sites are listed in Eastern Standard Time (EST); adjacent District's data are listed in local standard time. These data together with the data in Volumes 1 and 3 represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State, local, and Federal agencies in New York.

Records of discharge and stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65, and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from the U.S. Geological Survey, Branch of Information Services, Box 25286, Denver, Colorado 80225-0286.

Since the 1961 water year, streamflow data and since the 1964 water year, water-quality data have been released by the Geological Survey in annual reports on a State-boundary basis. These reports provided rapid release of water data in each state shortly after the end of the water year. Through 1970 the data were also released in the water-supply paper series mentioned above.

Streamflow and water-quality data beginning with the 1971 water year, and ground-water data beginning with the 1975 water year are published only in reports on a State-boundary basis. Beginning with the 1975 water year, these Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report NY-03-2." Water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. Beginning with the 1990 water year through the 1994 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM).

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (518) 285-5600. A limited number of CD-ROM discs for water years 1990-94 will be available for sale by the U.S. Geological Survey, Branch of Information Services, Box 25286, Denver, Colorado 80225-0286.

COOPERATION

The U.S. Geological Survey and organizations of the State of New York and other agencies have had cooperative programs for the systematic collection of water records since 1900. Organizations that assisted in collecting the data included in Volume 2 through cooperative agreements with the U.S. Geological Survey are:

County of Suffolk, Department of Health Services, Clare B. Bradley, M.D., MPH, Acting Commissioner
New York City Department of Environmental Protection, Christopher O. Ward, Commissioner
New York State Department of Environmental Conservation, Erin M. Crotty, Commissioner
New York State Office of Parks, Recreation, and Historic Preservation, Bernadette Castro, Commissioner
Port Washington Water District, Italo J. Vacchio, Superintendent
Suffolk County Water Authority, Stephen Jones, Chief Executive Officer
Town of East Hampton, Department of Natural Resources & Environmental Protection, Laurence Penny, Director
Town of North Hempstead, Jon Kaiman, Supervisor
Town of Hempstead, Department of Conservation & Waterways, Ronald W. Masters, Commissioner.
Town of Shelter Island, Arthur R. Williams, Supervisor
Town of Southampton, Department of Land Management, Jefferson V. Murphree, Town Planning and Development Administrator
Village of Freeport, Richard E. Holdener, Director of Emergency Management

The following organizations aided in collecting records:

Nassau County Department of Health, Nassau County Department of Public Works, Suffolk County Department of Health Services, and Suffolk County Water Authority.

SUMMARY OF HYDROLOGIC CONDITIONS

Streamflow and ground-water levels on Long Island were near or slightly below normal at the beginning of the 2003 water year (October), then gradually increased to above normal in June and then declined to normal at the end of the year (September)(figs. 1-4).

Most maximum peak discharges for the 2003 water year occurred on June 13 or 21, although some occurred in southwest Nassau and eastern Queens Counties on April 26. Average runoff for the water year was about normal. The maximum monthly mean discharge for the 2003 water year at most stations occurred in June, and most minimum monthly mean discharges occurred in October or September. Precipitation for the 2003 water year at Brookhaven National Laboratory was 68.67 in., 27.20 in. above normal.

Water levels in most wells screened in the upper glacial, Magothy, and Lloyd aquifers on Long Island were near to slightly below normal at the beginning of the water year and began to rise until June or July and remained high or declined slightly for the remainder of the water year. Record-low water levels were measured in 20 wells throughout all four counties on Long Island; record-high water levels were measured in 50 wells throughout the four counties on Long Island.

The maximum water level for the 2003 water year at the lake-stage gage on Long Pond near Sag Harbor was recorded on August 8, and the maximum water level at the station on Georgica Pond at Midhampton was recorded on June 21. Minimum water levels at the station on Long Pond were recorded on October 10,11, and the minimum water level at Georgica Pond was recorded on November 23. The maximum monthly mean water level at Long Pond occurred in August, and the maximum monthly mean water level at Georgica Pond occurred in June. The minimum monthly mean water level at Long Pond occurred in October, and the minimum monthly mean water level at Georgica Pond occurred in April.

The maximum water levels for the 2003 water year at tide-stage gages in southern Kings and southwestern Nassau and Suffolk Counties were recorded on December 25, whereas those at tide-stage gages in the central part of southern Nassau County were recorded on January 3. Almost all minimum water levels at tide-stage gages in these areas were recorded on January 22, although at the tide-stage gage on Great South Bay at Lindenhurst they were recorded on November 24 and January 23. Maximum monthly mean water levels for the 2003 water year at all stations occurred in September, and minimum monthly mean water levels occurred in February.

Five synoptic samplings of ground-water quality were conducted during the 2003 water year. The first was done under the New York State pesticide-monitoring program. One well was sampled twice for 123 pesticides and analyzed by a method with detection limits ranging from 0.001 to 0.2 micrograms per liter. This well is part of a statewide long-term monitoring network of wells with known contamination. The second sampling entailed an analysis of water from six ponds in the Towns of East Hampton and Southampton for 167 compounds, including nutrients, volatile organic compounds (VOCs), pesticides, and wastewater compounds. Each pond was sampled twice. Few VOCs, pesticides, and wastewater compounds were detected. High pH and high concentrations of total phosphorus, and low concentrations of dissolved oxygen, were present in some ponds. The third sampling was done as part of the Brooklyn-Queens aquifer study and included 50 wells representing four aquifers and three streams in Kings and Queen Counties. The samples were analyzed for 275 organic and inorganic constituents to assess the ground water as a potable supply. The most frequently detected contaminant was MTBE (76 percent of samples). The fourth sampling was done as part of the Manhasset Neck Peninsula aquifer study; five wells were sampled to monitor saltwater intrusion on the peninsula. The fifth sampling was done as part of a reconnaissance of wastewater compounds in ground water in Suffolk County; twenty wells were sampled for 68 compounds. Nine compounds were detected below the reporting limit of 0.5 micrograms per liter.

Twenty-seven grab surface water samples were collected from bays, lakes, and streams in Suffolk County and analyzed for adultacides and larvacides that were sprayed to control mosquitoes. All samples were collected within an hour of the pesticide application and were filtered before analysis for methoprene, malathion, sumithrin, resmithrin, and piperonyl butoxide. Grab sample analyses have reporting limits in the parts-per-trillion range. The most frequently detected compound was piperonyl butoxide (44% of samples); its maximum concentration was 7.7 micrograms per liter.

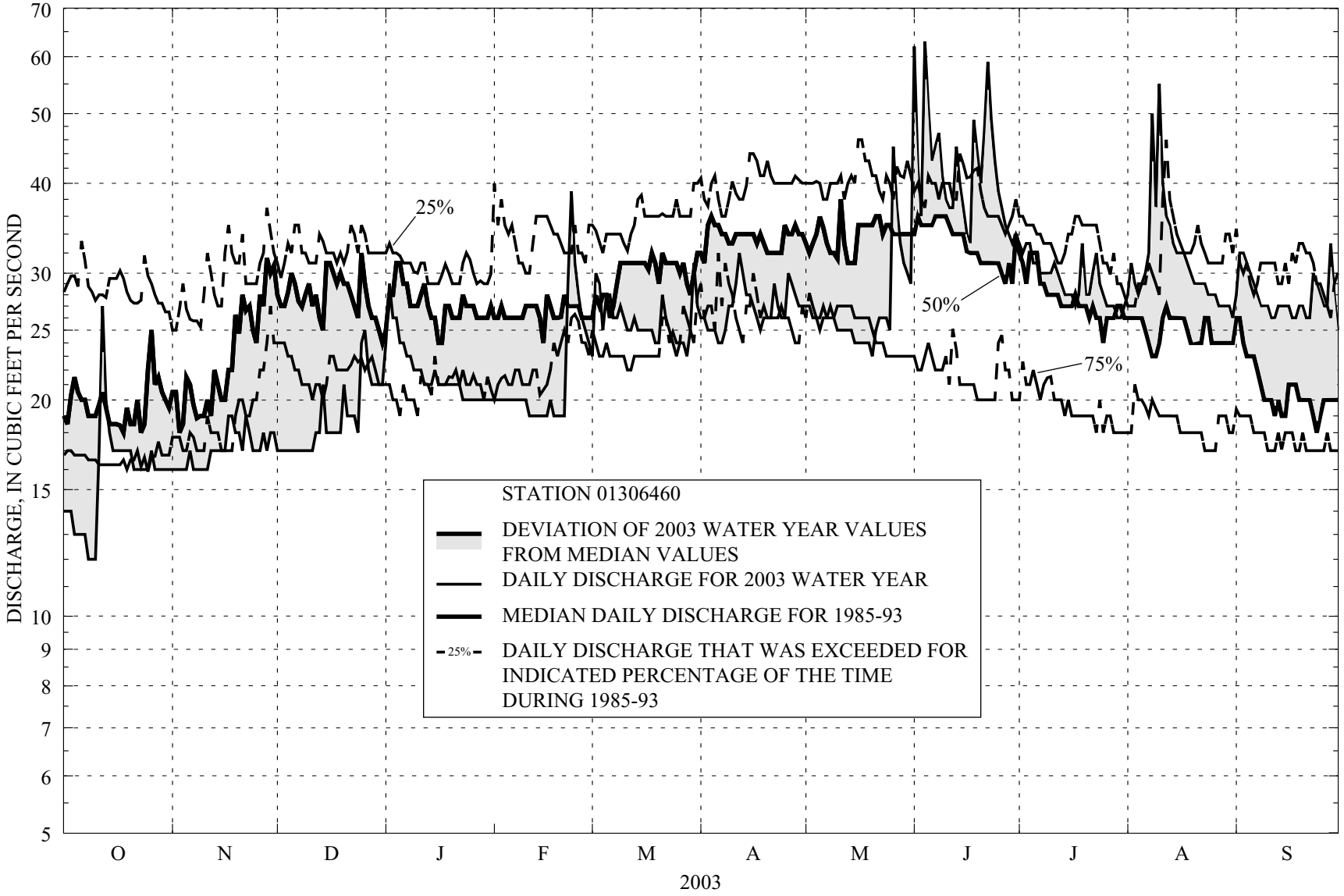


Figure 1.--Discharge data, Connetquot Brook near Central Islip, Water year 2003.

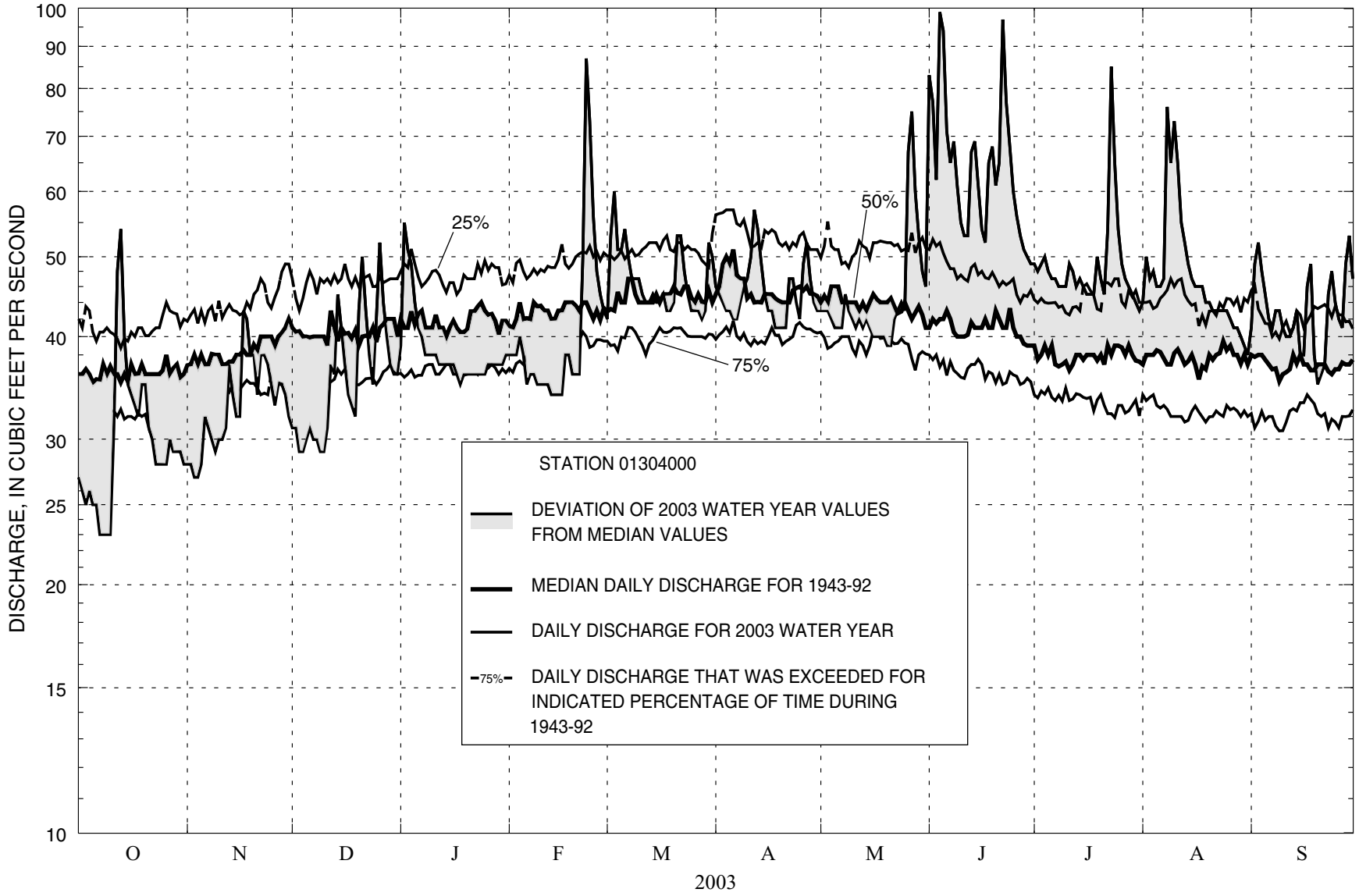


Figure 2.--Discharge data, Nissequogue River near Smithtown, Water year 2003.



Figure 3.--Hydrograph of water-table observation well S4271 at Riverhead, N.Y., 1950-2003

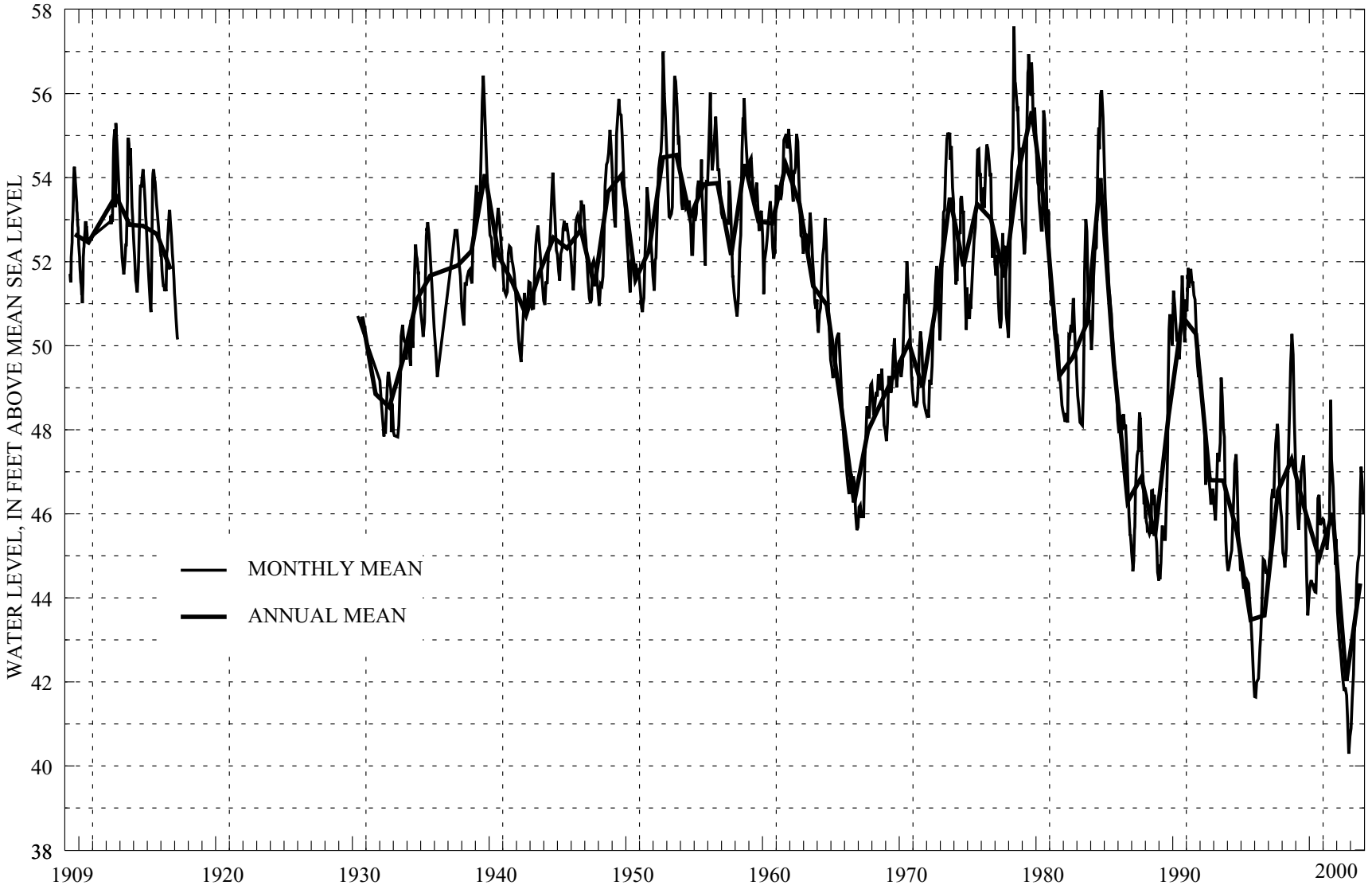


Figure 4.--Hydrograph of water-table observation well N1259 at Plainedge, N.Y., 1909-2003.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, hydrologic-station records in USGS reports have been listed in order of downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary entering between two main-stream stations is listed between those stations. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is located with respect to the stream to which it is immediately tributary is indicated by an indention in that list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation indicates which stations are on tributaries between any two stations and the rank of the tributary on which each station is located.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These station numbers are in the same downstream order used in this report. In assigning a station number, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list composed of both types of stations. Gaps are consecutive. The complete 8-digit (or 10-digit) number for each station such as 09004100, which appears just to the left of the station name, includes a 2-digit part number "09" plus the 6-digit (or 8-digit) downstream order number "004100." In areas of high station density, an additional two digits may be added to the station identification number to yield a 10-digit number. The stations are numbered in downstream order as described above between stations of consecutive 8-digit numbers.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The USGS well and miscellaneous site-numbering system is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude; the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, a sequential number such as "01," "02," and so forth, would be assigned as one would for wells (see fig. 5). The 8-digit, downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

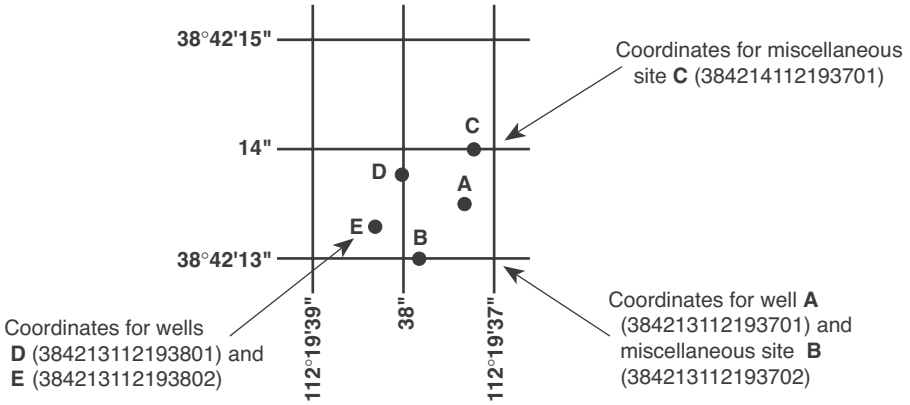


Figure 5. System for numbering wells and miscellaneous sites (latitude and longitude).

A local well-numbering system is also used. It is a 2-part identifier, assigned by the New York State Department of Environmental Conservation, consisting of the abbreviation of county name and the serial number of the well within the county.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 61 sites in small drainage basins in 39 States that was established in 1963 to provide consistent streamflow data representative of undeveloped watersheds nationwide, and from which data could be analyzed on a continuing basis for use in comparison and contrast with conditions observed in basins more obviously affected by human activities. At selected sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program may be accessed from *http://water.usgs.gov/hbn/*.

National Stream-Quality Accounting Network (NASQAN) is a network of sites used to monitor the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande River basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia Rivers so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment (NAWQA) Program; (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program may be accessed from *http://water.usgs.gov/nasqan/*.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) is a network of monitoring sites that provide continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as data from the individual sites, may be accessed from *http://bqs.usgs.gov/acidrain/*.

The USGS National Water-Quality Assessment (NAWQA) Program is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; to provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and to provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 42 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the

Nation's water use. A wide array of chemical constituents is measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for water-resources managers to use in making decisions and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key Federal, State, and local water-resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program may be accessed from *http://water.usgs.gov/nawqa/*.

The USGS National Streamflow Information Program (NSIP) is a long-term program with goals to provide framework streamflow data across the Nation. Included in the program are creation of a permanent Federally funded streamflow network, research on the nature of streamflow, regional assessments of streamflow data and databases, and upgrades in the streamflow information delivery systems. Additional information about NSIP may be accessed from *http://water.usgs.gov/nsip/*.

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Data Collection and Computation

The base data collected at gaging stations (figs. 6A,B,C) consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and volume of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that is either downloaded electronically in the field to a laptop computer or similar device or is transmitted using telemetry such as GOES satellite, land-line or cellular-phone modems, or by radio transmission. Measurements of discharge are made with a current meter or acoustic Doppler current profiler, using the general methods adopted by the USGS. These methods are described in standard textbooks, USGS Water-Supply Paper 2175, and the Techniques of Water-Resources Investigations of the United States Geological Survey (TWRIs), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors based on individual discharge measurements and notes by engineers and observers are used when applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the controlling section, the daily mean discharge is computed by the shifting-control method.

The stage-discharge relation at some stream-gaging stations is affected by backwater from reservoirs, tributary streams, or other sources. Such an occurrence necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage at some distance from the base gage.

An index velocity is measured using ultrasonic or acoustic instruments at some stream-gaging stations and this index velocity is used to calculate an average velocity for the flow in the stream. This average velocity along with a stage-area relation is then used to calculate average discharge.

At some stations, stage-discharge relation is affected by changing stage. At these stations, the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations in the northern United States, the stage-discharge relation is affected by ice in the winter; therefore, computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter-discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge from other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the volume or contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly changes are computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

The records published for each continuous-record surface-water discharge station (stream-gaging station) consist of five parts: (1) the station manuscript or description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; (4) a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration; and (5) a hydrograph of discharge.

Station Manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of

discharge or lake content. Comments follow that clarify information presented under the various headings of the station description.

LOCATION.—Location information is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.—Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.—This term indicates the time period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that its flow reasonably can be considered equivalent to flow at the present station.

REVISED RECORDS.—If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

GAGE.—The type of gage in current use, the datum of the current gage referred to a standard datum, and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.—All periods of estimated daily discharge either will be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See section titled Identifying Estimated Daily Discharge.) Information is presented relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, the outlet works and spillway, and the purpose and use of the reservoir.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES FOR PERIOD OF RECORD.—Extremes may include maximum and minimum stages and maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE PERIOD OF RECORD.—Information here documents major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the USGS.

EXTREMES FOR CURRENT YEAR.—Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this

heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour Eastern Standard Time at New York District sites and local standard time at adjacent District sites. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

REVISIONS.—Records are revised if errors in published records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (*http://water.usgs.gov/nwis/nwis*). Users are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent data updates. Updates to NWISWeb are made on an annual basis.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because no current or, possibly, future station manuscript would be published for these stations to document the revision in a REVISED RECORDS entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District Office (address given on the back of the title page of this report) to determine if the published records were revised after the station was discontinued. If, however, the data for a discontinued station were obtained by computer retrieval, the data would be current. Any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the REMARKS and in the inclusion of a stage-capacity table when daily volumes are given.

Peak Discharge Greater than Base Discharge

Tables of peak discharge above base discharge are included for some stations where secondary instantaneous peak discharge data are used in flood-frequency studies of highway and bridge design, flood-control structures, and other flood-related projects. The base discharge value is selected so an average of three peaks a year will be reported. This base discharge value has a recurrence interval of approximately 1.1 years or a 91-percent chance of exceedence in any 1 year.

Data Table of Daily Mean Values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed TOTAL gives the sum of the daily figures for each month; the line headed MEAN gives the arithmetic average flow in cubic feet per second for the month; and the lines headed MAX and MIN give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month is expressed in cubic feet per second per square mile (line headed CFSM); or in inches (line headed IN); or in acre-feet (line headed AC-FT). Values for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if extensive regulation or diversion is in effect or if the drainage area includes large noncontributing areas. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir volumes are given. These values are identified by a symbol and a corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed MEAN), maximum (MAX), and minimum (MIN) of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those values. The designated period will be expressed as FOR WATER YEARS __-__, BY WATER YEAR (WY), and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the

station manuscript. The designated period will consist of all of the station record within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript.

Summary Statistics

A table titled SUMMARY STATISTICS follows the statistics of monthly mean data tabulation. This table consists of four columns with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, WATER YEARS __-__, will consist of all of the station records within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the ANNUAL 7-DAY MINIMUM statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When the dates of occurrence do not fall within the selected water years listed in the heading, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration-curve statistics and runoff data also are given. Runoff data may be omitted if extensive regulation or diversion of flow is in effect in the drainage basin.

The following summary statistics data are provided with each continuous record of discharge. Comments that follow clarify information presented under the various line headings of the SUMMARY STATISTICS table.

ANNUAL TOTAL.—The sum of the daily mean values of discharge for the year.

ANNUAL MEAN.—The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period.

HIGHEST ANNUAL MEAN.—The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.—The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.—The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.—The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.—The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. This value should not be confused with the 7-day 10-year low-flow statistic.

MAXIMUM PEAK FLOW.—The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of

the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.—The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.—The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.—Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicate the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.—The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.—The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.—The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first table lists annual maximum stage and discharge at crest-stage stations, and the second table lists discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are often made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for a special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified. This identification is shown either by flagging individual daily values with the letter “e” and noting in a table footnote, “e–Estimated,” or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The degree of accuracy of the records is stated in the "REMARKS" in the station description. "Excellent" indicates that about 95 percent of the daily discharges are within 5 percent of the true value; "good" within 10 percent; and "fair," within 15 percent. "Poor" indicates that daily discharges have less than "fair" accuracy. Different accuracies may be attributed to different parts of a given record.

The accuracy of lake- and tide-stage data depends primarily on the accuracy of the observations of stage and interpretations of records. Records of stage of estuaries also may be affected by seasonal changes in water density. The Coram Subdistrict has adopted the following standards for rating the accuracy of stage records. Stage records stated as "excellent: are, in general, believed to be accurate to within 0.02 ft; "good," to within 0.05 ft; and "fair," to within 0.1 ft. "Poor" means that daily values have less than fiar accuracy.

Values of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to the nearest tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharge values listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, values of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Records Available

Information of a more detailed nature than that published for most of the stream-gaging stations such as discharge measurements, gage-height records, and rating tables is available from the District office. Also, most stream-gaging station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the District office (see address that is shown on the back of the title page of this report).

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analysis usually are collected at or near stream-gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, and so forth); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, sampling date, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most of the methods used for collecting and analyzing water samples are described in the TWRIs. A list of TWRIs is provided in this report.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross-section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values (and sometimes mean or median values) for each constituent measured, and are based on 15-minute or 1-hour intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

SURFACE-WATER-QUALITY RECORDS

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because discharge data is useful in the interpretation of surface-water quality. Records of surface-water quality in this report involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A *continuous-record station* is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A *partial-record station* is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A *miscellaneous sampling site* is a location other than a continuous- or partial-record station, where samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between *continuous records* as used in this report and *continuous recordings* that refer to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings;

however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 6A,B,C.

Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

Rating classifications for continuous water-quality records

[≤, less than or equal to; ±, plus or minus value shown; °C, degree Celsius; >, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit]

Measured physical property	Rating			
	Excellent	Good	Fair	Poor
Water temperature	≤ ±0.2 °C	> ±0.2 to 0.5 °C	> ±0.5 to 0.8 °C	> ±0.8 °C
Specific conductance	≤ ±3%	> ±3 to 10%	> ±10 to 15%	> ±15%
Dissolved oxygen	≤ ±0.3 mg/L	> ±0.3 to 0.5 mg/L	> ±0.5 to 0.8 mg/L	> ±0.8 mg/L
pH	≤ ±0.2 unit	> ±0.2 to 0.5 unit	> ±0.5 to 0.8 unit	> ±0.8 unit
Turbidity	≤ ±5%	> ±5 to 10%	> ±10 to 15%	> ±15%

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1-A9. These TWRIs are listed in this report. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS District office (see address that is shown on the back of title page in this report).

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures

are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the District office.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may be collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements

Samples for biochemical oxygen demand (BOD) and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter C1. Methods used by the USGS laboratories are given in the TWRIs, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of “daily values” of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

DRAINAGE AREA.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—This indicates the time periods for which published water-quality records for the station are available. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.—Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES.—Maximums and minimums are given only for parameters measured daily or more frequently. For parameters measured weekly or less frequently, true maximums or minimums may not have been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.—Records are revised if errors in published water-quality records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (*http://waterdata.usgs.gov/nwis*). Users of USGS water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent updates. Updates to the NWISWeb are made on an annual basis.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this section:

Printed Output	Remark
E or e	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
V	Analyte was detected in both the environmental sample and the associated blanks.
&	Biological organism estimated as dominant.

Water-Quality Control Data

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDLs) and laboratory reporting levels (LRLs). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. Falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a non-detection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as less than LRL for samples in which the analyte was either not detected or did not pass identification. Analytes detected at concentrations between the LT-MDL and the LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of “E.” These data should be used with the understanding that their uncertainty is greater than that of data reported without the E remark code.

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this District office are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples. These data are not presented in this report but are available from the District office.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated in the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to

contamination. Many types of blank samples are possible; each is designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

Field blank—A blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank—A blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank—A blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank—A blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank—A blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank—A blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank—A blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference Samples

Reference material is a solution or material prepared by a laboratory. The reference material composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. Many types of replicate samples are possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

Concurrent samples—A type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating the collection of samples into two or more compositing containers.

Sequential samples—A type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample—A type of replicate sample in which a sample is split into subsamples, each subsample contemporaneous in time and space.

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Generally, only ground-water-level data from selected wells with continuous recorders from a basic network of observation wells are published in this report. This basic network contains observation wells located so that the most significant data are obtained from the fewest wells in the most important aquifers.

Site Identification Numbers

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is produced for local needs. (See NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES in this report for a detailed explanation).

Data Collection and Computation

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Most methods for collecting and analyzing water samples are described in the TWRIs referred to in the On-site Measurements and Sample Collection and the Laboratory Measurements sections in this report. In addition, TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1 through A9. The values in this report represent water-quality conditions at the time of sampling, as much as possible, and that are consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. Trained personnel collected all samples. The wells sampled were pumped long enough to ensure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum above sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth of water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water

level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Data Presentation

Water-level data are presented in alphabetical order by county. The primary identification number for a given well is the 15-digit site identification number that appears in the upper left corner of the table. The secondary identification number is the local or county well number. Well locations are shown in figures 7A,B,C*;* each well is identified on the map by its local well or county well number.

Each well record consists of three parts: the well description, the data table of water levels observed during the water year, and, for most wells, a hydrograph following the data table. Well descriptions are presented in the headings preceding the tabular data.

The following comments clarify information presented in these various headings.

LOCATION.—This paragraph follows the well-identification number and reports the hydrologic-unit number and a geographic point of reference. Latitudes and longitudes used in this report are reported as North American Datum of 1927 unless otherwise specified.

AQUIFER.—This entry designates by name and geologic age the aquifer that the well taps.

WELL CHARACTERISTICS.—This entry describes the well in terms of depth, casing diameter and depth or screened interval, method of construction, use, and changes since construction.

INSTRUMENTATION.—This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on continuous, monthly, or some other frequency of measurement.

DATUM.—This entry describes both the measuring point and the land-surface elevation at the well. The altitude of the land-surface datum is described in feet above the altitude datum; it is reported with a precision depending on the method of determination. The measuring point is described physically (such as top of casing, top of instrument shelf, and so forth), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above National Geodetic Vertical Datum of 1929 (NGVD 29); it is reported with a precision depending on the method of determination.

REMARKS.—This entry describes factors that may influence the water level in a well or the measurement of the water level, when various methods of measurement were begun, and the network (climatic, terrane, local, or areal effects) or the special project to which the well belongs.

PERIOD OF RECORD.—This entry indicates the time period for which records are published for the well, the month and year at the start of publication of water-level records by the USGS, and the words “to current year” if the records are to be continued into the following year. Time periods for which water-level records are available, but are not published by the USGS, may be noted.

EXTREMES FOR PERIOD OF RECORD.—This entry contains the highest and lowest instantaneously recorded or measured water levels of the period of published record, with respect to land-surface datum or sea level, and the dates of occurrence.

Water-Level Tables

A table of water levels follows the well description for each well. Water-level measurements in this report are given in feet with reference to either sea level or land-surface datum (lsd). Missing records are indicated by dashes in place of the water-level value.

For wells not equipped with recorders, water-level measurements were obtained periodically by steel or electric tape. Tables of periodic water-level measurements in these wells show the date of measurement and the measured water-level value.

Hydrographs

Hydrographs are a graphic display of water-level fluctuations over a period of time. In this report, current water year and, when appropriate, period-of-record hydrographs are shown. Hydrographs that display periodic water-level measurements show points that may be connected with a dashed line from one measurement to the next. Hydrographs that display recorder data show a solid line representing the mean water level recorded for each day. Missing data are indicated by a blank space or break in a hydrograph. Missing data may occur as a result of recorder malfunctions, battery failures, or mechanical problems related to the response of the recorder's float mechanism to water-level fluctuations in a well.

GROUND-WATER-QUALITY DATA

Data Collection and Computation

The ground-water-quality data in this report were obtained as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some wells within a county but not for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. Locations of quality of ground-water data collection stations are shown in figures 8A,B,C.

Most methods for collecting and analyzing water samples are described in the TWRIs. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRI, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. Also, detailed information on collecting, treating, and shipping samples may be obtained from the USGS District office (see address shown on back of title page in this report).

Laboratory Measurements

Analysis for sulfide and measurement of alkalinity, pH, water temperature, specific conductance, and dissolved oxygen are performed on site. All other sample analyses are performed at the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used by the USGS laboratory are given in TWRI, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4.

SELECTED RECENT U.S. GEOLOGICAL SURVEY PUBLICATIONS RELEVANT TO LONG ISLAND, NEW YORK

Barlow, P.M., 2003, Ground water in freshwater-saltwater environments of the Atlantic coast: U.S. Geological Survey Circular 1262, 113 p.

Burns, D.A., and Kendall, Carol, 2002, Analysis of $\delta^{15}N$ and $\delta^{18}O$ to differentiate nitrate sources in runoff at two watersheds in the Catskill Mountains of New York Water Resources Research, v. 38, no. 5, p. 9-1

through 9-12.

Coon, W.F., 2003, Simulating Land-use changes and stormwater-detention basins and evaluating their effect on peak streamflows and stream-water quality in Irondequoit Creek basin, New York -- A user's manual for HSPF and GenScn: U.S. Geological Survey Open-File Report 03-136, 23 p.

Driscoll, C.T.; Whitall, David; Aber, John; Boyer, Elizabeth; Castro, Mark; Cronan, Christopher; Goodale, C.L.; Groffman, Peter; Hopkinson, Charles; Lambert, Kathleen; Lawrence, Gregory; and Ollinger, Scott, 2003, Nitrogen pollution in the northeastern United States--Sources, effects, and management options: BioScience, v. 53, no. 4, p. 357-374.

Hetcher, K.K., Miller, T.S., Garry, J.D., and Reynolds, R.J., 2003, Geohydrology of the valley-fill aquifer in the Norwich-Oxford-Brisben area, Chenango County, New York: U.S. Geological Survey Open-File Report 03-242, 7 plates, 1:24,000 scale (available on-line only).

Johnson, M.S., Coon, W.F., Mehta, V.K., Steenhuis, T.S., Brooks, E.S., and Boll, J., 2003, Application of two hydrologic models with different runoff mechanisms to a hillslope dominated watershed in the northeastern US -- a comparison of HSPF and SMR: Journal of Hydrology, v. 284, p. 57-76.

Kappel, W.M. and Miller, T.S., 2003, Hydrogeology of the Tully Trough--Southern Onondaga County and Northern Cortland County, New York: U.S. Geological Survey Water-Resources Investigations Report 03-4112, 16 p.

Monti, Jack, Jr. and Scorca, M.P., 2003, Trends in nitrogen concentration and nitrogen loads entering the South Shore Estuary Reserve from streams and ground-water discharge in Nassau and Suffolk Counties, Long Island, New York, 1952-97: U.S. Geological Survey Water-Resources Investigations Report 02-4255, 36 p.

Mulvihill, C.I., Baldigo, B.P., Gallagher, A.S., and Eskeli, Phillip, 2003, Guidelines for characterizing fish habitat in wadeable streams of the Catskill Mountain region, New York: U.S. Geological Survey Open-File Report 02-484, 17 p.

Nystrom, E.A., Oberg, K.A., and Rehmann, C.R., 2002, Measurement of turbulence with acoustic Doppler current profilers -- Sources of error and laboratory results, *in* Wahl, T.L., Pugh, C.A., Oberg, K.A., and Vermeyen, T.B, eds., Hydraulic Measurements & Experimental Methods 2002: Proceedings of the American Society of Civil Engineers Specialty Conference on Hydraulic Measurements and Experimental Methods 2002, July 28-Aug 1, 2002, Estes Park, Colorado, CD-ROM, 10 p. (available from ASCE Publications, marketing@asce.org).

Reynolds, R.J., 2003, Hydrogeology of the Waverly-Sayre area in Tioga and Chemung Counties, New York and Bradford County, Pennsylvania: U.S. Geological Survey Open-File Report 02-284, 6 sheets, scale 1:24,000, (available on-line only).

Riva-Murray, Karen, Brightbill, R.A., and Bilger, M.D., 2003, Trends in concentrations of polychlorinated biphenyls in fish tissue from selected sites in the Delaware River basin in New Jersey, New York, and Pennsylvania, 1969-98: U.S. Geological Survey Water-Resources Investigations Report 01-4066, p. 19.

Thurman, E.M., Dietze, J.E., and Scribner, E.A., 2002 (revised 2003), Occurrence of antibiotocs in water from fish hatcheries: U.S. Geological Survey Fact Sheet 120-02, 4 p.

Sherwood, D.A., 2003, Water resources of Monroe County, New York, water years 1997-99, with emphasis on water quality in the Irondequoit Creek basin: U.S. Geological Survey Water-Resources Investigations Report 02-4221, 55 p.

Stoddard, J.L., Kahl, J.S., Deviney, F.A., DeWalle, D.R., Driscoll, C.T., Herlihy, A.T., Kellogg, J.H., Murdoch, P.S., Webb, J.R., and Webster, K.E., 2003, Response of surface water chemistry to the Clean Air Act Amendments of 1990: U.S. Environmental Protection Agency, Office of Research and Development, EPA 620/R-03/001, 78 p.

Stumm, Frederick and Chowdhury, Shafiul, 2003, Delineation of ground water flow in fractured rock in the southwestern part of Manhattan, New York, through use of advanced borehole geophysical methods: Ground Water Monitoring & Remediation, v. 23, no. 3, p. 42-49.

U.S. Geological Survey, 2002, NWISWeb--New site for the Nation's Water Data: U.S. Geological Survey Fact Sheet 128-02, 2 p.

Vitvar, Tomas, Burns, D.A., Lawrence, G.B., McDonnell, J.J., and Wolock, D.M., 2002, Estimation of baseflow residence times in watersheds from the runoff hydrograph recession--method and application in the Neversink watershed, Catskill Mountains, New York: Hydrological Processes, v. 16, no. 9, p. 1871-1877.

Wargo, P.M., Vogt, Kristiina, Vogt, Daniel, Holifield, Quintaniay, Tilley, Joel, Lawrence, Gregory, and David, Mark, 2003, Vitality and chemistry of roots of red spruce in forest floors of the stands with a gradient of soil Al/Ca ratios in the northeastern United States: Canadian Journal of Forest Research, v. 33, p. 635-652.

Yager, R.M., 2003, Simulation of land subsidence in a glacial aquifer system above a salt mine collapse redux--a post audit, *in* Prince, K.R., and Galloway, D.L., eds., U.S. Geological Survey Subsidence Interest Group Conference, Proceedings of the Technical Meeting, Galveston, Texas, November 27-29, 2001: U.S. Geological Survey Open-File Report 03-308, p. 71-80.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the World Wide Web (WWW). These data may be accessed from *http://water.usgs.gov*.

Water-quality data and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on various media. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each Water Discipline District Office (See address that is shown on the back of the title page of this report.)

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Terms such as algae, water level, and precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units. Other glossaries that also define water-related terms are accessible from *http://water.usgs.gov/glossaries.html*.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

Adenosine triphosphate (ATP) is an organic, phosphate-rich compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Adjusted discharge is discharge data that have been mathematically adjusted (for example, to remove the effects of a daily tide cycle or reservoir storage).

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample. (See also "Biomass" and "Dry weight")

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 through September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day, 10-year low-flow statistic.)

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type, and the last two digits represent the percentage weight of the hydrogen-substituted chlorine.

Artificial substrate is a device that purposely is placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is collected. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection. (See also "Substrate")

Ash mass is the mass or amount of residue present after the residue from a dry-mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2). (See also "Biomass" and "Dry mass")

Aspect is the direction toward which a slope faces with respect to the compass.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, whereas others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Bankfull stage, as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each

station is selected so that an average of about three peak flows per year will be published. (See also "Peak flow")

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed. (See also "Bedload" and "Sediment")

Bedload is material in transport that primarily is supported by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to the top of the bedload sampler nozzle (an elevation ranging from 0.25 to 0.5 foot). These particles are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.

Bedload discharge (tons per day) is the rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also "Bedload," "Dry weight," "Sediment," and "Suspended-sediment discharge")

Benthic organisms are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

Biomass pigment ratio is an indicator of the total proportion of periphyton that are autotrophic (plants). This also is called the Autotrophic Index.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton and periphyton organisms with a blue pigment in addition to a green pigment called chlorophyll. Blue-green algae can cause nuisance water-quality conditions in lakes and slow-flowing rivers; however, they are found commonly in streams throughout the year. The abundance of blue-green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of blue-green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu m^3/cm^2$). (See also "Phytoplankton"and "Periphyton")

Bottom material (See "Bed material")

Bulk electrical conductivity is the combined electrical conductivity of all material within a doughnut-shaped volume surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved-solids content of the pore water, and the lithology and porosity of the rock.

Canadian Geodetic Vertical Datum 1928 is a geodetic datum derived from a general adjustment of Canada's first order level network in 1928.

Cell volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are used frequently in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements or cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

$$\text{sphere } 4/3\ \pi r^3 \quad \text{cone } 1/3\ \pi r^2 h \quad \text{cylinder } \pi r^2 h.$$

pi (π) is the ratio of the circumference to the diameter of a circle; pi = 3.14159….

From cell volume, total algal biomass expressed as biovolume (μm^3/mL) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes for all species.

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and generally are reported as cells or units per milliliter (mL) or liter (L).

Cfs-day (See "Cubic foot per second-day")

Channel bars, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also "Biochemical oxygen demand (BOD)"]

Clostridium perfringens *(C. perfringens)* is a spore-forming bacterium that is common in the feces of human and other warmblooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and the presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of water and of the survival and transport of viruses in the environment.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

Control designates a feature in the channel that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure, as used in this report, is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-foot" sometimes is used synonymously with "cubic foot per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [$(ft^3/s)/d$]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables numerically are equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, $(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

Daily mean suspended-sediment concentration is the time-weighted mean concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also "Sediment" and "Suspended-sediment concentration")

Daily record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to data collection on a daily or near-daily basis.

Data collection platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data usually are downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or Universal Transverse Mercator (UTM) coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

Diatoms *(Bacillariophyta)* are unicellular or colonial algae with a siliceous cell wall. The abundance of diatoms in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of diatoms in periphyton samples is given in cells per square centimeter

(cells/cm^2) or biovolume per square centimeter (µm^3/cm^2). (See also "Phytoplankton" and "Periphyton")

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or **flow**, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, and so forth, within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents, such as suspended sediment, bedload, and dissolved or suspended chemicals, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of "dissolved" constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved solids concentration in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index (H) (Shannon index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i \approx 1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n},$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that contains a drainage system with a common outlet for its surface runoff. (See "Drainage area")

Dry mass refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also "Ash mass," "Biomass," and "Wet mass")

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 ˚C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also "Wet weight")

Embeddedness is the degree to which gravel-sized and larger particles are surrounded or enclosed by finer-sized particles. (See also "Substrate embeddedness class")

Enterococcus bacteria commonly are found in the feces of humans and other warmblooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar (nutrient medium for bacterial growth) and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus feacium, Streptococcus avium,* and their variants. (See also "Bacteria")

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that generally are considered pollution sensitive; the index usually decreases with pollution.

Escherichia coli *(E. coli)* are bacteria present in the intestine and feces of warmblooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 ˚C on mTEC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Estimated (E) value of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an E code will be reported with the value. If the analyte is identified qualitatively as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an E code even though the measured value is greater than the MDL. A value reported with an E code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<). For bacteriological data, concentrations are reported as estimated when results are based on non-ideal colony counts.

Euglenoids (*Euglenophyta*) are a group of algae that usually are free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also "Phytoplankton")

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediment. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediment.

Fecal coliform bacteria are present in the intestines or feces of warmblooded animals. They often are used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fecal streptococcal bacteria are present in the intestines of warmblooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fire algae (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also "Phytoplankton")

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly greater than the maximum depth of water. Because the gage datum is not an actual physical object, the datum is usually defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any national geodetic datum. However, if the elevation of the gage datum relative to the national datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the national datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height often is used interchangeably with the more general term "stage," although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded, transmitted, and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Geomorphic channel units, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.

Green algae *(Chlorophyta)* are unicellular or colonial algae with chlorophyll pigments similar to those in terrestrial green plants. Some forms of green algae produce mats or floating "moss" in lakes. The abundance of green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu m^3/cm^2$). (See also "Phytoplankton" and "Periphyton")

Habitat, as used in this report, includes all nonliving (physical) aspects of the aquatic ecosystem, although living components like aquatic macrophytes and riparian vegetation also are usually included. Measurements of habitat typically are made over a wider geographic scale than are measurements of species distribution.

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hardness of water is a physical-chemical characteristic that commonly is recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. *See NOAA Web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Hilsenhoff's Biotic Index (HBI) is an indicator of organic pollution that uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = sum\frac{(n)(a)}{N},$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See "Datum")

Hydrologic index stations referred to in this report are continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

Inch (IN., in.), in reference to streamflow, as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were distributed uniformly on it. (See also "Annual runoff")

Instantaneous discharge is the discharge at a particular instant of time. (See also "Discharge")

International Boundary Commission Survey Datum refers to a geodetic datum established at numerous monuments along the United States-Canada boundary by the International Boundary Commission.

Island, as used in this report, is a mid-channel bar that has permanent woody vegetation, is flooded once a year, on average, and remains stable except during large flood events.

Laboratory reporting level (LRL) generally is equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. The LRL replaces the term 'non-detection value' (NDV).

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Latent heat flux (often used interchangeably with latent heat-flux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified cross-sectional area per unit time. Usually expressed in watts per square meter.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation:

$$I = I_o e^{-\lambda L},$$

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L}\log_e \frac{I}{I_o}.$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Long-term method detection level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike-sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. *See NOAA Web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that usually are arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also "Daily mean suspended-sediment concentration" and "Suspended-sediment concentration")

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period. (See also "Discharge")

Mean high or **low tide** is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also "Datum")

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Megahertz is a unit of frequency. One megahertz equals one million cycles per second.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Method detection limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Method of Cubatures is a method of computing discharge in tidal estuaries based on the conservation of mass equation.

Methylene blue active substances (MBAS) indicate the presence of detergents (anionic surfactants). The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of

water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

Microsiemens per centimeter (US/CM, µS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in milligrams per liter and is based on the mass of dry sediment per liter of water-sediment mixture.

Minimum reporting level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD 29) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It formerly was called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations**,** it does not necessarily represent local mean sea level at any particular place. *See NOAA Web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88* (See "North American Vertical Datum of 1988")

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate")

Nekton are the consumers in the aquatic environment and consist of large, free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

North American Datum of 1927 (NAD 27) is the horizontal control datum for the United States that was defined by a location and azimuth on the Clarke spheroid of 1866.

North American Datum of 1983 (NAD 83) is the horizontal control datum for the United States, Canada, Mexico, and Central America that is based on the adjustment of 250,000 points including 600 satellite Doppler stations that constrain the system to a geocentric origin. NAD 83 has been officially adopted as the legal horizontal datum for the United States by the Federal government.

North American Vertical Datum of 1988 (NAVD 88) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian**,** Mexican, and United States first-order terrestrial leveling networks.

Open or **screened interval** is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediment. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or **volatile mass** of a living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also "Ash mass," "Biomass," and "Dry mass")

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter code is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method uses the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	>0.00024 - 0.004	Sedimentation
Silt	>0.004 - 0.062	Sedimentation
Sand	>0.062 - 2.0	Sedimentation/sieve
Gravel	>2.0 - 64.0	Sieve
Cobble	>64 - 256	Manual measurement
Boulder	>256	Manual measurement

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. For the sedimentation method, most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation of the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

Percent composition or **percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

Percent shading is a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. Although primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7.0 standard units are termed “acidic,” and solutions with a pH greater than 7.0 are termed “basic.” Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

Phytoplankton is the plant part of the plankton. They usually are microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon

solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and commonly are known as algae. (See also "Plankton")

Picocurie (PC, pCi) is one-trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Pool, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. The carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light- and dark-bottle method and is preferred for use with unenriched water samples. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m^2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/time)] for phytoplankton. The oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Radioisotopes are isotopic forms of elements that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Reach, as used in this report, is a length of stream that is chosen to represent a uniform set of physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.

Recoverable from bed (bottom) material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. (See also "Bed material")

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or nonexceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance,

and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day, 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the nonexceedances of the $7Q_{10}$ occur less than 10 years after the previous nonexceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous nonexceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

Return period (See "Recurrence interval")

Riffle, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council and typically is used to denote location along a river.

Run, as used in this report, is a relatively shallow part of a stream with moderate velocity and little or no surface turbulence.

Runoff is the quantity of water that is discharged ("runs off") from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also "Annual runoff")

Sea level, as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Sensible heat flux (often used interchangeably with latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.

Seven-day, 10-year low flow ($7Q_{10}$) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the $7Q_{10}$ is 10 years; the chance that the annual 7-day minimum flow will be less than the $7Q_{10}$ is 10 percent in any given year. (See also "Annual 7-day minimum" and "Recurrence interval")

Shelves, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Soil heat flux (often used interchangeably with soil heat-flux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.

Soil-water content is the water lost from the soil upon drying to constant mass at 105 °C; expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific water, to evaluate mixing of different

water, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

Stage-discharge relation is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Substrate embeddedness class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2 mm, sand or finer). Below are the class categories expressed as the percentage covered by fine sediment:

0	no gravel or larger substrate	3	26-50 percent
1	> 75 percent	4	5-25 percent
2	51-75 percent	5	< 5 percent

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

Surficial bed material is the upper surface (0.1 to 0.2 foot) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Surrogate is an analyte that behaves similarly to a target analyte, but that is highly unlikely to occur in a sample. A surrogate is added to a sample in known amounts before extraction and is measured with the same laboratory procedures used to measure the target analyte. Its purpose is to monitor method performance for an individual sample.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is defined operationally as the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment, and, thus, the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by directly analyzing the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also "Suspended")

Suspended sediment is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (See also "Sediment")

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also "Sediment" and "Suspended sediment")

Suspended-sediment discharge (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027. (See also "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also "Sediment")

Suspended solids, total residue at 105 ˚C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a

0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxa (Species) richness is the number of species (taxa) present in a defined area or sampling unit.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata,* is the following:

Kingdom:	Animal
Phylum:	Arthropeda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	*Hexagenia*
Species:	*Hexagenia limbata*

Thalweg is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric ton per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warmblooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample. (See also "Bacteria")

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total organism count is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume")

Total recoverable is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Bedload," "Bedload discharge," "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Total sediment load or **total load** is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material, whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-sediment load," and "Total load")

Transect, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.

Turbidity is the reduction in the transparency of a solution because of the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to USEPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of path length of UV light through a sample.

Unconfined aquifer is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See "Water-table aquifer")

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and, subsequently, analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They often are components of fuels, solvents, hydraulic fluids, paint thinners, and dry-cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human-health concern because many are toxic and are known or suspected human carcinogens.

Water table is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which the water table is found.

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2002, is called the "2002 water year."

Watershed (See "Drainage basin")

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State

annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Wet mass is the mass of living matter plus contained water. (See also "Biomass" and "Dry mass")

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also "Dry weight")

WSP is used as an acronym for "Water-Supply Paper" in reference to previously published reports.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and often are large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also "Plankton")

TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The USGS publishes a series of manuals titled the "Techniques of Water-Resources Investigations" that describe procedures for planning and conducting specialized work in water-resources investigations. The material in these manuals is grouped under major subject headings called books and is further divided into sections and chapters. For example, section A of book 3 (Applications of Hydraulics) pertains to surface water. Each chapter then is limited to a narrow field of the section subject matter. This publication format permits flexibility when revision or printing is required.

Manuals in the Techniques of Water-Resources Investigations series, which are listed below, are available online at http://water.usgs.gov/pubs/twri/. Printed copies are available for sale from the USGS, Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (an authorized agent of the Superintendent of Documents, Government Printing Office). Please telephone "1-888-ASK-USGS" for current prices, and refer to the title, book number, section number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations." Other products can be viewed online at http://www.usgs.gov/sales.html, or ordered by telephone or by FAX to (303)236-4693. Order forms for FAX requests are available online at http://mac.usgs.gov/isb/pubs/forms/. Prepayment by major credit card or by a check or money order payable to the "U.S. Geological Survey" is required.

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

1–D1. *Water temperature—Influential factors, field measurement, and data presentation*, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS–TWRI book 1, chap. D1. 1975. 65 p.

1–D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI book 1, chap. D2. 1976. 24 p.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

2–D1. *Application of surface geophysics to ground-water investigations,* by A.A.R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI book 2, chap. D1. 1974. 116 p.

2–D2. *Application of seismic-refraction techniques to hydrologic studies,* by F.P. Haeni: USGS–TWRI book 2, chap. D2. 1988. 86 p.

Section E. Subsurface Geophysical Methods

2–E1. *Application of borehole geophysics to water-resources investigations,* by W.S. Keys and L.M. MacCary: USGS–TWRI book 2, chap. E1. 1971. 126 p.

2–E2. *Borehole geophysics applied to ground-water investigations,* by W.S. Keys: USGS–TWRI book 2, chap. E2. 1990. 150 p.

Section F. Drilling and Sampling Methods

2–F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W.E. Teasdale: USGS–TWRI book 2, chap. F1. 1989. 97 p.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3–A1. *General field and office procedures for indirect discharge measurements,* by M.A. Benson and Tate Dalrymple: USGS–TWRI book 3, chap. A1. 1967. 30 p.

3–A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M.A. Benson: USGS–TWRI book 3, chap. A2. 1967. 12 p.

3–A3. *Measurement of peak discharge at culverts by indirect methods,* by G.L. Bodhaine: USGS–TWRI book 3, chap. A3. 1968. 60 p.

3–A4. *Measurement of peak discharge at width contractions by indirect methods,* by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 p.

3–A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS–TWRI book 3, chap. A5. 1967. 29 p.

3–A6. *General procedure for gaging streams,* by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 p.

3–A7. *Stage measurement at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A7. 1968. 28 p.

3–A8. *Discharge measurements at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A8. 1969. 65 p.

3–A9. *Measurement of time of travel in streams by dye tracing,* by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI book 3, chap. A9. 1989. 27 p.

3–Al0. *Discharge ratings at gaging stations,* by E.J. Kennedy: USGS–TWRI book 3, chap. A10. 1984. 59 p.

3–A11. *Measurement of discharge by the moving-boat method,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 3, chap. A11. 1969. 22 p.

3–A12. *Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI book 3, chap. A12. 1986. 34 p.

3–A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS–TWRI book 3, chap. A13. 1983. 53 p.

3–A14. *Use of flumes in measuring discharge,* by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI book 3, chap. A14. 1983. 46 p.

3–A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS–TWRI book 3, chap. A15. 1984. 48 p.

3–A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI book 3, chap. A16. 1985. 52 p.

3–A17. *Acoustic velocity meter systems,* by Antonius Laenen: USGS–TWRI book 3, chap. A17. 1985. 38 p.

3–A18. *Determination of stream reaeration coefficients by use of tracers,* by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI book 3, chap. A18. 1989. 52 p.

3–A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS–TWRI book 3, chap. A19. 1990. 31 p.

3–A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS–TWRI book 3, chap. A20. 1993. 38 p.

3–A21 *Stream-gaging cableways,* by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 p.

Section B. Ground-Water Techniques

3–B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS–TWRI book 3, chap. B1. 1971. 26 p.

3–B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G.D. Bennett: USGS–TWRI book 3, chap. B2. 1976. 172 p.

3–B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS–TWRI book 3, chap. B3. 1980. 106 p.

3–B4. *Regression modeling of ground-water flow,* by R.L. Cooley and R.L. Naff: USGS–TWRI book 3, chap. B4. 1990. 232 p.

3–B4. *Supplement 1. Regression modeling of ground-water flow—Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems,* by R.L. Cooley: USGS–TWRI book 3, chap. B4. 1993. 8 p.

3–B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction*, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI book 3, chap. B5. 1987. 15 p.

3–B6. *The principle of superposition and its application in ground-water hydraulics,* by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI book 3, chap. B6. 1987. 28 p.

3–B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow,* by E.J. Wexler: USGS–TWRI book 3, chap. B7. 1992. 190 p.

3–B8. *System and boundary conceptualization in ground-water flow simulation,* by T.E. Reilly: USGS–TWRI book 3, chap. B8. 2001. 29 p.

Section C. Sedimentation and Erosion Techniques

3–C1. *Fluvial sediment concepts,* by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 p.

3–C2. *Field methods for measurement of fluvial sediment*, by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 p.

3–C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 p.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4–A1. *Some statistical tools in hydrology*, by H.C. Riggs: USGS–TWRI book 4, chap. A1. 1968. 39 p.

4–A2. *Frequency curves,* by H.C. Riggs: USGS–TWRI book 4, chap. A2. 1968. 15 p.

4–A3. *Statistical methods in water resources*, by D.R. Helsel and R.M. Hirsch: USGS–TWRI book 4, chap. A3. 1991. Available only online at http://water.usgs.gov/pubs/twri/twri4a3/. (Accessed August 30, 2002.)

Section B. Surface Water

4–B1. *Low-flow investigations,* by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 p.

4–B2. *Storage analyses for water supply*, by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 p.

4–B3. *Regional analyses of streamflow characteristics,* by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 p.

Section D. Interrelated Phases of the Hydrologic Cycle

4–D1. *Computation of rate and volume of stream depletion by wells*, by C.T. Jenkins: USGS–TWRI book 4, chap. D1. 1970. 17 p.

Book 5. Laboratory Analysis

Section A. Water Analysis

5–A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI book 5, chap. A1. 1989. 545 p.

5–A2. *Determination of minor elements in water by emission spectroscopy,* by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI book 5, chap. A2. 1971. 31 p.

5–A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS–TWRI book 5, chap. A3. 1987. 80 p.

5–A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* by L.J. Britton and P.E. Greeson, editors: USGS–TWRI book 5, chap. A4. 1989. 363 p.

5–A5. *Methods for determination of radioactive substances in water and fluvial sediments,* by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS–TWRI book 5, chap. A5. 1977. 95 p.

5–A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments,* by L.C. Friedman and D.E. Erdmann: USGS–TWRI book 5, chap. A6. 1982. 181 p.

Section C. Sediment Analysis

5–C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS–TWRI book 5, chap. C1. 1969. 58 p.

Book 6. Modeling Techniques

Section A. Ground Water

6–A1. *A modular three-dimensional finite-difference ground-water flow model*, by M.G. McDonald and A.W. Harbaugh: USGS–TWRI book 6, chap. A1. 1988. 586 p.

6–A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model,* by S.A. Leake and D.E. Prudic: USGS–TWRI book 6, chap. A2. 1991. 68 p.

6–A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual,* by L.J. Torak: USGS–TWRI book 6, chap. A3. 1993. 136 p.

6–A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions,* by R.L. Cooley: USGS–TWRI book 6, chap. A4. 1992. 108 p.

6–A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details,* by L.J. Torak: USGS–TWRI book 6, chap. A5. 1993. 243 p.

6–A6. *A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction*, by Eric D. Swain and Eliezer J. Wexler: USGS–TWRI book 6, chap. A6. 1996. 125 p.

6–A7. *User's guide to SEAWAT: A computer program for simulation of three-dimensional variable-density ground-water flow*, by Weixing Guo and Christian D. Langevin: USGS–TWRI book 6, chap. A7. 2002. 77 p.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

7–C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments,* by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS–TWRI book 7, chap. C1. 1976. 116 p.

7–C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L.F. Konikow and J.D. Bredehoeft: USGS–TWRI book 7, chap. C2. 1978. 90 p.

7–C3. *A model for simulation of flow in singular and interconnected channels,* by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI book 7, chap. C3. 1981. 110 p.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8–A1. *Methods of measuring water levels in deep wells,* by M.S. Garber and F.C. Koopman: USGS–TWRI book 8, chap. A1. 1968. 23 p.

8–A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS–TWRI book 8, chap. A2. 1983. 57 p.

Section B. Instruments for Measurement of Discharge

8–B2. *Calibration and maintenance of vertical-axis type current meters,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 8, chap. B2. 1968. 15 p.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9–A1. *National field manual for the collection of water-quality data: Preparations for water sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.

9–A2. *National field manual for the collection of water-quality data: Selection of equipment for water sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.

9–A3. *National field manual for the collection of water-quality data: Cleaning of equipment for water sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.

9–A4. *National field manual for the collection of water-quality data: Collection of water samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.

9–A5. *National field manual for the collection of water-quality data: Processing of water samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.

9–A6. *National field manual for the collection of water-quality data: Field measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.

9–A7. *National field manual for the collection of water-quality data: Biological indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.

9–A8. *National field manual for the collection of water-quality data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 p.

9–A9. *National field manual for the collection of water-quality data: Safety in field activities*, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 p.

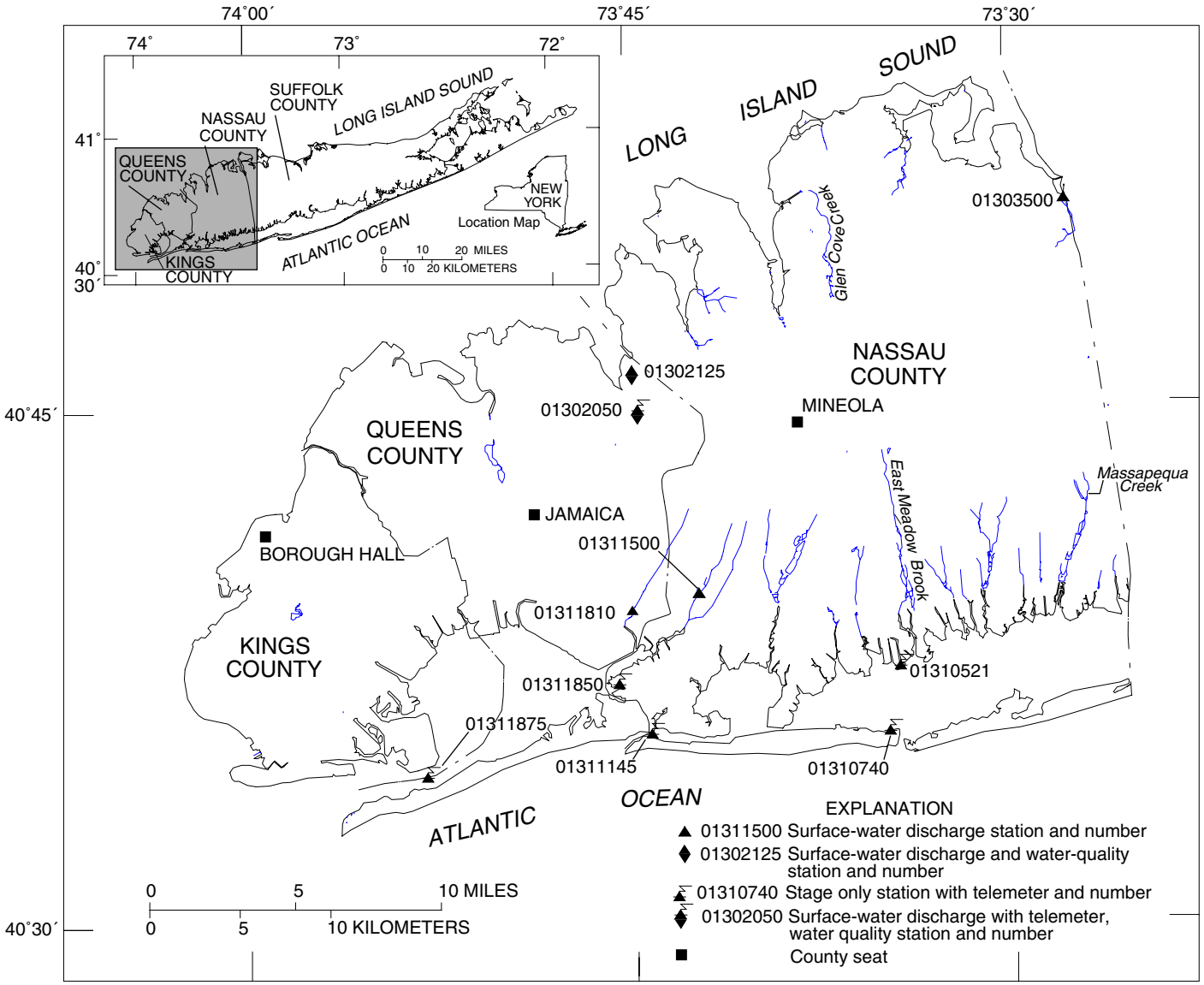


FIGURE 6A.--LOCATION OF SURFACE-WATER DATA COLLECTION STATIONS

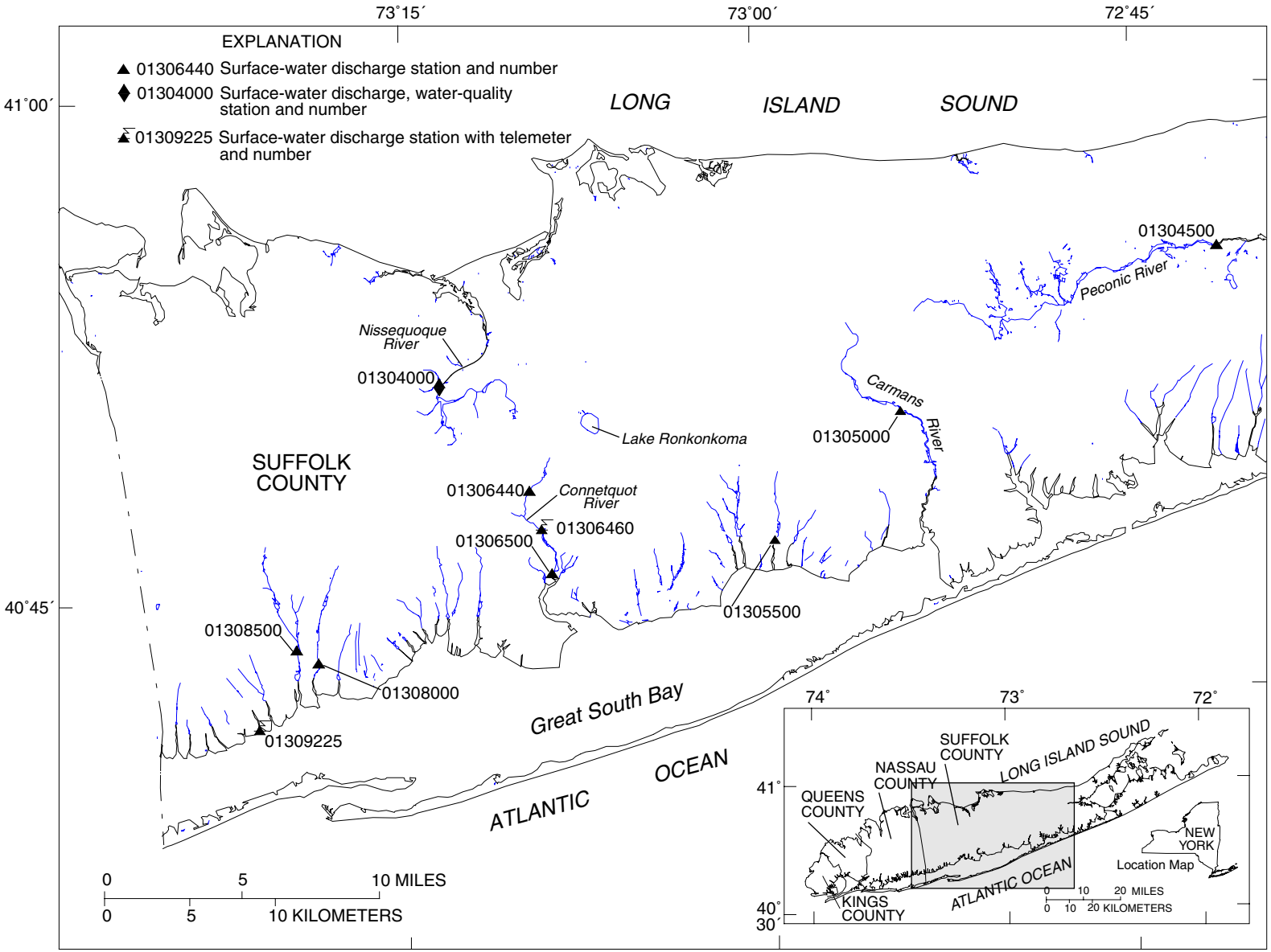


FIGURE 6B.--LOCATION OF SURFACE-WATER DATA COLLECTION STATIONS

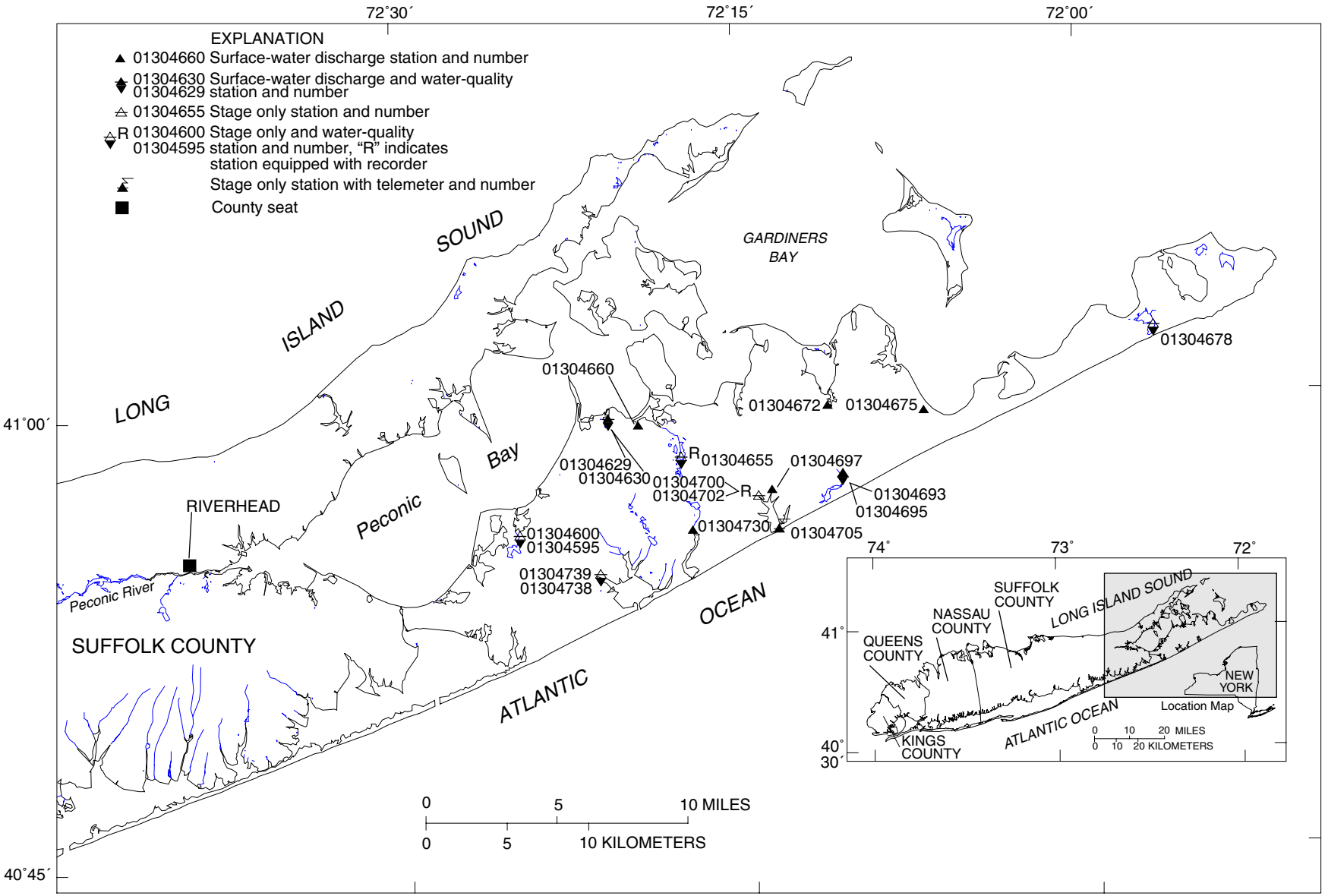


FIGURE 6C.--LOCATION OF SURFACE-WATER DATA COLLECTION SATATIONS

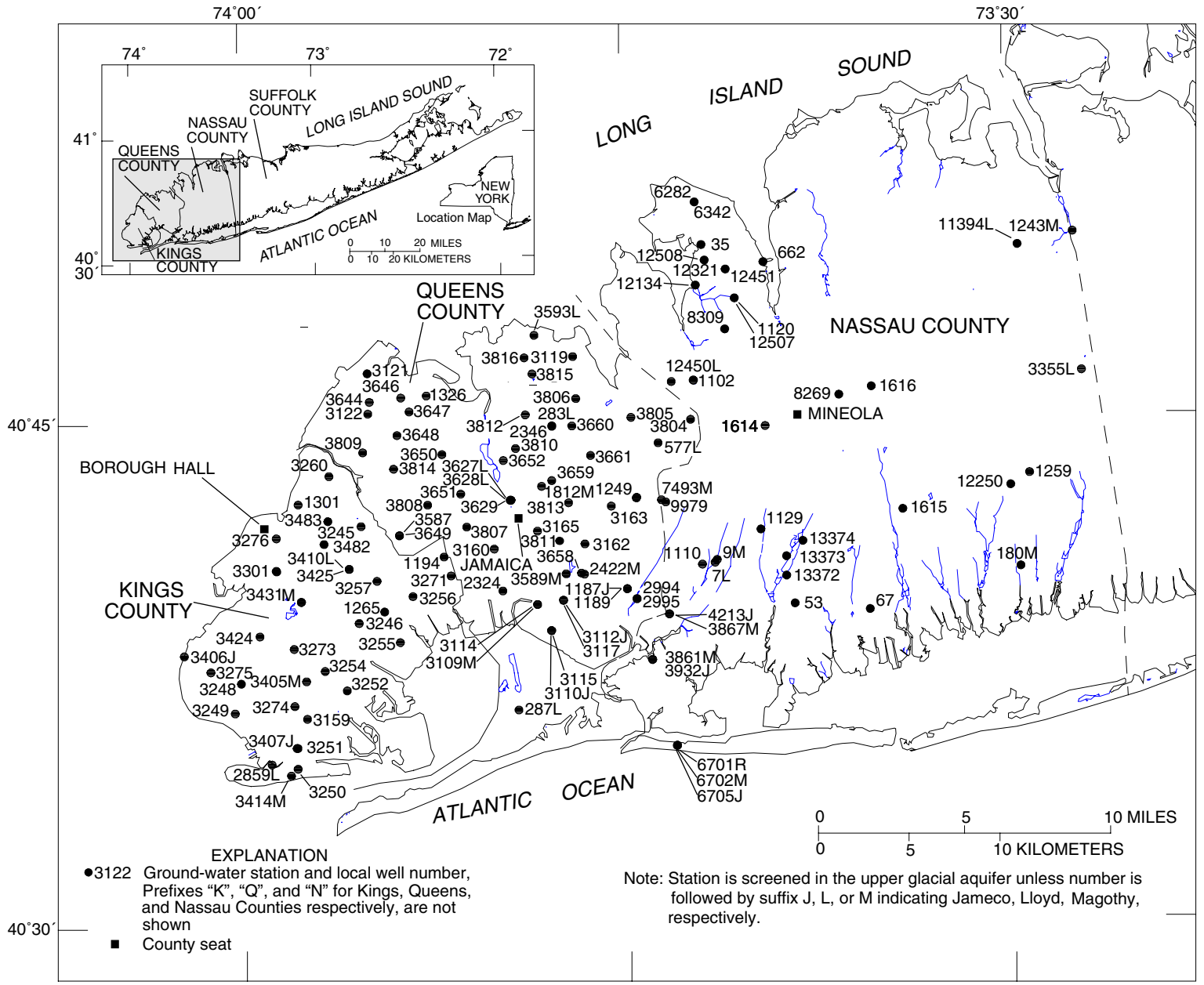


FIGURE 7A.--LOCATION OF WATER-LEVEL DATA COLLECTION STATIONS

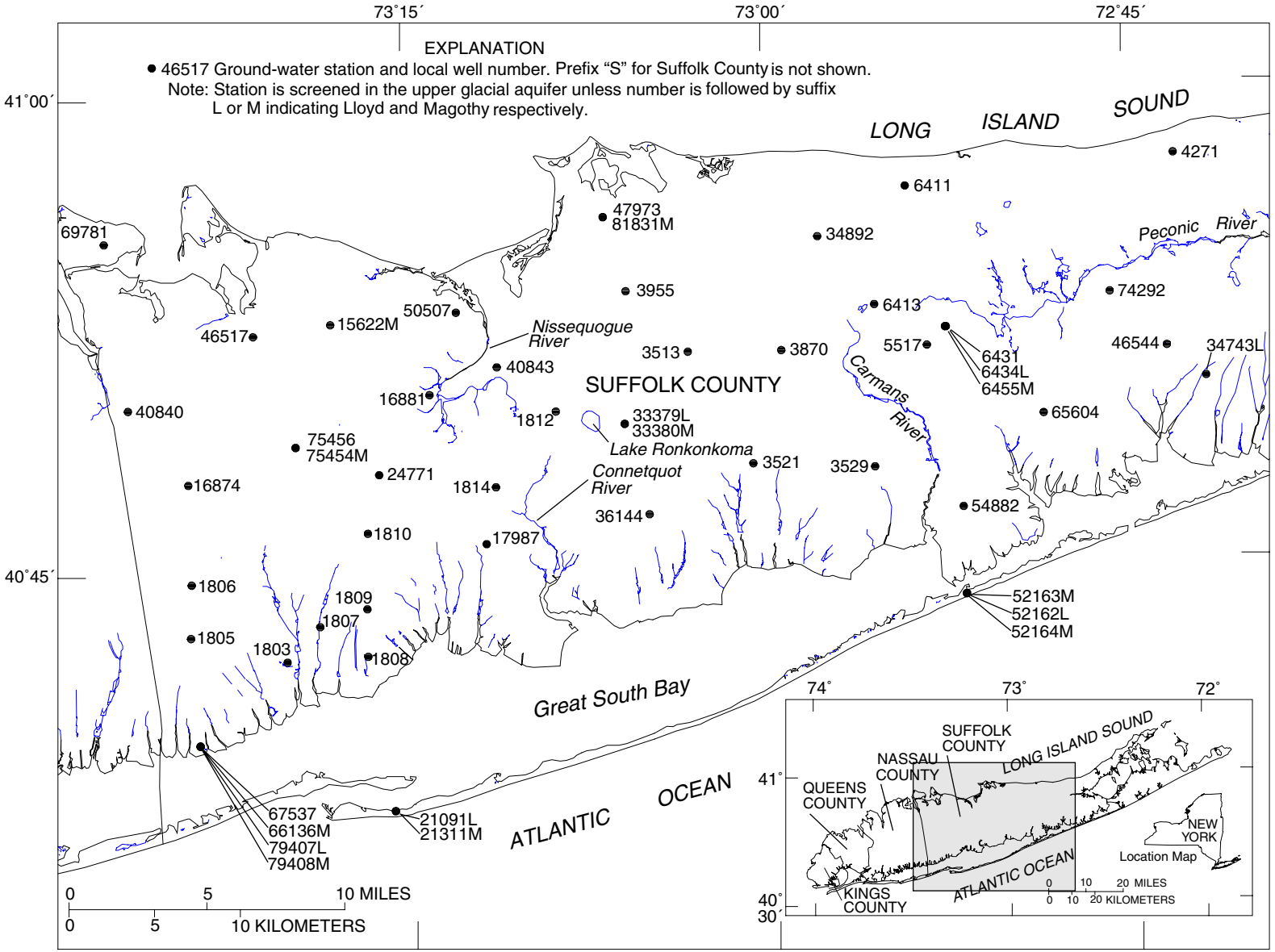


FIGURE 7B.--LOCATION OF WATER-LEVEL DATA COLLECTION STATIONS

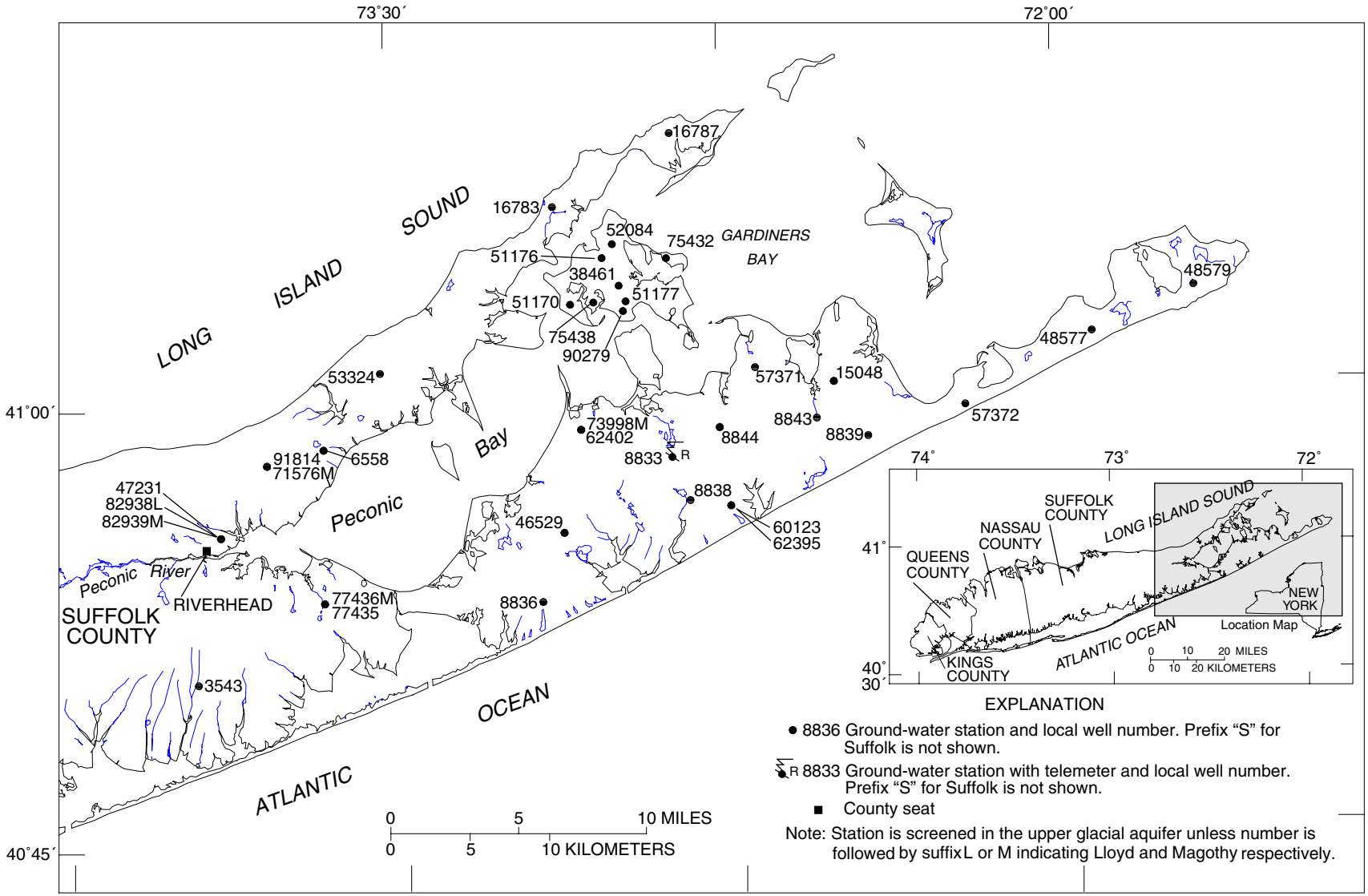


FIGURE 7C.--LOCATION OF WATER-LEVEL DATA COLLECTION STATIONS

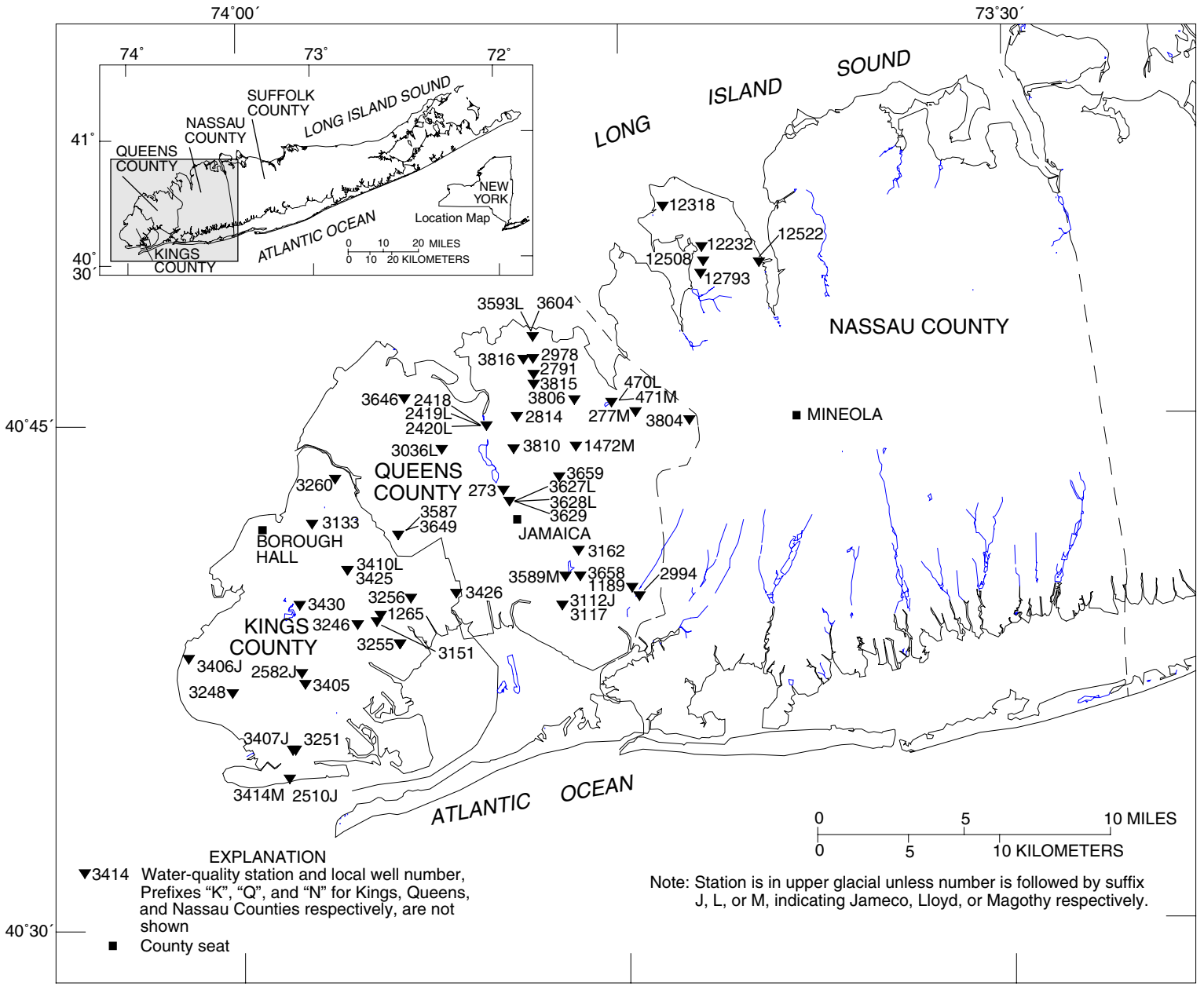


FIGURE 8A.--LOCATION OF QUALITY OF GROUND-WATER DATA COLLECTION STATIONS

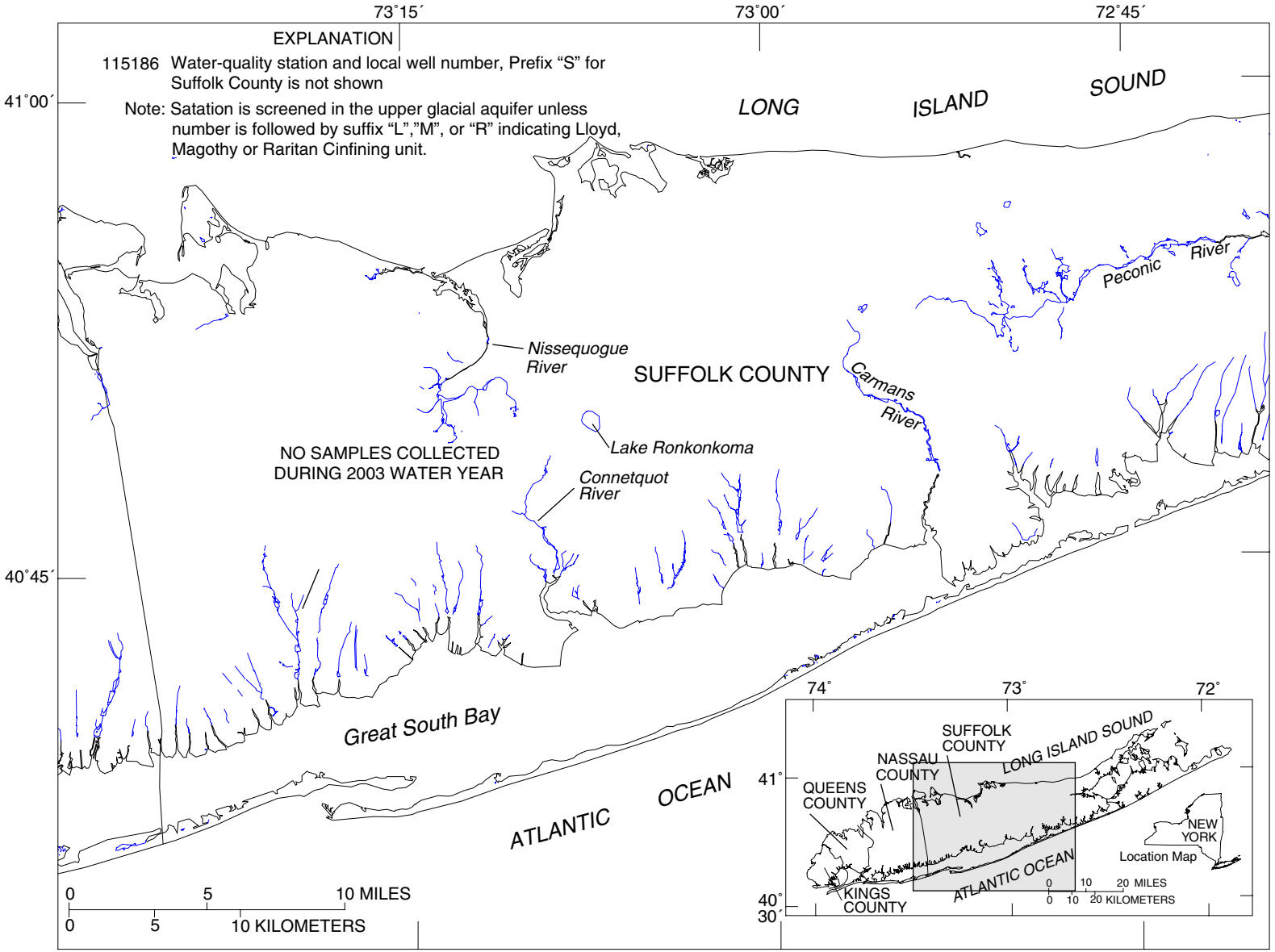


FIGURE 8B.--LOCATION OF QUALITY OF GROUND-WATER DATA COLLECTION STATIONS

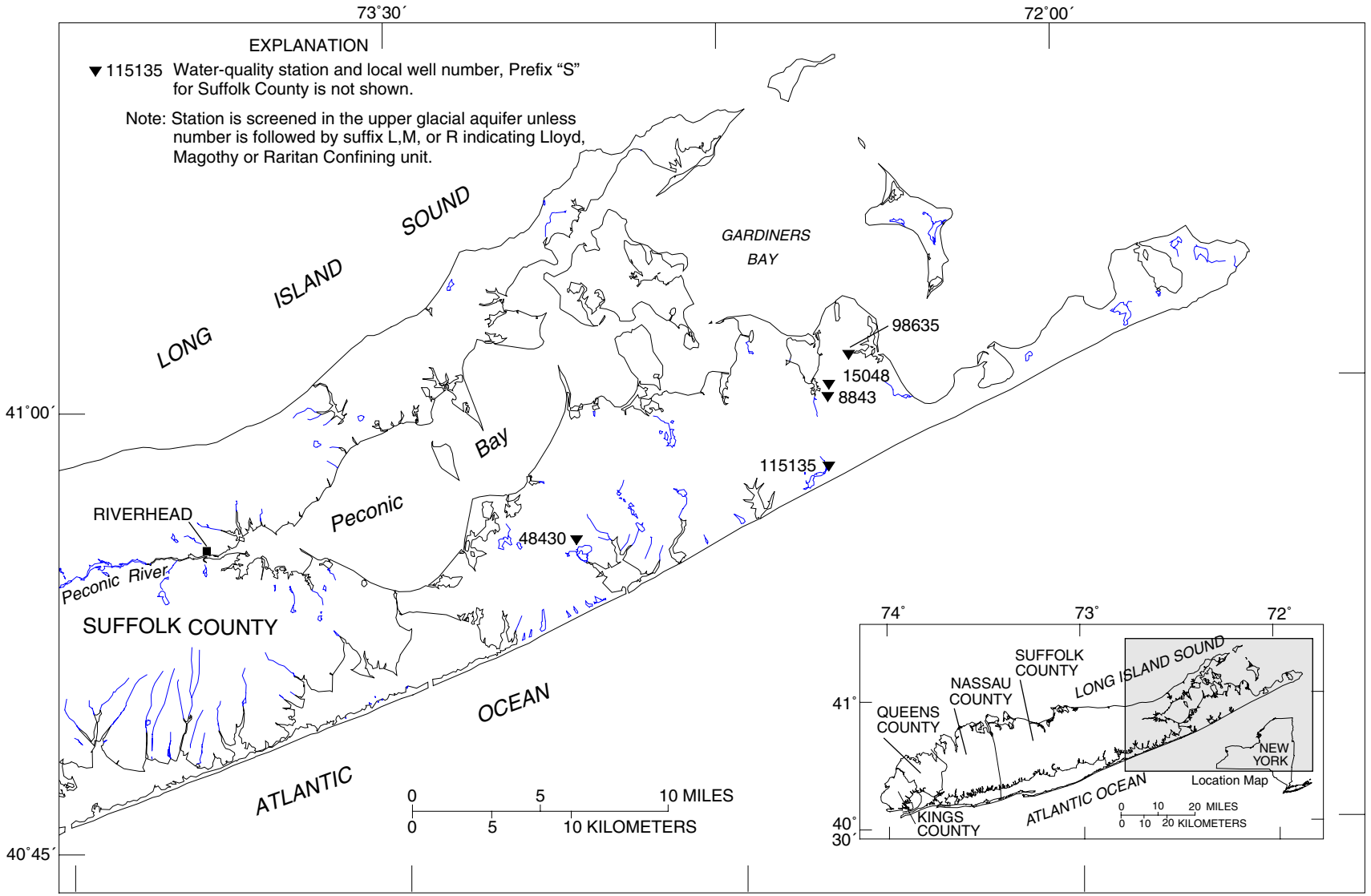


FIGURE 8C.--LOCATION OF QUALITY OF GROUND-WATER DATA COLLECTION STATIONS

01302050 ALLEY CREEK NEAR OAKLAND GARDENS, NY

LOCATION.--Lat 40°45'21", long 73°44'47", Queens County, Hydrologic Unit 02030201, on right bank just upstream from Cross Island Parkway entrance ramp, at upstream side of 8- x 9-foot concrete culvert in Alley Pond Park, about 4.0 mi northeast of Oakland Gardens.

DRAINAGE AREA.--About 1.6 mi^2.

PERIOD OF RECORD.--June 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5.26 ft above NGVD of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Satellite gage-height telemeter at station. Water-quality data included in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 354 ft^3/s, Oct. 19, 1996, gage height, 5.09 ft, from rating curve extended above 60 ft^3/s; maximum gage height, 6.17 ft, Oct. 19, 1996, result of high tide; minimum discharge, 0.66 ft^3/s, for part or all of many days 1995-97, Mar. 27, 2003 result of regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 71 ft^3/s, June 14, gage height, 2.38 ft; maximum gage height, 2.95 ft, backwater from high tide; minimum discharge, 0.66 ft^3/s, Mar. 27, gage height, 0.18 ft, result of regulation.

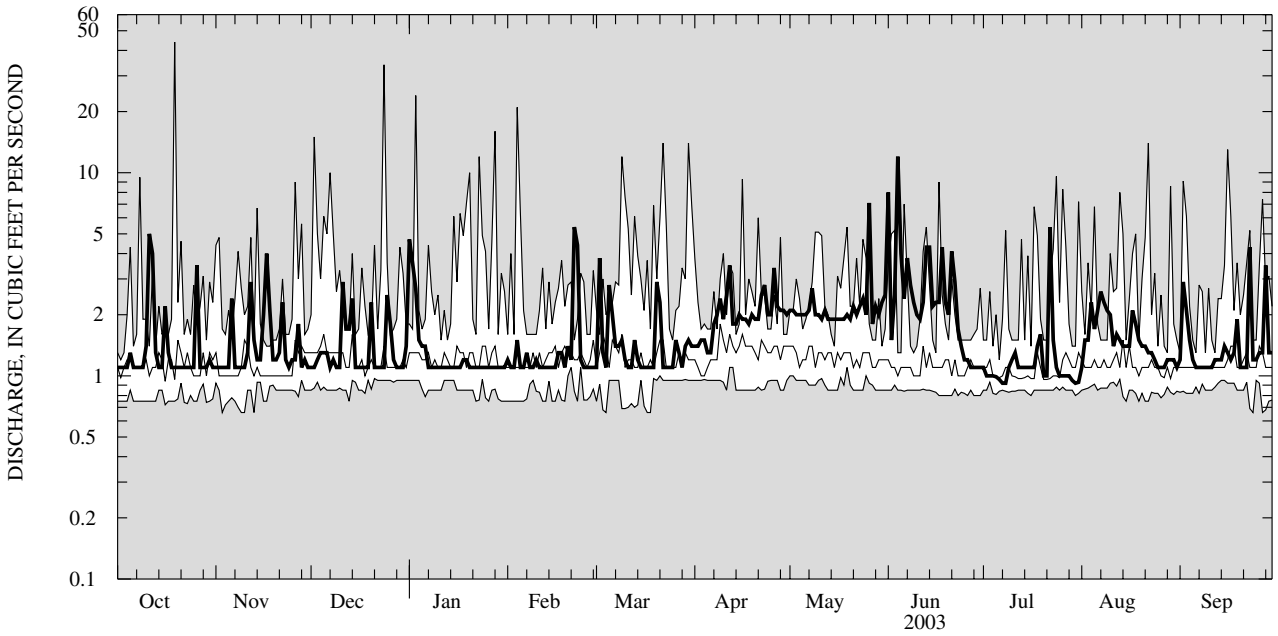
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.1	1.1	4.7	1.2	1.1	1.4	2.1	8.0	1.1	1.1	1.2
2	1.1	1.1	1.1	3.6	1.1	3.8	1.4	2.1	1.5	1.0	1.5	2.9
3	1.1	1.1	1.2	2.7	1.1	1.3	1.5	2.0	2.5	1.0	1.5	2.1
4	1.1	1.1	1.3	1.5	1.5	1.1	1.5	2.0	12	1.0	2.3	1.5
5	1.3	1.1	1.3	1.4	1.1	2.8	1.3	2.0	4.0	0.99	1.7	1.2
6	1.1	2.4	1.3	1.4	1.1	2.0	1.3	2.0	2.4	0.96	2.1	1.1
7	1.1	1.1	1.1	1.1	1.3	1.4	1.8	2.1	3.8	0.92	2.6	1.1
8	1.1	1.1	1.2	1.1	1.1	1.4	2.0	2.7	2.8	0.92	2.3	1.1
9	1.1	1.1	1.1	1.1	1.1	1.5	2.4	2.0	2.3	1.1	2.1	1.1
10	1.4	1.1	1.1	1.1	1.2	1.2	1.9	2.0	2.0	1.2	2.0	1.1
11	e5.0	1.3	2.9	1.1	1.1	1.1	2.5	1.9	1.9	1.3	1.4	1.1
12	e4.0	2.9	1.7	1.1	1.1	1.1	3.5	2.1	2.3	1.1	1.6	1.2
13	1.3	1.5	1.7	1.1	1.1	1.5	1.8	1.9	4.3	1.1	1.5	1.2
14	1.1	1.2	e2.4	1.1	1.1	1.2	1.8	1.9	4.3	1.1	1.4	1.2
15	1.1	1.2	1.1	1.1	1.1	1.1	2.0	1.9	2.2	1.1	1.4	1.4
16	e2.2	2.0	1.1	1.1	1.1	1.1	1.9	1.9	e2.3	1.1	1.4	1.3
17	1.3	e4.0	1.1	1.1	1.3	1.1	1.9	1.9	2.3	1.1	2.1	1.2
18	1.1	2.1	1.1	1.2	1.3	1.1	1.8	1.9	4.3	1.4	1.8	1.3
19	1.1	1.2	1.1	1.2	1.1	1.1	2.0	2.0	2.3	1.6	1.5	1.9
20	1.1	1.2	2.3	1.1	1.4	2.9	1.9	1.9	2.0	1.0	1.4	1.1
21	1.1	1.3	1.1	1.1	1.2	2.3	1.9	2.2	4.1	1.0	1.4	1.1
22	1.1	2.3	1.1	1.1	e5.4	1.1	2.5	2.0	2.9	5.4	1.3	1.1
23	1.1	1.2	1.1	1.1	4.4	1.1	2.8	2.2	1.7	1.5	1.3	4.3
24	1.1	1.1	1.1	1.1	1.2	1.1	2.0	2.4	1.4	1.1	1.2	1.2
25	1.1	1.2	e2.5	1.1	1.1	1.1	2.0	2.0	1.2	1.0	1.1	1.2
26	e3.5	1.2	1.8	1.1	1.1	1.5	3.4	7.1	1.2	1.0	1.1	1.3
27	1.1	1.8	1.2	1.1	1.1	1.3	2.2	1.8	1.1	1.0	1.1	1.3
28	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.2	1.1	1.0	1.2	e3.5
29	1.1	1.2	1.1	1.1	---	1.4	2.1	2.0	1.1	0.95	1.2	1.3
30	1.2	1.1	1.1	1.1	---	1.5	2.0	2.3	1.1	0.92	1.2	1.3
31	1.1	---	1.4	1.1	---	1.4	---	2.5	---	0.93	1.1	---
TOTAL	45.4	44.4	42.9	43.0	40.1	45.8	60.6	69.0	86.4	37.89	47.9	44.9
MEAN	1.46	1.48	1.38	1.39	1.43	1.48	2.02	2.23	2.88	1.22	1.55	1.50
MAX	5.0	4.0	2.9	4.7	5.4	3.8	3.5	7.1	12	5.4	2.6	4.3
MIN	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.8	1.1	0.92	1.1	1.1
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2003, BY WATER YEAR (WY)												
MEAN	1.40	1.36	1.58	1.61	1.44	1.64	1.54	1.51	1.43	1.29	1.40	1.41
MAX	2.91	1.83	2.30	2.49	1.98	2.90	2.02	2.23	2.88	1.62	1.73	1.71
(WY)	(1997)	(1998)	(1997)	(1999)	(1998)	(2001)	(2003)	(2003)	(2003)	(1997)	(1997)	(1999)
MIN	0.93	0.96	1.02	1.18	0.93	1.07	1.04	0.98	0.94	0.93	0.95	1.10
(WY)	(2002)	(2002)	(1996)	(1997)	(1996)	(1995)	(1995)	(1995)	(1995)	(1993)	(1995)	(1995)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1993 - 2003	
ANNUAL TOTAL	470.36		608.29			
ANNUAL MEAN	1.29		1.67		1.48	
HIGHEST ANNUAL MEAN					1.76	1998
LOWEST ANNUAL MEAN					1.19	2002
HIGHEST DAILY MEAN	9.1	Sep 2	12	Jun 4	44	Oct 19, 1996
LOWEST DAILY MEAN	0.91	Jul 2	0.92	Jul 7	0.66	Sep 24, 1995
ANNUAL SEVEN-DAY MINIMUM	0.94	Jul 20	0.97	Jul 2	0.73	Sep 27, 1995
10 PERCENT EXCEEDS	1.7		2.5		2.1	
50 PERCENT EXCEEDS	1.1		1.2		1.2	
90 PERCENT EXCEEDS	1.0		1.1		0.91	

e Estimated

01302050 ALLEY CREEK NEAR OAKLAND GARDENS, NY—Continued



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

01302125 GABBLERS CREEK AT LITTLE NECK, NY

LOCATION.--Lat 40°46'25", long 73°44'39", Queens County, Hydrologic Unit 02030201, on left bank just downstream from Sandyhill Road, at downstream side of 3-foot concrete culvert in Udalls Park Preserve, in Little Neck.

DRAINAGE AREA.--About 2.2 mi^2.

PERIOD OF RECORD.--December 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 9.00 ft above sea NGVD of 1929, from topographic map.

REMARKS.--Records poor. Water-quality data included in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76 ft^3/s, Jan. 3, 1999, gage height, 3.35 ft, from flood marks, from rating curve extended above 30 ft^3/s; minimum 0.03 ft^3/s, part or all of each day Nov.12, 29, Dec. 5-9, 2001; minimum gage height, 0.33 ft, Sept. 6, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48 ft^3/s, June 14, gage height 2.59 ft; minimum, 0.10 ft^3/s, part or all of each day Oct. 10, 11, Nov. 8, Dec. 21, 22; minimum gage height, 0.37 ft, part or all of each day Sept. 2, 5, 6, 8-10, 13, 14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.13	0.19	0.21	4.5	e0.20	0.21	0.24	0.22	3.1	0.25	0.31	0.28
2	0.13	0.17	0.22	0.72	e0.20	1.8	0.27	0.22	0.27	0.25	0.23	0.87
3	0.13	0.14	0.23	e0.35	e0.20	0.27	0.27	0.22	0.21	0.25	0.16	0.31
4	0.13	0.16	0.25	0.22	e0.30	0.20	0.27	0.21	6.8	0.25	0.64	0.15
5	0.14	0.17	0.25	0.17	e0.20	1.0	0.27	0.20	0.34	0.25	0.26	0.12
6	0.14	0.42	0.27	0.22	e0.20	0.29	0.27	0.20	0.27	0.25	0.19	0.12
7	0.13	0.13	0.25	0.18	e0.25	0.31	0.39	0.22	0.91	0.25	0.25	0.13
8	0.13	0.13	0.32	0.18	e0.20	0.29	0.37	0.29	0.28	0.25	0.58	0.12
9	0.13	0.15	0.36	0.18	e0.20	0.26	0.52	0.20	0.27	0.27	0.67	0.12
10	0.11	0.22	0.41	e0.18	e0.20	0.20	0.32	0.20	0.27	0.23	0.55	0.12
11	1.4	0.41	1.7	e0.18	e0.20	0.20	0.59	0.20	0.40	0.24	0.23	0.13
12	e1.1	1.4	0.19	e0.18	e0.20	0.20	1.4	0.20	0.27	0.22	0.22	0.13
13	0.17	0.21	0.44	e0.18	e0.20	0.25	0.30	0.20	0.70	0.22	0.17	0.13
14	0.17	0.13	0.42	e0.18	e0.20	0.26	0.27	0.20	0.42	0.22	0.14	0.21
15	0.17	0.14	0.14	e0.18	e0.20	0.27	0.27	0.21	0.27	0.18	0.23	0.29
16	0.40	0.48	0.14	e0.18	e0.20	0.27	0.27	0.20	0.27	0.14	0.17	0.25
17	0.22	1.9	0.14	e0.18	e0.25	0.27	0.32	0.18	0.27	0.14	0.41	0.25
18	0.17	0.58	0.14	e0.18	e0.25	0.27	0.32	0.15	1.2	0.28	0.34	0.25
19	0.17	0.17	0.14	e0.25	e0.20	0.27	0.32	0.15	0.29	0.23	0.22	0.43
20	0.17	0.16	0.73	e0.20	e0.25	1.2	0.32	0.16	0.27	0.26	0.22	0.28
21	0.16	0.27	0.11	e0.20	e0.20	0.60	0.32	0.19	2.2	0.27	0.22	0.32
22	0.11	0.45	0.11	e0.20	e2.2	0.27	0.48	0.17	0.58	4.0	0.22	0.32
23	0.11	0.16	0.11	e0.20	e1.5	0.27	0.32	0.22	0.27	0.35	0.22	1.0
24	0.11	0.17	0.12	e0.20	e0.30	0.27	0.32	0.26	0.27	0.23	0.22	0.27
25	0.12	0.17	e0.35	e0.20	e0.25	0.27	0.32	0.25	0.27	0.18	0.23	0.26
26	1.6	0.17	0.21	e0.20	0.24	0.36	0.79	4.0	0.25	0.18	0.22	0.27
27	0.16	0.33	0.14	e0.20	0.20	0.27	0.26	0.26	0.25	0.18	0.24	0.35
28	0.15	0.13	0.12	e0.20	0.21	0.27	0.23	0.19	0.25	0.25	0.21	0.75
29	0.18	0.16	0.13	e0.20	---	0.50	0.22	0.17	0.25	0.24	0.27	0.27
30	0.19	0.18	0.15	e0.20	---	0.27	0.22	0.16	0.25	0.18	0.35	0.27
31	0.20	---	0.17	e0.20	---	0.22	---	0.55	---	0.22	0.20	---
TOTAL	8.53	9.65	8.67	10.99	9.40	11.86	11.05	10.45	21.92	10.91	8.79	8.77
MEAN	0.28	0.32	0.28	0.35	0.34	0.38	0.37	0.34	0.73	0.35	0.28	0.29
MAX	1.6	1.9	1.7	4.5	2.2	1.8	1.4	4.0	6.8	4.0	0.67	1.0
MIN	0.11	0.13	0.11	0.17	0.20	0.20	0.22	0.15	0.21	0.14	0.14	0.12

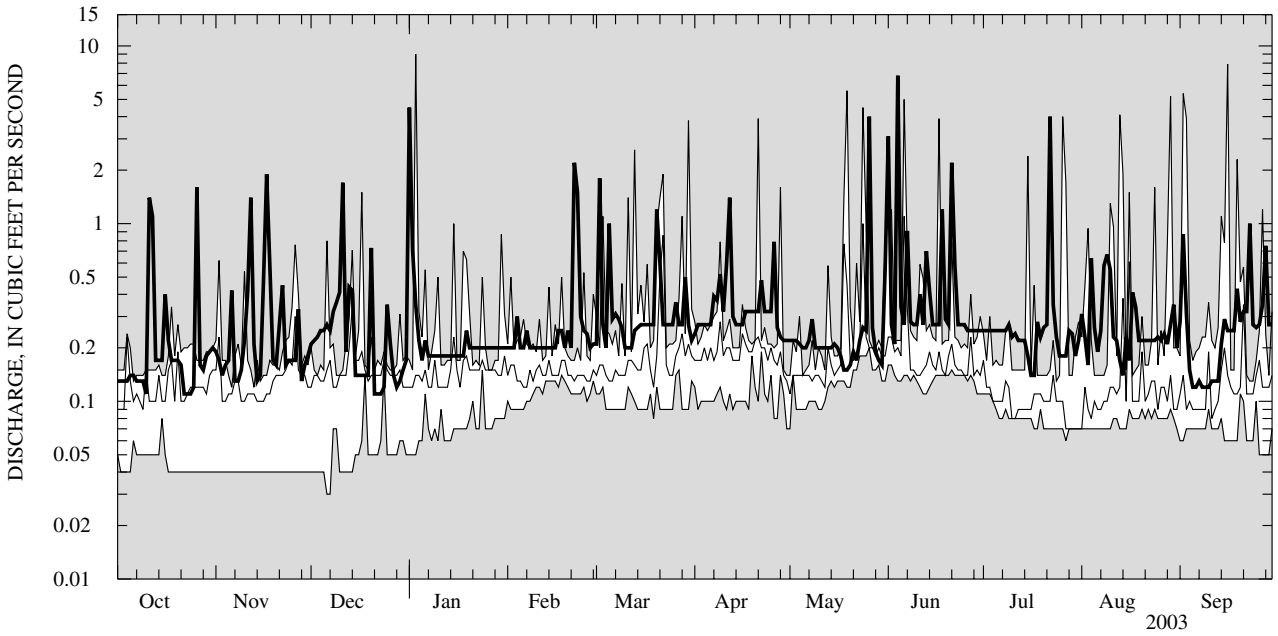
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2003, BY WATER YEAR (WY)

MEAN	0.16	0.18	0.18	0.26	0.20	0.31	0.25	0.30	0.38	0.21	0.27	0.31
MAX	0.28	0.32	0.28	0.48	0.34	0.45	0.37	0.50	0.73	0.41	0.34	0.39
(WY)	(2003)	(2003)	(2003)	(1999)	(2003)	(2001)	(2003)	(1999)	(2003)	(2000)	(2002)	(2000)
MIN	0.045	0.040	0.055	0.089	0.12	0.17	0.16	0.16	0.14	0.081	0.11	0.15
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2001)	(1999)	(1999)	(1999)	(2001)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1999 - 2003	
ANNUAL TOTAL	81.04		130.99			
ANNUAL MEAN	0.22		0.36		0.25	
HIGHEST ANNUAL MEAN					0.36	2003
LOWEST ANNUAL MEAN					0.16	2002
HIGHEST DAILY MEAN	5.4	Sep 2	6.8	Jun 4	9.0	Jan 3, 1999
LOWEST DAILY MEAN	0.05	Jan 1	0.11	Oct 10	0.03	Dec 6, 2001
ANNUAL SEVEN-DAY MINIMUM	0.07	Jan 8	0.12	Sep 5	0.04	Dec 1, 2001
10 PERCENT EXCEEDS	0.32		0.53		0.32	
50 PERCENT EXCEEDS	0.12		0.23		0.15	
90 PERCENT EXCEEDS	0.07		0.14		0.07	

e Estimated

01302125 GABBLERS CREEK AT LITTLE NECK, NY—Continued



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

01303500 COLD SPRING BROOK AT COLD SPRING HARBOR, NY

LOCATION.-Lat 40°51'26", long 73°27'15", Nassau County, Hydrologic Unit 02030201, on left bank 270 ft upstream from State Highway 25A, at Cold Spring Harbor Fish Hatchery, and 1.0 mi southwest of village of Cold Spring Harbor.

DRAINAGE AREA.-About 7.3 mi^2.

PERIOD OF RECORD.-July 1950 to current year.

REVISED RECORDS.-WDR NY-81-2: 1954 (M), 1962-63 (M), 1971 (M), 1978-79, 1980 (M).

GAGE.-Water-stage recorder and concrete control. Datum of gage is 5.38 ft above NGVD of 1929.

REMARKS.-No estimated daily discharges. Records good except those above 100 ft^3/s, which are poor. Flow occasionally regulated at outlet of pond 40 ft above station. Diversion from this pond by Cold Spring Harbor Fish Hatchery bypasses station, except during the 1979 water year.

EXTREMES FOR PERIOD OF RECORD.-Maximum discharge, 181 ft^3/s, Jan. 21, 1979, gage height, 1.99 ft, result of regulation, from rating curve extended above 80 ft^3/s; maximum gage height, 5.34 ft, Aug. 31, 1954, backwater from high tide, from high-water mark; minimum discharge, 0.20 ft^3/s, part or all of each day Jan. 24-27, 1967, gage height, 0.07 ft.

EXTREMES FOR CURRENT YEAR.-Maximum discharge, 21 ft^3/s, Nov. 6, gage height 0.69 ft; maximum gage height, 2.66 ft., Nov. 6, backwater from high tide; minimum discharge, 0.39 ft^3/s, Oct. 10, gage height, 0.09 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

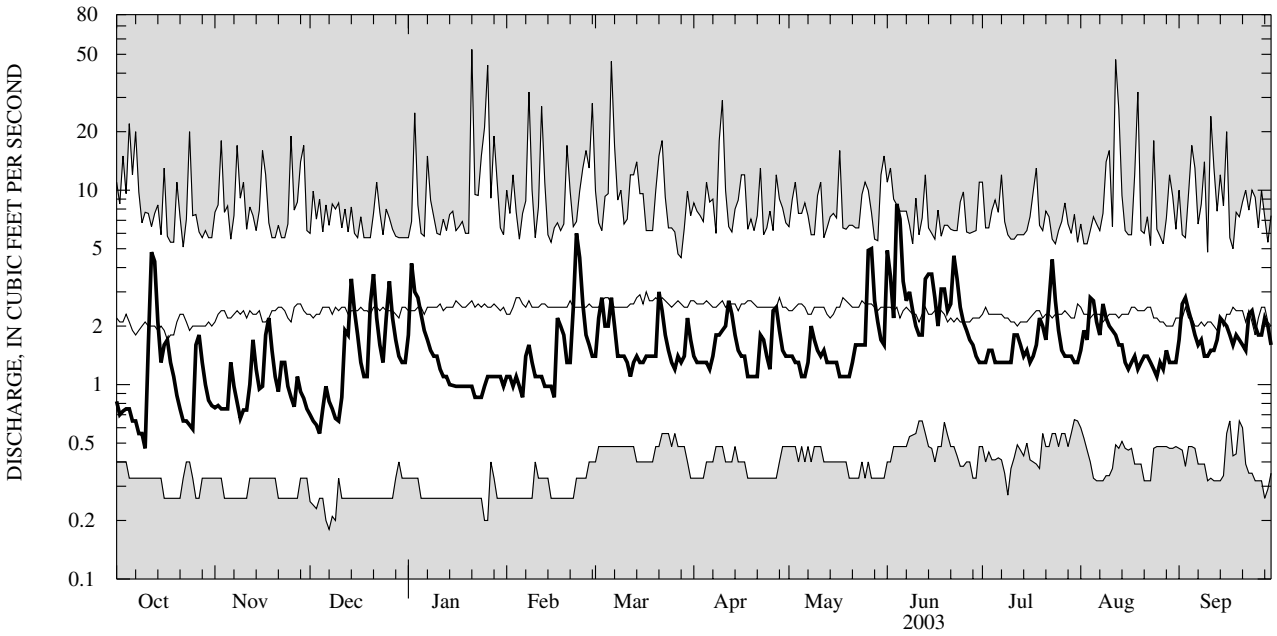
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.82	0.76	0.70	1.8	1.1	1.4	1.4	1.4	4.9	1.3	1.5	1.7
2	0.70	0.78	0.65	4.2	1.1	2.2	1.3	1.4	3.6	1.3	1.9	2.6
3	0.73	0.75	0.62	3.0	0.98	2.8	1.3	1.3	2.2	1.5	1.7	2.8
4	0.75	0.75	0.56	2.8	1.1	2.0	1.3	1.3	8.5	1.5	2.8	2.4
5	0.75	0.75	0.75	2.3	0.98	2.0	1.3	1.1	7.1	1.3	2.7	2.1
6	0.65	1.3	0.98	1.9	0.86	2.8	1.2	1.1	3.4	1.3	2.1	1.8
7	0.65	0.98	0.82	1.7	1.4	2.0	1.4	1.3	2.7	1.3	1.8	1.6
8	0.56	0.81	0.75	1.5	1.6	1.4	1.8	2.0	3.0	1.3	2.6	1.7
9	0.56	0.67	0.67	1.4	1.3	1.4	1.8	1.7	2.4	1.3	2.2	1.4
10	0.47	0.74	0.65	1.4	1.1	1.4	1.9	1.5	2.0	1.3	2.0	1.4
11	1.6	0.74	0.86	1.2	1.1	1.3	2.0	1.4	1.8	1.8	1.9	1.5
12	4.8	1.0	1.9	1.1	1.1	1.1	2.7	1.5	1.8	1.8	1.8	1.5
13	4.3	1.7	1.8	1.1	0.98	1.3	2.3	1.3	3.5	1.6	1.6	1.7
14	2.1	1.2	3.5	1.0	0.98	1.4	1.8	1.3	3.7	1.4	1.6	2.2
15	1.3	0.95	2.4	0.99	0.98	1.3	1.5	1.3	3.7	1.5	1.3	2.1
16	1.6	0.98	1.8	0.98	0.86	1.3	1.4	1.3	2.8	1.3	1.2	2.0
17	1.7	1.8	1.3	0.98	2.2	1.4	1.4	1.1	2.0	1.4	1.3	1.8
18	1.3	2.2	1.1	0.98	2.0	1.4	1.1	1.1	3.1	1.6	1.4	1.6
19	1.1	1.5	1.1	0.98	1.8	1.4	1.1	1.1	3.1	2.2	1.2	1.8
20	0.88	1.1	2.6	0.98	1.3	1.4	1.1	1.1	2.4	2.0	1.3	1.7
21	0.75	0.92	3.7	0.98	1.3	3.0	1.1	1.3	2.6	1.7	1.4	1.6
22	0.65	1.3	2.2	0.86	2.5	2.4	1.8	1.6	4.6	2.7	1.4	1.5
23	0.65	1.3	1.6	0.86	6.0	1.8	1.7	1.6	3.5	4.4	1.3	2.3
24	0.62	0.98	1.3	0.86	4.5	1.5	1.4	1.6	2.5	2.7	1.2	2.4
25	0.59	0.86	2.2	0.98	2.6	1.3	1.2	1.6	2.1	1.9	1.1	2.0
26	1.6	0.77	3.4	1.1	1.8	1.2	2.4	4.9	1.9	1.5	1.3	1.8
27	1.8	1.1	2.2	1.1	1.6	1.4	2.5	5.0	1.7	1.4	1.2	1.8
28	1.3	0.92	1.7	1.1	1.4	1.3	1.9	2.7	1.6	1.4	1.5	2.2
29	1.0	0.85	1.4	1.1	---	1.4	1.5	2.1	1.4	1.4	1.3	2.0
30	0.83	0.75	1.3	1.1	---	2.2	1.4	1.7	1.3	1.3	1.3	1.6
31	0.78	---	1.3	0.98	---	1.7	---	1.6	---	1.3	1.3	---
TOTAL	37.89	31.21	47.81	43.31	46.52	51.9	48.0	52.3	90.9	51.7	50.2	56.6
MEAN	1.22	1.04	1.54	1.40	1.66	1.67	1.60	1.69	3.03	1.67	1.62	1.89
MAX	4.8	2.2	3.7	4.2	6.0	3.0	2.7	5.0	8.5	4.4	2.8	2.8
MIN	0.47	0.67	0.56	0.86	0.86	1.1	1.1	1.1	1.3	1.3	1.1	1.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2003, BY WATER YEAR (WY)

MEAN	2.33	2.51	2.50	2.70	2.75	2.79	2.78	2.62	2.52	2.43	2.52	2.36
MAX	6.02	6.35	5.95	8.56	6.85	6.56	7.25	6.60	6.37	6.17	6.11	6.35
(WY)	(1980)	(1980)	(1980)	(1979)	(1979)	(1979)	(1980)	(1979)	(1979)	(1979)	(1979)	(1979)
MIN	0.38	0.30	0.29	0.27	0.29	0.46	0.45	0.41	0.67	0.63	0.59	0.63
(WY)	(1966)	(1967)	(1967)	(1967)	(1967)	(1967)	(1966)	(1967)	(1967)	(1968)	(1988)	(1965)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1950 - 2003	
ANNUAL TOTAL	511.02		608.34			
ANNUAL MEAN	1.40		1.67		2.57	
HIGHEST ANNUAL MEAN					6.32	1979
LOWEST ANNUAL MEAN					0.51	1967
HIGHEST DAILY MEAN	6.7	Aug 29	8.5	Jun 4	53	Jan 21, 1979
LOWEST DAILY MEAN	0.41	Aug 19	0.47	Oct 10	0.18	Dec 7, 1983
ANNUAL SEVEN-DAY MINIMUM	0.49	Aug 13	0.63	Oct 4	0.22	Dec 3, 1983
10 PERCENT EXCEEDS	2.2		2.7		4.2	
50 PERCENT EXCEEDS	1.3		1.4		2.4	
90 PERCENT EXCEEDS	0.70		0.83		0.86	

01303500 COLD SPRING BROOK AT COLD SPRING HARBOR, NY—Continued



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

01304000 NISSEQUOGUE RIVER NEAR SMITHTOWN, NY

LOCATION.--Lat 40°50'58", long 73°13'29", Suffolk County, Hydrologic Unit 02030201, on left bank 0.5 mi downstream from New Mill Pond, 1.0 mi southwest of Smithtown, and 1.5 mi southwest of Village of Smithtown Branch.

DRAINAGE AREA.--About 27 mi^2.

PERIOD OF RECORD.--October 1943 to current year.

REVISED RECORDS.--WSP1141: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 9.59 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good. Occasional regulation caused by cleaning of fish screens and trash racks at outlet of New Mill Pond on main stream and ponds on tributaries above station. Water-quality data included in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 952 ft^3/s, Jan. 22, 1979, gage height, 3.22 ft, result of dam failure; minimum, 16 ft^3/s, June 5, 6, 1967; minimum gage height, 0.46 ft, Feb. 9, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 121 ft^3/s, June 22, gage height, 1.44 ft; minimum, 23 ft^3/s, part or all of each day; Oct. 7-11, gage height, 0.54 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

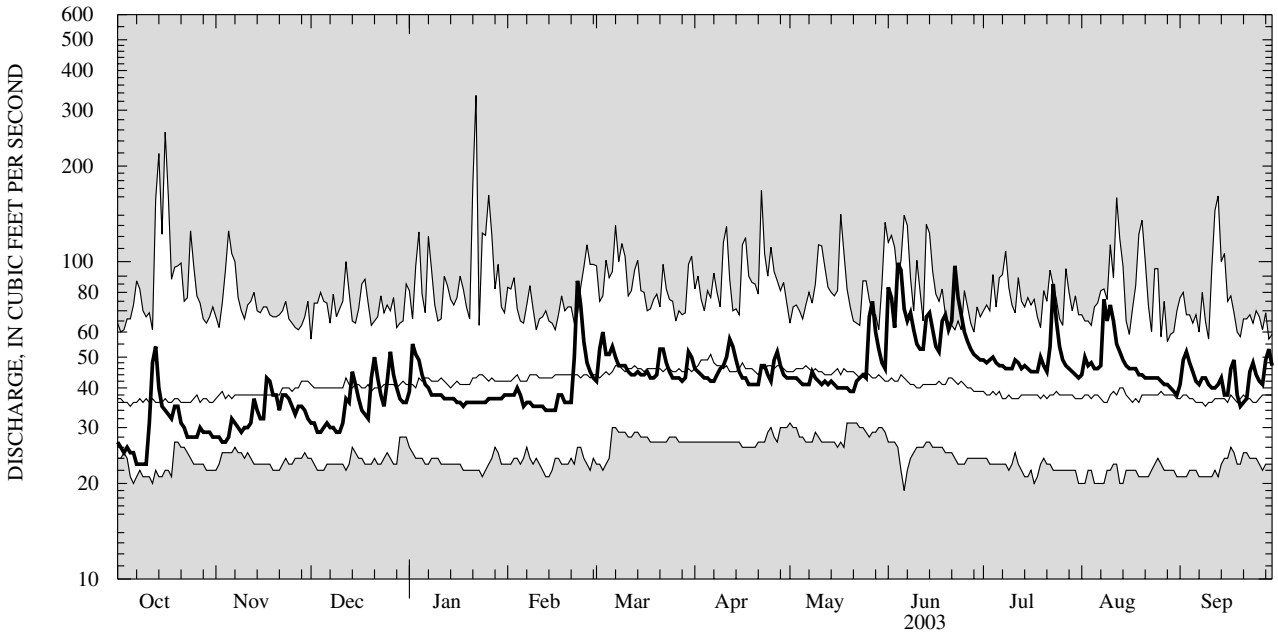
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	28	31	39	38	42	46	43	83	49	44	41
2	26	28	31	55	38	53	45	43	77	48	50	49
3	25	27	29	51	38	60	44	43	62	49	47	52
4	26	27	29	49	40	51	43	42	99	50	48	48
5	25	28	30	44	38	51	43	41	94	48	46	45
6	25	32	31	41	35	54	42	41	71	47	46	42
7	23	31	30	40	36	50	42	41	65	47	47	41
8	23	30	30	38	36	47	44	45	69	46	76	43
9	23	29	29	38	35	47	46	43	61	46	65	43
10	23	30	29	38	35	47	47	42	55	46	73	41
11	31	30	31	38	35	45	50	41	53	49	65	40
12	48	31	37	37	35	44	57	42	53	48	55	40
13	54	37	36	37	34	44	54	41	67	46	52	41
14	40	34	45	37	34	45	49	42	69	47	49	43
15	35	32	41	37	34	44	45	41	61	46	47	38
16	34	32	37	36	34	44	43	40	54	45	46	38
17	33	43	34	36	38	45	43	40	52	45	46	46
18	32	42	33	35	38	43	41	40	65	45	46	49
19	35	38	32	36	36	43	41	40	68	50	44	38
20	35	38	43	36	36	44	41	39	61	47	44	35
21	31	34	50	36	36	53	41	39	65	45	43	36
22	30	38	43	36	50	53	47	42	97	54	43	37
23	28	38	38	36	87	48	47	43	77	85	43	45
24	28	37	35	36	73	45	44	44	68	65	43	48
25	28	35	42	36	56	43	42	43	60	54	43	44
26	28	33	52	37	48	43	49	67	56	49	42	42
27	30	35	44	37	45	43	52	75	53	47	41	41
28	29	35	40	37	43	42	47	60	51	46	41	49
29	29	34	37	37	---	43	44	53	50	45	40	53
30	29	32	36	37	---	52	43	48	49	44	39	47
31	28	---	36	38	---	50	---	46	---	43	38	---
TOTAL	941	998	1,121	1,201	1,161	1,458	1,362	1,390	1,965	1,521	1,492	1,295
MEAN	30.4	33.3	36.2	38.7	41.5	47.0	45.4	44.8	65.5	49.1	48.1	43.2
MAX	54	43	52	55	87	60	57	75	99	85	76	53
MIN	23	27	29	35	34	42	41	39	49	43	38	35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2003, BY WATER YEAR (WY)

MEAN	38.3	40.2	42.0	43.7	44.6	47.1	48.4	46.3	43.6	39.8	39.5	38.3
MAX	76.1	70.0	63.8	75.5	66.2	70.1	73.7	71.3	69.2	70.4	59.0	55.3
(WY)	(1991)	(1956)	(1991)	(1979)	(1979)	(1979)	(1983)	(1998)	(1984)	(1984)	(1984)	(1984)
MIN	23.5	24.3	24.0	23.3	23.4	29.2	27.3	30.8	25.6	22.4	22.1	24.2
(WY)	(1967)	(1967)	(1967)	(1967)	(1967)	(1966)	(1966)	(1966)	(1966)	(1966)	(1966)	(1966)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1944 - 2003	
ANNUAL TOTAL	11,521		15,905			
ANNUAL MEAN	31.6		43.6		42.7	
HIGHEST ANNUAL MEAN					58.9	1991
LOWEST ANNUAL MEAN					27.0	1966
HIGHEST DAILY MEAN	60	Aug 30	99	Jun 4	334	Jan 22, 1979
LOWEST DAILY MEAN	21	Aug 19	23	Oct 7	19	Jun 6, 1967
ANNUAL SEVEN-DAY MINIMUM	22	Aug 15	24	Oct 4	21	Jul 31, 1966
10 PERCENT EXCEEDS	40		55		56	
50 PERCENT EXCEEDS	31		43		41	
90 PERCENT EXCEEDS	24		31		31	

01304000 NISSEQUOGUE RIVER NEAR SMITHTOWN, NY—Continued



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

01304500 PECONIC RIVER AT RIVERHEAD, NY

LOCATION.--Lat 40°54'49", long 72°41'14", Suffolk County, Hydrologic Unit 02030202, on right bank 200 ft downstream from Long Island Power Authority dam, 0.4 mi west of Riverhead, and 1.2 mi upstream from outlet of Sweezy Pond.

DRAINAGE AREA.--About 75 mi^2.

PERIOD OF RECORD.--June 1942 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6.54 ft above NGVD of 1929.

REMARKS.--Records good. Flow regulated by ponds above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 225 ft^3/s, Jan. 30, 1978, gage height, 1.20 ft, result of regulation; maximum gage height, 2.09 ft, Mar. 29, 1984, backwater from high tide; minimum discharge, 1.4 ft^3/s, Jan. 9, 1966, Jan. 31, 1967, Dec. 6, 1969, Jan. 27, 1972, Dec. 10, 11, 1977, all result of freezeup; minimum gage height, 0.10 ft, Jan. 31, 1967, Dec. 6, 1969, Jan. 27, 1972, all result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 175 ft^3/s, June 13, gage height, 1.07 ft; minimum, 9.8 ft^3/s, Dec.4, gage height, 0.25 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	21	28	37	e28	46	58	58	81	81	50	35
2	16	21	26	45	e28	52	57	58	79	77	38	37
3	16	20	25	47	e28	59	55	58	77	73	41	38
4	15	20	19	50	e30	58	55	57	89	73	43	40
5	15	20	27	49	e29	59	55	55	106	71	43	40
6	14	22	28	49	e28	62	54	55	114	68	41	39
7	14	23	26	48	e28	62	53	54	99	64	36	37
8	14	22	26	47	e28	59	55	56	103	64	47	35
9	13	22	25	45	e28	57	55	55	102	64	48	35
10	13	21	24	43	e28	57	57	51	101	63	48	34
11	15	22	25	42	e28	56	60	47	98	62	45	33
12	24	23	31	40	e28	55	69	46	97	61	44	32
13	28	28	30	38	e28	54	70	46	128	59	43	33
14	27	28	36	38	e28	54	70	45	116	58	42	35
15	24	27	37	37	e28	52	70	45	96	57	41	35
16	24	25	36	35	e28	50	75	43	82	57	41	39
17	24	31	35	35	e30	48	72	43	79	56	46	38
18	23	35	33	33	e30	48	69	42	87	55	48	36
19	21	33	32	32	e29	47	65	41	93	57	48	36
20	20	32	36	32	e28	46	62	41	90	55	47	37
21	19	30	40	e32	e28	53	60	41	89	54	46	36
22	19	32	38	e31	34	55	62	45	93	53	43	35
23	18	33	37	e30	49	54	62	48	91	56	42	35
24	18	31	36	e30	55	53	60	49	91	58	40	35
25	17	29	37	e29	54	52	58	48	90	58	38	35
26	24	28	41	e29	52	51	61	59	88	56	38	34
27	28	30	40	e29	51	51	66	70	85	54	38	33
28	26	30	39	e28	49	49	65	73	82	53	37	38
29	24	30	38	e28	---	49	63	78	80	51	37	45
30	23	28	37	e28	---	59	61	80	80	51	37	44
31	22	---	37	e28	---	60	---	77	---	50	36	---
TOTAL	615	797	1,005	1,144	940	1,667	1,854	1,664	2,786	1,869	1,312	1,094
MEAN	19.8	26.6	32.4	36.9	33.6	53.8	61.8	53.7	92.9	60.3	42.3	36.5
MAX	28	35	41	50	55	62	75	80	128	81	50	45
MIN	13	20	19	28	28	46	53	41	77	50	36	32

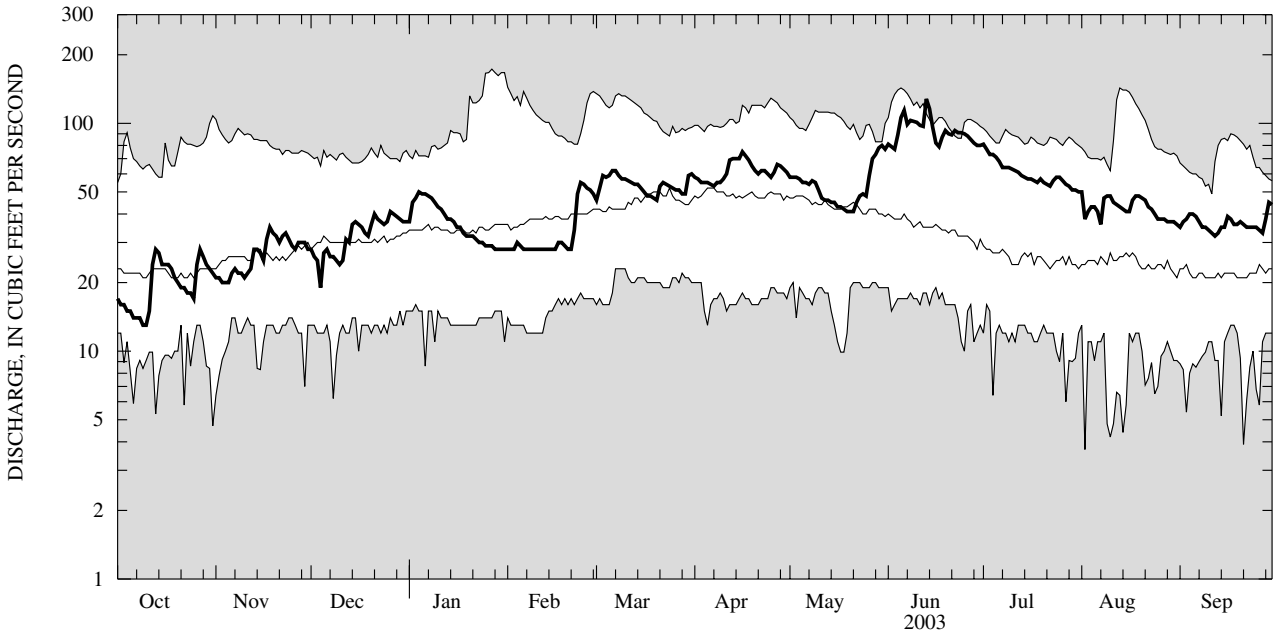
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2003, BY WATER YEAR (WY)

MEAN	26.3	30.1	34.2	38.5	41.8	48.1	51.4	46.4	41.1	30.8	28.6	25.7
MAX	69.6	80.6	63.8	106	105	109	96.4	96.3	104	84.7	83.4	62.6
(WY)	(1990)	(1990)	(1984)	(1979)	(1979)	(1979)	(1984)	(1958)	(1984)	(1984)	(1989)	(1954)
MIN	12.5	13.3	13.2	14.7	16.4	22.8	17.1	18.7	17.1	13.5	10.8	11.1
(WY)	(1967)	(1967)	(1967)	(1966)	(1967)	(1966)	(1966)	(1966)	(1986)	(1966)	(1966)	(1966)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1942 - 2003	
ANNUAL TOTAL	8,399		16,747			
ANNUAL MEAN	23.0		45.9		36.9	
HIGHEST ANNUAL MEAN					67.9	1984
LOWEST ANNUAL MEAN					16.1	1966
HIGHEST DAILY MEAN	41	Dec 26	128	Jun 13	173	Jan 27, 1979
LOWEST DAILY MEAN	11	Aug 22	13	Oct 9	3.7	Aug 2, 1944
ANNUAL SEVEN-DAY MINIMUM	11	Aug 22	14	Oct 4	5.8	Aug 9, 1966
10 PERCENT EXCEEDS	32		74		62	
50 PERCENT EXCEEDS	23		42		32	
90 PERCENT EXCEEDS	14		24		18	

e Estimated

01304500 PECONIC RIVER AT RIVERHEAD, NY—Continued



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

01304595 BIG FRESH POND NEAR NORTH SEA, NY

LOCATION.--Lat 40°55'19", long 72°25'18", Suffolk County, Hydrologic Unit 2030202, on northern shore at Town of Southampton boat launch in Emma Rose Elliston Park, near North Sea.

PERIOD OF RECORD.--July 2001 to current year.

GAGE.--Nonrecording gage read once monthly. Datum of gage is NGVD of 1929.

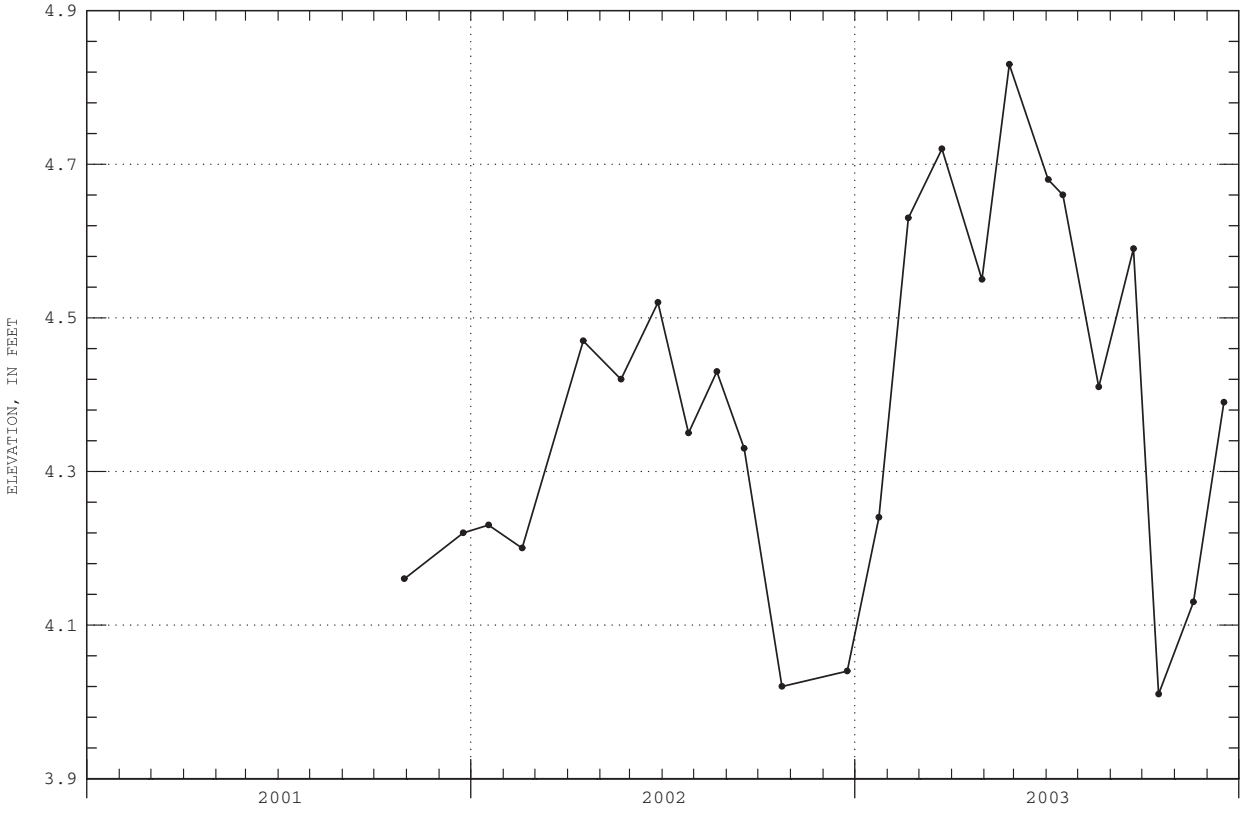
REMARKS.--Records excellent.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 4.83 ft, Feb. 25, 2003; minimum observed, 4.01 ft, July 17, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 4.83 ft, Feb. 25; minimum observed, 4.01 ft, July 17.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION
OCT 24	4.24	DEC 23	4.72	FEB 25	4.83	APR 17	4.66	JUN 23	4.59	AUG 19	4.13
NOV 21	4.63	JAN 30	4.55	APR 03	4.68	MAY 21	4.41	JUL 17	4.01	SEP 17	4.39



WATER YEAR MONTHLY ELEVATION MEASUREMENTS FOR PERIOD OF RECORD.

01304629 TROUT POND AT NOYACK, NY

LOCATION.--Lat 40°59'34", long 72°21'00", Suffolk County, Hydrologic Unit 2030202, on left wall of outlet structure in Town of Southampton Trout Pond Park, in Noyack.

PERIOD OF RECORD.--July 2001 to current year.

GAGE.--Nonrecording gage read once monthly. Datum of gage is NGVD of 1929.

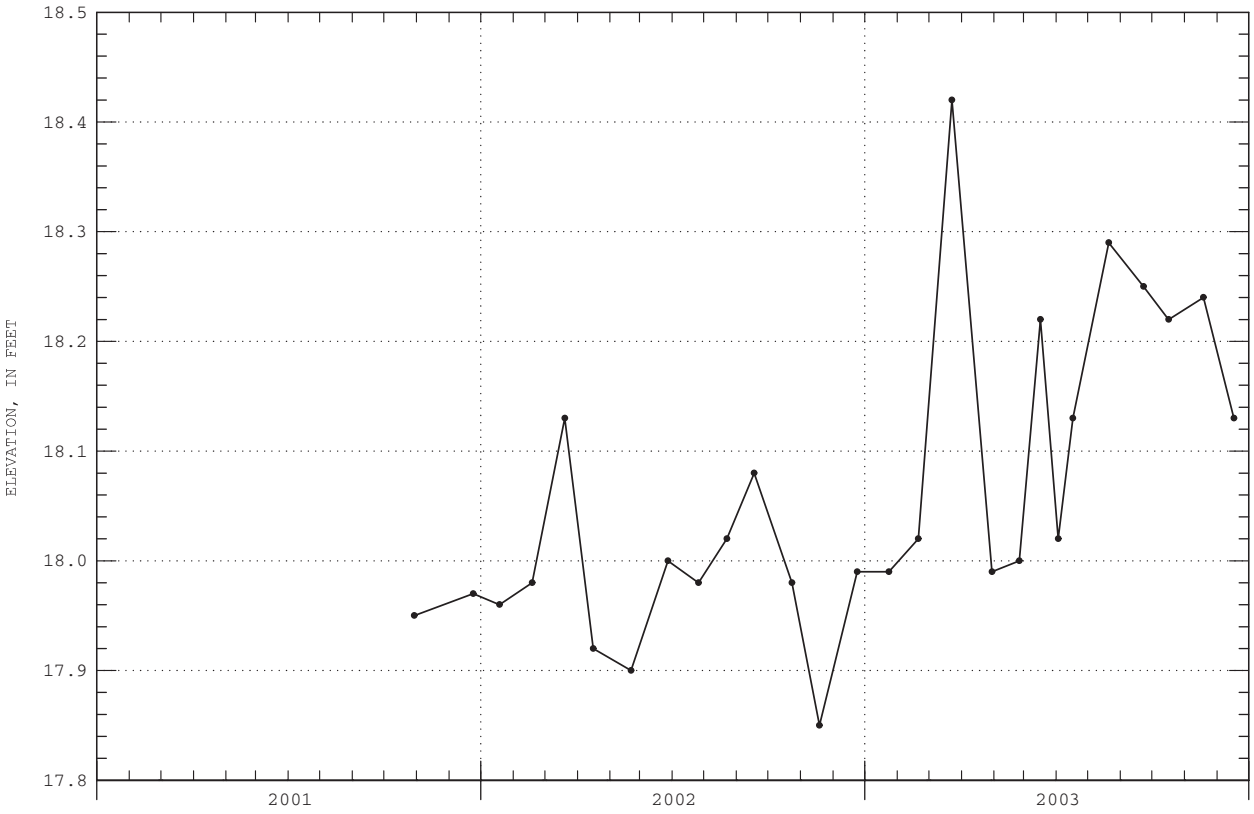
REMARKS.--Records excellent.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 18.42 ft, Dec. 23, 2002; minimum observed, 17.85 ft, Aug. 19, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 18.42 ft, Dec. 23; minimum observed, 17.99 ft, Oct. 24.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION
OCT 24	17.99	JAN 30	17.99	MAR 17	18.22	APR 17	18.13	JUN 23	18.25	AUG 19	18.24
NOV 21	18.02	FEB 25	18.00	APR 03	18.02	MAY 21	18.29	JUL 17	18.22	SEP 17	18.13
DEC 23	18.42										



WATER YEAR MONTHLY ELEVATION MEASUREMENTS FOR PERIOD OF RECORD.

01304655 LONG POND NEAR SAG HARBOR, NY

LOCATION.--Lat 40°58'20", long 72°17'39", Suffolk County, Hydrologic Unit 2030202, on southern shore at Town of Southampton boat launch in Long Pond Park, near Sag Harbor.

PERIOD OF RECORD.--August 2001 to current year. Precipitation records for August 2001 to current year at site 1.4 mi north- northeast are unpublished and available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.--Records excellent except those in July, which are good.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 13.96 ft, Aug. 8, 2003; minimum, 11.27 ft, Aug. 27, 28, 29, 2002.

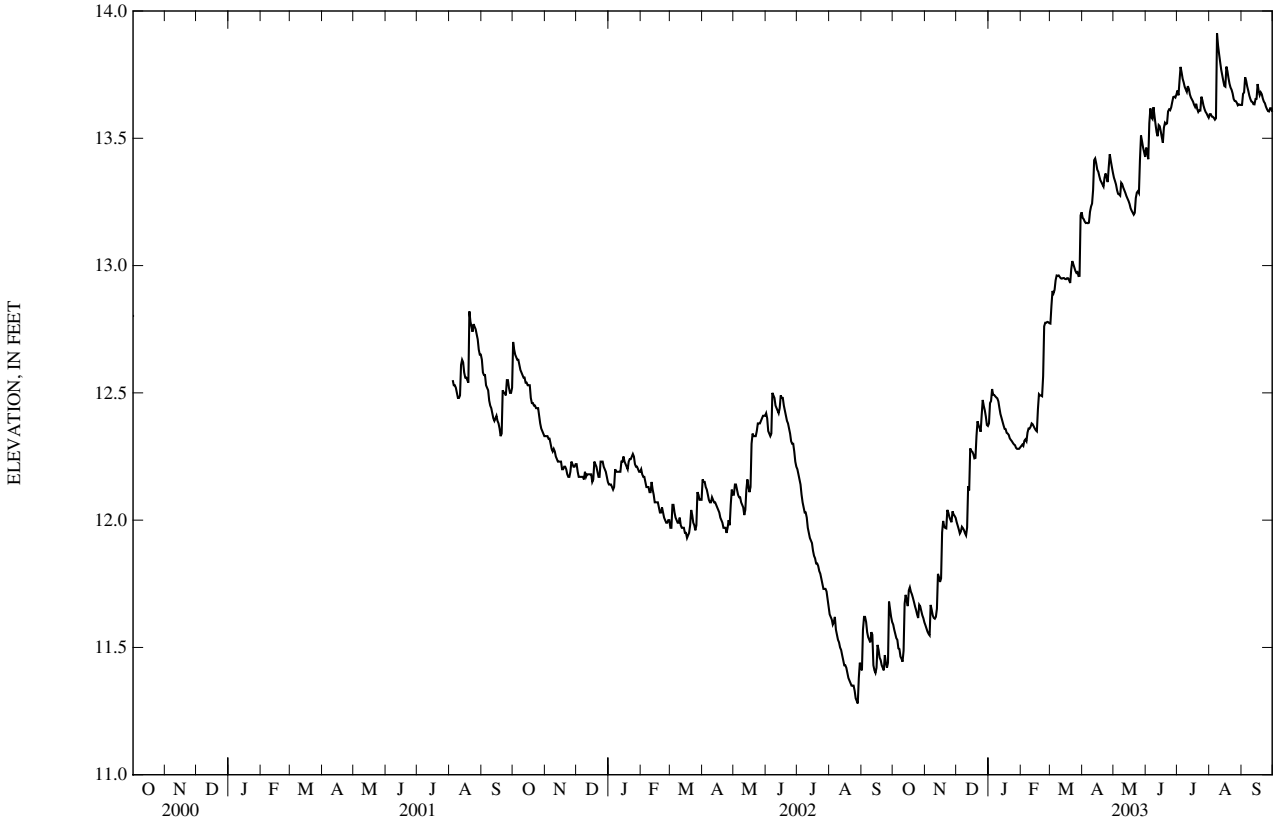
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 13.96 ft, Aug. 8; minimum, 11.44 ft, Oct 10, 11.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.59	11.59	11.99	12.38	12.29	12.77	13.19	13.35	13.46	13.69	13.59	13.63
2	11.57	11.57	11.98	12.46	12.30	12.84	13.18	13.33	13.44	13.67	13.59	13.67
3	11.55	11.56	11.96	12.47	12.29	12.90	13.17	13.32	13.42	13.73	13.59	13.68
4	11.54	11.55	11.95	12.52	12.31	12.89	13.17	13.30	13.56	13.78	13.58	13.74
5	11.53	11.55	11.96	12.49	12.32	12.90	13.17	13.28	13.62	13.76	13.58	13.73
6	11.50	11.67	11.97	12.49	12.31	12.94	13.17	13.28	13.58	13.73	13.57	13.70
7	11.49	11.65	11.97	12.49	12.34	12.96	13.17	13.27	13.58	13.72	13.58	13.69
8	11.46	11.63	11.96	12.48	12.36	12.96	13.21	13.33	13.62	13.70	13.91	13.67
9	11.46	11.62	11.95	12.48	12.36	12.96	13.23	13.32	13.59	13.69	13.86	13.65
10	11.44	11.61	11.94	12.47	12.37	12.96	13.24	13.31	13.55	13.68	13.83	13.64
11	11.49	11.62	11.97	12.44	12.38	12.95	13.30	13.30	13.52	13.70	13.80	13.64
12	11.67	11.65	12.13	12.42	12.38	12.95	13.41	13.29	13.51	13.69	13.77	13.63
13	11.71	11.79	12.12	12.40	12.37	12.95	13.42	13.27	13.55	13.67	13.75	13.63
14	11.68	11.78	12.28	12.39	12.36	12.95	13.40	13.26	13.55	13.66	13.73	13.65
15	11.66	11.76	12.27	12.37	12.35	12.95	13.38	13.25	13.53	13.65	13.71	13.66
16	11.72	11.77	12.27	12.36	12.35	12.95	13.37	13.24	13.50	13.64	13.70	13.71
17	11.74	11.95	12.26	12.36	12.43	12.95	13.35	13.23	13.48	13.63	13.78	13.69
18	11.72	12.00	12.24	12.34	12.49	12.95	13.34	13.22	13.54	13.62	13.76	13.67
19	11.71	11.98	12.24	12.34	12.49	12.94	13.33	13.21	13.56	13.64	13.74	13.68
20	11.69	11.97	12.33	12.33	12.49	12.93	13.32	13.20	13.56	13.62	13.71	13.67
21	11.68	11.97	12.39	12.32	12.49	12.99	13.31	13.21	13.56	13.60	13.70	13.66
22	11.66	12.04	12.37	12.32	12.57	13.02	13.35	13.27	13.61	13.61	13.69	13.64
23	11.65	12.03	12.36	12.31	12.76	13.01	13.36	13.29	13.61	13.61	13.68	13.64
24	11.63	12.01	12.35	12.30	12.78	12.99	13.35	13.29	13.61	13.66	13.65	13.62
25	11.62	12.00	12.41	12.30	12.78	12.98	13.33	13.28	13.62	13.65	13.65	13.61
26	11.67	11.99	12.47	12.29	12.78	12.97	13.39	13.42	13.64	13.63	13.65	13.61
27	11.66	12.03	12.45	12.28	12.78	12.97	13.44	13.51	13.66	13.61	13.64	13.61
28	11.64	12.02	12.43	12.28	12.77	12.96	13.41	13.49	13.66	13.60	13.63	13.62
29	11.63	12.02	12.41	12.28	---	12.96	13.39	13.46	13.66	13.60	13.63	13.62
30	11.61	12.01	12.37	12.28	---	13.20	13.37	13.45	13.67	13.59	13.63	13.60
31	11.60	---	12.37	12.29	---	13.21	---	13.43	---	13.58	13.63	---
MEAN	11.61	11.81	12.20	12.38	12.47	12.96	13.31	13.31	13.57	13.66	13.69	13.66
MAX	11.74	12.04	12.47	12.52	12.78	13.21	13.44	13.51	13.67	13.78	13.91	13.74
MIN	11.44	11.55	11.94	12.28	12.29	12.77	13.17	13.20	13.42	13.58	13.57	13.60
MED	11.63	11.78	12.26	12.36	12.37	12.95	13.33	13.29	13.56	13.65	13.68	13.65

CAL YR	2002	MEAN 11.95	MAX 12.50	MIN 11.28	MED 12.01
WTR YR	2003	MEAN 12.89	MAX 13.91	MIN 11.44	MED 13.17

01304655 LONG POND NEAR SAG HARBOR, NY—Continued



01304678 FORT POND AT MONTAUK, NY

LOCATION.--Lat 41°02'11", long 71°56'49", Suffolk County, Hydrologic Unit 2030202, on southeastern shore at State of New York boat launch on South Erie Ave., in Montauk.

PERIOD OF RECORD.--July 2001 to current year.

GAGE.--Nonrecording gage read once monthly. Datum of gage is NGVD of 1929.

REMARKS.--Records excellent.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 4.87 ft, June 23, 2003; minimum observed, 2.48 ft, Aug. 19, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 4.87 ft, June 23; minimum observed, 2.85 ft, Oct. 24.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION
OCT 24	2.85	DEC 23	3.70	MAR 17	4.41	APR 17	4.55	JUN 23	4.87	AUG 19	3.80
NOV 21	3.36	JAN 30	3.70	APR 03	4.34	MAY 21	4.29	JUL 17	4.41	SEP 17	3.68



WATER YEAR MONTHLY ELEVATION MEASUREMENTS FOR PERIOD OF RECORD.

01304702 GEORGICA POND AT MIDHAMPTON, NY

LOCATION.--Lat 40°57'00", long 72°14'22", Suffolk County, Hydrologic Unit 2030202, on northern shore at State of New York rest area on Montauk Highway, in Midhampton.

PERIOD OF RECORD.--July 2001 to current year.

GAGE.--Water-stage recorder. Prior to Oct. 25, 2001, nonrecording gage read once monthly. Datum of gage is NGVD of 1929.

REMARKS.--Records excellent except those in April, May, June, and July, which are good; and in December, which are fair. During spring and fall, pond is opened to Atlantic Ocean to regulate stage for fisheries management, flood control, and sanitary improvement.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 7.20 ft, Jun., 21, 2003; minimum, 2.08 ft, Nov. 23, 2002.

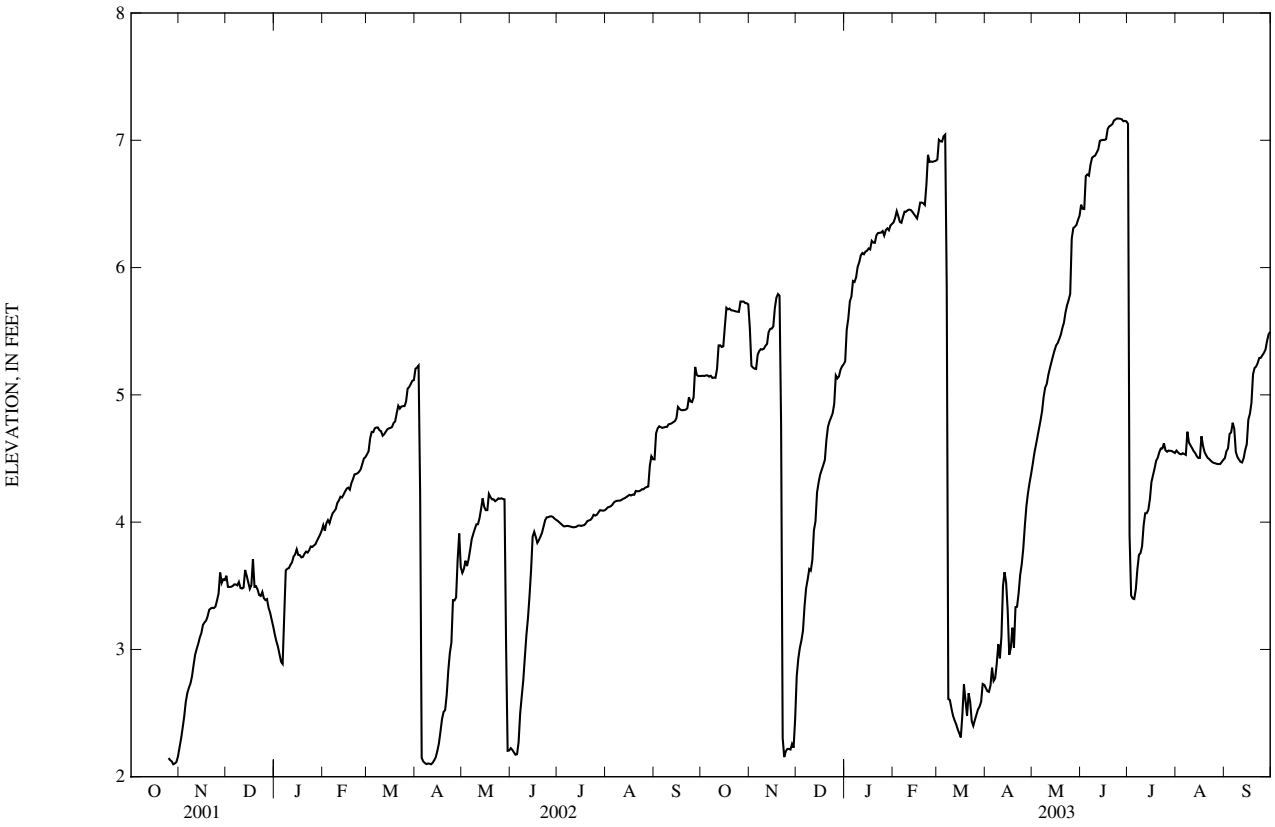
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 7.20 ft, Jun. 21; minimum, 2.08 ft, Nov. 23.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.15	5.52	2.79	5.26	6.36	6.85	2.70	4.45	6.49	7.13	4.56	4.50
2	5.15	5.23	2.93	5.51	6.39	7.00	2.67	4.54	6.46	3.90	4.55	4.56
3	5.15	5.21	3.01	5.60	6.44	6.99	2.67	4.60	6.46	3.42	4.54	4.58
4	5.15	5.21	3.07	5.73	6.40	6.99	2.72	4.67	6.72	3.40	4.53	4.69
5	5.15	5.20	3.15	5.77	6.36	7.03	2.86	4.73	6.73	3.40	4.54	4.71
6	5.14	5.31	3.34	5.89	6.35	7.04	2.75	4.80	6.72	3.47	4.54	4.78
7	5.15	5.34	3.48	5.89	6.40	5.84	2.77	4.87	6.81	3.63	4.53	4.73
8	5.13	5.36	3.55	5.92	6.44	2.61	2.89	4.98	6.86	3.74	4.71	4.55
9	5.14	5.36	3.63	6.01	6.44	2.60	3.04	5.06	6.87	3.76	4.63	4.51
10	5.13	5.36	3.62	6.04	6.45	2.54	2.93	5.09	6.88	3.81	4.60	4.49
11	5.20	5.39	3.70	6.10	6.46	2.48	3.10	5.16	6.90	3.98	4.58	4.47
12	5.39	5.40	3.94	6.11	6.45	2.44	3.50	5.21	6.93	4.07	4.56	4.47
13	5.39	5.49	4.01	6.11	6.44	2.41	3.61	5.26	7.00	4.07	4.54	4.50
14	5.38	5.52	4.23	6.13	6.42	2.37	3.53	5.31	7.00	4.10	4.52	4.57
15	5.38	5.52	4.31	6.13	6.40	2.34	3.31	5.35	7.00	4.18	4.50	4.61
16	5.54	5.54	4.37	6.15	6.39	2.31	2.96	5.39	7.00	4.32	4.50	4.80
17	5.68	5.68	4.41	6.14	6.44	2.49	3.01	5.41	7.01	4.37	4.67	4.85
18	5.67	5.76	4.45	6.21	6.51	2.72	3.17	5.44	7.09	4.42	4.60	4.94
19	5.68	5.79	4.49	6.20	6.51	2.60	3.01	5.47	7.11	4.48	4.55	5.16
20	5.67	5.78	4.65	6.19	6.51	2.48	3.33	5.53	7.12	4.50	4.53	5.21
21	5.66	4.76	4.75	6.25	6.49	2.66	3.34	5.57	7.13	4.55	4.51	5.22
22	5.66	2.30	4.79	6.27	6.65	2.59	3.44	5.65	7.16	4.58	4.50	5.25
23	5.66	2.15	4.82	6.27	6.89	2.44	3.59	5.70	7.16	4.58	4.48	5.29
24	5.65	2.20	4.86	6.27	6.83	2.40	3.67	5.74	7.17	4.62	4.47	5.29
25	5.65	2.22	4.93	6.29	6.83	2.45	3.80	5.79	7.17	4.56	4.47	5.31
26	5.73	2.22	5.15	6.25	6.83	2.49	3.97	6.23	7.17	4.55	4.46	5.33
27	5.73	2.21	5.13	6.29	6.84	2.53	4.13	6.31	7.17	4.56	4.46	5.36
28	5.73	2.26	5.14	6.31	6.84	2.55	4.23	6.32	7.15	4.56	4.46	5.42
29	5.72	2.23	5.20	6.29	---	2.59	4.31	6.34	7.15	4.56	4.46	5.48
30	5.72	2.46	5.22	6.33	---	2.73	4.38	6.37	7.15	4.55	4.47	5.49
31	5.71	---	5.24	6.34	---	2.72	---	6.41	---	4.54	4.49	---
MEAN	5.45	4.47	4.21	6.07	6.53	3.49	3.31	5.41	6.96	4.27	4.53	4.90
MAX	5.73	5.79	5.24	6.34	6.89	7.04	4.38	6.41	7.17	7.13	4.71	5.49
MIN	5.13	2.15	2.79	5.26	6.35	2.31	2.67	4.45	6.46	3.40	4.46	4.47
MED	5.54	5.33	4.37	6.14	6.45	2.59	3.24	5.39	7.00	4.37	4.53	4.79

CAL YR	2002	MEAN	4.17	MAX	5.79	MIN	2.10	MED 4.18
WTR YR	2003	MEAN	4.95	MAX	7.17	MIN	2.15	MED 5.14

01304702 GEORGICA POND AT MIDHAMPTON, NY—Continued



01304705 GEORGICA POND NEAR APAQUOGUE, NY

LOCATION.--Lat 40°56'00", long 72°13'30", Suffolk County, Hydrologic Unit 2030202, on southeastern shore at Village of East Hampton preserve on West End Road, near Apaquogue.

PERIOD OF RECORD.--June to September 2003.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.--Records excellent except those in June and July, which are poor. During spring and fall, pond is opened to Atlantic Ocean to regulate stage for fisheries management, flood control, and sanitary improvement.

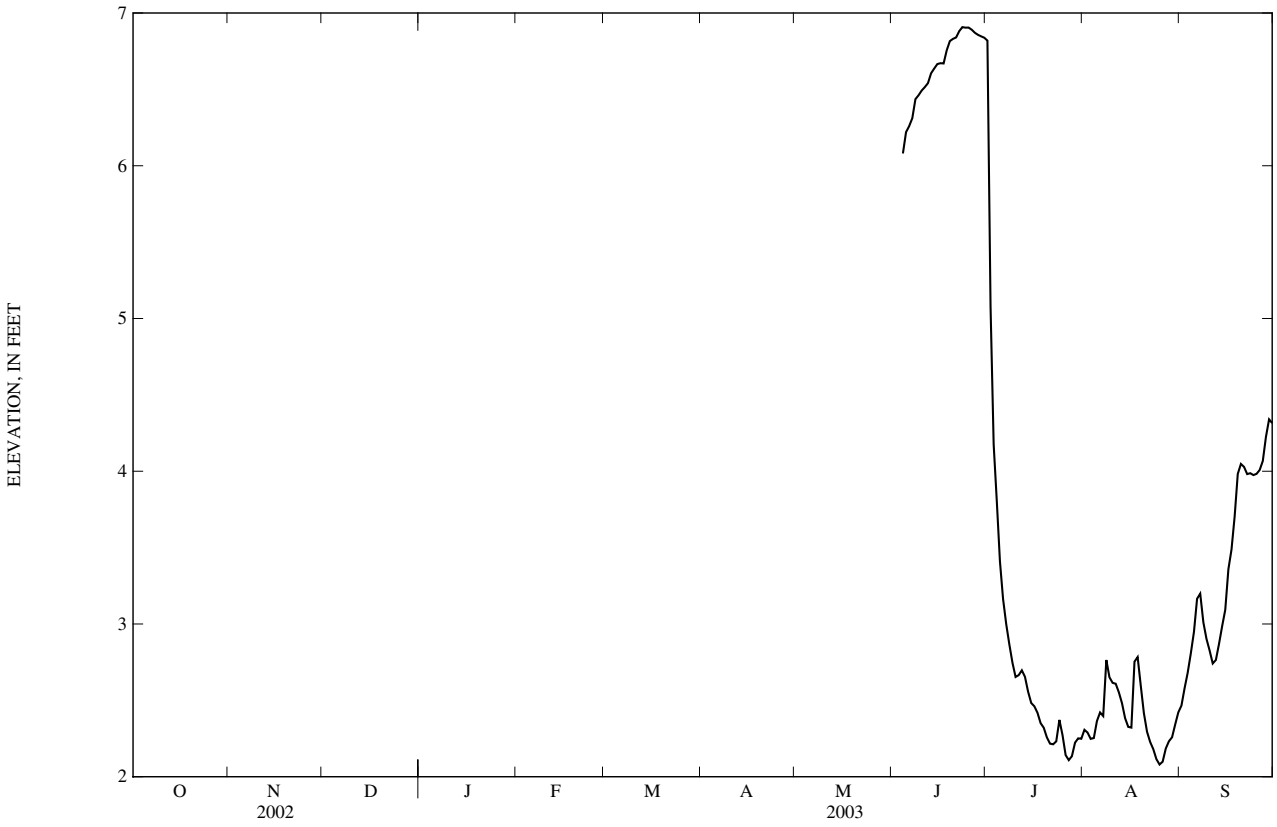
EXTREMES FOR CURRENT PERIOD.--June to September 2003: maximum elevation, 6.92 ft, June 23, 24; minimum, 2.00 ft, Aug. 25, 26.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	6.82	2.31	2.47
2	---	---	---	---	---	---	---	---	---	5.08	2.29	2.58
3	---	---	---	---	---	---	---	---	---	4.18	2.25	2.68
4	---	---	---	---	---	---	---	---	6.08	3.80	2.25	2.81
5	---	---	---	---	---	---	---	---	6.22	3.41	2.36	2.95
6	---	---	---	---	---	---	---	---	6.26	3.16	2.42	3.17
7	---	---	---	---	---	---	---	---	6.31	3.00	2.40	3.20
8	---	---	---	---	---	---	---	---	6.44	2.87	2.76	3.01
9	---	---	---	---	---	---	---	---	6.46	2.75	2.65	2.90
10	---	---	---	---	---	---	---	---	6.49	2.65	2.61	2.83
11	---	---	---	---	---	---	---	---	6.51	2.67	2.61	2.74
12	---	---	---	---	---	---	---	---	6.54	2.70	2.55	2.76
13	---	---	---	---	---	---	---	---	6.61	2.65	2.48	2.87
14	---	---	---	---	---	---	---	---	6.64	2.56	2.38	2.98
15	---	---	---	---	---	---	---	---	6.67	2.48	2.33	3.09
16	---	---	---	---	---	---	---	---	6.67	2.46	2.32	3.36
17	---	---	---	---	---	---	---	---	6.67	2.42	2.75	3.49
18	---	---	---	---	---	---	---	---	6.76	2.35	2.78	3.70
19	---	---	---	---	---	---	---	---	6.82	2.32	2.60	3.98
20	---	---	---	---	---	---	---	---	6.83	2.26	2.42	4.05
21	---	---	---	---	---	---	---	---	6.84	2.22	2.29	4.03
22	---	---	---	---	---	---	---	---	6.88	2.21	2.23	3.98
23	---	---	---	---	---	---	---	---	6.91	2.23	2.18	3.99
24	---	---	---	---	---	---	---	---	6.90	2.37	2.12	3.97
25	---	---	---	---	---	---	---	---	6.90	2.27	2.08	3.98
26	---	---	---	---	---	---	---	---	6.89	2.14	2.10	4.01
27	---	---	---	---	---	---	---	---	6.87	2.11	2.18	4.07
28	---	---	---	---	---	---	---	---	6.86	2.13	2.23	4.22
29	---	---	---	---	---	---	---	---	6.85	2.22	2.26	4.34
30	---	---	---	---	---	---	---	---	6.84	2.25	2.34	4.32
31	---	---	---	---	---	---	---	---	---	2.25	2.42	---
MEAN	---	---	---	---	---	---	---	---	6.66	2.81	2.39	3.42
MAX	---	---	---	---	---	---	---	---	6.91	6.82	2.78	4.34
MIN	---	---	---	---	---	---	---	---	6.08	2.11	2.08	2.47
MED	---	---	---	---	---	---	---	---	6.67	2.46	2.34	3.28

WTR YR 2003 MEAN 3.72 MAX 6.91 MIN 2.08 MED 2.81

01304705 GEORGICA POND NEAR APAQUOGUE, NY—Continued



01304738 MILL POND AT WATER MILL, NY

LOCATION.--Lat 40°54'35", long 72°21'47", Suffolk County, Hydrologic Unit 2030202, on southwestern shore at Town of Southampton boat launch on Old Mill Road, in Water Mill.

PERIOD OF RECORD.--July 2001 to current year.

GAGE.--Nonrecording gage read once monthly. Datum of gage is NGVD of 1929.

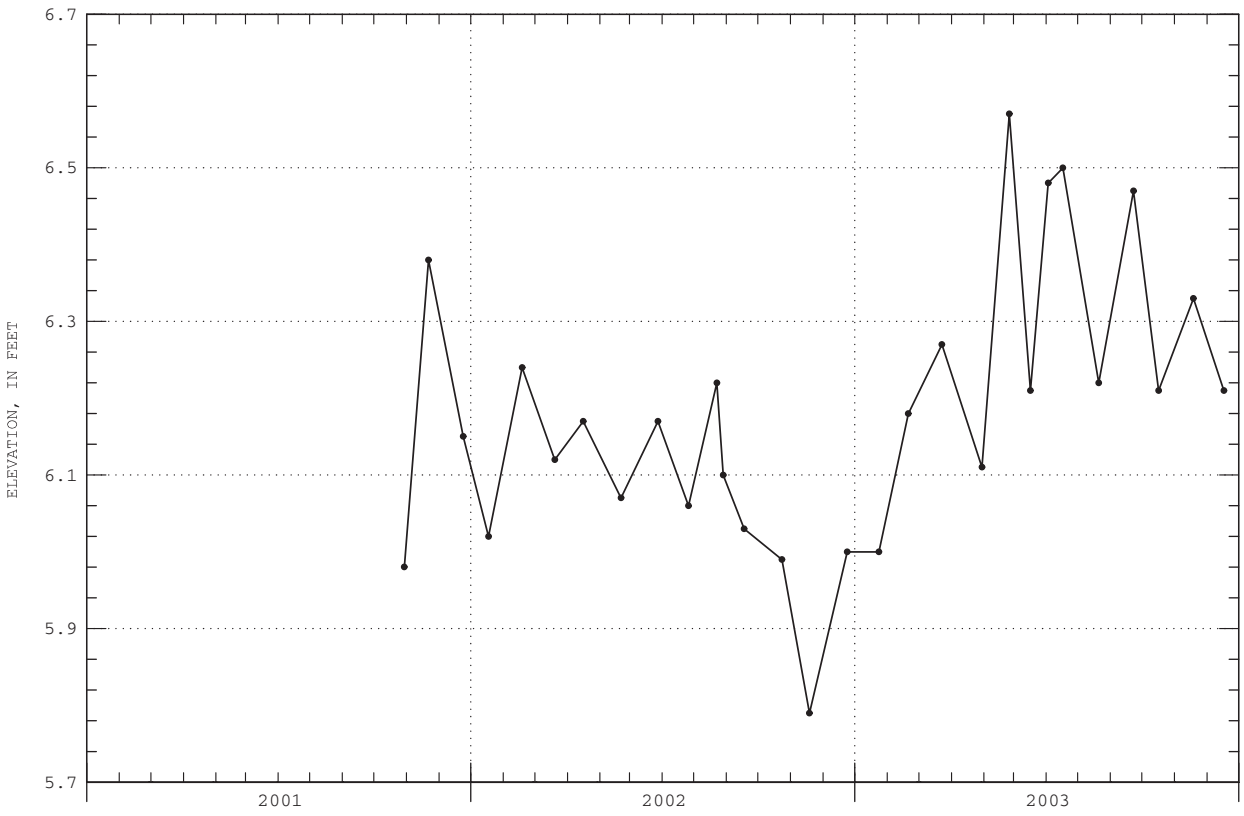
REMARKS.--Records excellent.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 6.57 ft, Feb. 25, 2003; minimum observed, 5.79 ft, Aug. 19, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 6.57 ft, Feb. 25; minimum observed, 6.00 ft, Oct. 24.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION
OCT 24	6.00	JAN 30	6.11	MAR 17	6.21	APR 17	6.50	JUN 23	6.47	AUG 19	6.33
NOV 21	6.18	FEB 25	6.57	APR 03	6.48	MAY 21	6.22	JUL 17	6.21	SEP 17	6.21
DEC 23	6.27										



WATER YEAR MONTHLY ELEVATION MEASUREMENTS FOR PERIOD OF RECORD.

01305000 CARMANS RIVER AT YAPHANK, NY

LOCATION.--Lat 40°49'49", long 72°54'24", Suffolk County, Hydrologic Unit 02030202, on left bank 50 ft upstream from Long Island Railroad Bridge, 0.6 mi northeast of Yaphank Station, and 0.7 mi southeast of Yaphank.

DRAINAGE AREA.--About 71 mi^2.

PERIOD OF RECORD.--June 1942 to current year.

REVISED RECORDS.--WSP 1141: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 17.95 ft above NGVD of 1929. Prior to Feb. 2, 1967, at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Some regulation by two lakes above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 143 ft^3/s, Aug. 11, 1989, gage height, 2.09 ft; minimum, 2.8 ft^3/s, Feb. 24, 1967, gage height, 0.73 ft, result of temporary construction upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 67 ft^3/s, Aug. 17, gage height, 1.68 ft; minimum, 13 ft^3/s, part or all of each day Oct. 25, 26, 31, Nov. 1-6, 8-12, Dec. 4; minimum gage height, 1.02 ft, part or all of each day Oct. 9-11.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

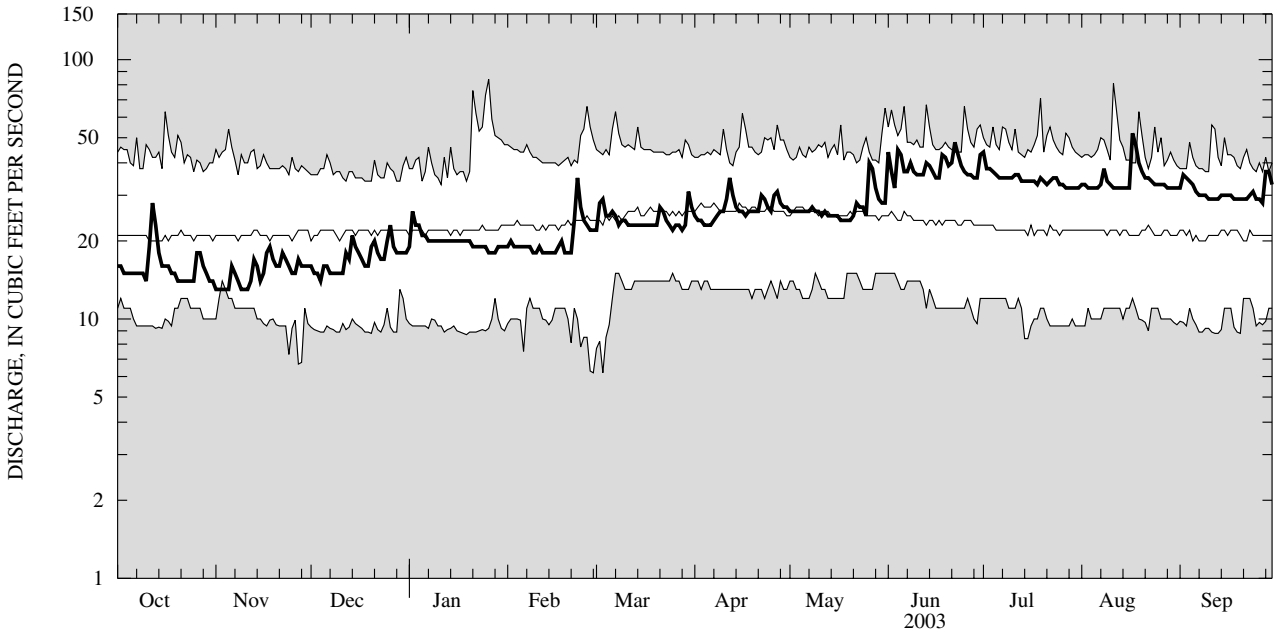
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	13	16	19	19	22	25	26	44	44	33	32
2	16	13	15	26	20	28	24	26	37	38	33	36
3	15	13	15	23	19	29	24	26	32	38	32	35
4	15	13	14	23	19	25	23	26	45	37	32	34
5	15	13	16	21	19	25	23	26	43	36	32	33
6	15	16	16	21	19	26	23	26	37	35	32	31
7	15	15	15	20	19	25	24	26	37	35	33	30
8	15	14	15	20	19	23	25	27	40	35	38	30
9	15	13	15	20	18	24	26	26	37	35	34	30
10	14	13	15	20	18	24	26	26	36	35	33	29
11	19	13	15	20	19	23	29	25	36	36	32	29
12	28	14	18	20	18	23	35	26	36	36	32	29
13	23	17	17	20	18	23	30	25	40	34	32	29
14	18	16	21	20	18	23	27	25	39	34	32	30
15	16	14	19	20	18	23	26	25	37	34	32	30
16	16	15	18	20	18	23	26	25	35	34	32	30
17	16	18	17	20	19	23	25	24	35	34	52	30
18	15	19	16	20	20	23	26	24	43	33	47	29
19	15	17	16	20	18	23	26	24	42	35	40	29
20	14	16	19	20	18	23	26	24	39	34	37	29
21	14	16	20	19	18	27	26	25	40	33	35	29
22	14	18	18	19	24	26	30	28	48	34	35	29
23	14	17	17	19	35	24	29	27	43	35	34	30
24	14	16	17	19	27	23	27	27	39	35	33	31
25	14	15	20	19	24	22	26	25	37	33	33	29
26	18	15	23	18	23	23	30	40	36	33	33	29
27	18	17	19	18	22	23	31	38	36	32	33	28
28	16	16	18	18	22	22	28	32	35	32	32	37
29	15	16	18	19	---	23	27	29	35	32	32	37
30	14	16	18	19	---	31	27	28	43	32	32	33
31	14	---	18	19	---	27	---	28	---	32	32	---
TOTAL	496	457	534	619	568	752	800	835	1,162	1,075	1,064	926
MEAN	16.0	15.2	17.2	20.0	20.3	24.3	26.7	26.9	38.7	34.7	34.3	30.9
MAX	28	19	23	26	35	31	35	40	48	44	52	37
MIN	14	13	14	18	18	22	23	24	32	32	32	28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2003, BY WATER YEAR (WY)

MEAN	21.7	22.0	22.4	23.3	24.3	25.7	26.9	26.3	25.4	23.5	23.1	22.0
MAX	38.6	37.9	35.0	42.6	44.0	45.4	42.5	41.8	49.2	46.6	40.9	38.8
(WY)	(1980)	(1956)	(1980)	(1979)	(1979)	(1979)	(1984)	(1984)	(1984)	(1984)	(1984)	(1984)
MIN	10.9	10.6	9.48	9.35	9.74	13.7	13.1	14.1	12.8	10.5	10.5	10.6
(WY)	(1967)	(1967)	(1967)	(1967)	(1967)	(1967)	(1966)	(1966)	(1995)	(1966)	(1966)	(1966)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1942 - 2003	
ANNUAL TOTAL	6,425		9,288			
ANNUAL MEAN	17.6		25.4		23.9	
HIGHEST ANNUAL MEAN					37.7	1979
LOWEST ANNUAL MEAN					12.9	1967
HIGHEST DAILY MEAN	28	May 18	52	Aug 17	84	Jan 26, 1978
LOWEST DAILY MEAN	13	Aug 13	13	Nov 1	6.2	Feb 28, 1967
ANNUAL SEVEN-DAY MINIMUM	13	Oct 30	13	Oct 30	7.4	Feb 25, 1967
10 PERCENT EXCEEDS	22		36		34	
50 PERCENT EXCEEDS	17		25		23	
90 PERCENT EXCEEDS	15		15		16	

01305000 CARMANS RIVER AT YAPHANK, NY—Continued



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

01305500 SWAN RIVER AT EAST PATCHOGUE, NY

LOCATION.--Lat 40°46'01", long 72°59'39", Suffolk County, Hydrologic Unit 02030202, on left bank 94 ft downstream from Montauk Highway in East Patchogue, 200 ft downstream from outlet of Swan Lake, and 1.2 mi upstream from mouth.

DRAINAGE AREA.--About 8.6 mi^2.

PERIOD OF RECORD.--October 1946 to current year.

REVISED RECORDS.--WSP 1622: Drainage area. WDR NY-81-2: 1952-77 (M), 1978 1979-80 (M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2.84 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated at outlet of Swan Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77 ft^3/s, Aug. 24 1990, gage height, 2.71 ft; minimum, 0.06 ft^3/s, Sept. 2, 1964, gage height, 0.02 ft, result of regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 57 ft^3/s, May 26, June 1, gage height, 1.95 ft; minimum, 7.7 ft^3/s, part of each day Oct. 1-10, minimum gage height, 0.53 ft, Nov. 7,8.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

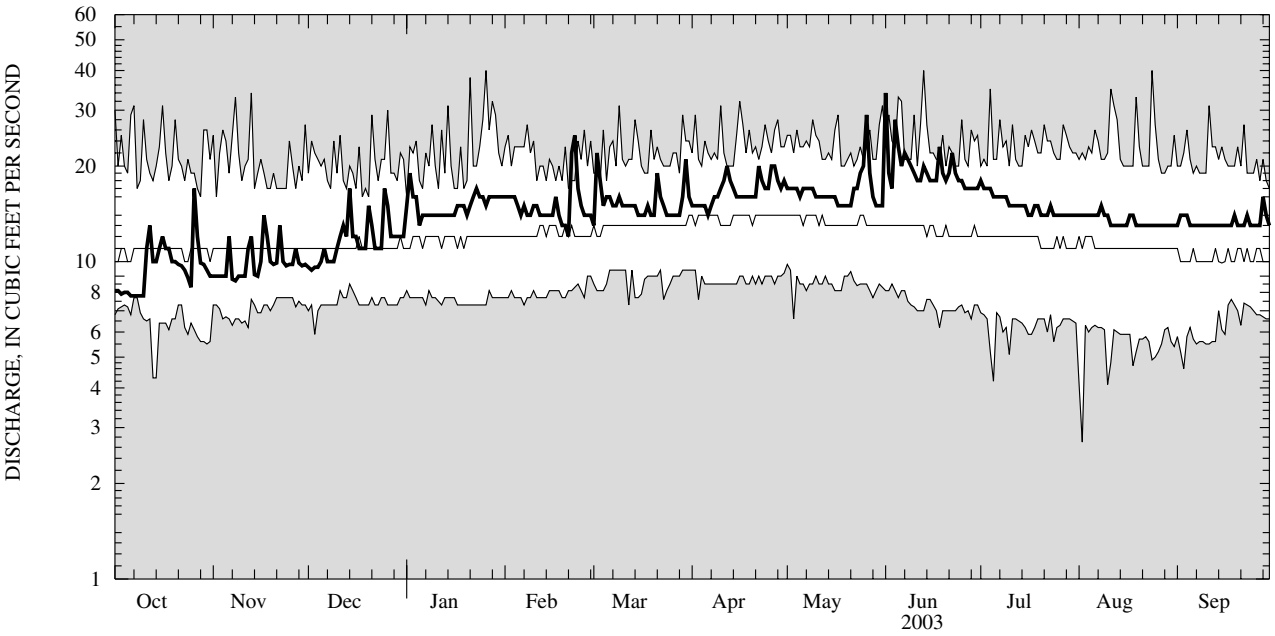
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	9.0	9.6	15	16	13	15	17	34	18	14	13
2	8.1	9.0	9.4	19	16	22	15	17	19	17	14	14
3	7.9	9.0	9.6	16	16	18	15	17	17	17	14	14
4	8.0	9.0	9.6	16	16	15	15	17	28	17	14	14
5	8.0	9.0	10	13	15	16	15	16	23	16	14	13
6	7.8	12	11	14	14	16	14	17	20	16	14	13
7	7.8	8.8	10	14	15	15	15	17	22	16	14	13
8	7.8	8.7	10	14	14	15	16	17	21	16	15	13
9	7.8	9.0	10	14	14	16	16	17	20	16	14	13
10	7.8	9.0	11	14	15	15	17	16	19	15	14	13
11	11	9.0	12	14	15	15	18	16	18	15	13	13
12	13	11	13	14	14	15	20	16	18	15	13	13
13	10	12	12	14	14	15	18	16	20	15	13	13
14	10	9.1	17	14	14	15	17	16	19	15	13	13
15	11	9.0	12	14	14	14	16	16	18	15	13	13
16	12	10	12	14	14	14	16	16	18	14	13	13
17	11	14	11	15	16	14	16	15	18	14	14	13
18	11	12	11	15	14	15	16	15	23	15	14	13
19	10	10	11	15	13	14	16	15	19	15	13	14
20	10	9.8	15	14	13	14	16	15	18	14	13	13
21	9.8	9.9	13	15	12	19	16	15	19	14	13	13
22	9.7	13	11	16	22	16	20	17	22	14	13	13
23	9.4	10	11	17	25	15	18	17	19	15	13	14
24	8.9	9.7	11	16	17	14	17	19	18	14	13	13
25	8.3	9.8	17	16	15	14	17	20	18	14	13	13
26	17	9.8	15	15	14	14	20	29	17	14	13	13
27	12	11	12	16	14	14	20	19	17	14	13	13
28	9.9	9.9	12	16	14	14	18	16	17	14	13	16
29	9.8	9.7	12	16	---	16	17	15	17	14	13	14
30	9.4	9.8	12	16	---	21	18	15	17	14	13	13
31	9.0	---	12	16	---	16	---	15	---	14	13	---
TOTAL	301.3	301.0	364.2	467	425	479	503	521	593	466	416	399
MEAN	9.72	10.0	11.7	15.1	15.2	15.5	16.8	16.8	19.8	15.0	13.4	13.3
MAX	17	14	17	19	25	22	20	29	34	18	15	16
MIN	7.8	8.7	9.4	13	12	13	14	15	17	14	13	13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2003, BY WATER YEAR (WY)

MEAN	11.1	11.2	11.6	12.2	12.6	13.4	14.1	13.8	13.2	12.0	11.5	11.0
MAX	17.3	17.8	16.4	18.6	18.3	19.6	21.7	21.5	21.6	20.7	20.1	19.7
(WY)	(1980)	(1956)	(1984)	(1979)	(1973)	(1984)	(1984)	(1984)	(1984)	(1979)	(1984)	(1984)
MIN	7.26	7.67	7.64	7.64	8.03	9.49	8.85	9.19	7.72	6.70	6.16	7.30
(WY)	(1989)	(1966)	(1967)	(1967)	(1967)	(1966)	(1966)	(1995)	(2002)	(2002)	(1995)	(1995)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1947 - 2003	
ANNUAL TOTAL	3,295.0		5,235.5			
ANNUAL MEAN	9.03		14.3		12.3	
HIGHEST ANNUAL MEAN					18.5	1984
LOWEST ANNUAL MEAN					8.59	1995
HIGHEST DAILY MEAN	17	Oct 26	34	Jun 1	40	Jan 26, 1978
LOWEST DAILY MEAN	5.9	Aug 14	7.8	Oct 6	2.7	Aug 2, 1997
ANNUAL SEVEN-DAY MINIMUM	6.0	Aug 13	7.9	Oct 4	5.5	Aug 18, 1995
10 PERCENT EXCEEDS	11		18		16	
50 PERCENT EXCEEDS	9.4		14		12	
90 PERCENT EXCEEDS	6.6		9.8		8.9	

01305500 SWAN RIVER AT EAST PATCHOGUE, NY—Continued



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

01306440 CONNETQUOT BROOK AT CENTRAL ISLIP, NY

LOCATION.--Lat 40°47'33", long 73°09'58", Suffolk County, Hydrologic Unit 02030202, 200 ft downstream from culvert on Veterans Memorial Highway, 2.0 mi northeast of Central Islip, and 3.8 mi upstream from gaging station 01306500.

DRAINAGE AREA.--About 12 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1968, 1971-78. May 1979 to current year.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 29.93 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40 ft^3/s, Aug. 4, 1979, gage height, 1.56 ft; minimum, 0.25 ft^3/s, part of each day Aug. 21-24, 27, 2002, minimum gage height 0.09 ft, August 23, 24, 27, 2002

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft^3/s, Aug. 10, gage height, 1.10 ft; minimum, 0.55 ft^3/s, part or all of each day Oct. 5-11, gage height, 0.14 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

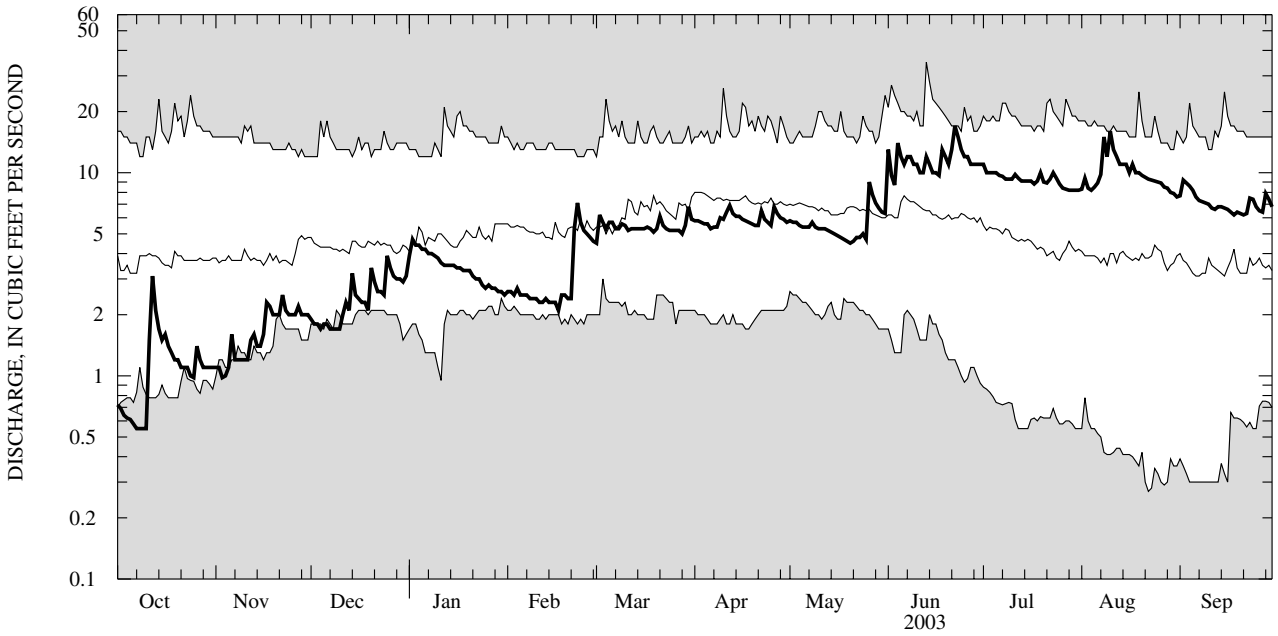
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.72	1.1	1.9	3.9	2.6	4.5	5.8	5.8	13	11	8.3	7.7
2	0.69	1.1	1.8	4.7	2.6	6.2	5.8	5.7	9.7	10	9.4	9.2
3	0.64	0.98	1.8	4.4	2.5	5.7	5.7	5.7	8.7	10	8.4	8.9
4	0.62	1.0	1.7	4.4	2.7	5.3	5.6	5.5	14	10	8.2	8.6
5	0.61	1.1	1.8	4.2	2.5	5.7	5.6	5.4	12	10	8.5	8.2
6	0.58	1.6	1.8	4.2	2.5	5.7	5.3	5.4	11	9.7	8.9	7.6
7	0.55	1.2	1.7	4.0	2.5	5.3	5.4	5.4	12	9.6	9.8	7.3
8	0.55	1.2	1.7	4.0	2.4	5.3	5.4	5.7	12	9.3	15	7.2
9	0.55	1.2	1.7	3.9	2.4	5.6	6.0	5.4	11	9.3	12	7.1
10	0.55	1.2	1.7	3.8	2.4	5.5	5.9	5.3	11	9.3	16	7.0
11	1.5	1.2	2.0	3.6	2.3	5.2	6.4	5.3	10	9.8	13	6.7
12	3.1	1.5	2.3	3.5	2.3	5.3	6.9	5.3	10	9.4	12	6.6
13	2.1	1.6	2.1	3.5	2.4	5.3	6.3	5.2	12	9.1	11	6.8
14	1.7	1.4	3.2	3.5	2.3	5.3	6.1	5.1	11	9.1	11	6.8
15	1.5	1.4	2.5	3.5	2.3	5.3	6.1	5.0	10	9.1	11	6.7
16	1.6	1.6	2.4	3.4	2.3	5.3	5.9	4.9	10	9.1	10	6.6
17	1.4	2.3	2.3	3.4	2.1	5.4	5.8	4.8	9.7	8.8	11	6.4
18	1.3	2.2	2.3	3.3	2.5	5.3	5.7	4.7	13	9.1	10	6.2
19	1.2	2.0	2.1	3.3	2.5	5.1	5.6	4.6	12	10	10	6.4
20	1.2	2.0	3.4	3.3	2.4	5.3	5.5	4.5	11	9.0	9.7	6.3
21	1.1	2.0	2.9	3.1	2.4	6.1	5.5	4.6	13	8.9	9.5	6.2
22	1.1	2.5	2.6	3.0	5.3	5.5	6.5	4.8	17	9.3	9.3	6.3
23	1.1	2.1	2.6	3.0	7.1	5.3	5.9	4.8	15	10	9.2	7.5
24	1.0	2.0	2.5	2.8	5.7	5.2	5.7	5.0	13	9.4	9.1	7.4
25	0.98	2.0	3.9	2.7	5.2	5.2	5.5	4.7	12	8.8	9.0	6.8
26	1.4	2.0	3.4	2.8	5.0	5.2	6.8	9.0	12	8.4	8.9	6.5
27	1.2	2.2	3.1	2.7	4.8	5.2	6.3	7.8	11	8.3	8.5	6.4
28	1.1	2.0	3.0	2.7	4.6	5.0	6.0	7.1	11	8.2	8.4	7.9
29	1.1	2.0	3.0	2.6	---	5.5	5.9	6.7	11	8.2	8.0	7.4
30	1.1	2.0	2.9	2.6	---	6.8	5.7	6.4	11	8.2	7.9	6.8
31	1.1	---	3.1	2.5	---	5.9	---	6.3	---	8.2	7.6	---
TOTAL	34.94	49.68	75.2	106.3	88.6	168.5	176.6	171.9	349.1	286.6	308.6	213.5
MEAN	1.13	1.66	2.43	3.43	3.16	5.44	5.89	5.55	11.6	9.25	9.95	7.12
MAX	3.1	2.5	3.9	4.7	7.1	6.8	6.9	9.0	17	11	16	9.2
MIN	0.55	0.98	1.7	2.5	2.1	4.5	5.3	4.5	8.7	8.2	7.6	6.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2003, BY WATER YEAR (WY)

MEAN	4.81	5.00	5.57	5.56	5.81	6.83	7.93	7.53	7.63	5.79	5.47	4.95
MAX	14.3	14.0	13.4	14.7	13.1	15.0	14.9	14.7	17.8	18.8	15.6	16.0
(WY)	(1991)	(1991)	(1991)	(1991)	(1991)	(1991)	(1984)	(1984)	(1984)	(1984)	(1984)	(1984)
MIN	0.93	1.66	1.98	2.16	2.04	2.26	1.95	2.25	1.48	0.68	0.55	0.55
(WY)	(1989)	(2003)	(1996)	(1989)	(2002)	(2002)	(1995)	(2002)	(2002)	(2002)	(2002)	(1995)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1978 - 2003	
ANNUAL TOTAL	612.70		2,029.52			
ANNUAL MEAN	1.68		5.56		5.96	
HIGHEST ANNUAL MEAN					12.3	1984
LOWEST ANNUAL MEAN					1.87	2002
HIGHEST DAILY MEAN	4.2	Apr 28	17	Jun 22	35	Jun 13, 1998
LOWEST DAILY MEAN	0.27	Aug 22	0.55	Oct 7	0.27	Aug 22, 2002
ANNUAL SEVEN-DAY MINIMUM	0.30	Aug 21	0.57	Oct 4	0.30	Sep 4, 1995
10 PERCENT EXCEEDS	2.6		10		12	
50 PERCENT EXCEEDS	1.9		5.3		4.9	
90 PERCENT EXCEEDS	0.56		1.4		2.0	

01306440 CONNETQUOT BROOK AT CENTRAL ISLIP, NY—Continued



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

01306460 CONNETQUOT BROOK NEAR CENTRAL ISLIP, NY

LOCATION.--Lat 40°46'19", long 73°09'33", Suffolk County, Hydrologic Unit 02030202, 200 ft upstream from bridge on dirt road in Connetquot River State Park Preserve, and 1.8 mi upstream from gaging station 01306500.

DRAINAGE AREA.--About 18 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1968, 1973-77. November 1977 to current year.

GAGE.--Water-stage recorder and wooden stoplog control. Datum of gage is 15.10 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 155 ft^3/s, June 13, 1998, gage height, 3.89 ft; minimum, 9.0 ft^3/s, Aug. 18, gage height, 2.24 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87 ft^3/s, June 1, gage height, 3.24 ft; minimum, 12 ft^3/s, Oct. 8-10, Oct. 8-10, gage height, 2.32 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

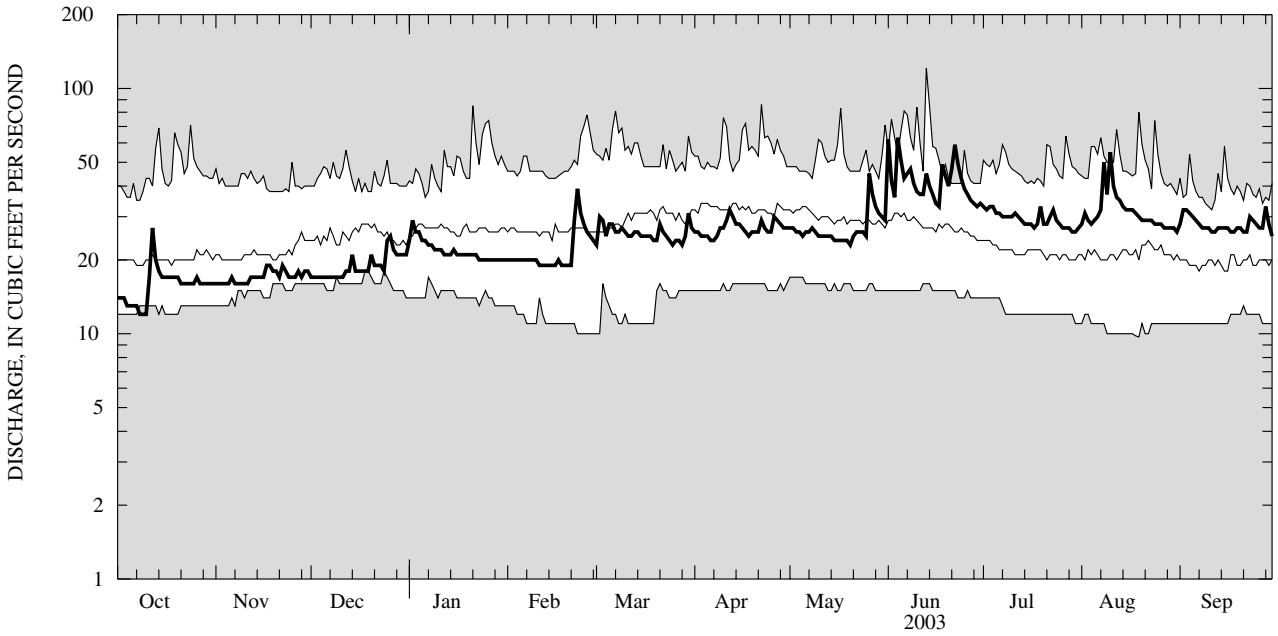
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	17	24	20	23	26	27	62	33	28	28
2	14	16	17	29	20	30	26	27	42	32	31	32
3	14	16	17	26	20	29	25	26	36	33	29	32
4	13	16	17	26	20	25	25	26	63	33	28	31
5	13	16	17	24	20	28	25	25	51	31	29	30
6	13	17	17	24	20	28	24	26	43	31	30	29
7	13	16	17	23	20	26	24	26	45	30	32	28
8	12	16	17	23	20	26	25	27	47	30	50	27
9	12	16	17	22	20	27	27	26	41	30	37	27
10	12	16	17	22	20	26	27	25	38	30	55	27
11	17	16	17	22	19	25	29	25	37	31	40	26
12	27	17	18	21	19	25	32	25	37	30	36	26
13	20	17	18	21	19	26	30	25	45	29	35	27
14	18	17	21	21	19	26	28	25	40	28	33	27
15	17	17	18	22	19	25	28	24	37	28	32	27
16	17	17	18	21	19	25	27	24	34	28	32	27
17	17	19	18	21	20	25	26	24	33	27	32	26
18	17	19	18	21	19	25	25	24	49	28	31	26
19	17	18	18	21	19	24	26	24	44	33	30	27
20	17	18	21	21	19	24	26	23	40	28	29	27
21	16	17	19	21	19	28	26	25	47	28	29	26
22	16	19	19	21	29	26	29	26	59	30	29	26
23	16	18	19	20	39	25	27	26	49	32	29	30
24	16	17	18	20	31	24	26	26	43	29	28	29
25	16	17	24	20	28	23	26	25	39	28	28	28
26	17	17	25	20	26	24	30	45	37	27	28	27
27	16	18	22	20	25	24	29	37	35	27	27	27
28	16	17	21	20	24	23	28	33	34	27	27	33
29	16	18	21	20	---	25	27	31	33	26	27	28
30	16	18	21	20	---	31	27	30	34	26	27	25
31	16	---	21	20	---	27	---	29	---	27	26	---
TOTAL	491	512	585	677	612	798	806	837	1,274	910	984	836
MEAN	15.8	17.1	18.9	21.8	21.9	25.7	26.9	27.0	42.5	29.4	31.7	27.9
MAX	27	19	25	29	39	31	32	45	63	33	55	33
MIN	12	16	17	20	19	23	24	23	33	26	26	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2003, BY WATER YEAR (WY)

MEAN	22.0	23.5	26.2	27.0	27.2	30.1	32.0	30.2	29.9	24.0	23.6	22.0
MAX	43.0	38.8	37.0	45.4	49.4	52.0	48.6	44.1	46.2	47.8	43.5	37.2
(WY)	(1991)	(1990)	(1990)	(1979)	(1979)	(1979)	(1983)	(1979)	(1984)	(1984)	(1979)	(1984)
MIN	13.0	15.9	16.1	14.2	11.2	13.8	15.5	15.7	15.1	12.8	11.5	12.3
(WY)	(1989)	(2002)	(2002)	(2002)	(2002)	(2002)	(1995)	(1995)	(1995)	(2002)	(1988)	(1988)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1978 - 2003	
ANNUAL TOTAL	5,730.5		9,322			
ANNUAL MEAN	15.7		25.5		26.2	
HIGHEST ANNUAL MEAN					39.8	1979
LOWEST ANNUAL MEAN					15.5	1995
HIGHEST DAILY MEAN	37	Aug 29	63	Jun 4	121	Jun 13, 1998
LOWEST DAILY MEAN	9.7	Aug 19	12	Oct 8	9.7	Aug 19, 2002
ANNUAL SEVEN-DAY MINIMUM	9.9	Aug 13	13	Oct 4	9.9	Aug 13, 2002
10 PERCENT EXCEEDS	20		34		39	
50 PERCENT EXCEEDS	16		26		24	
90 PERCENT EXCEEDS	11		17		16	

01306460 CONNETQUOT BROOK NEAR CENTRAL ISLIP, NY—Continued



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

01306500 CONNETQUOT RIVER NEAR OAKDALE, NY

LOCATION.--Lat 40°44'51", long 73°09'03", Suffolk County, Hydrologic Unit 02030202, on left bank just downstream from bridge on State Highway 27, 1.0 mi west of Oakdale.

DRAINAGE AREA.--About 24 mi^2.

PERIOD OF RECORD.--October 1943 to current year (monthly means estimated October 1974 to September 1975).

REVISED RECORDS.--WSP 1141: Drainage area.
GAGE.--Base gage (01306499): Water-stage recorder and wooden stoplog control. Datum is 1.56 ft above NGVD of 1929.
Supplementary gage (01306495): Water-stage recorder with concrete control on left bank of secondary channel 0.25 mi northeast of base gage at datum of 4.74 ft above NGVD of 1929. Prior to Aug. 10, 1965, at datum 1.0 ft higher.

REMARKS.--Records fair. Flow at both gages occasionally regulated by cleaning operations at outlets of ponds above stations. Discharge figures are those of combined flows in main and secondary channels.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 263 ft^3/s, Oct. 16, 1955; minimum daily, 9.3 ft^3/s, Nov. 25, 27, 1982, result of regulation. Maximum and minimum instantaneous discharges not determined.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 86 ft^3/s, June 1; minimum daily, 19 ft^3/s, Oct. 9. Maximum and minimum instantaneous discharges not determined.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	e23	27	34	e26	40	e42	42	e86	50	42	39
2	21	e23	27	46	e26	48	e42	42	64	50	45	44
3	21	e23	26	40	e26	50	e41	41	55	50	44	45
4	21	e24	27	41	27	45	41	41	78	50	42	44
5	21	e23	27	35	27	46	41	40	71	49	43	43
6	20	e28	27	35	26	46	39	40	61	47	44	39
7	20	e27	26	34	27	44	40	40	59	47	44	39
8	20	e25	26	34	26	43	41	41	64	47	e59	39
9	19	e24	26	33	26	44	44	40	57	46	51	38
10	20	e25	26	32	27	44	45	40	56	45	e63	37
11	27	e25	27	32	26	41	48	40	54	48	54	37
12	43	e25	30	30	25	41	51	40	54	46	49	37
13	38	e26	28	30	25	44	47	40	59	44	48	38
14	30	26	37	30	25	41	45	40	57	44	46	39
15	28	25	32	30	25	41	44	40	55	43	46	37
16	30	26	30	30	25	41	42	39	53	45	45	37
17	28	33	30	30	26	41	42	39	53	44	45	37
18	27	33	29	29	26	41	41	39	64	43	45	36
19	26	28	28	30	26	41	40	39	64	49	44	38
20	25	28	34	29	26	41	40	39	59	46	43	37
21	25	28	35	28	26	47	40	39	60	46	43	36
22	25	32	31	28	37	44	47	43	74	47	43	36
23	25	29	29	28	e61	41	44	43	65	51	43	40
24	e24	28	28	27	52	41	40	42	59	48	41	40
25	e24	27	e35	27	47	41	40	40	57	45	41	38
26	e27	27	40	27	45	41	47	e60	55	44	41	38
27	e26	30	33	28	43	41	48	60	54	43	41	38
28	e24	e28	31	e28	40	39	44	51	52	42	38	45
29	e24	28	31	e27	---	41	44	48	50	42	38	46
30	e23	28	30	e26	---	53	42	47	49	42	39	40
31	e23	---	31	e26	---	47	---	46	---	42	38	---
TOTAL	778	805	924	964	870	1,339	1,292	1,321	1,798	1,425	1,388	1,177
MEAN	25.1	26.8	29.8	31.1	31.1	43.2	43.1	42.6	59.9	46.0	44.8	39.2
MAX	43	33	40	46	61	53	51	60	86	51	63	46
MIN	19	23	26	26	25	39	39	39	49	42	38	36

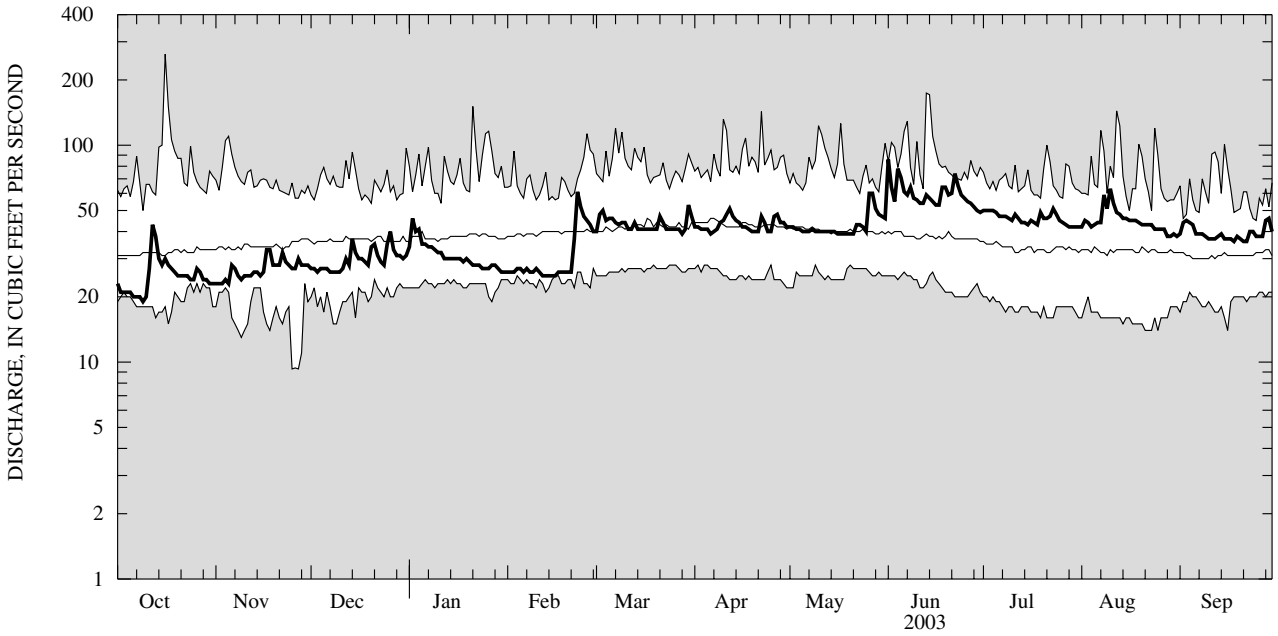
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2003, BY WATER YEAR (WY)

MEAN	33.4	35.7	37.7	38.9	40.0	43.4	44.3	42.3	40.4	35.6	34.4	32.9
MAX	65.2	67.4	55.2	65.1	62.3	70.3	69.7	68.7	70.4	64.3	52.1	48.6
(WY)	(1956)	(1956)	(1991)	(1979)	(1979)	(1979)	(1980)	(1998)	(1998)	(1984)	(1984)	(1984)
MIN	22.0	17.3	21.8	24.0	23.8	29.3	25.8	28.2	23.8	17.8	17.7	21.2
(WY)	(1967)	(1983)	(1967)	(1967)	(1967)	(2002)	(1966)	(1966)	(2002)	(2002)	(2002)	(1986)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1944 - 2003	
ANNUAL TOTAL	9,342		14,081			
ANNUAL MEAN	25.6		38.6		38.2	
HIGHEST ANNUAL MEAN					52.5	1984
LOWEST ANNUAL MEAN					24.9	1966
HIGHEST DAILY MEAN	43	Oct 12	86	Jun 1	263	Oct 16, 1955
LOWEST DAILY MEAN	14	Aug 21	19	Oct 9	9.3	Nov 25, 1982
ANNUAL SEVEN-DAY MINIMUM	15	Aug 17	20	Oct 4	13	Nov 22, 1982
10 PERCENT EXCEEDS	32		51		52	
50 PERCENT EXCEEDS	27		40		37	
90 PERCENT EXCEEDS	18		26		26	

e Estimated

01306500 CONNETQUOT RIVER NEAR OAKDALE, NY—Continued



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

01308000 SAMPAWAMS CREEK AT BABYLON, NY

LOCATION.--Lat 40°42'15", long 73°18'52", Suffolk County, Hydrologic Unit 02030202, on left bank at upstream side of John Street Bridge in Babylon, 180 ft downstream from Long Island Railroad, and 0.6 mi upstream from mouth.

DRAINAGE AREA.--About 23 mi^2.

PERIOD OF RECORD.--October 1944 to current year (monthly means estimated December 1966 to November 1967).

REVISED RECORDS.--WSP 1141: Drainage area. WSP 1702: 1955 (M), 1956 (M). WDR NY 1974: 1970 (P).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6.36 ft above NGVD of 1929. October 1944 to December 1966, water-stage recorder at site 100 ft east at datum 0.34 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated slightly by pumping operations at railroad and occasionally by ponds above station. Indeterminate effect caused by ground-water pumpage for water-supply purposes at Smith Street substation 0.2 mi northwest of gage. Prior to November 1950, slight diurnal fluctuation caused by power operations.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 254 ft^3/s, June 13, 1998, gage height, 3.73 ft, from rating curve extended above 110 ft^3/s; minimum, 1.1 ft^3/s, Sept. 10, 1995, result of regulation, for part or all of each day Mar. 1, July 15-23, 2002; minimum gage height, 0.13 ft, June 28, 1963, datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 88 ft^3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage hight (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Jun 21	1830	*91	*2.08	No other peak greater than base discharge.			

Minimum discharge, 2.4 ft^3/s, for part or all of each day Oct. 9-11, gage height, 0.39 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

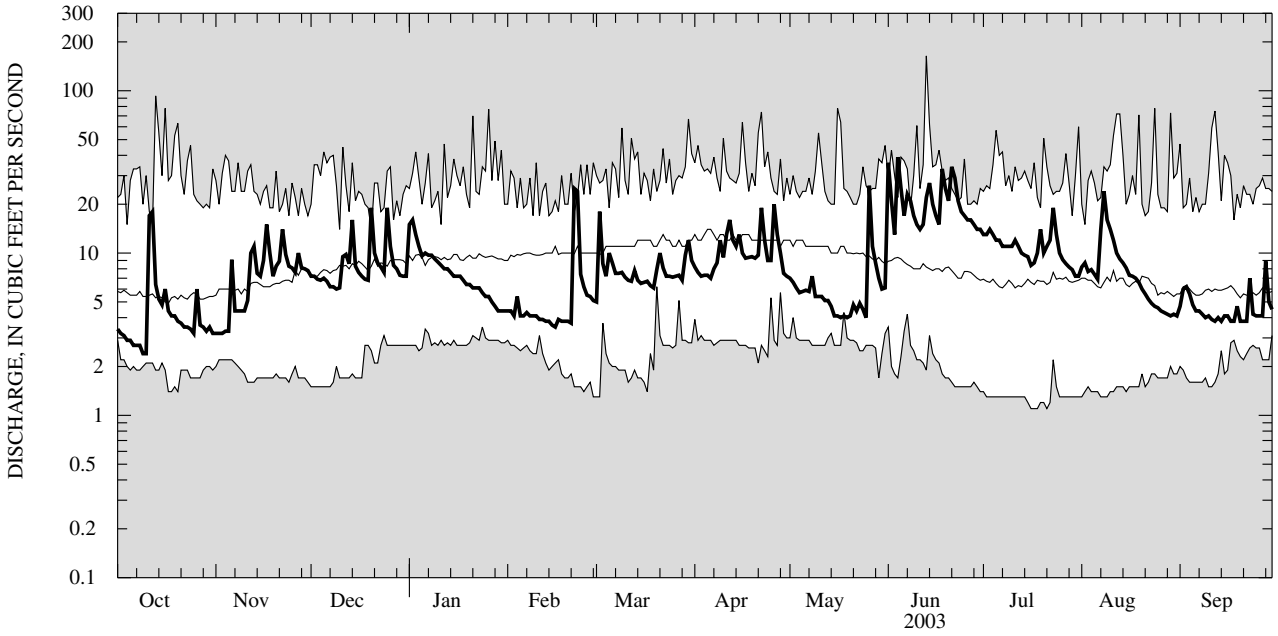
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.2	7.2	15	4.4	5.0	8.2	7.0	36	13	8.2	4.7
2	3.2	3.2	7.2	16	4.4	18	7.6	6.6	21	13	8.7	6.0
3	3.1	3.2	6.9	13	4.1	8.6	7.2	6.1	13	14	7.7	6.2
4	2.9	3.3	6.8	11	5.4	7.2	7.3	5.7	39	13	7.9	5.6
5	2.9	3.3	7.0	9.6	4.1	10	7.3	5.8	25	12	7.4	4.8
6	2.7	9.1	6.7	10	4.1	8.7	7.0	5.9	17	12	6.9	4.4
7	2.7	4.4	6.2	9.7	4.3	7.5	8.0	5.8	23	11	14	4.4
8	2.7	4.4	6.2	9.7	4.1	7.5	8.7	7.2	21	11	24	4.2
9	2.4	4.4	6.0	9.2	4.1	7.6	12	5.4	17	11	16	4.0
10	2.4	4.4	6.1	8.8	4.1	7.1	9.4	5.4	15	11	14	4.1
11	17	5.1	9.5	8.4	3.9	6.8	13	5.4	14	12	12	3.9
12	18	10	9.8	8.0	3.9	6.7	16	5.1	15	11	10	3.8
13	6.4	11	8.6	8.0	3.8	7.8	12	5.1	22	10	9.2	4.0
14	5.2	7.5	16	7.6	3.8	6.8	11	4.7	27	9.7	8.7	3.8
15	4.8	7.2	8.3	7.2	3.6	6.5	13	4.1	20	9.5	8.1	4.1
16	6.0	9.0	7.6	7.2	3.5	6.6	10	4.1	17	8.4	7.3	4.1
17	4.4	15	7.2	7.2	3.9	6.7	9.3	4.0	15	8.7	7.2	3.8
18	4.1	10	6.9	6.8	3.8	6.3	9.4	4.1	33	10	7.0	3.8
19	4.1	7.2	6.8	6.4	3.8	6.1	9.5	4.0	25	14	6.6	4.7
20	3.8	8.3	19	6.4	3.8	7.9	9.3	4.1	21	10	6.0	3.8
21	3.7	8.9	10	6.1	3.7	10	9.7	4.8	34	11	5.6	3.8
22	3.5	14	8.7	6.1	25	8.1	19	4.4	29	12	5.2	3.8
23	3.5	9.8	8.2	6.1	24	7.2	12	4.9	21	19	4.9	7.0
24	3.4	8.3	7.6	5.7	7.4	7.2	9.0	4.5	18	13	4.7	4.2
25	3.2	8.1	19	5.4	6.2	7.1	9.0	4.0	17	10	4.6	4.1
26	6.0	7.6	11	5.4	5.5	7.2	20	26	16	9.1	4.4	4.1
27	3.6	10	8.4	5.0	5.4	7.3	13	11	16	8.6	4.3	4.1
28	3.5	8.1	8.0	4.7	5.1	6.8	10	8.7	15	8.2	4.2	8.9
29	3.3	8.0	7.3	4.4	---	9.7	7.5	7.0	14	7.9	4.1	5.0
30	3.5	7.8	7.2	4.4	---	12	7.2	6.0	14	7.2	4.2	4.5
31	3.2	---	7.2	4.4	---	9.0	---	6.1	---	7.2	4.1	---
TOTAL	142.6	223.8	268.6	242.9	163.2	247.0	311.6	193.0	630	337.5	247.2	137.7
MEAN	4.60	7.46	8.66	7.84	5.83	7.97	10.4	6.23	21.0	10.9	7.97	4.59
MAX	18	15	19	16	25	18	20	26	39	19	24	8.9
MIN	2.4	3.2	6.0	4.4	3.5	5.0	7.0	4.0	13	7.2	4.1	3.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2003, BY WATER YEAR (WY)

MEAN	6.94	7.81	9.01	9.89	10.4	12.1	13.1	11.3	10.0	8.27	7.65	7.05
MAX	22.5	19.9	14.8	19.6	16.6	20.1	23.7	20.7	24.3	21.9	20.5	16.3
(WY)	(1991)	(1956)	(1997)	(1978)	(1979)	(1958)	(1983)	(1989)	(1998)	(1975)	(1989)	(1989)
MIN	2.02	1.83	2.16	2.85	2.11	2.48	3.09	3.17	2.42	1.31	2.01	3.23
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(1995)	(2001)

01308000 SAMPAWAMS CREEK AT BABYLON, NY—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1945 - 2003	
ANNUAL TOTAL	1,382.3		3,145.1			
ANNUAL MEAN	3.79		8.62		9.50	
HIGHEST ANNUAL MEAN					15.4	1984
LOWEST ANNUAL MEAN					2.55	2002
HIGHEST DAILY MEAN	35	Aug 29	39	Jun 4	164	Jun 13, 1998
LOWEST DAILY MEAN	1.1	Jul 16	2.4	Oct 9	1.1	Jul 16, 2002
ANNUAL SEVEN-DAY MINIMUM	1.1	Jul 15	2.7	Oct 4	1.1	Jul 15, 2002
10 PERCENT EXCEEDS	8.0		16		16	
50 PERCENT EXCEEDS	2.8		7.2		8.3	
90 PERCENT EXCEEDS	1.4		3.8		4.2	



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

01308500 CARLLS RIVER AT BABYLON, NY

LOCATION.--Lat 40°42'31", long 73°19'44", Suffolk County, Hydrologic Unit 02030202, on left bank 130 ft downstream from outlet of Southards Pond in Babylon, and 0.9 mi upstream from mouth.

DRAINAGE AREA.--About 35 mi^2.

PERIOD OF RECORD.--October 1944 to current year.

REVISED RECORDS.--WSP 1141: Drainage area. WDR NY 1972: 1947 (m), 1952 (m), 1954 (m), 1958 (m) 1960- 63 (m).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 10.63 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional regulation at outlet of Southards Pond.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 369 ft^3/s, Apr. 22, 2000, gage height, 2.58 ft; minimum, 0.05 ft^3/s, July 6, 1966, Aug. 29, 1972, result of regulation, Jan. 18, 2000, result of freezeup; minimum gage height, 0.03 ft, Sept. 4, 1963, July 6, 1966, Aug. 29, 1972, result of regulation, Jan. 18, 2000, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 179 ft^3/s, June 22, gage height, 1.83 ft; minimum, 7.8 ft^3/s, part or all of each day Oct. 9-11, gage height 0.40 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	e10	e15	e35	20	26	25	25	94	33	26	19
2	11	e10	e15	e40	20	57	25	25	45	32	28	25
3	11	e10	e15	e30	19	49	24	24	33	35	24	26
4	10	e10	e14	e25	22	33	24	21	111	33	32	23
5	9.8	e10	14	e24	21	39	24	22	68	30	26	21
6	9.2	e25	14	e23	19	38	22	23	42	28	24	19
7	8.6	13	13	e23	20	32	23	23	51	27	28	19
8	8.4	13	13	e22	19	31	27	25	57	27	53	18
9	8.1	13	13	e22	18	31	32	23	41	26	32	17
10	7.8	12	12	e21	19	29	31	22	37	26	28	17
11	e50	12	e15	e21	19	27	34	22	36	29	26	16
12	e60	e25	e16	e21	18	27	39	22	36	27	25	17
13	e20	e30	e15	e21	18	28	31	21	55	25	24	16
14	e15	e20	e35	e21	17	28	28	21	57	24	22	17
15	e12	e16	e20	e20	e16	25	28	20	57	24	22	16
16	e15	e16	e17	e20	e16	25	28	20	40	25	21	14
17	e12	e35	e15	e20	e17	25	26	20	36	24	22	19
18	e11	e25	e15	e20	e16	24	25	20	75	24	22	19
19	e10	e16	e15	e20	e16	24	25	19	54	34	20	19
20	e10	e16	e40	e20	16	25	25	19	44	25	20	16
21	e10	e20	e20	e20	17	35	25	22	72	28	20	15
22	e10	e35	e17	e19	63	27	42	25	111	26	20	15
23	e10	e20	e14	e19	123	25	31	23	60	51	19	22
24	e10	e18	e15	e19	55	23	26	24	48	33	18	19
25	e10	e16	e40	e19	35	22	25	21	44	27	18	19
26	e15	e16	e20	e19	30	22	41	75	41	25	18	17
27	e11	e20	e18	e19	29	24	39	52	38	24	17	17
28	e10	e16	e16	e19	27	22	30	33	36	23	17	26
29	e10	e16	e15	e19	---	23	28	30	34	22	16	21
30	e10	e16	e15	e19	---	35	26	27	34	22	17	18
31	e10	---	e15	19	---	26	---	26	---	21	16	---
TOTAL	426.9	530	546	679	745	907	859	795	1,587	860	721	562
MEAN	13.8	17.7	17.6	21.9	26.6	29.3	28.6	25.6	52.9	27.7	23.3	18.7
MAX	60	35	40	40	123	57	42	75	111	51	53	26
MIN	7.8	10	12	19	16	22	22	19	33	21	16	14

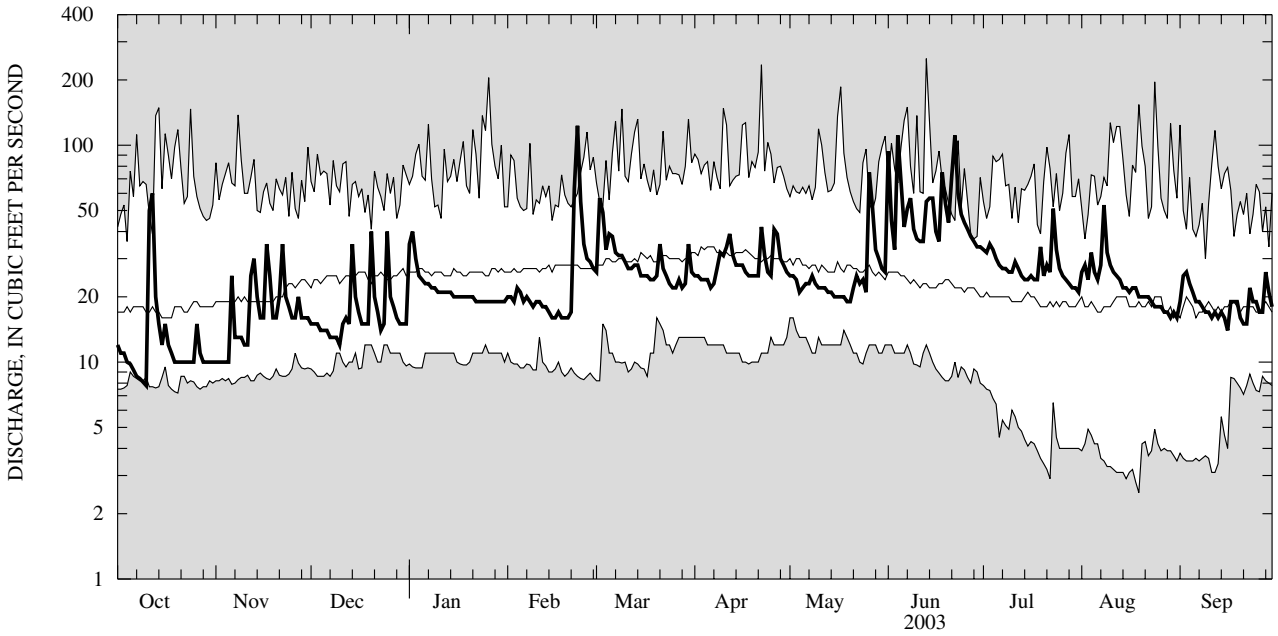
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2003, BY WATER YEAR (WY)

MEAN	19.9	23.0	25.9	27.7	28.9	32.2	33.4	29.5	26.2	21.2	20.7	19.4
MAX	52.0	50.3	48.8	55.8	49.3	54.5	64.3	53.8	52.9	49.6	40.7	36.4
(WY)	(1991)	(1956)	(1978)	(1978)	(1979)	(1979)	(1983)	(1989)	(2003)	(1984)	(1990)	(1960)
MIN	9.50	8.78	11.0	11.3	9.51	13.1	13.2	13.7	11.2	4.90	5.22	8.30
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(1966)	(1995)	(1995)	(2002)	(1995)	(1995)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1945 - 2003	
ANNUAL TOTAL	4,778.8		9,217.9			
ANNUAL MEAN	13.1		25.3		25.6	
HIGHEST ANNUAL MEAN					39.9	1978
LOWEST ANNUAL MEAN					11.4	2002
HIGHEST DAILY MEAN	112	Aug 29	123	Feb 23	251	Jun 13, 1998
LOWEST DAILY MEAN	2.5	Aug 19	7.8	Oct 10	2.5	Aug 19, 2002
ANNUAL SEVEN-DAY MINIMUM	3.0	Aug 13	8.8	Oct 4	3.0	Aug 13, 2002
10 PERCENT EXCEEDS	20		40		40	
50 PERCENT EXCEEDS	11		22		23	
90 PERCENT EXCEEDS	4.6		13		13	

e Estimated

01308500 CARLLS RIVER AT BABYLON, NY—Continued



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

01309225 GREAT SOUTH BAY AT LINDENHURST, NY

LOCATION.--Lat 40°40'09", long 73°21'22", Suffolk County, Hydrologic Unit 2030202, at Village of Lindenhurst Charles J. Cowan Marina, in Lindenhurst.

PERIOD OF RECORD.--July 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.--Records good except those estimated from reconstructed graph and reported to the nearest 0.01 ft, which are fair; and to the nearest 0.1 ft, which are poor. Satellite and telephone elevation telemeter at station. Interruptions of record on Jan. 24 and 28 and July 19-28 were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 3.66 ft, Dec. 25, 2002; minimum, -1.19 ft, Nov. 24, 2002, Jan. 23, 2003.

EXTREMES OUTSIDE PERIOD OF RECORD.--Storm tide of Dec. 11, 1992, reached an elevation of 6.0 ft, from high-water mark at site 3.2 mi west.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 3.66 ft, Dec. 25; minimum, -1.19 ft, Nov. 24, Jan. 23.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.06	1.14	0.51	1.39	1.12	1.14	0.51	1.14	1.77	1.08	1.26	1.31
2	0.90	0.74	0.23	1.80	0.83	1.32	0.79	1.19	1.07	1.13	1.24	1.57
3	1.23	0.92	0.24	2.32	0.31	0.63	1.10	1.24	0.86	1.36	1.17	1.76
4	1.91	1.30	0.46	2.13	0.77	0.40	1.32	1.20	1.21	1.31	1.23	1.56
5	1.69	1.44	0.85	1.49	-0.02	0.61	1.62	1.07	1.27	1.15	1.29	1.45
6	1.54	1.86	1.42	1.43	-0.31	1.03	0.78	1.09	1.06	1.11	1.32	1.38
7	1.77	1.33	0.92	1.11	0.13	1.03	0.64	1.08	1.07	1.24	1.29	1.37
8	1.57	1.23	0.35	1.02	0.14	0.73	1.32	1.22	1.31	1.28	1.29	1.45
9	1.51	0.77	0.07	1.05	-0.15	0.68	1.32	1.07	1.53	1.38	1.30	1.69
10	1.52	1.13	0.50	1.22	0.10	0.33	1.35	1.08	1.27	1.57	1.30	1.49
11	1.80	1.31	0.94	0.36	0.20	0.33	1.59	1.31	1.25	1.67	1.32	1.31
12	2.41	0.98	1.41	-0.17	0.25	0.33	1.60	1.57	1.30	1.54	1.24	1.70
13	2.19	1.20	1.25	0.02	-0.42	0.54	1.24	1.31	1.51	1.36	1.14	1.63
14	1.33	1.12	1.88	-0.13	-0.37	0.71	0.95	1.23	1.47	1.28	1.04	1.40
15	1.66	0.91	0.86	0.45	-0.06	0.69	0.68	1.31	1.44	1.24	1.16	1.41
16	2.58	1.21	0.93	0.35	0.05	0.87	0.75	1.58	1.47	1.31	1.32	1.38
17	1.87	2.13	1.13	0.65	1.25	1.28	1.64	1.34	1.16	1.22	1.47	1.29
18	1.52	0.95	1.24	0.99	1.89	1.58	1.61	1.12	1.21	1.17	1.45	1.89
19	1.35	0.11	1.00	1.14	1.21	1.72	1.18	0.92	1.35	e1.2	1.18	2.06
20	1.05	0.78	1.47	0.50	0.75	1.55	1.22	0.88	1.58	e1.1	0.87	1.37
21	1.18	1.15	1.14	-0.03	0.61	1.38	1.26	0.85	1.59	e1.3	0.92	1.31
22	1.23	1.58	0.69	-0.35	0.97	1.22	1.50	1.01	1.51	e1.2	1.08	1.52
23	1.00	0.38	0.72	-0.44	1.39	1.04	1.07	1.13	1.41	e1.1	1.08	1.75
24	0.85	-0.30	0.60	e0.4	0.06	1.05	0.69	1.30	1.37	e1.0	1.07	1.44
25	1.08	-0.02	1.73	0.61	-0.22	0.99	1.05	1.21	1.35	e0.8	1.03	1.52
26	1.91	0.75	0.82	0.50	0.13	0.98	1.60	1.49	1.34	e0.7	1.18	1.65
27	1.22	1.03	0.87	0.50	0.64	0.88	1.43	1.33	1.41	e0.8	1.34	1.80
28	0.92	0.78	0.92	e0.3	1.18	0.90	1.07	1.26	1.30	e0.9	1.32	1.99
29	0.99	0.66	0.98	0.42	---	0.98	0.99	1.23	1.17	1.26	1.31	1.87
30	1.29	1.07	0.94	0.55	---	0.98	1.03	1.38	1.09	1.18	1.31	1.25
31	1.49	---	1.26	0.83	---	0.57	---	1.54	---	1.33	1.27	---
MEAN	1.47	0.99	0.91	0.72	0.44	0.92	1.16	1.22	1.32	1.20	1.22	1.55
MAX	2.58	2.13	1.88	2.32	1.89	1.72	1.64	1.58	1.77	1.67	1.47	2.06
MIN	0.85	-0.30	0.07	-0.44	-0.42	0.33	0.51	0.85	0.86	0.70	0.87	1.25

CAL YR 2002 MEAN 1.21 MAX 2.58 MIN -0.30
WTR YR 2003 MEAN 1.10 MAX 2.58 MIN -0.44

e Estimated from reconstructed graph

01309225 GREAT SOUTH BAY AT LINDENHURST, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL HIGH-HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.79	1.96	1.63	2.35	2.13	1.95	1.36	1.95	2.37	2.00	1.89	2.11
2	1.72	1.54	1.08	2.90	1.94	2.18	1.73	2.05	1.92	1.58	2.09	2.43
3	2.52	1.84	1.12	3.35	1.15	1.26	2.03	2.17	1.20	2.03	1.94	2.63
4	2.83	2.26	1.56	3.25	1.86	1.20	2.34	1.94	1.85	2.17	1.96	2.30
5	2.52	2.42	1.86	2.41	0.51	1.45	2.25	1.46	2.22	2.02	2.07	2.23
6	2.53	3.11	2.48	2.32	0.25	1.76	2.06	1.83	2.01	1.81	2.17	2.27
7	2.84	2.26	1.84	1.92	0.68	1.73	1.25	1.89	1.67	1.96	2.15	2.18
8	2.59	2.19	1.20	1.75	0.83	1.61	1.79	1.91	1.98	2.01	2.19	2.51
9	2.55	1.62	0.93	1.68	0.68	1.46	2.16	1.90	2.22	2.19	2.24	2.71
10	2.51	2.04	1.14	1.77	0.61	1.06	2.04	1.80	2.05	2.62	2.25	2.14
11	2.90	2.00	1.79	1.18	0.92	0.96	2.17	2.20	2.19	2.60	2.28	2.21
12	3.35	1.62	2.29	0.39	1.23	0.97	2.34	2.30	2.43	2.51	2.07	2.46
13	2.82	1.84	1.87	0.66	0.15	0.96	1.97	2.08	2.58	2.29	1.95	2.40
14	1.94	1.73	2.61	0.48	0.36	1.46	1.71	2.21	2.58	2.23	1.82	2.15
15	2.44	1.55	1.50	1.28	0.88	1.42	1.49	2.49	2.45	2.19	1.79	2.03
16	3.32	2.23	1.81	1.08	0.95	1.63	2.37	2.59	2.27	1.91	2.01	2.00
17	2.50	2.87	1.91	1.57	2.81	2.10	3.06	2.26	1.71	2.15	2.15	1.99
18	2.17	2.06	2.11	1.95	2.97	2.52	2.40	1.70	1.96	1.96	2.11	2.60
19	2.07	0.90	1.85	2.26	2.12	2.79	1.80	2.00	2.11	1.90	1.78	2.73
20	1.71	1.68	2.44	1.46	1.55	2.57	2.14	1.90	2.28	e1.6	1.49	1.95
21	1.95	1.99	2.17	0.98	1.51	2.04	2.21	1.71	2.24	e1.8	1.69	2.03
22	2.05	2.52	1.61	0.56	1.76	2.25	2.30	1.69	2.13	e1.7	1.83	2.40
23	1.87	0.90	1.51	0.38	2.47	2.05	2.12	1.75	2.01	e1.7	1.84	2.44
24	1.71	0.49	1.36	e1.18	0.93	1.92	1.48	1.91	2.04	e1.5	1.88	2.28
25	1.88	0.81	3.66	1.51	0.65	1.81	1.65	1.80	2.07	e1.4	1.92	2.41
26	2.74	1.68	2.12	1.32	0.78	1.76	2.14	2.17	2.16	e1.4	2.18	2.41
27	2.03	1.72	1.48	1.50	1.39	1.57	2.19	1.95	2.25	e1.5	2.19	2.64
28	1.57	1.46	1.58	e0.9	1.99	1.54	1.72	2.06	2.09	1.96	2.09	2.96
29	1.78	1.46	1.89	1.34	---	1.71	1.73	2.16	2.07	2.16	2.14	2.84
30	2.12	1.77	1.77	1.49	---	1.72	1.92	2.31	2.01	2.04	2.07	2.12
31	2.26	---	2.18	1.79	---	1.34	---	2.65	---	2.40	2.07	---
MEAN	2.31	1.82	1.82	1.58	1.29	1.70	2.00	2.03	2.10	1.98	2.01	2.35
MAX	3.35	3.11	3.66	3.35	2.97	2.79	3.06	2.65	2.58	2.62	2.28	2.96
MIN	1.57	0.49	0.93	0.38	0.15	0.96	1.25	1.46	1.20	1.40	1.49	1.95

CAL YR 2002 MEAN 2.04 MAX 3.66 MIN 0.49
WTR YR 2003 MEAN 1.92 MAX 3.66 MIN 0.15

e Estimated from reconstructed graph

01309225 GREAT SOUTH BAY AT LINDENHURST, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL LOW-HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.44	1.71	1.03	2.14	1.76	1.64	1.10	1.70	2.31	1.47	*---	1.93
2	1.28	1.49	1.04	2.42	0.97	2.03	1.34	1.64	1.40	*---	1.88	1.93
3	1.63	1.72	0.85	3.31	1.01	1.09	1.65	1.71	*---	2.03	1.88	2.29
4	2.71	2.06	0.99	2.12	1.15	0.91	2.05	1.61	1.79	1.77	1.85	2.04
5	2.37	2.35	1.83	*---	*---	1.40	*---	*---	1.61	1.72	1.81	1.85
6	2.34	2.03	1.71	1.93	0.19	*---	1.16	1.49	1.45	1.71	1.78	1.67
7	2.43	*---	*---	1.77	0.52	1.57	0.98	1.41	1.56	1.83	1.62	1.83
8	2.21	2.05	1.14	1.63	0.56	1.10	1.79	1.53	1.84	1.85	1.69	1.89
9	*---	1.36	0.24	1.46	0.00	1.15	1.56	1.42	2.15	1.87	1.74	2.22
10	2.14	1.33	0.96	1.73	0.28	0.58	1.73	1.53	1.87	1.86	1.81	2.09
11	2.01	1.91	0.90	0.67	0.39	0.59	2.09	1.72	1.76	2.23	1.82	1.90
12	2.89	1.38	1.62	0.23	0.40	0.61	2.05	2.10	1.79	2.06	1.77	2.39
13	2.82	1.63	1.56	0.40	0.09	0.93	1.73	1.93	2.09	1.91	1.73	2.02
14	1.89	1.70	2.23	0.32	0.15	1.07	1.56	1.87	1.99	1.77	1.61	*---
15	2.02	1.43	1.26	0.77	0.38	1.23	1.47	1.83	1.99	1.79	*---	1.89
16	2.91	1.64	1.32	0.87	0.86	1.56	1.34	2.29	2.24	*---	1.97	1.89
17	2.42	2.59	1.76	1.04	2.30	2.08	2.38	1.95	*---	1.73	2.02	1.58
18	2.09	0.70	1.55	1.76	2.25	2.41	2.39	*---	1.79	1.70	2.00	1.82
19	2.03	0.79	1.44	1.43	1.83	2.57	*---	1.43	1.83	e1.7	1.76	2.54
20	1.67	1.47	2.06	0.64	*---	2.30	1.74	1.32	2.17	e1.6	1.26	1.70
21	1.84	1.72	1.20	*---	1.39	*---	1.76	1.29	2.18	e1.7	1.12	1.54
22	1.72	1.93	*---	0.53	1.57	1.82	1.93	1.58	1.99	e1.6	1.33	1.75
23	1.31	0.37	1.38	-0.20	2.08	1.54	1.38	1.62	1.87	e1.5	1.37	2.36
24	1.41	*---	1.18	e0.8	0.35	1.48	1.04	1.88	1.77	e1.3	1.46	2.01
25	*---	0.15	1.49	1.13	-0.03	1.40	1.59	1.69	1.72	e1.1	1.39	2.18
26	1.98	0.77	1.08	0.97	0.69	1.39	2.10	2.10	1.64	e1.1	1.57	2.39
27	1.84	1.46	1.38	0.79	1.20	1.21	1.79	1.86	1.78	e1.2	1.95	2.59
28	1.41	1.40	1.49	e0.89	1.79	1.46	1.68	1.74	1.68	e1.4	1.89	2.64
29	1.24	1.21	1.41	0.93	---	1.67	1.60	1.67	1.56	1.73	2.02	*---
30	1.62	1.72	1.49	1.17	---	1.53	1.51	1.79	1.49	1.67	1.95	2.11
31	1.98	---	1.84	1.62	---	1.27	---	1.89	---	1.95	*---	---
MEAN	1.99	1.50	1.36	1.22	0.93	1.43	1.66	1.71	1.83	1.68	1.72	2.04
MAX	2.91	2.59	2.23	3.31	2.30	2.57	2.39	2.29	2.31	2.23	2.02	2.64
MIN	1.24	0.15	0.24	-0.20	-0.03	0.58	0.98	1.29	1.40	1.10	1.12	1.54

CAL YR 2002 MEAN 1.71 MAX 2.91 MIN 0.15
WTR YR 2003 MEAN 1.59 MAX 3.31 MIN -0.20

e Estimated from reconstructed graph
* Only a single high tide occurred

01309225 GREAT SOUTH BAY AT LINDENHURST, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL HIGH-LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	*---	0.80	0.12	0.70	0.44	0.53	0.02	0.56	1.36	0.55	0.60	0.76
2	0.39	0.05	-0.39	1.16	0.34	0.81	0.16	0.62	0.53	0.62	0.62	1.15
3	0.53	0.29	-0.45	1.90	-0.29	-0.03	0.57	0.66	0.41	0.79	0.61	1.11
4	1.11	0.58	-0.12	1.55	0.05	-0.12	0.66	0.74	0.67	0.76	0.71	1.00
5	1.01	0.78	0.31	0.87	-0.35	0.04	1.24	0.59	0.75	0.56	0.70	*---
6	0.82	1.07	0.84	0.84	-0.76	0.40	0.16	0.65	0.49	0.63	0.77	0.79
7	0.99	0.70	0.27	0.54	-0.22	0.50	0.38	0.55	0.74	0.63	*---	0.87
8	0.87	0.51	-0.12	0.53	-0.21	0.31	0.90	0.69	0.85	*---	0.74	0.76
9	0.85	0.21	-0.27	0.53	-0.54	0.33	0.87	0.50	*---	0.62	0.67	1.07
10	0.84	0.76	0.07	0.82	-0.04	-0.10	0.86	0.53	0.84	0.86	0.57	0.93
11	1.53	0.78	0.95	*---	-0.11	-0.06	1.10	*---	0.64	1.09	0.71	0.67
12	1.85	0.45	1.04	-0.57	*---	-0.10	*---	0.91	0.64	1.01	0.69	1.24
13	1.62	*---	1.06	*---	-0.86	0.11	0.83	0.64	0.83	0.79	0.54	1.05
14	0.74	0.61	*---	-0.60	-0.92	*---	0.41	0.59	0.86	0.72	0.47	0.89
15	*---	0.36	0.65	-0.13	-0.64	0.03	-0.03	0.61	0.89	0.65	0.64	1.00
16	2.43	0.66	0.27	-0.17	-0.53	0.21	-0.06	0.95	0.85	0.67	0.72	0.91
17	1.61	1.46	0.60	0.07	1.02	0.61	1.01	0.67	0.63	0.63	1.02	0.92
18	1.06	1.09	0.68	0.47	1.26	0.87	0.90	0.55	0.62	0.66	0.92	2.03
19	0.67	-0.42	0.40	0.45	0.57	0.87	0.51	0.37	0.84	e0.7	0.69	1.62
20	0.51	0.34	1.09	-0.02	0.21	0.80	0.59	0.38	1.09	e0.8	0.42	*---
21	0.60	0.64	0.66	-0.63	-0.05	0.67	0.63	0.36	1.21	e0.9	0.56	0.84
22	0.60	1.15	0.16	-0.89	0.41	0.66	0.98	0.49	0.96	*---	*---	0.90
23	0.39	-0.06	0.19	-0.70	1.09	0.38	0.44	0.72	*---	e0.7	0.67	1.14
24	0.40	-0.58	0.15	-0.13	-0.42	0.53	0.32	0.82	0.96	e0.6	0.52	0.91
25	0.56	-0.28	0.73	0.11	*---	0.41	*---	*---	0.92	e0.3	0.50	0.82
26	1.49	0.45	0.22	-0.08	-0.40	*---	1.27	0.80	0.88	e0.2	0.57	0.96
27	0.68	0.52	0.45	*---	0.05	0.36	1.16	0.98	0.92	e0.2	0.65	1.16
28	0.45	0.18	0.32	-0.08	0.65	0.34	0.60	0.67	0.81	e0.3	0.72	1.33
29	0.48	*---	*---	-0.18	---	0.32	0.42	0.61	0.60	0.60	0.65	1.16
30	*---	0.52	0.37	-0.04	---	0.49	0.39	0.80	0.53	0.64	0.69	0.57
31	0.86	---	0.65	0.19	---	0.18	---	0.89	---	0.70	0.68	---
MEAN	0.93	0.49	0.38	0.23	-0.01	0.36	0.62	0.65	0.80	0.65	0.66	1.02
MAX	2.43	1.46	1.09	1.90	1.26	0.87	1.27	0.98	1.36	1.09	1.02	2.03
MIN	0.39	-0.58	-0.45	-0.89	-0.92	-0.12	-0.06	0.36	0.41	0.20	0.42	0.57

CAL YR 2002 MEAN 0.66 MAX 2.43 MIN -0.58
WTR YR 2003 MEAN 0.57 MAX 2.43 MIN -0.92

e Estimated from reconstructed graph
* Only a single low tide occurred

01309225 GREAT SOUTH BAY AT LINDENHURST, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL LOW-LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.44	0.34	-0.45	0.42	0.24	0.49	-0.23	0.42	0.93	0.36	0.50	0.56
2	0.18	-0.06	-0.84	0.70	-0.08	0.42	0.15	0.58	0.23	0.42	0.60	0.79
3	0.33	-0.05	-0.54	1.07	-0.38	-0.19	0.35	0.55	-0.04	0.74	0.46	1.02
4	0.99	0.36	-0.48	1.23	0.04	-0.25	0.65	0.49	0.59	0.64	0.54	0.80
5	0.88	0.41	-0.24	0.75	-0.80	-0.14	0.86	0.45	0.62	0.49	0.54	0.74
6	0.59	1.05	0.65	0.73	-0.86	0.37	0.08	0.52	0.43	0.39	0.57	0.72
7	0.88	0.54	0.21	0.47	-0.36	0.42	0.02	0.54	0.38	0.50	0.53	0.63
8	0.70	0.45	-0.49	0.38	-0.51	0.04	0.75	0.69	0.65	0.57	0.49	0.70
9	0.65	0.11	-0.59	0.47	-0.74	-0.01	0.71	0.42	0.77	0.62	0.59	0.86
10	0.76	0.37	-0.05	0.52	-0.43	-0.13	0.80	0.49	0.40	0.81	0.52	0.77
11	0.83	0.59	0.17	-0.18	-0.38	-0.19	0.96	0.60	0.41	0.79	0.59	0.66
12	1.61	0.43	0.30	-0.73	-0.33	-0.14	0.90	0.85	0.48	0.64	0.49	0.79
13	1.19	0.72	0.82	-0.48	-1.14	0.06	0.52	0.50	0.68	0.44	0.43	0.99
14	0.60	0.51	1.38	-0.86	-0.98	0.06	0.20	0.26	0.57	0.53	0.38	0.74
15	1.06	0.36	0.24	-0.25	-0.77	0.01	-0.12	0.42	0.51	0.53	0.44	0.77
16	1.29	0.22	0.22	-0.40	-0.81	0.08	-0.22	0.78	0.63	0.59	0.66	0.85
17	1.08	1.35	0.22	-0.15	-0.33	0.38	0.30	0.57	0.40	0.45	0.82	0.64
18	0.78	-0.02	0.63	0.00	1.01	0.68	0.77	0.34	0.58	0.50	0.87	1.13
19	0.64	-0.65	0.34	0.42	0.37	0.86	0.45	0.14	0.72	0.62	0.55	1.04
20	0.39	-0.19	0.38	-0.34	-0.11	0.74	0.47	0.17	0.91	e0.6	0.35	0.77
21	0.44	0.40	0.30	-0.76	-0.14	0.66	0.60	0.22	0.85	e0.8	0.31	0.74
22	0.59	0.72	-0.17	-1.11	0.20	0.34	0.85	0.45	0.88	e0.8	0.43	0.84
23	0.36	-0.31	0.15	-1.19	-0.08	0.31	0.19	0.44	0.79	e0.7	0.48	1.01
24	0.11	-1.19	-0.14	-0.22	-0.74	0.35	-0.06	0.62	0.73	e0.5	0.42	0.60
25	0.38	-0.71	0.71	-0.17	-0.85	0.30	0.43	0.53	0.71	e0.3	0.33	0.75
26	1.34	0.05	-0.11	-0.13	-0.85	0.33	0.58	0.66	0.65	e0.2	0.43	0.91
27	0.58	0.23	0.17	-0.05	-0.16	0.25	0.70	0.61	0.69	e0.2	0.58	0.95
28	0.29	-0.15	0.26	e-0.71	0.20	0.27	0.34	0.58	0.60	e0.28	0.62	1.09
29	0.41	-0.16	0.38	-0.32	---	0.30	0.20	0.53	0.49	0.59	0.60	1.08
30	0.68	0.24	0.06	-0.31	---	0.25	0.36	0.68	0.39	0.47	0.56	0.55
31	0.76	---	0.29	-0.11	---	-0.42	---	0.79	---	0.60	0.54	---
MEAN	0.70	0.20	0.12	-0.04	-0.35	0.21	0.42	0.51	0.59	0.54	0.52	0.82
MAX	1.61	1.35	1.38	1.23	1.01	0.86	0.96	0.85	0.93	0.81	0.87	1.13
MIN	0.11	-1.19	-0.84	-1.19	-1.14	-0.42	-0.23	0.14	-0.04	0.20	0.31	0.55

CAL YR 2002 MEAN 0.46 MAX 1.61 MIN -1.19
WTR YR 2003 MEAN 0.36 MAX 1.61 MIN -1.19

e Estimated from reconstructed graph

01310521 HUDSON BAY AT FREEPORT, NY

LOCATION.--Lat 40°37'39", long 73°34'33", Nassau County, Hydrologic Unit 2030202, at Town of Hempstead Guy Lombardo Marina, in Freeport.

PERIOD OF RECORD.--October 1999 to current year. January 1975 to November 1993, in files of Town of Hempstead Department of Conservation & Waterways.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. January 1975 to November 1993, water-stage recorder at site 1100 ft west.

REMARKS.--Records excellent except those in November and January to May, which are good; and in December and June to September, which are fair. Satellite and telephone elevation telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5.25 ft, Mar. 7, 2001; minimum, -3.86 ft, Feb. 11, 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.--Storm tides of Dec. 11, 1992, and Oct. 31, 1991, reached elevations of 7.2 and 7.0 ft, respectively, from information provided by Town of Hempstead Department of Conservation & Waterways. Minimum elevation recorded, -4.4 ft, Mar. 16, 1980, from information provided by Town of Hempstead Department of Conservation & Waterways.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 5.17 ft, Jan. 3; minimum, -3.43 ft, Jan. 22.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.00	0.92	0.19	1.33	1.10	1.04	0.39	1.12	1.67	1.02	1.19	1.13
2	0.83	0.56	0.13	1.82	0.44	1.34	0.71	1.13	0.89	1.09	1.09	1.53
3	1.23	0.87	0.15	2.45	0.10	0.24	1.04	1.19	0.74	1.30	0.99	1.61
4	2.00	1.25	0.36	1.87	0.79	0.23	1.28	1.06	1.13	1.18	1.14	1.48
5	1.45	1.35	0.96	1.29	-0.55	0.61	1.58	0.96	1.22	0.99	1.14	1.39
6	1.33	1.74	1.29	1.33	-0.38	0.96	0.45	1.02	0.90	0.95	1.21	1.37
7	1.63	1.16	0.69	1.04	0.17	0.91	0.55	1.01	0.92	1.15	1.20	1.36
8	1.35	1.01	-0.05	0.92	0.12	0.56	1.47	1.13	1.22	1.23	1.32	1.44
9	1.27	0.56	0.11	1.01	-0.39	0.59	1.23	0.96	1.49	1.25	1.26	1.69
10	1.32	1.19	0.47	1.18	0.28	0.28	1.28	0.92	1.12	1.50	1.31	1.35
11	1.70	1.14	1.18	0.15	0.11	0.32	1.61	1.26	1.19	1.66	1.22	1.13
12	2.43	0.89	1.18	-0.25	-0.06	0.31	1.49	1.55	1.21	1.49	1.10	1.66
13	1.99	1.24	1.34	-0.02	-0.56	0.55	1.02	1.22	1.45	1.20	1.02	1.41
14	1.21	1.11	1.77	-0.09	-0.51	0.70	0.75	1.14	1.42	1.07	0.91	1.28
15	1.75	0.80	0.61	0.49	-0.10	0.65	0.59	1.07	1.33	1.13	1.12	1.32
16	2.72	1.37	0.90	0.34	0.15	0.86	0.51	1.39	1.25	1.23	1.31	1.24
17	1.65	2.28	1.26	0.64	1.82	1.31	1.72	1.23	0.95	1.02	1.33	1.23
18	1.39	0.38	1.14	1.08	1.52	1.52	1.34	0.84	1.12	1.04	1.35	1.88
19	1.35	0.10	1.01	0.92	0.82	1.54	1.00	0.71	1.29	1.11	1.11	1.96
20	0.83	0.93	1.71	0.02	0.34	1.25	0.99	0.69	1.44	1.09	0.83	1.29
21	1.17	1.18	0.74	-0.32	0.39	1.13	1.10	0.71	1.54	1.25	1.02	1.27
22	1.14	1.65	0.65	-0.93	0.95	0.95	1.35	0.91	1.37	1.22	1.14	1.52
23	0.81	-0.12	0.51	-0.46	1.10	0.79	0.91	1.06	1.38	1.12	1.12	1.77
24	0.84	-0.43	0.44	0.35	-0.48	0.88	0.58	1.33	1.36	1.00	1.11	1.31
25	1.07	0.06	1.87	0.42	-0.41	0.90	1.02	1.11	1.36	0.82	1.09	1.47
26	1.93	0.88	0.35	0.36	0.29	0.90	1.63	1.47	1.38	0.76	1.25	1.49
27	1.01	0.96	0.72	0.22	0.71	0.78	1.22	1.26	1.44	0.81	1.30	1.68
28	0.81	0.68	0.85	0.36	1.30	0.78	1.02	1.29	1.25	0.95	1.15	1.87
29	1.02	0.68	0.81	0.33	---	1.03	0.89	1.29	1.12	1.25	1.21	1.56
30	1.37	0.92	0.88	0.56	---	0.84	0.95	1.38	1.03	1.02	1.11	0.94
31	1.47	---	1.28	0.94	---	0.50	---	1.52	---	1.14	1.13	---
MEAN	1.39	0.91	0.82	0.62	0.32	0.81	1.06	1.13	1.24	1.13	1.15	1.45
MAX	2.72	2.28	1.87	2.45	1.82	1.54	1.72	1.55	1.67	1.66	1.35	1.96
MIN	0.81	-0.43	-0.05	-0.93	-0.56	0.23	0.39	0.69	0.74	0.76	0.83	0.94

CAL YR 2002 MEAN 0.93 MAX 2.72 MIN -0.70
WTR YR 2003 MEAN 1.01 MAX 2.72 MIN -0.93

01310521 HUDSON BAY AT FREEPORT, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL HIGH-HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.88	3.18	3.17	3.85	3.75	3.42	2.70	3.48	3.33	3.49	3.57	3.73
2	2.96	3.08	3.06	4.84	3.35	3.74	2.99	3.57	3.22	3.63	3.26	4.03
3	3.55	3.59	3.06	5.17	2.51	2.52	3.30	3.56	3.17	3.55	3.32	4.04
4	4.58	4.28	3.64	4.90	3.51	2.75	3.62	3.13	3.50	3.31	3.55	3.62
5	4.14	4.37	3.83	3.97	1.55	2.87	3.42	3.01	3.20	2.90	3.46	3.67
6	4.28	5.06	4.36	3.86	1.70	2.93	2.17	3.04	2.35	3.10	3.70	3.75
7	4.86	3.99	3.53	3.01	1.95	2.66	1.76	3.00	2.85	3.40	3.69	3.75
8	4.32	3.67	2.67	2.71	2.04	2.64	2.92	2.40	3.21	3.59	3.80	4.09
9	4.33	3.07	2.45	2.71	1.55	1.88	3.08	3.09	3.76	3.78	3.88	4.30
10	4.17	3.41	2.32	2.90	1.53	2.00	3.31	2.91	3.58	4.34	3.96	3.68
11	4.29	3.11	2.72	2.20	2.08	1.91	3.32	3.24	3.98	4.41	3.96	3.55
12	4.68	2.49	3.71	1.11	2.16	2.07	3.46	3.70	4.15	4.25	3.79	3.79
13	3.93	2.84	2.79	1.85	1.28	1.90	3.09	3.74	4.62	4.06	3.54	3.61
14	3.06	2.81	3.77	1.55	1.47	2.46	3.08	3.99	4.55	4.02	3.30	3.33
15	3.49	2.48	2.24	2.65	2.41	2.71	3.36	4.15	4.37	3.91	3.35	3.22
16	5.11	3.40	2.91	2.41	2.77	3.10	3.74	4.87	4.05	3.65	3.39	2.99
17	3.57	4.43	3.32	3.13	4.74	3.84	5.01	4.27	3.63	3.29	3.26	3.01
18	3.30	3.03	3.51	3.54	4.58	4.29	4.30	3.84	3.56	3.18	3.12	3.42
19	3.37	2.48	3.21	3.93	3.60	4.35	4.05	3.55	3.10	2.93	2.83	3.35
20	2.95	3.37	4.23	3.02	3.00	4.54	3.78	3.19	3.59	2.87	2.54	2.92
21	3.32	3.49	3.50	2.59	3.01	3.94	2.93	2.34	3.33	2.97	2.76	3.14
22	3.30	4.21	3.07	1.85	2.84	3.65	3.70	2.90	3.10	3.05	3.08	3.48
23	3.14	2.16	2.83	1.92	4.02	2.73	3.51	2.96	3.16	2.86	3.05	3.89
24	3.08	1.83	2.88	2.77	1.41	3.38	2.43	2.96	3.19	2.80	3.13	3.81
25	3.28	2.40	5.12	3.01	2.14	3.22	2.87	2.80	3.31	2.78	3.39	4.07
26	4.14	3.04	3.21	2.69	2.24	3.15	3.45	3.18	3.46	3.03	3.89	4.01
27	2.83	2.77	2.78	3.07	2.80	2.83	3.17	3.14	3.65	3.17	3.91	4.42
28	2.67	2.73	3.10	2.82	3.52	2.65	3.05	3.38	3.45	3.59	3.80	4.77
29	2.94	2.90	3.25	2.79	---	3.08	3.01	3.60	3.55	3.76	3.77	4.70
30	3.40	3.26	3.25	3.02	---	3.02	3.36	3.65	3.42	3.57	3.55	3.73
31	3.53	---	4.00	3.42	---	2.90	---	3.94	---	3.77	3.76	---
MEAN	3.66	3.23	3.27	3.01	2.63	3.00	3.26	3.37	3.51	3.45	3.46	3.73
MAX	5.11	5.06	5.12	5.17	4.74	4.54	5.01	4.87	4.62	4.41	3.96	4.77
MIN	2.67	1.83	2.24	1.11	1.28	1.88	1.76	2.34	2.35	2.78	2.54	2.92

CAL YR 2002 MEAN 3.25 MAX 5.12 MIN 1.39
WTR YR 2003 MEAN 3.30 MAX 5.17 MIN 1.11

01310521 HUDSON BAY AT FREEPORT, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL LOW-HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.29	3.06	1.83	3.56	2.97	2.92	2.36	2.79	3.27	2.51	3.21	3.25
2	2.16	2.81	2.46	3.53	1.78	3.34	2.68	2.74	2.19	2.71	3.18	*---
3	2.80	3.49	2.27	4.36	2.22	1.97	2.99	2.83	2.12	3.17	3.13	3.31
4	4.20	3.73	2.37	2.96	2.14	2.06	2.81	2.61	2.70	3.00	*---	3.13
5	3.88	3.78	3.57	2.91	1.04	2.66	3.17	2.48	2.62	*---	2.92	2.84
6	3.94	3.02	2.75	3.03	1.47	2.81	1.86	2.30	*---	3.01	2.78	2.57
7	3.75	3.23	2.02	2.74	*---	2.60	*---	2.26	2.55	3.04	2.55	2.91
8	3.62	2.10	1.01	*---	1.36	2.03	2.73	*---	3.02	3.03	2.66	2.95
9	3.41	2.48	*---	2.24	0.65	*---	2.15	2.29	3.26	2.86	2.90	3.45
10	3.13	*---	2.22	2.53	1.32	1.51	2.33	2.42	2.92	2.97	2.99	3.38
11	*---	2.89	2.05	1.38	0.88	1.25	2.94	2.97	2.87	3.45	3.09	3.08
12	3.73	2.23	2.27	0.78	0.90	1.21	3.05	3.60	3.17	3.35	3.11	3.70
13	3.79	2.76	2.38	0.89	0.90	1.85	2.92	3.29	3.35	3.10	3.14	3.00
14	2.47	2.71	2.94	1.11	1.18	2.17	3.01	3.36	3.51	3.06	2.95	2.90
15	2.99	2.39	2.16	1.72	1.59	2.39	3.00	3.25	3.34	3.12	3.12	2.96
16	3.80	2.64	2.27	1.92	2.48	3.05	2.80	3.49	3.50	3.37	3.26	2.29
17	3.25	3.73	2.87	2.23	4.15	3.74	4.06	3.51	2.95	3.03	2.86	*---
18	3.08	0.93	2.64	3.08	3.44	4.14	3.70	3.09	3.05	2.93	*---	2.63
19	2.95	2.20	2.68	2.31	3.24	4.34	3.23	2.73	*---	*---	2.71	3.32
20	2.84	2.52	3.07	1.46	2.98	3.75	3.07	2.52	3.06	2.83	2.02	2.21
21	3.06	2.83	1.86	1.59	2.77	3.50	*---	*---	3.28	2.60	1.88	2.13
22	2.88	2.79	2.48	0.72	*---	3.02	2.92	2.55	3.01	2.23	1.93	2.62
23	2.32	0.87	2.26	*---	3.33	*---	2.38	2.60	2.79	2.21	2.23	3.44
24	2.35	1.02	2.64	2.31	1.24	2.53	1.92	2.96	2.68	2.03	2.50	3.16
25	2.86	*---	*---	2.12	0.72	2.38	2.55	2.77	2.53	1.92	2.36	3.67
26	2.78	1.82	1.95	1.88	1.81	2.30	3.01	2.81	2.46	1.81	2.70	3.96
27	*---	2.67	2.44	1.48	2.32	2.22	2.96	2.79	2.68	1.96	3.39	4.14
28	2.25	2.54	2.49	1.81	3.13	2.40	2.80	2.68	2.59	2.28	3.18	3.89
29	2.23	2.21	2.32	2.06	---	2.93	2.68	2.70	2.53	2.90	3.59	3.13
30	2.61	2.58	2.79	2.40	---	2.94	2.54	2.87	2.45	2.77	3.28	*---
31	3.13	---	3.20	2.99	---	2.59	---	2.87	---	2.99	3.32	---
MEAN	3.05	2.57	2.42	2.21	2.00	2.64	2.81	2.83	2.87	2.77	2.86	3.11
MAX	4.20	3.78	3.57	4.36	4.15	4.34	4.06	3.60	3.51	3.45	3.59	4.14
MIN	2.16	0.87	1.01	0.72	0.65	1.21	1.86	2.26	2.12	1.81	1.88	2.13

CAL YR 2002 MEAN 2.63 MAX 4.20 MIN 0.51
WTR YR 2003 MEAN 2.68 MAX 4.36 MIN 0.65

* Only a single high tide occurred

01310521 HUDSON BAY AT FREEPORT, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL HIGH-LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-0.49	-1.12	*---	-1.28	-1.19	-0.85	-1.88	-1.07	-0.16	-0.96	-1.02	-0.91
2	-1.09	*---	-2.71	-0.63	-1.24	-0.88	-1.52	-0.91	-0.85	-0.91	-1.02	-0.25
3	-0.78	-1.97	-2.49	0.21	-2.26	-1.20	-1.00	-0.70	-0.97	-0.65	-0.84	-0.23
4	*---	-1.57	-2.47	0.31	-1.33	-1.77	-0.74	-0.89	-0.46	-0.61	-0.61	-0.39
5	-0.73	-1.52	-1.60	-1.06	-2.20	-1.69	-0.04	-0.81	-0.33	-0.80	-0.62	-0.42
6	-1.52	-0.76	-0.97	-0.82	-2.22	-1.17	-1.20	-0.44	-0.67	-0.69	-0.83	-0.48
7	-1.13	-1.32	-1.34	-0.67	-1.37	-0.97	-0.95	-0.39	-0.39	-0.56	-0.83	*---
8	-1.47	-0.82	-1.87	-0.10	-1.26	-1.18	0.24	-0.04	-0.47	-0.76	-0.75	-0.76
9	-1.29	-1.16	-1.40	-0.26	-1.66	-0.58	0.25	-0.35	-0.56	-0.88	*---	-0.41
10	-0.97	-0.41	-0.90	0.25	-0.63	-0.90	0.15	-0.61	-1.17	-0.81	-1.04	-0.91
11	0.07	-0.04	0.05	-0.43	-0.76	-0.72	0.22	-0.20	-1.31	*---	-1.23	-1.10
12	1.00	-0.54	0.28	-1.61	-1.92	-0.66	-0.29	-0.72	*---	-0.98	-1.33	-0.34
13	0.56	0.04	-0.05	-1.04	-2.25	-0.65	-1.33	*---	-1.39	-1.28	-1.31	-0.57
14	-0.25	-0.30	0.95	-1.34	-2.23	-1.08	*---	-1.50	-1.26	-1.45	-1.30	-0.53
15	0.21	-0.82	-1.10	-1.39	*---	-1.38	-1.92	-1.80	-1.26	-1.23	-0.82	-0.31
16	1.70	0.59	-0.87	*---	-2.55	*---	-2.49	-1.42	-1.10	-0.82	-0.34	-0.25
17	-0.35	0.33	*---	-1.50	-0.14	-1.43	-1.04	-1.31	-1.30	-0.87	-0.26	0.12
18	*---	*---	-0.59	-1.28	-0.71	-1.32	-1.22	-1.71	-0.67	-0.67	0.02	1.15
19	-0.49	-1.89	-1.20	-1.17	-1.83	-1.23	-1.54	-1.46	-0.29	-0.36	-0.24	0.79
20	-1.29	-1.24	0.06	-1.92	-2.11	-1.61	-1.24	-1.21	0.12	-0.29	-0.52	0.10
21	-0.97	-0.97	-0.75	-2.68	-2.00	-1.34	-0.73	-0.97	0.21	0.15	-0.15	-0.11
22	-1.00	-0.32	-1.55	-3.14	-0.48	-1.34	-0.23	-0.37	-0.05	-0.29	-0.25	-0.13
23	-1.01	-1.22	-1.61	-2.22	-0.15	-1.22	-0.82	-0.31	-0.09	-0.23	-0.34	*---
24	-1.15	-2.10	-1.66	-1.75	-1.98	-0.82	-0.79	-0.15	-0.27	-0.72	-0.54	-0.93
25	-0.82	-1.42	-0.28	-1.25	-2.18	-0.47	-0.50	-0.55	-0.35	-0.78	*---	-1.08
26	0.35	-0.81	-1.18	-1.40	-1.35	-0.86	0.01	-0.18	*---	*---	-1.00	-1.14
27	-0.51	-0.37	-1.02	-1.69	-1.01	-1.11	*---	*---	-0.39	-1.14	-1.06	-0.99
28	-0.41	-0.86	-1.00	-1.74	*---	-1.02	-0.82	-0.66	-0.69	-0.99	-1.31	-0.62
29	-0.44	-1.02	-1.10	-2.07	---	*---	-1.11	-0.73	-0.84	-0.87	-1.22	-0.76
30	-0.16	-1.23	-1.27	*---	---	-1.10	-1.29	-0.69	-0.97	-1.18	-1.36	-1.15
31	-0.31	---	*---	-1.56	---	-1.23	---	-0.41	---	-1.03	-1.09	---
MEAN	-0.51	-0.89	-1.06	-1.21	-1.50	-1.10	-0.85	-0.78	-0.64	-0.78	-0.80	-0.45
MAX	1.70	0.59	0.95	0.31	-0.14	-0.47	0.25	-0.04	0.21	0.15	0.02	1.15
MIN	-1.52	-2.10	-2.71	-3.14	-2.55	-1.77	-2.49	-1.80	-1.39	-1.45	-1.36	-1.15

CAL YR 2002 MEAN -0.97 MAX 1.70 MIN -3.04
WTR YR 2003 MEAN -0.88 MAX 1.70 MIN -3.14

* Only a single low tide occurred

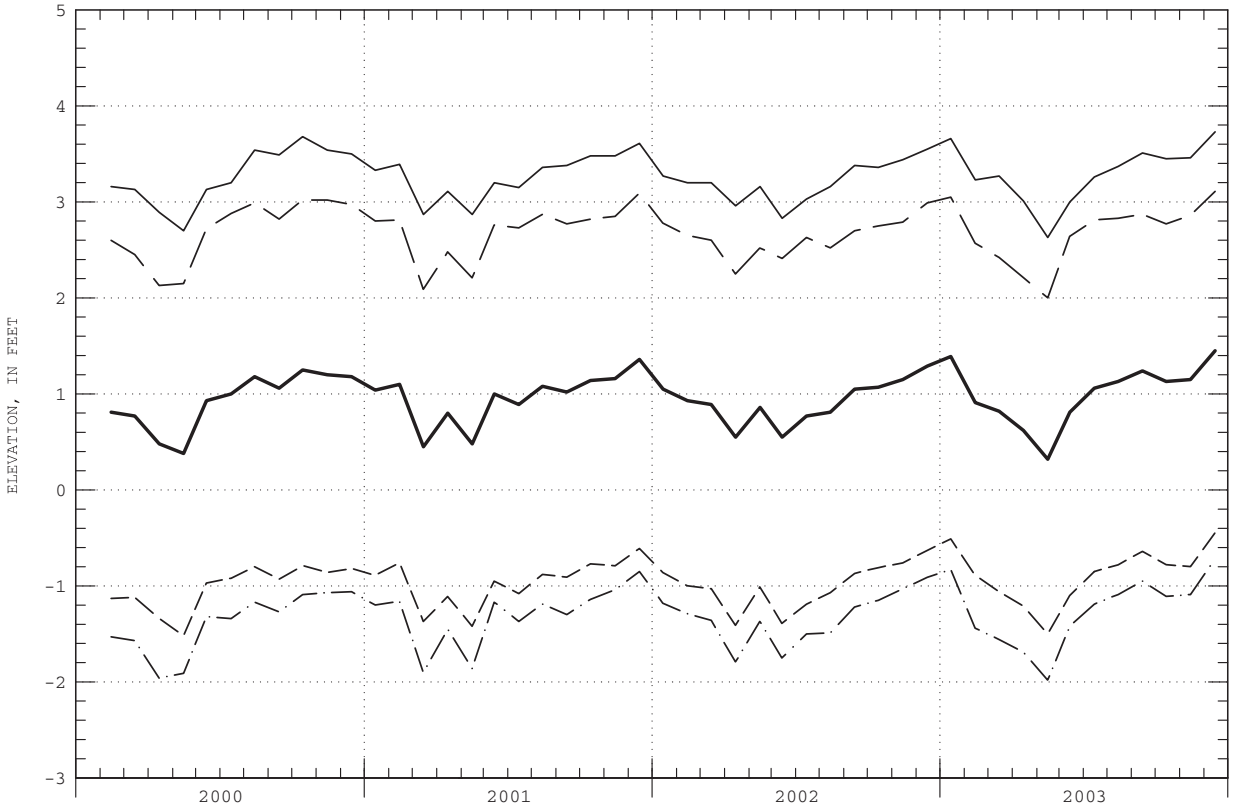
01310521 HUDSON BAY AT FREEPORT, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL LOW-LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-1.01	-2.42	-2.65	-1.59	-1.40	-1.47	-2.23	-1.13	-0.27	-1.29	-1.14	-1.26
2	-1.25	-2.08	-2.72	-0.74	-2.20	-1.16	-1.61	-1.22	-1.15	-1.25	-1.33	-0.81
3	-1.06	-2.17	-2.53	-0.44	-2.35	-2.49	-1.34	-1.03	-1.41	-1.09	-1.34	-0.41
4	-0.54	-1.83	-2.62	-0.93	-1.45	-2.23	-1.08	-0.90	-0.95	-0.93	-1.06	-0.60
5	-1.45	-1.84	-2.48	-1.07	-2.88	-1.92	-0.38	-0.85	-0.70	-1.16	-1.09	-0.82
6	-2.10	-0.87	-1.28	-0.83	-2.41	-1.24	-1.32	-0.77	-0.97	-1.31	-0.83	-0.77
7	-1.32	-1.46	-1.70	-0.90	-1.47	-1.30	-1.49	-0.69	-1.21	-1.04	-1.04	-0.67
8	-1.49	-1.28	-2.04	-1.13	-1.40	-1.22	-0.06	-0.44	-0.88	-1.02	-1.03	-1.08
9	-1.56	-1.65	-1.90	-0.69	-1.80	-1.16	-0.25	-0.84	-0.66	-1.03	-1.11	-0.81
10	-1.18	-0.60	-1.25	-0.61	-1.02	-1.16	-0.27	-1.04	-1.38	-1.14	-1.06	-0.95
11	-0.69	-0.83	-0.62	-1.79	-1.48	-0.94	0.12	-1.07	-1.47	-0.85	-1.26	-1.36
12	0.57	-0.57	-1.31	-1.66	-2.40	-0.98	-0.64	-0.99	-1.64	-1.06	-1.39	-0.74
13	0.03	-0.90	-0.25	-2.40	-2.61	-1.09	-1.36	-1.50	-1.41	-1.40	-1.45	-0.63
14	-0.49	-1.03	-0.97	-1.82	-2.94	-1.14	-1.96	-1.76	-1.40	-1.53	-1.66	-0.89
15	0.07	-1.28	-1.12	-1.76	-2.58	-1.70	-2.53	-1.95	-1.38	-1.50	-1.42	-0.66
16	0.14	-0.65	-1.25	-1.84	-2.56	-1.80	-2.68	-1.72	-1.42	-1.32	-1.00	-0.32
17	-0.36	0.03	-0.85	-1.70	-1.94	-1.52	-1.54	-1.46	-1.46	-1.46	-0.67	-0.33
18	-0.68	-1.96	-1.12	-1.37	-1.39	-1.40	-1.49	-1.79	-1.20	-1.25	-0.60	0.41
19	-0.80	-2.82	-1.22	-1.64	-1.89	-1.45	-1.67	-1.77	-0.92	-1.02	-0.45	0.25
20	-1.33	-1.49	-0.59	-2.86	-2.35	-1.69	-1.38	-1.56	-0.75	-0.89	-0.64	-0.37
21	-1.17	-1.02	-2.12	-3.10	-2.03	-1.60	-1.29	-1.35	-0.49	-0.49	-0.57	-0.46
22	-1.02	-0.55	-1.81	-3.43	-1.59	-1.50	-0.73	-1.12	-0.54	-0.46	-0.40	-0.23
23	-1.52	-2.43	-1.62	-3.29	-1.69	-1.46	-0.83	-0.91	-0.39	-0.52	-0.87	-0.10
24	-1.29	-2.40	-1.88	-1.78	-2.62	-1.14	-1.42	-0.54	-0.42	-0.75	-1.02	-1.14
25	-0.87	-2.08	-0.78	-1.60	-2.58	-0.88	-0.96	-0.70	-0.44	-1.15	-0.83	-1.15
26	0.12	-0.87	-1.97	-1.59	-1.77	-0.93	-0.13	-0.51	-0.51	-0.98	-1.14	-1.33
27	-0.70	-0.96	-1.44	-2.22	-1.51	-1.25	-0.94	-0.88	-0.41	-1.21	-1.09	-1.29
28	-0.72	-1.59	-1.43	-1.99	-1.03	-1.44	-1.31	-0.79	-0.70	-1.48	-1.50	-0.90
29	-0.74	-1.88	-1.86	-2.12	---	-1.22	-1.38	-0.82	-0.99	-1.18	-1.59	-0.83
30	-0.44	-1.58	-1.52	-1.81	---	-1.44	-1.40	-0.83	-1.13	-1.33	-1.57	-1.44
31	-0.90	---	-1.32	-1.61	---	-2.17	---	-0.71	---	-1.43	-1.53	---
MEAN	-0.83	-1.44	-1.56	-1.69	-1.98	-1.42	-1.19	-1.09	-0.95	-1.11	-1.09	-0.72
MAX	0.57	0.03	-0.25	-0.44	-1.02	-0.88	0.12	-0.44	-0.27	-0.46	-0.40	0.41
MIN	-2.10	-2.82	-2.72	-3.43	-2.94	-2.49	-2.68	-1.95	-1.64	-1.53	-1.66	-1.44

CAL YR 2002 MEAN -1.34 MAX 0.57 MIN -3.60
WTR YR 2003 MEAN -1.25 MAX 0.57 MIN -3.43

01310521 HUDSON BAY AT FREEPORT, NY—Continued



WATER YEAR MONTHLY MEAN ELEVATION (BOLD) WITH MONTHLY MEAN TIDAL HIGH-HIGH (SOLID), LOW-HIGH (LONG-DASHED), HIGH-LOW (SHORT-DASHED), AND LOW-LOW (DOT-DASHED) ELEVATIONS FOR PERIOD OF RECORD.

01310740 REYNOLDS CHANNEL AT POINT LOOKOUT, NY

LOCATION.--Lat 40°35'36", long 73°35'03", Nassau County, Hydrologic Unit 2030202, at Town of Hempstead East Marina, 750 ft east of Loop Parkway Bridge, in Point Lookout.

PERIOD OF RECORD.--December 1997 to current year. January 1974 to June 1994, in files of Town of Hempstead Department of Conservation & Waterways. Precipitation, wind speed and direction, air and water temperature, relative humidity, and barometric pressure records for March 1998 to current year are unpublished and available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. January 1974 to June 1994, water-stage recorder at site 150 ft northeast.

REMARKS.--Records fair except those in December to March, which are poor. Satellite and telephone telemeter for elevation, precipitation, wind speed and direction, air and water temperature, relative humidity, and barometric pressure parameters at station. Interruptions of record on Dec. 26 and Jan. 23 were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5.64 ft, Feb. 24, 1998; minimum, -4.07 ft, Feb. 11, 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.--Storm tide of Sept. 27, 1985, reached an elevation of 7.3 ft, from information provided by Town of Hempstead Department of Conservation & Waterways. Storm tide of Dec. 11, 1992, reached an elevation of 7.3 ft, from high-water mark at site 4.0 mi west. Minimum elevation recorded, -4.9 ft, Jan. 11, 1978, Mar. 16, 1980, from information provided by Town of Hempstead Department of Conservation & Waterways.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 5.32 ft, Jan. 3; minimum, -3.56 ft, Jan. 22.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.96	0.83	0.08	1.31	1.09	1.01	0.37	1.09	1.66	1.00	1.17	1.09
2	0.78	0.49	0.03	1.81	0.40	1.33	0.70	1.14	0.88	1.06	1.06	1.52
3	1.20	0.81	0.12	2.46	0.07	0.24	1.04	1.23	0.71	1.24	0.96	1.60
4	1.94	1.16	0.28	1.82	0.75	0.20	1.29	1.08	1.14	1.16	1.11	1.44
5	1.35	1.27	0.94	1.24	-0.60	0.60	1.59	0.99	1.19	0.96	1.12	1.36
6	1.27	1.71	1.24	1.30	-0.39	0.99	0.47	1.06	0.86	0.93	1.19	1.37
7	1.55	1.11	0.61	1.04	0.19	0.91	0.60	1.04	0.89	1.13	1.16	1.32
8	1.29	0.92	-0.10	0.88	0.11	0.55	1.53	1.18	1.18	1.20	1.25	1.43
9	1.20	0.52	0.10	1.00	-0.41	0.61	1.29	0.97	1.44	1.23	1.22	1.66
10	1.25	1.15	0.43	1.19	0.31	0.32	1.31	0.92	1.05	1.48	1.26	1.33
11	1.68	1.09	1.25	0.13	0.12	0.33	1.67	1.27	1.14	1.63	1.19	1.11
12	2.41	0.92	1.17	-0.24	-0.12	0.33	1.52	1.50	1.15	1.44	1.06	1.66
13	1.97	1.26	1.37	-0.04	-0.57	0.59	0.99	1.16	1.39	1.16	0.97	1.42
14	1.22	1.08	1.76	-0.06	-0.54	0.73	0.69	1.08	1.35	1.05	0.85	1.24
15	1.75	0.75	0.60	0.47	-0.12	0.61	0.50	1.00	1.23	1.10	1.10	1.32
16	2.73	1.40	0.91	0.32	0.17	0.83	0.45	1.33	1.18	1.16	1.27	1.25
17	1.61	2.29	1.26	0.65	1.90	1.28	1.66	1.17	0.88	0.98	1.32	1.24
18	1.35	0.26	1.11	1.07	1.46	1.48	1.26	0.77	1.05	1.02	1.34	1.96
19	1.28	0.08	0.88	0.85	0.74	1.47	0.95	0.66	1.24	1.09	1.11	1.90
20	0.82	0.90	1.60	-0.05	0.27	1.17	0.95	0.63	1.38	1.07	0.81	1.31
21	1.16	1.15	0.67	-0.35	0.34	1.07	1.07	0.68	1.54	1.22	1.02	1.32
22	1.11	1.62	0.61	-0.98	0.94	0.91	1.34	0.91	1.38	1.21	1.15	1.52
23	0.78	-0.17	0.47	e-0.45	1.06	0.76	0.93	1.06	1.38	1.12	1.13	1.73
24	0.84	-0.48	0.41	0.36	-0.50	0.88	0.61	1.34	1.35	0.95	1.10	1.29
25	1.07	0.03	1.90	0.38	-0.40	0.89	1.02	1.10	1.35	0.80	1.04	1.45
26	1.91	0.87	e0.34	0.33	0.31	0.91	1.65	1.48	1.37	0.74	1.22	1.45
27	0.98	0.96	0.70	0.22	0.71	0.77	1.20	1.22	1.43	0.80	1.26	1.61
28	0.80	0.64	0.82	0.31	1.31	0.77	0.99	1.27	1.23	0.96	1.09	1.85
29	1.02	0.60	0.77	0.28	---	0.98	0.88	1.25	1.10	1.24	1.15	1.56
30	1.37	0.84	0.83	0.54	---	0.86	0.94	1.35	1.03	1.01	1.04	0.95
31	1.44	---	1.22	0.93	---	0.51	---	1.50	---	1.13	1.08	---
MEAN	1.36	0.87	0.79	0.60	0.31	0.80	1.05	1.11	1.21	1.11	1.12	1.44
MAX	2.73	2.29	1.90	2.46	1.90	1.48	1.67	1.50	1.66	1.63	1.34	1.96
MIN	0.78	-0.48	-0.10	-0.98	-0.60	0.20	0.37	0.63	0.71	0.74	0.81	0.95

CAL YR 2002 MEAN 0.91 MAX 2.73 MIN -0.69
WTR YR 2003 MEAN 0.98 MAX 2.73 MIN -0.98

e Estimated from reconstructed graph

01310740 REYNOLDS CHANNEL AT POINT LOOKOUT, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL HIGH-HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.91	3.22	3.21	3.93	3.85	3.51	2.80	3.49	3.44	3.60	3.65	3.77
2	3.01	3.11	3.04	4.95	3.43	3.85	3.10	3.72	3.28	3.68	3.35	4.10
3	3.65	3.64	3.10	5.32	2.55	2.57	3.36	3.68	3.27	3.64	3.38	4.08
4	4.62	4.32	3.71	4.98	3.54	2.84	3.71	3.26	3.58	3.37	3.62	3.66
5	4.17	4.43	3.92	4.06	1.58	2.95	3.48	3.14	3.23	3.04	3.58	3.73
6	4.34	5.18	4.44	3.91	1.75	3.05	2.30	3.15	2.38	3.11	3.77	3.85
7	4.92	4.08	3.56	3.13	2.00	2.80	3.02	2.30	2.86	3.46	3.77	3.77
8	4.46	3.76	2.71	2.78	2.11	2.72	3.20	3.10	3.29	3.67	3.86	4.13
9	4.37	3.13	2.51	2.78	1.60	1.95	2.26	3.15	3.77	3.88	3.98	4.30
10	4.18	3.45	2.35	2.93	1.58	2.16	3.36	2.93	3.61	4.41	4.01	3.77
11	4.37	3.14	2.82	2.21	2.16	1.96	3.43	3.29	4.05	4.48	4.05	3.69
12	4.72	2.60	3.77	1.14	2.16	2.15	3.61	3.73	4.23	4.30	3.84	3.89
13	3.99	2.91	2.88	1.92	1.31	1.97	3.16	3.81	4.71	4.14	3.61	3.67
14	3.15	2.81	3.82	1.62	1.52	2.61	3.16	4.07	4.60	4.09	3.37	3.36
15	3.56	2.53	2.26	2.76	2.55	2.78	3.38	4.21	4.43	3.92	3.42	3.25
16	5.11	3.50	2.98	2.45	2.84	3.17	3.87	4.97	4.10	3.70	3.40	3.08
17	3.63	4.54	3.42	3.21	4.84	3.91	5.10	4.31	3.67	3.37	3.42	3.07
18	3.35	3.10	3.58	3.62	4.72	4.37	4.37	3.90	3.64	3.19	3.16	3.57
19	3.42	2.51	3.31	3.97	3.70	4.41	4.05	3.64	3.09	2.98	2.87	3.40
20	3.02	3.38	4.12	3.05	3.08	4.58	3.84	3.23	3.61	2.88	2.61	2.99
21	3.40	3.59	3.52	2.64	3.10	3.96	2.96	2.38	3.41	3.02	2.84	3.23
22	3.38	4.20	3.13	1.88	2.95	3.73	3.79	2.98	3.10	3.12	3.11	3.57
23	3.20	2.22	2.87	1.96	4.10	2.83	3.59	3.02	3.19	2.91	3.10	4.03
24	3.17	1.84	2.93	2.89	1.50	3.45	2.51	3.04	3.30	2.79	3.23	3.82
25	3.33	2.44	5.29	3.05	2.19	3.29	2.93	2.85	3.41	2.85	3.41	4.12
26	4.20	3.12	3.23	2.74	2.35	3.22	3.53	3.26	3.53	3.09	3.94	4.07
27	2.87	2.87	2.86	3.15	2.90	2.89	3.24	3.23	3.72	3.27	4.03	4.47
28	2.74	2.77	3.17	2.87	3.60	2.69	3.09	3.47	3.48	3.66	3.82	4.89
29	3.02	2.85	3.29	2.87	---	3.14	3.09	3.65	3.61	3.81	3.84	4.80
30	3.49	3.27	3.32	3.09	---	3.22	3.44	3.72	3.54	3.66	3.62	3.83
31	3.61	---	4.06	3.52	---	2.94	---	3.97	---	3.86	3.81	---
MEAN	3.72	3.28	3.33	3.08	2.70	3.09	3.36	3.44	3.57	3.51	3.53	3.80
MAX	5.11	5.18	5.29	5.32	4.84	4.58	5.10	4.97	4.71	4.48	4.05	4.89
MIN	2.74	1.84	2.26	1.14	1.31	1.95	2.26	2.30	2.38	2.79	2.61	2.99

CAL YR 2002 MEAN 3.31 MAX 5.29 MIN 1.46
WTR YR 2003 MEAN 3.37 MAX 5.32 MIN 1.14

01310740 REYNOLDS CHANNEL AT POINT LOOKOUT, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL LOW-HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.34	3.10	1.83	3.65	3.03	3.01	2.44	2.83	3.41	2.57	3.29	3.29
2	2.17	2.90	2.44	3.57	1.83	3.42	2.75	2.78	2.27	2.71	3.27	*---
3	2.85	3.54	2.36	4.50	2.25	2.03	3.05	2.97	2.12	3.11	3.20	3.41
4	4.24	3.76	2.41	3.01	2.13	2.12	2.90	2.74	2.76	3.06	*---	3.20
5	3.96	3.80	3.66	3.01	1.09	2.79	3.28	2.56	2.66	2.99	2.97	2.85
6	4.03	3.08	2.82	3.09	1.51	2.91	1.94	2.40	*---	*---	2.86	2.63
7	3.84	3.26	2.03	2.80	*---	2.68	1.81	*---	2.59	3.09	2.61	2.94
8	3.67	2.14	1.09	*---	1.42	2.11	2.83	2.51	3.07	3.15	2.68	2.99
9	3.47	2.50	*---	2.31	0.69	*---	*---	2.34	3.29	2.91	2.90	3.52
10	3.19	*---	2.23	2.61	1.33	1.58	2.39	2.51	2.96	3.04	3.03	3.48
11	*---	2.86	2.08	1.39	0.97	1.24	3.02	3.02	2.93	3.51	3.14	3.19
12	3.75	2.26	2.32	0.93	0.87	1.25	3.12	3.71	3.22	3.36	3.09	3.78
13	3.83	2.81	2.45	0.94	0.90	1.92	2.97	3.33	3.41	3.15	3.12	3.09
14	2.52	2.76	2.96	1.19	1.24	2.19	3.08	3.40	3.51	3.11	3.01	2.90
15	3.05	2.43	2.20	1.77	1.69	2.44	3.07	3.31	3.34	3.16	3.22	3.00
16	3.92	2.72	2.35	1.97	2.59	3.10	2.88	3.55	3.47	3.36	3.34	2.34
17	3.29	3.82	2.93	2.30	4.37	3.84	4.16	3.58	2.95	3.11	*---	*---
18	3.10	0.93	2.67	3.15	3.44	4.20	3.78	3.13	3.05	2.98	2.95	2.67
19	3.02	2.25	2.60	2.35	3.36	4.40	3.32	2.80	*---	*---	2.76	3.37
20	2.93	2.54	3.16	1.49	3.02	3.82	3.11	2.54	3.14	2.82	2.09	2.23
21	3.13	2.84	1.88	1.66	2.81	3.57	*---	*---	3.30	2.62	1.91	2.21
22	2.89	2.80	2.50	0.77	*---	3.12	3.01	2.60	3.09	2.27	1.98	2.65
23	2.34	0.84	2.31	*---	3.40	*---	2.45	2.64	2.86	2.28	2.28	3.48
24	2.40	1.02	2.72	2.42	1.26	2.56	2.06	3.00	2.75	2.04	2.52	3.22
25	2.86	*---	*---	2.14	0.82	2.44	2.61	2.83	2.56	1.87	2.45	3.71
26	2.80	1.86	1.96	1.94	1.88	2.35	3.10	2.86	2.49	1.85	2.77	4.06
27	*---	2.76	2.49	1.55	2.37	2.28	3.00	2.82	2.73	2.02	3.36	4.20
28	2.31	2.60	2.56	1.83	3.20	2.46	2.86	2.75	2.61	2.35	3.30	4.02
29	2.23	2.22	2.42	2.12	---	2.97	2.74	2.74	2.58	2.99	3.63	3.23
30	2.74	2.57	2.82	2.44	---	3.06	2.60	2.91	2.50	2.87	3.37	*---
31	3.16	---	3.27	3.06	---	2.71	---	2.90	---	3.05	3.35	---
MEAN	3.10	2.61	2.47	2.27	2.06	2.71	2.87	2.90	2.92	2.81	2.91	3.17
MAX	4.24	3.82	3.66	4.50	4.37	4.40	4.16	3.71	3.51	3.51	3.63	4.20
MIN	2.17	0.84	1.09	0.77	0.69	1.24	1.81	2.34	2.12	1.85	1.91	2.21

CAL YR 2002 MEAN 2.68 MAX 4.24 MIN 0.58
WTR YR 2003 MEAN 2.74 MAX 4.50 MIN 0.69

* Only a single high tide occurred

01310740 REYNOLDS CHANNEL AT POINT LOOKOUT, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL HIGH-LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-0.53	-1.17	-2.83	*---	-1.22	*---	-1.93	-1.09	-0.13	-0.96	-1.01	-0.95
2	-1.14	-2.15	-2.65	-0.58	-1.28	-0.95	-1.58	-0.91	-0.86	-0.92	-1.05	-0.23
3	-0.88	*---	*---	0.10	-2.36	-1.18	-1.04	-0.69	-0.99	-0.67	-0.82	-0.24
4	*---	-1.74	-2.69	0.29	-1.36	-1.82	-0.72	-0.86	-0.48	-0.63	-0.60	-0.39
5	-0.89	-1.72	-1.71	-1.14	-2.30	-1.76	-0.07	-0.80	-0.39	-0.77	-0.66	-0.46
6	-1.71	-0.86	-0.97	-0.86	-2.25	-1.09	-1.18	-0.37	-0.69	-0.68	-0.84	-0.44
7	-1.30	-1.42	-1.47	-0.67	-1.38	-0.96	-0.87	-0.34	-0.42	-0.55	-0.88	-0.71
8	-1.62	-0.94	-1.92	-0.12	-1.22	-1.23	0.28	0.01	-0.51	-0.77	-0.88	*---
9	-1.43	-1.19	-1.47	-0.28	-1.68	-0.57	0.33	-0.34	-0.59	-0.90	-1.06	-0.47
10	-1.08	-0.48	-0.90	0.29	-0.53	-0.86	0.18	-0.61	-1.20	-0.86	*---	-0.96
11	0.02	-0.03	0.13	-0.45	-0.77	-0.75	0.29	-0.20	-1.38	*---	-1.29	-1.20
12	0.98	-0.51	0.32	-1.62	-1.96	-0.63	-0.25	-0.78	*---	-1.04	-1.40	-0.40
13	0.56	0.04	-0.03	-1.08	-2.29	-0.55	-1.37	-1.56	-1.45	-1.39	-1.38	-0.59
14	-0.25	-0.32	0.95	-1.30	-2.23	-1.04	*---	*---	-1.36	-1.47	-1.31	-0.62
15	0.21	-0.85	-1.07	-1.43	*---	-1.39	-1.97	-1.93	-1.40	-1.27	-0.82	-0.36
16	1.75	0.63	-0.89	*---	-2.55	*---	-2.63	-1.60	-1.16	-0.89	-0.47	-0.26
17	-0.38	*---	*---	-1.51	-0.09	-1.44	-1.29	-1.47	-1.30	-0.88	-0.29	0.08
18	-0.73	-0.07	-0.60	-1.34	-0.72	-1.47	-1.39	-1.76	-0.74	-0.66	0.08	1.24
19	*---	-1.91	-1.24	-1.22	-1.93	-1.50	-1.63	-1.48	-0.30	-0.32	-0.23	0.68
20	-1.30	-1.35	0.06	-1.98	-2.21	-1.80	-1.31	-1.24	0.07	-0.32	-0.49	0.12
21	-1.06	-0.99	-0.79	-2.74	-2.07	-1.48	-0.75	-0.96	0.23	0.11	-0.14	-0.03
22	-1.03	-0.38	-1.64	-3.27	-0.53	-1.39	-0.20	-0.36	0.01	-0.28	-0.22	-0.16
23	-1.06	-1.28	-1.65	-2.26	-0.14	-1.27	-0.78	-0.30	-0.07	-0.29	-0.29	*---
24	-1.14	-2.22	-1.72	-1.70	-1.98	-0.79	-0.72	-0.12	-0.23	-0.66	-0.54	-0.98
25	-0.82	-1.45	-0.28	-1.30	-2.16	-0.45	-0.51	-0.55	-0.36	-0.76	*---	-1.15
26	0.28	-0.78	e-1.11	-1.41	-1.36	-0.87	0.00	-0.18	*---	*---	-1.09	-1.28
27	-0.52	-0.38	-1.03	-1.67	-1.01	-1.08	-0.84	*---	-0.43	-1.18	-1.10	-1.12
28	-0.40	-0.88	-1.02	-1.78	-0.87	-1.02	*---	-0.70	-0.69	-1.00	-1.55	-0.70
29	-0.45	-1.08	-1.12	-2.08	---	*---	-1.10	-0.77	-0.88	-0.86	-1.36	-0.81
30	-0.17	-1.35	-1.36	*---	---	-1.14	-1.36	-0.72	-0.97	-1.17	-1.44	-1.12
31	-0.34	---	-1.33	-1.56	---	-1.31	---	-0.42	---	-1.02	-1.14	---
MEAN	-0.57	-0.96	-1.10	-1.24	-1.50	-1.14	-0.87	-0.80	-0.67	-0.80	-0.84	-0.48
MAX	1.75	0.63	0.95	0.29	-0.09	-0.45	0.33	0.01	0.23	0.11	0.08	1.24
MIN	-1.71	-2.22	-2.83	-3.27	-2.55	-1.82	-2.63	-1.93	-1.45	-1.47	-1.55	-1.28

CAL YR 2002 MEAN -1.00 MAX 1.75 MIN -3.04
WTR YR 2003 MEAN -0.91 MAX 1.75 MIN -3.27

e Estimated from reconstructed graph
* Only a single low tide occurred

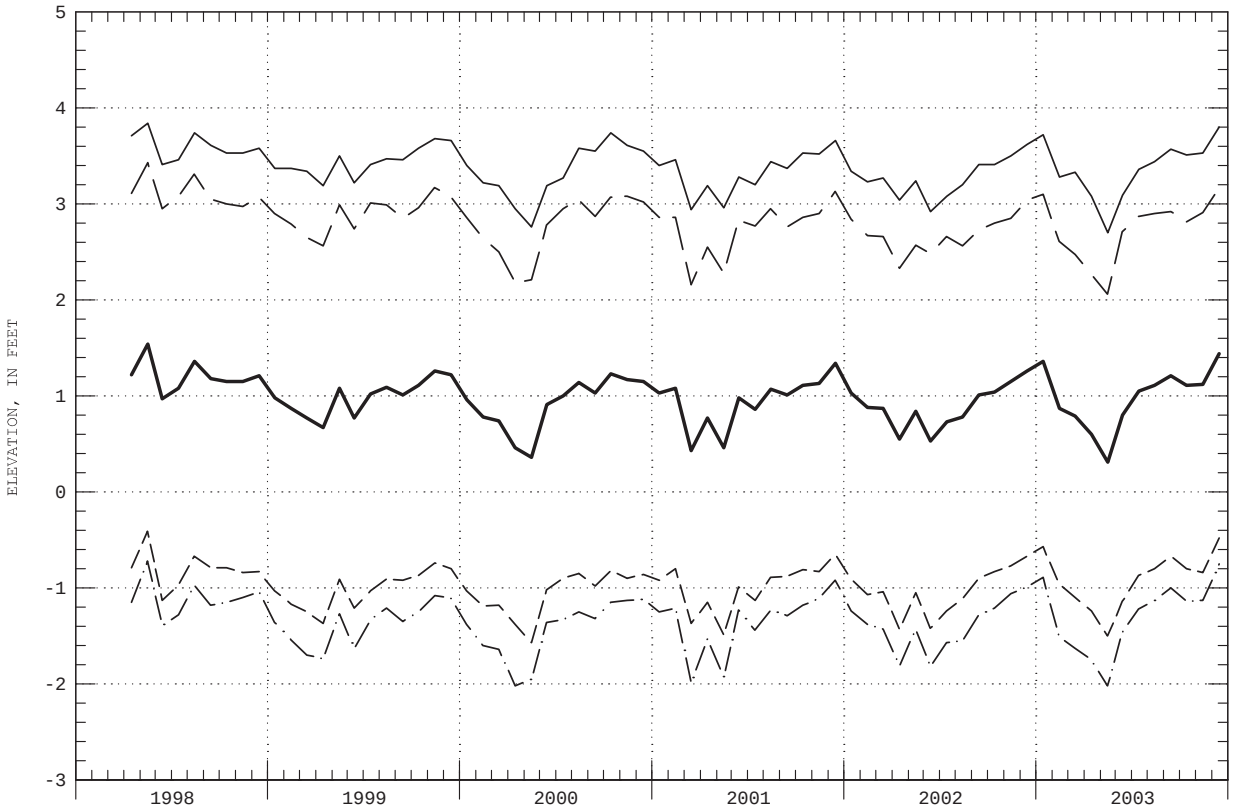
01310740 REYNOLDS CHANNEL AT POINT LOOKOUT, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL LOW-LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-1.11	-2.59	-2.83	-1.77	-1.53	-1.52	-2.25	-1.14	-0.36	-1.32	-1.19	-1.27
2	-1.30	-2.31	-2.86	-0.81	-2.32	-1.18	-1.63	-1.26	-1.19	-1.25	-1.39	-0.88
3	-1.11	-2.09	-2.55	-0.48	-2.40	-2.55	-1.38	-1.00	-1.45	-1.10	-1.38	-0.39
4	-0.64	-2.02	-2.72	-1.09	-1.55	-2.37	-1.11	-0.91	-0.99	-0.95	-1.08	-0.61
5	-1.63	-2.01	-2.59	-1.16	-2.89	-1.95	-0.33	-0.84	-0.70	-1.16	-1.11	-0.85
6	-2.27	-0.98	-1.44	-0.88	-2.41	-1.33	-1.29	-0.72	-1.03	-1.34	-0.86	-0.80
7	-1.52	-1.66	-1.80	-0.90	-1.44	-1.35	-1.44	-0.69	-1.25	-1.06	-1.05	-1.18
8	-1.64	-1.43	-2.09	-1.29	-1.40	-1.24	0.00	-0.43	-0.90	-1.03	-1.09	-0.79
9	-1.65	-1.71	-1.89	-0.71	-1.81	-1.12	-0.21	-0.83	-0.64	-1.04	-1.12	-0.88
10	-1.27	-0.63	-1.34	-0.65	-1.08	-1.08	-0.20	-1.05	-1.42	-1.16	-1.13	-1.03
11	-0.68	-0.92	-0.61	-1.82	-1.41	-0.93	0.14	-1.05	-1.54	-0.84	-1.33	-1.48
12	0.54	-0.57	-1.33	-1.70	-2.46	-0.96	-0.61	-1.08	-1.73	-1.11	-1.51	-0.79
13	-0.01	-0.96	-0.22	-2.41	-2.61	-1.05	-1.39	-1.59	-1.54	-1.43	-1.58	-0.64
14	-0.54	-1.10	-1.02	-1.87	-2.95	-1.09	-2.11	-1.86	-1.51	-1.62	-1.74	-0.93
15	0.06	-1.33	-1.12	-1.76	-2.64	-1.78	-2.64	-2.11	-1.52	-1.61	-1.49	-0.65
16	0.07	-0.71	-1.27	-1.86	-2.62	-1.84	-2.83	-1.94	-1.53	-1.52	-1.02	-0.26
17	-0.43	0.32	-0.81	-1.71	-1.93	-1.58	-1.82	-1.58	-1.56	-1.54	-0.72	-0.30
18	-0.88	-2.10	-1.19	-1.36	-1.54	-1.48	-1.68	-1.91	-1.30	-1.26	-0.57	0.50
19	-0.62	-2.87	-1.47	-1.75	-2.04	-1.59	-1.77	-1.88	-0.95	-1.04	-0.43	0.21
20	-1.38	-1.52	-0.77	-2.99	-2.46	-1.88	-1.50	-1.65	-0.82	-0.90	-0.67	-0.32
21	-1.20	-1.08	-2.24	-3.17	-2.11	-1.67	-1.31	-1.41	-0.49	-0.54	-0.50	-0.46
22	-1.08	-0.62	-1.87	-3.56	-1.67	-1.59	-0.79	-1.13	-0.53	-0.45	-0.38	-0.33
23	-1.55	-2.45	-1.68	-3.31	-1.79	-1.51	-0.84	-0.90	-0.44	-0.52	-0.83	-0.01
24	-1.29	-2.46	-1.95	-1.79	-2.66	-1.14	-1.37	-0.55	-0.42	-0.84	-1.09	-1.13
25	-0.87	-2.09	-0.79	-1.67	-2.58	-0.88	-1.00	-0.72	-0.44	-1.13	-0.88	-1.23
26	0.08	-0.92	-2.01	-1.64	-1.83	-0.91	-0.15	-0.48	-0.49	-0.98	-1.23	-1.32
27	-0.76	-0.99	-1.48	-2.23	-1.51	-1.26	-0.96	-0.93	-0.44	-1.19	-1.16	-1.38
28	-0.72	-1.67	-1.48	-2.03	-1.05	-1.54	-1.37	-0.81	-0.74	-1.52	-1.61	-1.00
29	-0.72	-2.02	-1.97	-2.21	---	-1.34	-1.39	-0.85	-1.03	-1.20	-1.69	-0.85
30	-0.50	-1.73	-1.58	-1.92	---	-1.50	-1.41	-0.86	-1.14	-1.39	-1.70	-1.49
31	-1.02	---	-1.41	-1.62	---	-2.20	---	-0.75	---	-1.45	-1.64	---
MEAN	-0.89	-1.51	-1.63	-1.75	-2.02	-1.46	-1.22	-1.13	-1.00	-1.14	-1.13	-0.75
MAX	0.54	0.32	-0.22	-0.48	-1.05	-0.88	0.14	-0.43	-0.36	-0.45	-0.38	0.50
MIN	-2.27	-2.87	-2.86	-3.56	-2.95	-2.55	-2.83	-2.11	-1.73	-1.62	-1.74	-1.49

CAL YR 2002 MEAN -1.40 MAX 0.54 MIN -3.70
WTR YR 2003 MEAN -1.30 MAX 0.54 MIN -3.56

01310740 REYNOLDS CHANNEL AT POINT LOOKOUT, NY—Continued



WATER YEAR MONTHLY MEAN ELEVATION (BOLD) WITH MONTHLY MEAN TIDAL HIGH-HIGH (SOLID), LOW-HIGH (LONG-DASHED), HIGH-LOW (SHORT-DASHED), AND LOW-LOW (DOT-DASHED) ELEVATIONS FOR PERIOD OF RECORD.

0131079450 HEMPSTEAD LAKE AT HEMPSTEAD, NY

LOCATION.--Lat 40°40'22", long 73°38'49", Nassau County, Hydrologic Unit 2030202, on left side of north face of outlet structure in Hempstead Lake State Park, in West Hempstead.

PERIOD OF RECORD.--May to September 2003.

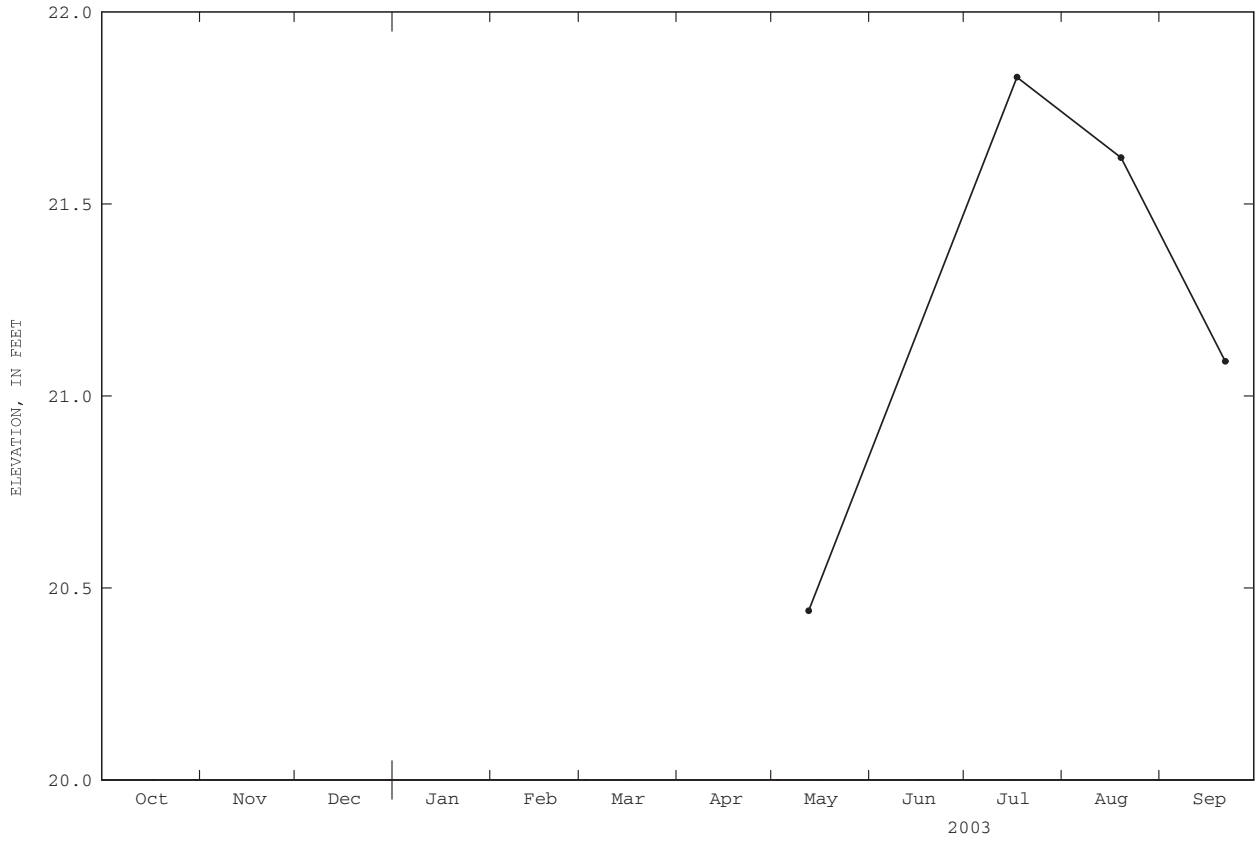
GAGE.--Nonrecording gage read once monthly. Datum of gage is NGVD of 1929.

REMARKS.--Records excellent.

EXTREMES FOR CURRENT PERIOD.--May to September 2003: maximum elevation observed, 21.83 ft, July 18; minimum observed, 20.44 ft, May 13.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION	DATE	ELEVATION
MAY 13	20.44	JUL 18	21.83	AUG 20	21.62	SEP 22	21.09



WATER YEAR MONTHLY ELEVATION MEASUREMENTS.

01311145 EAST ROCKAWAY INLET AT ATLANTIC BEACH, NY

LOCATION.--Lat 40°35'35", long 73°44'16", Nassau County, Hydrologic Unit 2030202, at Nassau County Bridge Authority Atlantic Beach Bridge, in Atlantic Beach.

PERIOD OF RECORD.--August 2002 to current year. November 1972 to October 1998, in files of Town of Hempstead Department of Conservation & Waterways.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. November 1972 to September 1989, water-stage recorder at site 900 ft west. October 1990 to October 1998, water-stage recorder at site 300 ft south.

REMARKS.--Records excellent except those in December to March, June to September, and estimated from reconstructed graph for Apr. 20 and May 18, which are good; and those estimated from reconstructed graph for Apr. 19 and May 16-17 and reported to the nearest 0.01 ft, which are fair; and to the nearest 0.1 ft, which are poor. Satellite and telephone elevation telemeter at station. Interruptions of record on Apr. 19-20 and May 16-18 were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5.56 ft, Dec. 25, 2002; minimum, -3.86 ft, Jan. 22, 2003.

EXTREMES OUTSIDE PERIOD OF RECORD.--Storm tides of Dec. 11, 1992, and Oct. 31, 1991, reached elevations of 7.7 and 6.7 ft, respectively, from information provided by Town of Hempstead Department of Conservation & Waterways. Minimum elevation recorded, -5.0 ft, Jan. 10, 1978, from information provided by Town of Hempstead Department of Conservation & Waterways.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 5.56 ft, Dec. 25; minimum, -3.86 ft, Jan. 22.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.78	0.60	-0.17	1.13	0.91	0.84	0.22	0.96	1.48	0.85	1.00	0.93
2	0.59	0.27	-0.18	1.63	0.16	1.15	0.55	0.97	0.69	0.90	0.88	1.37
3	1.00	0.59	-0.12	2.33	-0.11	0.02	0.90	1.05	0.57	1.10	0.79	1.45
4	1.76	0.93	0.07	1.57	0.56	0.04	1.20	0.90	1.03	1.00	0.94	1.26
5	1.09	1.07	0.77	1.04	-0.82	0.43	1.46	0.82	1.04	0.80	0.95	1.18
6	1.04	1.44	1.01	1.12	-0.56	0.82	0.28	0.91	0.69	0.78	1.03	1.18
7	1.29	0.87	0.40	0.83	0.03	0.74	0.51	0.87	0.76	0.98	1.00	1.14
8	1.06	0.68	-0.31	0.70	-0.09	0.38	1.41	1.02	1.04	1.03	1.08	1.26
9	0.99	0.32	-0.06	0.83	-0.57	0.43	1.16	0.82	1.29	1.07	1.07	1.51
10	1.06	1.00	0.27	1.00	0.17	0.14	1.20	0.76	0.87	1.35	1.09	1.14
11	1.52	0.90	1.13	-0.06	-0.06	0.18	1.56	1.13	0.96	1.47	1.02	0.94
12	2.27	0.76	0.98	-0.43	-0.33	0.19	1.35	1.32	0.97	1.26	0.89	1.53
13	1.78	1.09	1.23	-0.22	-0.77	0.46	0.81	0.95	1.25	0.98	0.80	1.27
14	1.03	0.91	1.58	-0.22	-0.73	0.58	0.52	0.87	1.18	0.87	0.69	1.08
15	1.61	0.56	0.40	0.28	-0.28	0.45	0.31	0.90	1.05	0.93	0.94	1.15
16	2.59	1.29	0.69	0.13	0.03	0.67	0.25	e1.1	1.01	0.98	1.12	1.08
17	1.41	2.13	1.09	0.47	1.83	1.10	1.60	e1.2	0.71	0.81	1.17	1.11
18	1.16	0.00	0.94	0.89	1.23	1.29	1.11	e0.64	0.89	0.86	1.20	1.90
19	1.06	-0.08	0.71	0.63	0.52	1.29	e0.9	0.48	1.09	0.94	0.96	1.77
20	0.64	0.73	1.40	-0.32	0.05	1.00	e0.83	0.46	1.25	0.91	0.66	1.15
21	0.97	0.98	0.46	-0.55	0.15	0.87	0.91	0.52	1.40	1.07	0.87	1.17
22	0.93	1.44	0.42	-1.18	0.80	0.70	1.19	0.78	1.24	1.05	0.99	1.38
23	0.58	-0.42	0.25	-0.64	0.82	0.58	0.73	0.93	1.24	0.95	0.97	1.54
24	0.66	-0.64	0.22	0.13	-0.69	0.72	0.44	1.22	1.22	0.79	0.94	1.09
25	0.91	-0.11	1.70	0.18	-0.58	0.76	0.89	0.96	1.21	0.65	0.89	1.24
26	1.75	0.72	0.05	0.15	0.17	0.75	1.54	1.36	1.23	0.59	1.06	1.23
27	0.77	0.78	0.51	-0.02	0.57	0.62	1.05	1.08	1.28	0.63	1.08	1.40
28	0.64	0.44	0.60	0.13	1.16	0.62	0.84	1.13	1.07	0.80	0.91	1.63
29	0.87	0.37	0.56	0.10	---	0.84	0.72	1.11	0.95	1.08	0.97	1.31
30	1.22	0.61	0.66	0.37	---	0.68	0.80	1.21	0.88	0.85	0.84	0.73
31	1.25	---	1.03	0.77	---	0.29	---	1.36	---	0.99	0.90	---
MEAN	1.17	0.67	0.59	0.41	0.13	0.63	0.91	0.96	1.05	0.95	0.96	1.27
MAX	2.59	2.13	1.70	2.33	1.83	1.29	1.60	1.36	1.48	1.47	1.20	1.90
MIN	0.58	-0.64	-0.31	-1.18	-0.82	0.02	0.22	0.46	0.57	0.59	0.66	0.73

CAL YR 2002 MEAN 0.89 MAX 2.59 MIN -0.64
WTR YR 2003 MEAN 0.81 MAX 2.59 MIN -1.18

e Estimated from reconstructed graph

01311145 EAST ROCKAWAY INLET AT ATLANTIC BEACH, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL HIGH-HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.85	3.15	3.17	3.92	3.81	3.43	2.81	3.45	3.36	3.55	3.61	3.75
2	2.93	3.01	2.99	4.91	3.29	3.80	3.11	3.62	3.20	3.62	3.24	4.11
3	3.64	3.55	3.05	5.47	2.49	2.56	3.35	3.63	3.22	3.58	3.30	4.09
4	4.56	4.27	3.67	4.89	3.49	2.81	3.78	3.18	3.54	3.28	3.57	3.58
5	4.10	4.39	3.98	3.98	1.46	2.92	3.49	3.20	3.17	2.97	3.50	3.71
6	4.27	5.22	4.34	3.82	1.67	3.09	2.23	3.08	2.30	3.04	3.73	3.78
7	4.87	3.96	3.49	2.99	1.94	2.73	3.02	3.03	2.88	3.45	3.72	3.77
8	4.46	3.62	2.65	2.74	1.99	2.64	3.24	2.44	3.20	3.61	3.83	4.12
9	4.33	3.08	2.46	2.72	1.54	1.80	2.22	3.03	3.73	3.86	3.90	4.32
10	4.16	3.39	2.28	2.91	1.52	2.00	3.28	2.89	3.57	4.43	4.00	3.72
11	4.32	3.08	2.82	2.09	2.13	1.87	3.38	3.37	4.05	4.49	4.04	3.63
12	4.71	2.57	3.76	1.04	2.08	2.13	3.60	3.64	4.24	4.29	3.80	3.89
13	3.88	2.84	2.87	1.83	1.22	1.91	3.06	3.71	4.72	4.11	3.53	3.70
14	3.06	2.74	3.86	1.50	1.40	2.58	3.11	4.01	4.57	4.06	3.35	3.29
15	3.54	2.47	2.15	2.69	2.52	2.72	3.34	4.37	4.42	3.87	3.36	3.21
16	5.02	3.57	2.87	2.34	2.85	3.15	3.91	e4.6	4.05	3.65	3.37	2.96
17	3.53	4.50	3.35	3.19	5.09	3.87	5.24	e4.33	3.62	3.32	3.31	2.98
18	3.28	2.96	3.53	3.55	4.60	4.28	4.40	3.87	3.60	3.09	3.11	3.58
19	3.33	2.38	3.20	3.93	3.60	4.42	e4.0	3.60	3.51	2.91	2.79	3.40
20	2.90	3.33	4.10	2.96	2.97	4.65	3.82	3.20	3.07	2.81	2.56	2.86
21	3.33	3.49	3.51	2.61	3.04	4.00	2.95	2.31	3.31	2.97	2.74	3.17
22	3.35	4.18	3.09	1.77	2.99	3.67	3.79	2.92	3.09	3.03	3.06	3.51
23	3.14	1.99	2.79	1.93	4.23	2.73	3.54	2.95	3.15	2.84	3.07	3.89
24	3.10	1.81	2.95	2.83	1.37	3.40	2.39	3.02	3.21	2.77	3.20	3.77
25	3.32	2.39	5.56	2.99	2.16	3.21	2.89	2.79	3.34	2.75	3.37	4.03
26	4.18	3.06	3.06	2.65	2.35	3.18	3.51	3.23	3.47	3.01	3.90	3.99
27	2.74	2.75	2.74	3.06	2.88	2.93	3.23	3.12	3.66	3.20	3.98	4.42
28	2.62	2.77	3.08	2.82	3.57	2.65	3.02	3.40	3.43	3.64	3.81	4.80
29	2.96	2.80	3.22	2.78	---	3.09	3.09	3.62	3.59	3.75	3.78	4.73
30	3.45	3.23	3.30	3.07	---	3.07	3.40	3.66	3.50	3.58	3.54	3.78
31	3.50	---	4.00	3.51	---	2.96	---	4.00	---	3.81	3.78	---
MEAN	3.66	3.22	3.29	3.02	2.65	3.04	3.34	3.40	3.53	3.46	3.48	3.75
MAX	5.02	5.22	5.56	5.47	5.09	4.65	5.24	4.60	4.72	4.49	4.04	4.80
MIN	2.62	1.81	2.15	1.04	1.22	1.80	2.22	2.31	2.30	2.75	2.56	2.86

CAL YR 2002 MEAN 3.42 MAX 5.56 MIN 1.81
WTR YR 2003 MEAN 3.32 MAX 5.56 MIN 1.04

e Estimated from reconstructed graph

01311145 EAST ROCKAWAY INLET AT ATLANTIC BEACH, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL LOW-HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.23	3.02	1.85	3.64	3.03	2.93	2.46	2.82	3.31	2.51	3.24	3.23
2	2.06	2.80	2.42	3.54	1.69	3.36	2.73	2.71	2.16	2.66	3.20	*---
3	2.76	3.47	2.28	4.49	2.21	1.93	3.04	2.85	2.08	3.10	3.15	3.36
4	4.26	3.70	2.38	2.91	2.00	2.13	2.90	2.62	2.77	2.98	*---	3.13
5	3.86	3.83	3.58	2.96	0.98	2.68	3.22	2.50	2.61	2.91	2.91	2.79
6	3.97	2.90	2.70	3.01	1.40	2.87	1.91	2.33	*---	*---	2.78	2.60
7	3.73	3.14	1.90	2.70	*---	2.64	1.78	2.20	2.59	3.05	2.55	2.86
8	3.59	1.94	0.96	*---	1.27	2.00	2.80	*---	3.05	3.07	2.63	2.93
9	3.40	2.41	*---	2.18	0.58	*---	*---	2.27	3.31	2.83	2.82	3.51
10	3.14	*---	2.17	2.54	1.29	1.44	2.43	2.49	2.88	3.08	2.97	3.39
11	*---	2.81	2.06	1.26	0.82	1.19	3.03	3.04	2.91	3.50	3.11	3.14
12	3.79	2.21	2.20	0.76	0.71	1.21	3.07	3.63	3.16	3.43	3.06	3.76
13	3.74	2.75	2.40	0.83	0.75	1.87	2.91	3.32	3.40	3.10	3.09	3.08
14	2.37	2.71	2.83	1.11	1.16	2.12	3.01	3.33	3.49	3.04	2.97	2.82
15	2.98	2.34	2.15	1.66	1.65	2.40	3.02	3.29	3.30	3.15	3.16	2.88
16	3.91	2.63	2.24	1.93	2.62	3.10	2.84	e3.3	3.50	3.33	3.33	2.22
17	3.21	3.72	2.83	2.20	4.30	3.76	4.51	e3.5	2.93	3.05	2.88	*---
18	2.97	0.79	2.58	3.09	3.43	4.18	3.79	e3.01	3.01	2.93	*---	2.59
19	2.88	2.21	2.54	2.23	3.27	4.38	e3.40	2.73	3.03	*---	2.67	3.31
20	2.86	2.51	2.96	1.46	2.97	3.86	3.11	2.50	*---	2.73	1.97	2.10
21	3.02	2.85	1.80	1.58	2.79	3.54	*---	*---	3.31	2.56	1.83	2.09
22	2.82	2.71	2.45	0.69	*---	3.09	2.94	2.57	3.02	2.21	1.88	2.57
23	2.25	0.76	2.24	*---	3.32	*---	2.36	2.64	2.82	2.17	2.14	3.43
24	2.29	0.94	2.69	2.27	1.29	2.45	1.96	2.96	2.65	1.96	2.43	3.15
25	2.84	1.76	*---	2.02	0.73	2.40	2.57	2.74	2.47	1.81	2.32	3.65
26	2.65	*---	1.87	1.82	1.81	2.30	3.09	2.85	2.47	1.74	2.71	3.99
27	2.19	2.72	2.45	1.41	2.31	2.20	2.94	2.78	2.62	1.92	3.28	4.12
28	*---	2.52	2.41	1.76	3.13	2.44	2.79	2.62	2.50	2.30	3.24	3.97
29	2.12	2.15	2.31	1.98	---	2.94	2.67	2.71	2.47	2.88	3.57	3.16
30	2.67	2.44	2.78	2.36	---	3.04	2.61	2.82	2.43	2.78	3.34	*---
31	3.17	---	3.19	3.01	---	2.66	---	2.83	---	3.03	3.28	---
MEAN	3.03	2.53	2.39	2.19	1.98	2.66	2.85	2.83	2.87	2.75	2.85	3.10
MAX	4.26	3.83	3.58	4.49	4.30	4.38	4.51	3.63	3.50	3.50	3.57	4.12
MIN	2.06	0.76	0.96	0.69	0.58	1.19	1.78	2.20	2.08	1.74	1.83	2.09

CAL YR 2002 MEAN 2.73 MAX 4.26 MIN 0.76
WTR YR 2003 MEAN 2.67 MAX 4.51 MIN 0.58

e Estimated from reconstructed graph
* Only a single high tide occurred

01311145 EAST ROCKAWAY INLET AT ATLANTIC BEACH, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL HIGH-LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-0.78	-1.50	-3.18	*---	-1.49	*---	-2.16	-1.33	-0.44	-1.19	-1.31	-1.24
2	-1.42	-2.52	*---	-0.91	-1.58	-1.31	-1.87	-1.10	-1.12	-1.12	-1.38	-0.52
3	-1.19	*---	-2.95	-0.29	-2.68	-1.51	-1.27	-0.99	-1.23	-0.91	-1.12	-0.54
4	*---	-2.18	-3.02	-0.01	-1.67	-2.06	-0.98	-1.13	-0.63	-0.89	-0.90	-0.73
5	-1.25	-2.17	-2.05	-1.46	-2.70	-2.08	-0.30	-1.02	-0.62	-1.04	-0.95	-0.76
6	-2.11	-1.20	-1.32	-1.18	-2.45	-1.32	-1.55	-0.69	-0.94	-0.90	-1.07	-0.75
7	-1.65	-1.90	-1.79	-0.94	-1.55	-1.19	-1.06	-0.61	-0.65	-0.77	-1.19	-0.99
8	-2.01	-1.29	-2.26	-0.37	-1.51	-1.47	0.00	-0.29	-0.75	-1.08	-1.13	*---
9	-1.82	-1.51	-1.71	-0.58	-1.97	-0.87	0.16	-0.59	-0.88	-1.21	*---	-0.72
10	-1.38	-0.82	-1.11	0.01	-0.82	-1.18	-0.06	-0.86	-1.55	-1.14	-1.47	-1.30
11	-0.27	-0.29	0.01	-0.69	-0.97	-0.92	0.02	-0.47	-1.78	*---	-1.60	-1.50
12	0.77	-0.85	0.08	-1.83	-2.38	-0.82	-0.50	-1.07	*---	-1.43	-1.69	-0.66
13	0.30	-0.18	-0.24	-1.35	-2.52	-0.82	-1.64	-1.91	-1.81	-1.80	-1.64	-0.84
14	-0.53	-0.55	0.71	-1.55	*---	-1.35	*---	*---	-1.75	-1.78	-1.54	-0.89
15	0.00	-1.14	-1.25	-1.68	-2.49	-1.66	-2.34	-2.30	-1.70	-1.52	-1.09	-0.62
16	1.54	0.38	-1.22	*---	-2.87	*---	-3.06	e-1.8	-1.44	-1.18	-0.71	-0.49
17	-0.70	*---	-0.81	-1.79	-0.46	-1.75	-1.52	e-1.4	-1.60	-1.13	-0.48	-0.11
18	-1.03	-0.52	*---	-1.67	-1.08	-1.81	-1.75	e-1.85	-0.98	-0.88	-0.16	1.11
19	*---	-2.26	-1.51	-1.50	-2.34	-1.83	e-1.6	-1.77	-0.55	-0.58	-0.44	0.41
20	-1.59	-1.62	-0.44	-2.41	-2.65	-2.22	-1.55	-1.51	-0.12	-0.49	-0.69	-0.09
21	-1.30	-1.26	-1.15	-3.04	-2.40	-1.87	-0.99	-1.20	0.00	-0.12	-0.42	-0.21
22	-1.35	-0.65	-2.05	-3.54	-0.66	-1.77	-0.49	-0.51	-0.23	-0.56	-0.45	-0.37
23	-1.35	-1.66	-1.92	-2.59	-0.42	-1.52	-1.02	-0.46	-0.32	-0.52	-0.53	-0.47
24	-1.48	-2.54	-2.00	-2.05	-2.28	-0.99	-0.94	-0.38	-0.46	-0.98	-0.78	*---
25	-1.09	-1.70	-0.46	-1.56	-2.41	-0.63	-0.69	-0.77	-0.59	-0.98	*---	-1.49
26	0.04	-1.02	-1.56	-1.68	-1.56	-1.08	-0.25	-0.46	-0.68	*---	-1.37	-1.68
27	-0.82	-0.61	-1.36	-2.02	-1.24	-1.33	-1.05	-0.96	*---	-1.43	-1.48	-1.51
28	-0.64	-1.19	-1.30	-2.15	-1.10	-1.25	*---	*---	-0.93	-1.26	-1.88	-1.16
29	-0.65	-1.37	-1.43	-2.40	---	*---	-1.36	-1.00	-1.10	-1.16	-1.72	-1.19
30	-0.42	-1.67	-1.59	-1.85	---	-1.44	-1.59	-0.95	-1.22	-1.46	-1.83	-1.44
31	-0.60	---	-1.61	*---	---	-1.67	---	-0.61	---	-1.29	-1.45	---
MEAN	-0.85	-1.28	-1.40	-1.54	-1.79	-1.42	-1.12	-1.03	-0.93	-1.06	-1.12	-0.74
MAX	1.54	0.38	0.71	0.01	-0.42	-0.63	0.16	-0.29	0.00	-0.12	-0.16	1.11
MIN	-2.11	-2.54	-3.18	-3.54	-2.87	-2.22	-3.06	-2.30	-1.81	-1.80	-1.88	-1.68

CAL YR 2002 MEAN -1.09 MAX 1.54 MIN -3.18
WTR YR 2003 MEAN -1.19 MAX 1.54 MIN -3.54

e Estimated from reconstructed graph
* Only a single low tide occurred

01311145 EAST ROCKAWAY INLET AT ATLANTIC BEACH, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL LOW-LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-1.45	-3.02	-3.21	-2.13	-1.82	-1.88	-2.59	-1.40	-0.86	-1.58	-1.52	-1.60
2	-1.69	-2.72	-3.27	-1.21	-2.68	-1.49	-1.89	-1.52	-1.53	-1.55	-1.73	-1.17
3	-1.45	-2.48	-3.10	-0.72	-2.76	-2.91	-1.69	-1.30	-1.74	-1.34	-1.66	-0.65
4	-0.99	-2.39	-3.13	-1.55	-2.04	-2.66	-1.29	-1.16	-1.17	-1.27	-1.34	-0.98
5	-2.08	-2.46	-2.93	-1.49	-3.21	-2.24	-0.65	-1.11	-0.97	-1.48	-1.40	-1.16
6	-2.75	-1.48	-1.82	-1.19	-2.64	-1.55	-1.61	-0.96	-1.28	-1.68	-1.12	-1.19
7	-1.98	-2.07	-2.16	-1.24	-1.70	-1.69	-1.70	-0.92	-1.49	-1.36	-1.28	-1.46
8	-2.06	-1.86	-2.46	-1.47	-1.69	-1.49	-0.29	-0.71	-1.17	-1.29	-1.40	-1.06
9	-2.08	-2.04	-2.19	-0.93	-2.03	-1.37	-0.43	-1.02	-0.95	-1.30	-1.40	-1.21
10	-1.57	-0.87	-1.54	-0.92	-1.26	-1.32	-0.42	-1.31	-1.75	-1.40	-1.50	-1.32
11	-0.95	-1.32	-0.83	-2.08	-1.67	-1.18	-0.04	-1.31	-1.83	-1.20	-1.72	-1.83
12	0.24	-0.86	-1.66	-1.99	-2.67	-1.15	-0.95	-1.45	-2.05	-1.46	-1.85	-1.10
13	-0.33	-1.21	-0.47	-2.73	-2.93	-1.27	-1.66	-1.92	-1.98	-1.81	-1.91	-0.92
14	-0.82	-1.37	-1.43	-2.01	-3.23	-1.38	-2.39	-2.21	-1.86	-2.02	-2.07	-1.24
15	-0.19	-1.62	-1.40	-2.06	-2.97	-2.05	-3.01	-2.34	-1.95	-1.94	-1.79	-0.95
16	-0.35	-0.97	-1.65	-2.15	-2.98	-2.13	-3.25	-2.18	-1.93	-1.83	-1.32	-0.54
17	-0.74	0.09	-1.17	-1.97	-2.16	-1.95	-2.14	e-1.9	-1.89	-1.90	-1.01	-0.50
18	-1.13	-2.62	-1.48	-1.68	-1.92	-1.84	-2.00	-2.30	-1.60	-1.55	-0.88	0.35
19	-1.03	-3.17	-1.86	-2.20	-2.44	-1.98	-2.12	-2.23	-1.24	-1.32	-0.68	-0.06
20	-1.72	-1.79	-1.04	-3.45	-2.83	-2.22	-1.83	-1.99	-1.10	-1.14	-0.90	-0.55
21	-1.51	-1.43	-2.75	-3.54	-2.47	-2.07	-1.66	-1.67	-0.68	-0.77	-0.74	-0.73
22	-1.37	-0.87	-2.20	-3.86	-2.00	-1.99	-1.09	-1.38	-0.74	-0.74	-0.61	-0.58
23	-1.92	-2.78	-2.04	-3.54	-2.23	-1.84	-1.10	-1.12	-0.66	-0.87	-1.15	-1.38
24	-1.57	-2.65	-2.33	-2.17	-3.07	-1.43	-1.65	-0.76	-0.64	-1.13	-1.36	-1.46
25	-1.18	-2.33	-1.19	-1.91	-2.87	-1.13	-1.17	-0.96	-0.70	-1.37	-1.10	-1.57
26	-0.21	-1.14	-2.35	-1.91	-1.97	-1.21	-0.38	-0.74	-0.68	-1.21	-1.51	-1.71
27	-1.03	-1.28	-1.79	-2.61	-1.84	-1.54	-1.28	-1.18	-0.67	-1.47	-1.48	-1.78
28	-0.93	-2.01	-1.83	-2.33	-1.35	-1.81	-1.63	-1.03	-0.93	-1.86	-2.02	-1.40
29	-1.10	-2.52	-2.27	-2.53	---	-1.55	-1.69	-1.10	-1.34	-1.47	-1.98	-1.29
30	-0.84	-2.28	-1.89	-2.25	---	-1.85	-1.71	-1.16	-1.40	-1.72	-2.12	-1.84
31	-1.38	---	-1.79	-1.92	---	-2.64	---	-1.06	---	-1.79	-1.98	---
MEAN	-1.23	-1.85	-1.98	-2.06	-2.34	-1.77	-1.51	-1.40	-1.29	-1.45	-1.44	-1.10
MAX	0.24	0.09	-0.47	-0.72	-1.26	-1.13	-0.04	-0.71	-0.64	-0.74	-0.61	0.35
MIN	-2.75	-3.17	-3.27	-3.86	-3.23	-2.91	-3.25	-2.34	-2.05	-2.02	-2.12	-1.84

CAL YR 2002 MEAN -1.55 MAX 0.24 MIN -3.27
WTR YR 2003 MEAN -1.61 MAX 0.35 MIN -3.86

e Estimated from reconstructed graph

01311500 VALLEY STREAM AT VALLEY STREAM, NY

LOCATION.--Lat 40°39'49", long 73°42'18", Nassau County, Hydrologic Unit 02030202, on right bank 40 ft upstream from West Valley Stream Boulevard in Valley Stream.

DRAINAGE AREA.--About 4.5 mi^2.

PERIOD OF RECORD.--1851-52, 1854, 1856-57, 1885, 1894 (fragmentary in Professional Paper 44), July 1954 to current year. Prior to October 1956, published at Watts Creek at Valley Stream.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 7.49 ft above NGVD of 1929. Prior to 1894, determinations of flow by various methods, at different sites and datums. July 1954 to July 16, 1964, at same site at datum 1.0 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated occasionally by cleaning operations at outlet of Valley Stream Pond above station.

EXTREMES FOR PERIOD OF RECORD (since 1954).--Maximum discharge, 294 ft^3/s, June 30, 1984, gage height, 5.78 ft; no flow at times each year since 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 132 ft^3/s, May 26, gage height, 2.70 ft; no flow for part or all of each day October 2-10.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

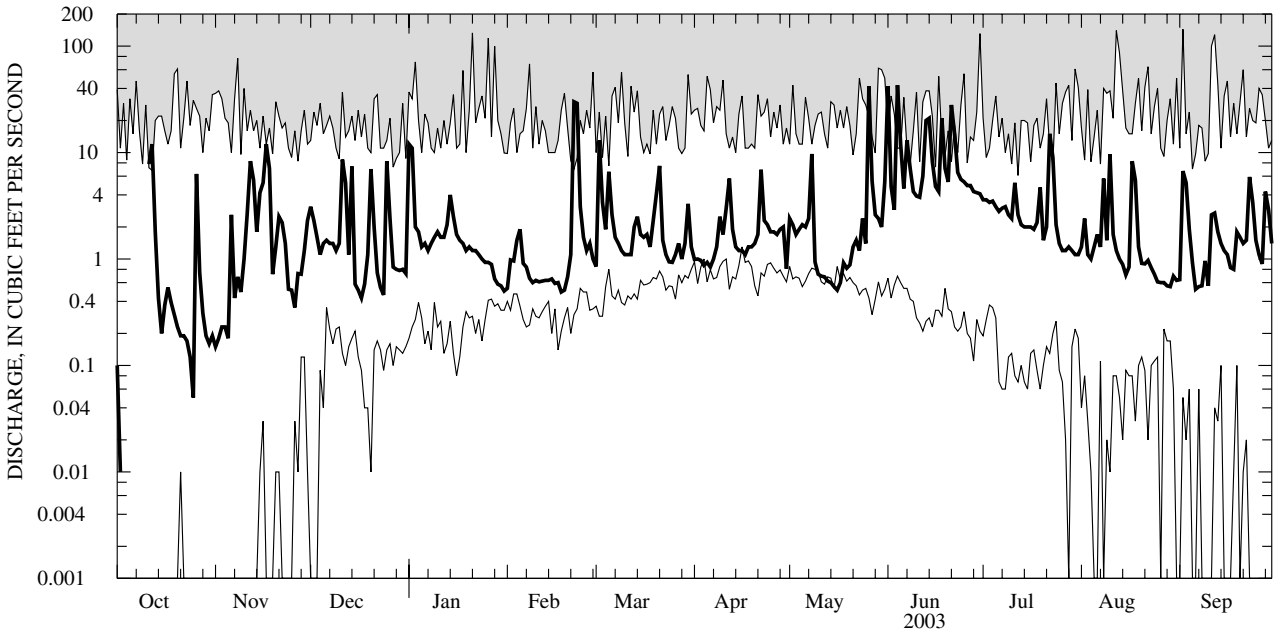
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.10	0.15	3.1	12	0.53	0.85	0.99	2.4	42	3.6	1.3	0.64
2	0.01	0.18	2.3	11	0.98	13	1.0	2.1	4.8	3.6	2.4	6.7
3	0.00	0.23	1.6	2.0	0.96	3.4	0.97	1.7	2.9	3.4	1.1	5.2
4	0.00	0.23	1.1	1.8	1.5	1.9	0.87	1.9	43	3.5	1.0	1.9
5	0.00	0.18	1.4	1.3	1.9	6.6	0.93	2.1	12	3.1	1.3	0.92
6	0.00	2.6	1.5	1.4	0.91	2.6	0.84	2.0	4.6	2.8	1.7	0.52
7	0.00	0.43	1.4	1.2	0.84	1.6	1.0	2.4	13	3.0	1.3	0.55
8	0.00	0.68	1.4	1.4	0.66	1.4	1.3	9.7	7.1	3.1	5.7	0.56
9	0.00	0.49	1.2	1.6	0.60	1.2	2.5	0.94	4.3	2.6	1.5	0.96
10	0.00	1.0	1.4	1.8	0.63	1.1	1.7	0.72	3.9	2.4	9.6	0.56
11	7.8	2.7	8.6	1.6	0.61	1.1	3.0	0.69	3.8	5.2	1.7	2.6
12	12	8.3	5.2	1.6	0.62	1.1	5.7	0.68	6.0	2.6	1.2	2.7
13	1.8	5.5	1.1	2.1	0.63	2.0	1.9	0.62	20	2.1	1.0	1.8
14	0.43	1.8	7.4	4.0	0.63	2.5	1.3	0.60	21	2.0	0.89	1.4
15	0.20	4.2	0.58	2.5	0.65	1.7	1.2	0.55	8.2	2.0	0.71	1.2
16	0.37	5.2	0.51	1.7	0.59	1.6	1.2	0.51	4.8	2.0	0.84	1.1
17	0.54	12	0.43	1.5	0.60	1.7	1.1	0.60	4.3	1.9	8.3	0.83
18	0.39	7.1	0.58	1.4	0.49	1.3	1.3	0.92	21	2.2	5.5	0.80
19	0.30	0.72	1.1	1.2	0.51	2.3	1.3	0.82	7.1	4.7	1.3	1.8
20	0.23	1.3	7.0	1.3	0.68	4.1	1.4	0.88	5.3	1.5	0.91	1.6
21	0.19	2.5	2.0	1.2	1.1	7.5	1.7	1.3	28	2.0	0.90	1.4
22	0.19	2.2	0.74	1.2	30	1.5	6.9	1.5	15	15	0.97	1.5
23	0.17	1.4	0.54	1.1	29	1.1	2.3	1.2	6.5	9.0	0.83	5.9
24	0.12	0.52	0.46	1.0	3.1	0.94	2.1	2.4	5.6	2.1	0.72	3.4
25	0.05	0.51	8.3	0.93	1.6	0.93	1.8	1.4	5.3	1.4	0.61	1.5
26	6.3	0.35	2.4	0.93	1.2	1.1	1.8	42	4.9	1.2	0.60	1.1
27	0.75	0.73	0.84	0.89	1.4	1.4	1.7	5.4	4.9	1.2	0.60	0.90
28	0.31	0.72	0.80	0.65	1.0	1.0	1.9	2.6	4.3	1.3	0.56	4.3
29	0.19	1.2	0.78	0.58	---	1.4	2.0	2.4	4.2	1.2	0.55	2.9
30	0.16	2.3	0.80	0.56	---	3.3	0.81	2.0	4.1	1.1	0.69	1.4
31	0.19	---	0.73	0.50	---	1.3	---	5.3	---	1.1	0.63	---
TOTAL	32.79	67.42	67.29	63.94	83.92	74.52	54.51	100.33	321.9	93.9	56.91	58.64
MEAN	1.06	2.25	2.17	2.06	3.00	2.40	1.82	3.24	10.7	3.03	1.84	1.95
MAX	12	12	8.6	12	30	13	6.9	42	43	15	9.6	6.7
MIN	0.00	0.15	0.43	0.50	0.49	0.85	0.81	0.51	2.9	1.1	0.55	0.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2003, BY WATER YEAR (WY)

MEAN	1.46	1.76	1.73	2.10	1.94	2.36	2.76	2.37	2.07	1.59	1.84	1.79
MAX	10.8	10.9	9.18	9.40	9.91	10.2	12.0	12.3	10.7	8.32	16.8	11.6
(WY)	(1959)	(1955)	(1956)	(1956)	(1955)	(1956)	(1958)	(1958)	(2003)	(1956)	(1955)	(1954)
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	(1966)	(1966)	(1966)	(1966)	(1980)	(1981)	(1981)	(1981)	(1966)	(1966)	(1965)	(1982)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1954 - 2003	
ANNUAL TOTAL	497.69		1,076.07			
ANNUAL MEAN	1.36		2.95		1.95	
HIGHEST ANNUAL MEAN					8.86	1956
LOWEST ANNUAL MEAN					0.11	1986
HIGHEST DAILY MEAN	144	Sep 2	43	Jun 4	144	Sep 2, 2002
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 3	0.00	Jul 25, 1963
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 12	0.00	Oct 3	0.00	Aug 10, 1963
10 PERCENT EXCEEDS	2.1		6.5		5.9	
50 PERCENT EXCEEDS	0.13		1.4		0.25	
90 PERCENT EXCEEDS	0.00		0.50		0.00	

01311500 VALLEY STREAM AT VALLEY STREAM, NY—Continued



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.
ZERO FLOWS ARE PLOTTED AS 0.001 DISCHARGE, WHICH MAY INCLUDE THE LOWEST DAILY MEAN FOR PERIOD OF RECORD.

01311810 CONSELYEAS POND TRIBUTARY AT ROSEDALE, NY

LOCATION.--Lat 40°39'42", long 73°45'22", Queens County, Hydrologic Unit 02030202, on right end of upstream side of reinforced- concrete bridge in Brookville Park, opposite 144th Ave. and 1,300 ft southwest of South Conduit Ave., in Rosedale.

DRAINAGE AREA.--About 10 mi^2.

PERIOD OF RECORD.--August 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7.0 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily dischares and those above 110 ft^3/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 246 ft^3/s, Jan. 3, 1999, gage height, 5.21 ft, from rating curve extended above 110 ft^3/s; no flow part of each day Jan. 9, 10, 1996, and many days during July to September 1999 and July and August 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 84 ft^3/s, May 26, gage height, 2.51 ft; minimum, 0.21 ft^3/s, Oct. 23, 24, 25; minimum gage height , 0.28 ft, part or all of each day Oct. 4, 6, 8-11, 23-25.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.55	0.33	0.63	13	e0.70	e1.0	1.3	1.0	24	1.4	1.3	0.53
2	0.54	0.29	0.65	8.4	e1.0	e10	1.3	1.1	2.9	1.4	2.2	4.4
3	0.39	0.80	0.66	3.3	e1.0	e5.0	1.3	0.91	2.2	1.4	1.5	4.8
4	0.30	0.72	0.60	3.2	e2.0	e2.5	1.1	0.88	30	1.6	1.0	3.0
5	0.32	0.31	0.73	1.7	e3.0	e7.0	1.1	0.79	7.1	1.3	1.0	0.92
6	0.30	5.5	0.69	2.3	e1.0	e4.0	0.95	0.75	2.8	1.1	0.85	0.63
7	0.30	0.44	0.56	1.3	e1.0	e2.0	1.4	0.92	10	1.1	0.88	0.47
8	0.28	0.44	0.57	0.95	e0.90	e1.0	1.2	3.9	4.3	1.2	2.4	0.42
9	0.28	0.42	0.49	0.90	e0.90	e1.0	4.5	1.3	2.5	1.2	1.0	0.40
10	0.26	0.46	0.49	e1.0	e0.90	e1.0	2.1	1.3	2.4	1.2	3.9	0.38
11	12	0.55	4.9	e0.90	e0.90	e1.0	3.3	1.0	2.4	3.1	1.2	0.31
12	17	2.6	3.7	e0.90	e0.80	e1.0	5.4	0.77	4.6	1.8	1.0	0.31
13	3.2	4.0	0.89	e2.0	e0.80	e2.0	1.0	0.71	13	1.0	1.1	0.30
14	1.6	1.2	8.7	e5.0	e0.80	e3.0	0.67	0.64	14	0.86	0.87	0.32
15	1.2	1.0	2.3	e2.0	e0.80	e2.0	0.99	0.64	3.2	0.81	0.82	0.38
16	3.3	0.92	2.1	e1.0	e0.70	e1.5	1.7	0.58	2.2	0.80	0.80	0.39
17	1.6	8.5	1.7	e1.0	e0.70	e1.5	1.1	0.55	1.6	0.71	3.7	0.73
18	1.4	6.7	1.5	e1.0	e0.70	e0.75	0.91	0.56	12	0.86	2.4	0.69
19	0.57	1.3	1.0	e1.0	e0.70	0.90	1.0	0.55	4.3	3.0	0.82	1.3
20	0.38	1.3	4.7	e1.0	e0.70	3.2	1.1	0.54	3.1	0.82	0.72	0.42
21	0.33	0.91	1.6	e0.90	e1.0	7.0	1.2	0.63	16	0.77	0.71	0.35
22	0.30	3.1	0.74	e0.90	e20	0.99	3.6	0.66	5.1	9.5	0.73	0.33
23	0.26	2.5	0.64	e0.90	e15	0.69	1.3	0.65	3.4	5.5	0.71	7.8
24	0.23	1.2	0.62	e0.90	e4.0	0.68	1.2	1.1	2.9	2.5	0.63	1.6
25	0.25	1.3	7.7	e0.80	e3.0	0.72	1.4	0.82	2.7	2.2	0.62	0.73
26	8.9	1.2	2.1	e0.80	e2.0	0.91	8.2	22	2.1	1.1	0.62	0.93
27	0.61	2.6	2.0	e0.80	e2.0	0.93	2.2	3.0	1.9	1.4	0.58	0.61
28	0.37	0.81	1.7	e0.70	e1.0	1.2	0.99	2.5	1.7	1.4	0.56	4.4
29	0.85	0.67	1.3	e0.70	---	1.6	0.99	2.4	1.6	1.7	0.56	0.79
30	0.53	0.63	1.1	e0.70	---	3.8	0.94	1.6	1.5	1.1	0.51	0.47
31	0.35	---	0.90	e0.70	---	1.1	---	4.4	---	0.94	0.51	---
TOTAL	58.75	52.70	57.96	60.65	68.00	70.97	55.44	59.15	187.5	54.77	36.20	39.11
MEAN	1.90	1.76	1.87	1.96	2.43	2.29	1.85	1.91	6.25	1.77	1.17	1.30
MAX	17	8.5	8.7	13	20	10	8.2	22	30	9.5	3.9	7.8
MIN	0.23	0.29	0.49	0.70	0.70	0.68	0.67	0.54	1.5	0.71	0.51	0.30

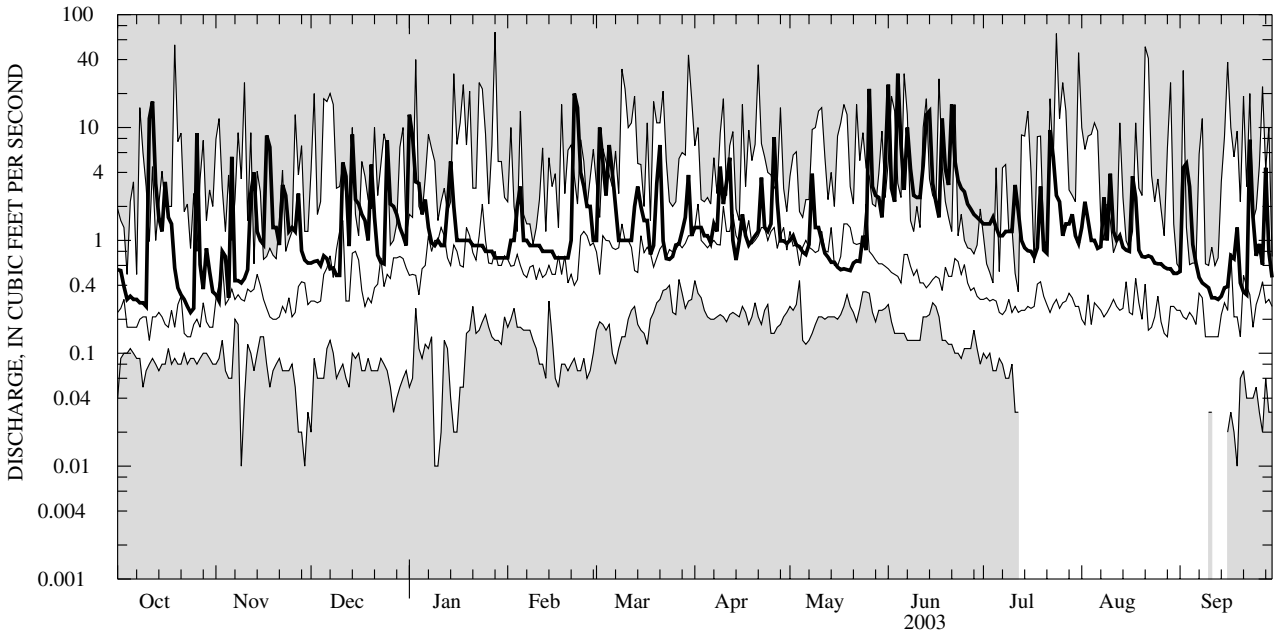
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2003, BY WATER YEAR (WY)

MEAN	0.94	0.98	1.31	2.06	1.26	2.06	1.88	1.70	1.80	1.37	1.21	1.17
MAX	3.40	1.76	3.97	4.67	2.43	4.26	3.14	2.93	6.25	4.61	3.64	2.12
(WY)	(1997)	(2001)	(1997)	(1994)	(2003)	(2001)	(1997)	(1998)	(2003)	(1997)	(1997)	(2002)
MIN	0.12	0.10	0.11	0.37	0.27	0.91	0.46	0.87	0.33	0.042	0.027	0.28
(WY)	(2002)	(2002)	(1999)	(2000)	(2000)	(1995)	(1999)	(1995)	(1994)	(2002)	(1999)	(1995)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1993 - 2003	
ANNUAL TOTAL	460.78		801.20			
ANNUAL MEAN	1.26		2.20		1.48	
HIGHEST ANNUAL MEAN					2.42	1997
LOWEST ANNUAL MEAN					0.80	1995
HIGHEST DAILY MEAN	32	Sep 2	30	Jun 4	70	Jan 28, 1994
LOWEST DAILY MEAN	0.00	Jul 24	0.23	Oct 24	0.00	Jul 13, 1999
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 26	0.29	Oct 4	0.00	Jul 13, 1999
10 PERCENT EXCEEDS	2.8		4.5		2.7	
50 PERCENT EXCEEDS	0.45		1.0		0.55	
90 PERCENT EXCEEDS	0.04		0.47		0.10	

e Estimated

01311810 CONSELYEAS POND TRIBUTARY AT ROSEDALE, NY—Continued



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

01311850 JAMAICA BAY AT INWOOD, NY

LOCATION.--Lat 40°37'02", long 73°45'30", Nassau County, Hydrologic Unit 2030202, at Town of Hempstead Inwood Marina, in Inwood.

PERIOD OF RECORD.--July 2002 to current year. June 1979 to July 2002, in files of Town of Hempstead Department of Conservation & Waterways.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. June 1979 to January 1991, water-stage recorder at site 600 ft southwest.

REMARKS.--Records good except those in March to April and June to September, which are fair. Satellite and telephone elevation telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 6.18 ft, Dec. 25, 2002; minimum, -4.42 ft, Jan. 22, 2003.

EXTREMES OUTSIDE PERIOD OF RECORD.--Storm tides of Dec. 11, 1992, and Mar. 14, 1993, reached elevations of 8.9 and 8.3 ft, respectively, from information provided by Town of Hempstead Department of Conservation & Waterways. Minimum elevation recorded, -5.0 ft, Dec. 12, 2000, Feb. 11, 2001, from information provided by Town of Hempstead Department of Conservation & Waterways.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 6.18 ft, Dec. 25; minimum, -4.42 ft, Jan. 22.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.80	0.74	0.08	1.12	0.93	0.89	0.29	0.94	1.47	0.83	0.98	0.89
2	0.63	0.37	-0.06	1.61	0.27	1.20	0.56	0.96	0.73	0.90	0.87	1.37
3	1.03	0.66	-0.04	2.25	-0.10	0.09	0.89	1.04	0.59	1.03	0.77	1.43
4	1.79	0.98	0.11	1.64	0.61	0.07	1.21	0.91	0.98	0.98	0.94	1.26
5	1.21	1.04	0.74	1.05	-0.75	0.39	1.55	0.84	1.07	0.83	0.94	1.19
6	0.99	1.46	1.06	1.11	-0.55	0.75	0.38	0.89	0.73	0.77	1.06	1.20
7	1.33	0.91	0.48	0.91	0.02	0.71	0.45	0.89	0.72	0.98	0.99	1.21
8	1.05	0.72	-0.26	0.81	0.05	0.40	1.42	1.00	1.00	1.07	1.13	1.26
9	0.97	0.27	-0.04	0.88	-0.49	0.46	1.14	0.83	1.31	1.10	1.09	1.51
10	1.06	0.98	0.32	1.06	0.16	0.23	1.20	0.75	0.94	1.37	1.11	1.14
11	1.46	0.87	1.07	0.07	0.03	0.21	1.49	1.09	1.01	1.51	1.02	0.89
12	2.29	0.72	1.02	-0.40	-0.13	0.24	1.40	1.44	1.03	1.31	0.87	1.50
13	1.81	1.07	1.18	-0.11	-0.65	0.42	0.88	1.12	1.25	0.98	0.79	1.20
14	1.02	0.94	1.60	-0.21	-0.66	0.62	0.57	0.99	1.22	0.85	0.68	1.03
15	1.58	0.60	0.49	0.40	-0.25	0.55	0.40	0.80	1.06	0.91	0.91	1.11
16	2.64	1.21	0.74	0.24	0.00	0.74	0.28	1.09	0.99	0.96	1.13	1.07
17	1.49	2.14	1.14	0.47	1.79	1.13	1.52	1.01	0.70	0.79	1.19	1.08
18	1.20	0.16	0.98	0.93	1.30	1.34	1.13	0.59	0.87	0.86	1.21	1.77
19	1.09	-0.07	0.71	0.73	0.53	1.31	0.77	0.49	1.08	0.93	1.01	1.69
20	0.66	0.75	1.44	-0.21	0.07	1.00	0.77	0.48	1.18	0.92	0.71	1.14
21	0.96	0.96	0.54	-0.50	0.16	0.91	0.94	0.53	1.40	1.07	0.89	1.16
22	0.90	1.43	0.41	-1.13	0.80	0.76	1.20	0.72	1.21	0.99	1.02	1.39
23	0.57	-0.24	0.32	-0.65	0.96	0.69	0.83	0.88	1.25	0.94	1.01	1.63
24	0.62	-0.56	0.22	0.14	-0.65	0.78	0.51	1.16	1.24	0.77	1.00	1.15
25	0.86	-0.11	1.75	0.25	-0.54	0.84	0.90	0.97	1.22	0.68	0.94	1.29
26	1.74	0.69	0.16	0.15	0.17	0.80	1.51	1.31	1.25	0.60	1.08	1.24
27	0.80	0.78	0.48	-0.01	0.59	0.67	1.10	1.11	1.31	0.70	1.14	1.38
28	0.65	0.51	0.64	0.15	1.18	0.65	0.88	1.14	1.09	0.80	0.88	1.60
29	0.85	0.45	0.64	0.15	---	0.92	0.74	1.15	0.95	1.05	0.93	1.38
30	1.19	0.62	0.71	0.38	---	0.75	0.77	1.21	0.87	0.82	0.78	0.79
31	1.26	---	1.10	0.79	---	0.52	---	1.34	---	0.93	0.85	---
MEAN	1.18	0.70	0.64	0.45	0.17	0.68	0.92	0.96	1.06	0.94	0.97	1.26
MAX	2.64	2.14	1.75	2.25	1.79	1.34	1.55	1.44	1.47	1.51	1.21	1.77
MIN	0.57	-0.56	-0.26	-1.13	-0.75	0.07	0.28	0.48	0.59	0.60	0.68	0.79

CAL YR 2002 MEAN 0.92 MAX 2.64 MIN -0.56
WTR YR 2003 MEAN 0.83 MAX 2.64 MIN -1.13

01311850 JAMAICA BAY AT INWOOD, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL HIGH-HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.28	3.81	3.59	4.65	4.41	4.06	3.36	3.91	3.82	4.13	4.08	4.48
2	3.50	3.97	3.99	5.60	4.14	4.43	3.56	4.15	3.71	4.11	3.81	4.71
3	4.12	4.60	3.72	5.92	3.05	3.43	4.00	4.10	3.67	4.11	4.06	4.62
4	5.43	5.23	4.44	5.56	4.05	3.50	4.23	3.69	3.82	3.72	4.29	4.15
5	4.95	5.33	4.68	4.70	2.03	3.48	3.94	3.47	3.52	3.52	4.13	4.31
6	5.27	5.84	5.08	4.45	1.95	3.43	2.44	3.35	3.38	3.68	4.58	4.41
7	5.87	4.72	4.27	3.56	2.47	3.14	2.14	3.30	3.06	4.16	4.36	4.35
8	5.25	4.26	3.43	3.54	2.49	2.39	3.26	2.73	3.52	4.24	4.52	4.82
9	5.21	3.69	2.92	3.17	2.05	2.83	3.48	3.47	4.53	4.59	4.62	4.96
10	4.83	3.77	2.70	3.44	1.91	2.12	3.77	3.35	4.32	5.06	4.72	4.34
11	4.90	3.43	2.97	2.93	2.72	2.29	3.56	3.73	4.76	5.18	4.78	4.23
12	5.11	2.80	4.33	1.59	2.44	2.72	4.01	4.43	5.04	5.02	4.57	4.35
13	4.31	3.48	3.05	2.40	1.79	2.42	3.52	4.70	5.61	4.92	4.23	4.08
14	3.45	3.08	3.95	1.94	1.77	3.09	3.83	4.88	5.43	4.77	3.91	3.77
15	3.87	2.79	2.51	2.82	2.95	3.16	4.19	5.11	5.18	4.58	3.78	3.50
16	5.26	3.95	3.11	2.87	3.39	3.83	4.77	5.89	4.79	4.23	3.90	3.21
17	4.03	4.81	3.81	3.99	5.66	4.72	5.98	5.15	4.29	3.84	3.75	3.28
18	3.89	3.22	3.99	3.98	5.37	5.28	5.25	4.61	4.15	3.41	3.60	3.68
19	3.97	3.15	3.72	4.63	4.40	5.40	4.81	4.12	3.68	3.34	3.20	3.68
20	3.54	3.89	4.67	3.64	3.73	5.43	4.41	3.22	3.92	3.11	2.88	3.23
21	3.82	4.04	3.92	3.32	3.43	4.75	3.42	3.67	3.82	3.32	3.21	3.61
22	3.86	4.68	3.65	2.58	3.60	4.40	4.20	3.30	3.44	3.57	3.55	3.96
23	3.54	2.92	3.42	2.40	4.78	3.49	4.02	3.31	3.49	3.14	3.41	4.88
24	3.49	2.43	3.17	3.21	1.95	3.88	2.96	3.26	3.55	3.27	3.58	4.51
25	3.74	2.94	6.18	3.64	2.76	3.98	3.43	3.21	3.79	3.32	3.92	5.00
26	4.53	3.37	3.95	3.30	2.80	3.88	3.69	3.72	3.97	3.49	4.59	4.89
27	2.94	3.29	3.40	3.73	3.30	3.82	3.48	3.58	4.15	3.80	4.82	5.38
28	3.06	3.26	3.86	3.35	4.02	2.97	3.51	4.03	3.97	4.20	4.68	5.77
29	3.22	3.31	3.85	3.30	---	3.69	3.60	4.20	4.16	4.36	4.52	5.79
30	3.89	3.93	3.75	3.58	---	3.79	3.90	4.09	4.01	4.26	4.33	4.61
31	4.00	---	4.85	4.15	---	3.49	---	4.30	---	4.43	4.45	---
MEAN	4.20	3.80	3.84	3.61	3.19	3.65	3.82	3.94	4.08	4.03	4.09	4.35
MAX	5.87	5.84	6.18	5.92	5.66	5.43	5.98	5.89	5.61	5.18	4.82	5.79
MIN	2.94	2.43	2.51	1.59	1.77	2.12	2.14	2.73	3.06	3.11	2.88	3.21

CAL YR	2002	MEAN	3.99	MAX	6.18	MIN	2.43					
WTR YR	2003	MEAN	3.89	MAX	6.18	MIN	1.59					

01311850 JAMAICA BAY AT INWOOD, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL LOW-HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.75	3.72	2.60	4.52	3.58	3.51	3.23	3.29	3.51	3.05	3.89	*---
2	2.52	3.52	3.19	4.25	2.44	4.10	3.36	3.25	2.67	3.18	3.70	3.73
3	3.34	4.32	3.03	4.96	2.81	2.20	3.74	3.39	2.52	3.50	*---	3.82
4	4.90	4.72	3.15	3.31	2.81	2.67	3.34	3.05	3.21	3.51	3.73	3.72
5	4.74	4.69	4.23	3.37	1.40	3.16	3.54	2.84	3.10	*---	3.43	3.26
6	4.92	3.27	3.32	3.39	1.88	3.40	2.43	2.64	2.89	3.45	3.36	2.89
7	4.58	3.72	2.57	3.07	*---	3.04	*---	2.59	*---	3.50	3.13	3.39
8	4.31	2.59	1.47	*---	1.69	*---	3.12	*---	3.49	3.55	3.15	3.57
9	4.02	*---	*---	2.78	1.01	2.21	2.39	2.70	3.75	3.21	3.44	4.17
10	3.75	2.98	2.63	2.95	1.69	1.85	2.56	2.85	3.30	3.55	3.57	4.06
11	*---	3.33	2.58	1.95	1.25	1.33	3.34	3.55	3.46	4.34	3.77	3.64
12	4.13	2.71	2.67	1.30	1.94	1.56	3.64	4.12	3.77	3.79	3.80	4.30
13	4.28	2.77	2.45	1.30	1.27	2.34	3.50	3.98	4.08	3.90	3.82	3.45
14	2.64	3.06	3.17	1.57	1.68	2.66	3.65	4.29	4.37	3.85	3.63	3.18
15	3.31	2.72	2.22	2.04	2.08	2.94	3.76	4.07	4.09	3.83	3.68	3.15
16	4.00	3.09	2.72	2.47	3.25	3.71	3.69	4.36	4.29	4.05	3.66	*---
17	3.81	4.38	3.33	2.90	4.80	4.70	4.93	4.45	3.54	3.70	*---	2.37
18	3.62	1.54	3.26	3.80	4.19	5.12	4.61	3.91	3.65	*---	3.06	2.98
19	3.44	2.68	3.20	2.92	3.96	5.38	4.05	3.42	*---	3.31	3.13	3.50
20	3.43	3.01	3.32	2.04	3.66	4.61	3.83	*---	3.50	3.08	2.42	2.58
21	3.60	3.35	2.52	2.20	*---	4.38	*---	2.84	3.62	2.90	2.26	2.49
22	3.43	3.22	2.83	1.06	3.34	3.88	3.43	2.98	3.29	2.48	2.33	2.83
23	2.68	1.21	2.80	*---	3.92	*---	2.88	2.92	3.11	2.39	2.56	3.97
24	2.53	1.48	*---	2.63	1.78	2.97	2.43	3.22	3.00	2.32	3.05	3.90
25	3.20	*---	3.46	2.49	1.35	3.01	2.90	3.09	2.83	2.13	2.87	4.51
26	3.01	2.10	2.06	2.18	2.32	2.79	3.50	3.16	2.79	2.20	3.31	4.82
27	*---	2.95	3.09	1.77	2.67	2.91	3.45	3.01	3.09	2.40	4.02	5.00
28	2.65	3.19	2.89	2.21	3.70	2.97	3.17	2.92	2.91	3.09	3.90	4.69
29	2.75	2.80	2.74	2.60	---	3.60	3.19	3.17	3.01	3.33	4.36	3.75
30	3.17	2.83	3.46	3.00	---	3.63	3.02	3.31	2.89	3.41	3.87	*---
31	3.60	---	3.97	3.64	---	3.46	---	3.32	---	3.72	3.81	---
MEAN	3.56	3.07	2.93	2.71	2.56	3.24	3.38	3.33	3.35	3.27	3.40	3.62
MAX	4.92	4.72	4.23	4.96	4.80	5.38	4.93	4.45	4.37	4.34	4.36	5.00
MIN	2.52	1.21	1.47	1.06	1.01	1.33	2.39	2.59	2.52	2.13	2.26	2.37

CAL YR 2002 MEAN 3.26 MAX 4.92 MIN 1.21
WTR YR 2003 MEAN 3.20 MAX 5.38 MIN 1.01

* Only a single high tide occurred

01311850 JAMAICA BAY AT INWOOD, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL HIGH-LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-1.29	-2.09	*---	-2.25	-1.96	-1.77	-2.72	-1.89	-0.88	-1.78	-1.98	-2.01
2	-1.85	*---	-3.60	-1.62	-2.05	-1.92	-2.46	-1.70	-1.64	-1.76	-1.99	-1.22
3	-1.88	-3.28	-3.73	-1.03	-3.25	-2.09	-1.75	-1.36	-1.71	-1.48	-1.69	-1.00
4	*---	-3.13	-3.72	-0.59	-2.20	-2.31	-1.50	-1.56	-1.03	-1.45	-1.65	-1.21
5	-1.99	-3.13	-2.90	-2.16	-3.28	-2.78	-0.64	-1.63	-1.04	-1.69	-1.60	-1.30
6	-3.03	-1.96	-2.05	-1.83	-3.04	-1.75	-1.82	-1.15	-1.41	-1.42	-1.55	-1.22
7	-2.45	-2.68	-2.40	-1.40	-2.08	-1.87	-1.62	-0.87	-1.21	-1.40	-1.90	*---
8	-2.73	-1.91	-2.88	-0.96	-1.75	-1.86	-0.36	-0.58	-1.28	-1.79	-1.77	-1.66
9	-2.56	-2.07	-2.20	-0.91	-2.14	-1.31	-0.12	-0.78	-1.43	-1.86	*---	-1.22
10	-2.15	-1.38	-1.50	-0.18	-1.06	-1.34	-0.24	-1.39	-2.32	*---	-2.13	-2.05
11	-0.84	-0.70	-0.58	-0.90	-1.09	-1.07	-0.31	-1.16	*---	-1.64	-2.26	-2.18
12	0.38	-1.26	-0.06	-2.35	-2.60	-0.90	-0.90	-1.78	-2.52	-2.17	-2.32	-1.19
13	-0.15	-0.50	-0.92	-1.56	-2.71	-1.29	-2.38	*---	-2.56	-2.47	-2.29	-1.51
14	-0.88	-0.83	0.26	-2.07	*---	-1.73	*---	-2.67	-2.53	-2.49	-2.16	-1.60
15	-0.50	-1.71	-1.81	-2.17	-3.09	-2.37	-3.18	-3.25	-2.43	-2.18	-1.67	-1.23
16	1.33	-0.11	-1.74	*---	-3.46	*---	-4.01	-2.67	-2.06	-1.72	-1.23	-1.09
17	*---	*---	*---	-2.54	-1.16	-2.43	-2.38	-2.48	-2.20	-1.66	-0.90	-0.53
18	-1.38	-1.06	-1.33	-2.23	-1.83	-2.62	-2.58	-2.79	-1.55	-1.54	-0.50	0.53
19	-1.59	-2.85	-1.91	-1.94	-3.14	-2.66	-2.66	-2.44	-1.06	-1.04	-0.82	-0.13
20	-2.14	-2.33	-1.08	-3.05	-3.40	-3.05	-2.27	-1.92	-0.58	-0.97	-0.96	-0.55
21	-1.95	-1.87	-1.85	-3.68	-3.03	-2.64	-1.59	-1.75	-0.69	-0.60	-0.86	-0.72
22	-1.82	-1.15	-2.80	-4.18	-1.15	-2.25	-0.79	-0.94	-0.73	-1.11	-0.68	-0.87
23	-1.90	-2.28	-2.60	-3.29	-1.04	-1.89	-1.44	-0.95	-0.82	-1.00	-0.63	*---
24	-2.02	-3.01	-2.67	-2.70	-2.55	-1.39	-1.36	-0.94	-1.03	-1.52	*---	-2.01
25	-1.69	-2.21	-1.03	-2.10	-2.91	-0.92	-1.30	-1.28	-1.01	-1.43	-1.71	-2.22
26	-0.52	-1.55	-2.05	-2.21	-2.11	-1.51	-0.72	-1.14	*---	*---	-1.96	-2.53
27	-1.34	-0.92	-2.09	-2.53	-1.87	-1.97	*---	*---	-1.02	-1.87	-2.14	-2.44
28	-0.96	-1.72	-1.95	-2.75	*---	-1.86	-1.67	-1.54	-1.43	-1.71	-2.57	-1.99
29	-1.03	-1.81	-2.17	*---	---	*---	-2.00	-1.48	-1.71	-1.87	-2.53	-1.88
30	-0.99	-2.55	-2.20	-2.97	---	-2.02	-2.22	-1.52	-1.82	-2.16	-2.71	-2.09
31	-1.23	---	*---	-2.37	---	-2.07	---	-1.08	---	-1.93	-2.26	---
MEAN	-1.42	-1.86	-1.98	-2.09	-2.31	-1.92	-1.68	-1.61	-1.49	-1.65	-1.70	-1.40
MAX	1.33	-0.11	0.26	-0.18	-1.04	-0.90	-0.12	-0.58	-0.58	-0.60	-0.50	0.53
MIN	-3.03	-3.28	-3.73	-4.18	-3.46	-3.05	-4.01	-3.25	-2.56	-2.49	-2.71	-2.53

CAL YR 2002 MEAN -1.66 MAX 1.33 MIN -3.73
WTR YR 2003 MEAN -1.75 MAX 1.33 MIN -4.18

* Only a single low tide occurred

01311850 JAMAICA BAY AT INWOOD, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL LOW-LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-1.99	-3.76	-3.83	-2.99	-2.53	-2.65	-3.03	-2.09	-1.29	-2.38	-2.25	-2.34
2	-2.36	-3.24	-3.99	-2.12	-3.16	-2.01	-2.62	-2.28	-2.11	-2.27	-2.34	-1.69
3	-1.94	-3.46	-3.90	-1.32	-3.38	-3.52	-2.22	-1.84	-2.41	-2.06	-2.30	-1.08
4	-1.72	-3.15	-3.99	-2.34	-2.57	-3.34	-1.95	-1.81	-1.67	-2.02	-1.83	-1.56
5	-2.83	-3.22	-3.48	-2.24	-3.86	-2.91	-0.98	-1.73	-1.51	-2.00	-2.00	-1.84
6	-3.61	-2.15	-2.65	-1.92	-3.20	-2.39	-2.06	-1.47	-1.83	-2.22	-1.70	-1.81
7	-2.83	-2.70	-2.77	-1.83	-2.20	-2.41	-2.20	-1.51	-2.01	-1.77	-1.91	-1.51
8	-2.97	-2.66	-2.92	-1.84	-2.31	-2.10	-0.67	-1.15	-1.82	-1.88	-2.23	-2.21
9	-2.87	-2.64	-2.58	-1.38	-2.40	-1.90	-0.77	-1.42	-1.56	-1.91	-2.07	-1.95
10	-2.30	-1.50	-1.84	-1.33	-1.38	-1.83	-0.64	-1.93	-2.34	-2.05	-2.22	-2.07
11	-1.40	-1.58	-1.13	-2.50	-1.99	-1.54	-0.63	-1.88	-2.56	-1.98	-2.63	-2.56
12	0.07	-1.34	-2.20	-2.50	-2.83	-1.52	-1.48	-2.00	-2.75	-2.31	-2.75	-1.77
13	-0.74	-1.77	-1.11	-3.30	-3.63	-1.74	-2.41	-2.53	-2.91	-2.63	-2.76	-1.57
14	-1.21	-1.93	-2.04	-2.49	-3.84	-1.85	-3.22	-2.93	-2.70	-2.85	-2.87	-1.97
15	-0.65	-2.24	-1.98	-2.65	-3.74	-2.68	-3.91	-3.27	-2.87	-2.84	-2.54	-1.61
16	-0.91	-1.51	-2.29	-2.67	-3.84	-2.84	-4.03	-3.37	-2.84	-2.64	-2.04	-1.12
17	-1.13	-0.52	-1.70	-2.55	-2.78	-2.82	-3.02	-2.82	-2.74	-2.57	-1.73	-1.07
18	-1.64	-3.21	-2.06	-2.46	-2.72	-2.65	-2.79	-3.16	-2.21	-2.18	-1.51	-0.03
19	-1.69	-3.89	-2.55	-2.89	-3.19	-2.81	-3.01	-2.98	-1.96	-1.96	-1.09	-0.53
20	-2.32	-2.51	-1.37	-4.12	-3.45	-3.15	-2.63	-2.68	-1.69	-1.73	-1.22	-1.09
21	-1.99	-2.11	-3.62	-4.17	-3.24	-2.74	-2.44	-2.27	-1.08	-1.23	-1.02	-1.28
22	-2.06	-1.40	-2.82	-4.42	-2.73	-2.82	-1.74	-2.07	-1.24	-1.29	-1.06	-1.23
23	-2.56	-3.15	-2.75	-4.13	-2.42	-2.42	-1.57	-1.78	-1.12	-1.26	-1.95	-1.22
24	-2.10	-3.21	-3.01	-2.70	-3.55	-1.99	-2.18	-1.21	-1.08	-1.77	-1.16	-2.09
25	-1.70	-2.94	-1.76	-2.43	-3.56	-1.59	-1.65	-1.49	-1.14	-1.97	-2.08	-2.23
26	-0.77	-1.78	-2.87	-2.49	-2.50	-1.66	-0.87	-1.15	-1.05	-1.53	-2.16	-2.55
27	-1.63	-1.62	-2.32	-3.22	-2.44	-2.31	-1.83	-1.77	-1.31	-2.00	-2.20	-2.53
28	-1.25	-2.46	-2.55	-2.90	-2.04	-2.42	-2.25	-1.62	-1.55	-2.49	-2.68	-2.09
29	-1.37	-3.51	-3.04	-3.16	---	-2.14	-2.23	-1.60	-1.99	-2.22	-2.83	-1.88
30	-1.30	-2.78	-2.62	-2.99	---	-2.51	-2.37	-1.66	-2.09	-2.43	-2.96	-2.44
31	-2.04	---	-2.58	-2.65	---	-3.11	---	-1.67	---	-2.59	-2.86	---
MEAN	-1.80	-2.46	-2.59	-2.67	-2.91	-2.40	-2.11	-2.04	-1.91	-2.10	-2.10	-1.70
MAX	0.07	-0.52	-1.11	-1.32	-1.38	-1.52	-0.63	-1.15	-1.05	-1.23	-1.02	-0.03
MIN	-3.61	-3.89	-3.99	-4.42	-3.86	-3.52	-4.03	-3.37	-2.91	-2.85	-2.96	-2.56

CAL YR 2002 MEAN -2.13 MAX 0.07 MIN -3.99
WTR YR 2003 MEAN -2.23 MAX 0.07 MIN -4.42

01311875 ROCKAWAY INLET NEAR FLOYD BENNETT FIELD, NY

LOCATION.--Lat 40°34'25", long 73°53'08", Kings County, Hydrologic Unit 2030202, at Metropolitan Transportation Authority Marine Parkway Gil Hodges Memorial Bridge, near Floyd Bennett Field.

PERIOD OF RECORD.--October 2002 to September 2003.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.--Records excellent except those in October, December to March, and May to September, which are good. Satellite elevation telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Storm tide of Dec. 11, 1992, reached an elevation of 8.9 ft, from high-water mark at site 0.5 mi south-southeast.

EXTREMES FOR CURRENT PERIOD.--October 2002 to September 2003: Maximum elevation, 6.04 ft, Dec. 25; minimum, -4.17 ft, Jan. 22.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.67	-0.11	1.20	0.98	0.91	0.29	0.98	1.48	0.87	1.00	0.92
2	---	0.33	-0.12	1.69	0.22	1.21	0.60	1.01	0.73	0.92	0.87	1.40
3	---	0.65	-0.08	2.41	-0.06	0.04	0.94	1.08	0.61	1.09	0.78	1.48
4	---	0.99	0.11	1.63	0.58	0.10	1.31	0.93	1.06	1.00	0.93	1.28
5	---	1.09	0.87	1.09	-0.82	0.46	1.59	0.88	1.09	0.81	0.94	1.21
6	---	1.47	1.07	1.17	-0.51	0.83	0.36	0.94	0.73	0.78	1.05	1.21
7	---	0.91	0.46	0.89	0.08	0.77	0.57	0.93	0.78	0.99	1.00	1.18
8	---	0.71	-0.28	0.78	0.00	0.44	1.48	1.06	1.05	1.05	1.10	1.28
9	1.04	0.33	0.00	0.90	-0.50	0.46	1.22	0.86	1.33	1.11	1.08	1.55
10	1.12	1.04	0.36	1.06	0.23	0.20	1.28	0.79	0.92	1.41	1.08	1.16
11	1.58	0.92	1.21	-0.01	0.01	0.23	1.60	1.16	1.01	1.51	1.01	0.94
12	2.40	0.82	1.06	-0.41	-0.29	0.26	1.40	1.38	1.02	1.28	0.87	1.57
13	1.86	1.13	1.28	-0.14	-0.73	0.50	0.87	0.99	1.30	0.98	0.78	1.29
14	1.09	0.98	1.63	-0.18	-0.68	0.66	0.56	0.93	1.22	0.87	0.67	1.09
15	1.69	0.64	0.49	0.37	-0.19	0.54	0.37	0.83	1.06	0.92	0.91	1.16
16	2.73	1.38	0.74	0.22	0.09	0.74	0.28	1.24	1.03	0.97	1.10	1.09
17	1.50	2.22	1.19	0.50	1.94	1.14	1.62	1.03	0.73	0.80	1.18	1.13
18	1.22	0.04	1.02	0.96	1.29	1.34	1.18	0.60	0.90	0.87	1.21	1.93
19	1.08	-0.03	0.76	0.71	0.56	1.34	0.78	0.49	1.11	0.95	0.99	1.79
20	0.69	0.80	1.44	-0.31	0.09	1.05	0.79	0.49	1.25	0.94	0.69	1.18
21	1.02	1.03	0.49	-0.52	0.19	0.90	0.96	0.55	1.45	1.08	0.89	1.21
22	0.98	1.49	0.45	-1.16	0.87	0.74	1.23	0.80	1.26	1.04	1.00	1.45
23	0.62	-0.41	0.29	-0.63	0.86	0.66	0.75	0.95	1.29	0.96	0.98	1.60
24	0.70	-0.58	0.26	0.16	-0.66	0.80	0.46	1.23	1.26	0.78	0.97	1.15
25	0.96	-0.05	1.82	0.26	-0.52	0.86	0.94	1.00	1.24	0.67	0.90	1.29
26	1.83	0.76	0.07	0.20	0.24	0.82	1.60	1.40	1.27	0.59	1.07	1.26
27	0.83	0.82	0.53	0.00	0.65	0.67	1.11	1.14	1.31	0.64	1.08	1.42
28	0.70	0.49	0.65	0.20	1.23	0.68	0.88	1.17	1.12	0.80	0.89	1.62
29	0.94	0.41	0.65	0.19	---	0.93	0.75	1.16	0.99	1.08	0.94	1.34
30	1.30	0.62	0.76	0.44	---	0.75	0.82	1.24	0.90	0.84	0.79	0.77
31	1.31	---	1.13	0.85	---	0.40	---	1.41	---	0.98	0.87	---
MEAN	---	0.72	0.65	0.47	0.18	0.69	0.95	0.99	1.08	0.95	0.96	1.30
MAX	---	2.22	1.82	2.41	1.94	1.34	1.62	1.41	1.48	1.51	1.21	1.93
MIN	---	-0.58	-0.28	-1.16	-0.82	0.04	0.28	0.49	0.61	0.59	0.67	0.77

01311875 ROCKAWAY INLET NEAR FLOYD BENNETT FIELD, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL HIGH-HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	3.56	3.42	4.48	4.30	3.90	3.23	3.84	3.67	3.97	3.94	4.29
2	---	3.61	3.63	5.49	3.88	4.31	3.48	4.01	3.59	4.01	3.62	4.57
3	---	4.27	3.46	5.91	2.90	3.09	3.85	3.97	3.56	3.97	3.81	4.48
4	---	5.03	4.23	5.41	3.98	3.32	4.14	3.57	3.79	3.61	4.07	3.98
5	---	5.08	4.60	4.55	1.80	3.35	3.86	3.40	3.42	3.29	3.94	4.13
6	---	5.72	4.84	4.35	1.92	3.34	2.42	3.29	3.24	3.47	4.28	4.21
7	---	4.46	4.03	3.31	2.34	3.04	2.14	3.28	2.96	3.96	4.17	4.16
8	---	4.06	3.13	3.28	2.18	2.82	3.17	2.66	3.48	4.05	4.31	4.62
9	5.06	3.54	2.83	3.07	1.93	2.09	3.43	3.37	4.30	4.42	4.41	4.80
10	4.72	3.76	2.58	3.33	1.83	2.09	3.63	3.23	4.13	4.98	4.47	4.19
11	4.82	3.35	3.09	2.50	2.51	2.18	3.62	3.74	4.60	5.04	4.59	4.07
12	5.10	2.83	4.22	1.42	2.30	2.54	3.92	4.12	4.83	4.84	4.33	4.27
13	4.24	3.28	3.05	2.29	1.58	2.27	3.41	4.34	5.43	4.70	4.02	4.07
14	3.38	3.05	4.06	1.84	1.66	2.92	3.62	4.63	5.22	4.57	3.74	3.64
15	3.84	2.73	2.42	2.82	2.89	3.06	3.92	4.97	5.02	4.40	3.66	3.47
16	5.21	3.95	3.10	2.70	3.27	3.62	4.56	5.74	4.58	4.09	3.69	3.18
17	3.97	4.83	3.72	3.78	5.49	4.50	5.85	4.92	4.12	3.67	3.63	3.24
18	3.73	3.16	3.91	3.92	5.19	5.03	5.03	4.41	4.01	3.26	3.43	3.80
19	3.77	2.90	3.62	4.44	4.17	5.16	4.64	3.99	3.47	3.21	3.04	3.63
20	3.36	3.74	4.57	3.43	3.49	5.34	4.27	2.96	3.85	3.01	2.75	3.16
21	3.69	3.95	3.76	3.12	3.45	4.56	3.29	3.56	3.70	3.25	3.06	3.52
22	3.79	4.58	3.54	2.28	3.32	4.17	4.14	3.21	3.35	3.34	3.37	3.90
23	3.46	2.39	3.21	2.25	4.74	3.28	3.87	3.23	3.42	3.06	3.29	4.56
24	3.42	2.19	3.05	3.10	1.71	3.76	2.72	3.21	3.49	3.10	3.47	4.34
25	3.68	2.81	6.04	3.44	2.55	3.75	3.30	3.14	3.67	3.13	3.74	4.73
26	4.51	3.32	3.60	3.10	2.73	3.69	3.76	3.62	3.81	3.35	4.40	4.67
27	2.94	3.14	3.19	3.53	3.21	3.50	3.43	3.49	3.99	3.58	4.53	5.13
28	2.99	3.08	3.62	3.20	3.96	2.90	3.37	3.84	3.85	4.06	4.40	5.51
29	3.25	3.20	3.69	3.21	---	3.51	3.44	4.06	4.01	4.20	4.28	5.45
30	3.83	3.73	3.66	3.50	---	3.50	3.77	4.01	3.85	4.06	4.09	4.36
31	3.91	---	4.64	3.97	---	3.22	---	4.26	---	4.28	4.24	---
MEAN	---	3.64	3.69	3.45	3.05	3.48	3.71	3.81	3.95	3.87	3.90	4.20
MAX	---	5.72	6.04	5.91	5.49	5.34	5.85	5.74	5.43	5.04	4.59	5.51
MIN	---	2.19	2.42	1.42	1.58	2.09	2.14	2.66	2.96	3.01	2.75	3.16

01311875 ROCKAWAY INLET NEAR FLOYD BENNETT FIELD, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL LOW-HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	3.51	2.25	4.36	3.47	3.35	2.92	3.15	3.54	2.87	3.71	3.59
2	---	3.26	2.95	4.09	2.15	3.83	3.20	3.15	2.50	3.02	3.58	*---
3	---	4.08	2.73	5.00	2.64	2.05	3.51	3.26	2.40	3.40	3.53	3.72
4	---	4.37	2.89	3.17	2.37	2.53	3.29	2.92	3.06	3.35	*---	3.56
5	---	4.53	4.10	3.29	1.28	2.98	3.54	2.75	2.96	*---	3.23	3.12
6	---	3.16	3.15	3.30	1.77	3.25	2.27	2.61	2.70	3.32	3.18	2.80
7	---	3.59	2.35	2.96	*---	2.98	*---	2.50	*---	3.39	2.90	3.24
8	e4.16	2.39	1.31	*---	1.52	2.32	3.09	*---	3.38	3.42	2.96	3.36
9	3.87	*---	*---	2.58	0.89	*---	2.40	2.60	3.64	3.12	3.23	3.98
10	3.60	2.82	2.52	2.85	1.60	1.73	2.52	2.72	3.19	3.44	3.37	3.86
11	*---	3.22	2.46	1.69	1.09	1.33	3.31	3.44	3.31	4.10	3.52	3.53
12	4.16	2.60	2.56	1.13	1.23	1.51	3.48	4.02	3.58	3.68	3.55	4.20
13	4.18	2.77	2.40	1.14	1.06	2.23	3.32	3.73	3.96	3.62	3.57	3.38
14	2.59	2.96	3.07	1.41	1.52	2.52	3.45	3.96	4.10	3.56	3.42	3.11
15	3.28	2.64	2.16	1.90	1.96	2.82	3.52	3.85	3.85	3.63	3.53	3.11
16	4.14	3.02	2.58	2.34	3.08	3.55	3.41	4.25	4.07	3.84	3.60	*---
17	3.67	4.22	3.22	2.60	4.77	4.45	4.81	4.21	3.35	3.45	*---	2.37
18	3.42	1.28	3.07	3.58	3.96	4.89	4.42	3.65	3.46	3.23	2.91	2.88
19	3.27	2.61	3.03	2.67	3.78	5.10	3.79	3.19	*---	*---	2.96	3.61
20	3.28	2.94	3.18	1.86	3.47	4.46	3.61	*---	3.41	2.99	2.24	2.46
21	3.46	3.25	2.32	1.97	3.23	4.14	*---	2.69	3.54	2.81	2.08	2.38
22	3.27	3.03	2.73	0.92	*---	3.62	3.24	2.89	3.26	2.39	2.16	2.82
23	2.59	0.95	2.62	*---	3.70	*---	2.65	2.87	3.05	2.34	2.33	3.80
24	2.52	1.32	*---	2.55	1.67	2.83	2.28	3.20	2.92	2.18	2.83	3.66
25	3.14	*---	3.35	2.28	1.14	2.88	2.88	3.00	2.75	2.03	2.68	4.28
26	2.94	2.05	1.87	2.13	2.17	2.66	3.43	3.15	2.69	2.04	3.10	4.64
27	*---	2.86	2.91	1.66	2.61	2.69	3.32	2.96	2.95	2.21	3.75	4.82
28	2.46	2.95	2.75	2.12	3.56	2.80	3.08	2.89	2.81	2.79	3.68	4.49
29	2.59	2.61	2.68	2.41	---	3.41	3.05	3.03	2.83	3.22	4.11	3.56
30	3.09	2.66	3.33	2.81	---	3.47	2.89	3.17	2.74	3.19	3.71	*---
31	3.53	---	3.77	3.50	---	3.16	---	3.18	---	3.48	3.64	---
MEAN	---	2.92	2.77	2.56	2.37	3.09	3.24	3.21	3.21	3.11	3.21	3.49
MAX	---	4.53	4.10	5.00	4.77	5.10	4.81	4.25	4.10	4.10	4.11	4.82
MIN	---	0.95	1.31	0.92	0.89	1.33	2.27	2.50	2.40	2.03	2.08	2.37

e Estimated from reconstructed graph
* Only a single high tide occurred

01311875 ROCKAWAY INLET NEAR FLOYD BENNETT FIELD, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL HIGH-LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	-1.77	-3.44	-1.90	-1.66	-1.43	-2.38	-1.59	-0.66	-1.47	-1.62	-1.61
2	---	*---	*---	-1.15	-1.75	-1.62	-2.15	-1.38	-1.39	-1.44	-1.64	-0.84
3	---	-2.88	-3.32	-0.50	-2.88	-1.87	-1.45	-1.13	-1.47	-1.18	-1.41	-0.74
4	---	-2.67	-3.33	-0.25	-1.82	-2.16	-1.13	-1.35	-0.80	-1.21	-1.33	-0.91
5	---	-2.62	-2.34	-1.76	-3.04	-2.40	-0.36	-1.30	-0.79	-1.39	-1.29	-0.99
6	---	-1.43	-1.60	-1.46	-2.70	-1.49	-1.66	-0.89	-1.15	-1.17	-1.35	-0.97
7	---	-2.29	-2.05	-1.15	-1.78	-1.46	-1.12	-0.70	-0.88	-1.09	-1.52	-1.26
8	---	-1.63	-2.52	-0.68	-1.65	-1.62	-0.11	-0.38	-0.98	-1.53	-1.45	*---
9	-2.11	-1.80	-1.92	-0.81	-2.00	-1.11	0.11	-0.62	-1.20	-1.51	*---	-0.92
10	-1.67	-1.09	-1.29	-0.03	-0.94	-1.23	-0.02	-1.15	-1.95	-1.53	-1.88	-1.64
11	-0.46	-0.40	-0.11	-0.74	-0.96	-0.97	0.02	-0.81	-2.13	*---	-1.96	-1.81
12	0.67	-0.97	0.09	-2.06	-2.61	-0.73	-0.70	-1.39	*---	-1.83	-2.01	-0.82
13	0.13	-0.20	-0.53	-1.44	-2.70	-0.89	-1.99	-2.27	-2.12	-2.15	-1.98	-1.12
14	-0.54	-0.65	0.53	-1.79	-2.72	-1.44	*---	*---	-2.13	-2.08	-1.88	-1.22
15	-0.15	-1.42	-1.50	-1.92	*---	-1.99	-2.78	-2.77	-2.06	-1.82	-1.44	-0.89
16	1.68	0.35	-1.43	*---	-3.06	*---	-3.55	-2.14	-1.71	-1.45	-1.00	-0.81
17	-0.88	*---	*---	-2.15	-0.64	-2.07	-1.83	-2.14	-1.86	-1.38	-0.68	-0.32
18	-1.26	-0.76	-1.02	-1.94	-1.33	-2.21	-2.07	-2.38	-1.25	-1.21	-0.32	0.93
19	*---	-2.51	-1.68	-1.64	-2.76	-2.19	-2.25	-2.10	-0.77	-0.83	-0.66	0.24
20	-1.93	-1.95	-0.93	-2.74	-2.98	-2.55	-1.89	-1.66	-0.31	-0.72	-0.86	-0.28
21	-1.57	-1.47	-1.57	-3.32	-2.68	-2.20	-1.27	-1.42	-0.22	-0.43	-0.65	-0.44
22	-1.50	-0.84	-2.36	-3.83	-0.80	-2.02	-0.62	-0.66	-0.43	-0.80	-0.57	-0.59
23	-1.57	-2.08	-2.25	-2.91	-0.66	-1.65	-1.24	-0.62	-0.52	-0.77	-0.58	*---
24	-1.71	-2.79	-2.26	-2.38	-2.35	-1.14	-1.12	-0.64	-0.75	-1.24	-0.98	-1.68
25	-1.32	-1.94	-0.70	-1.78	-2.55	-0.73	-0.97	-0.99	-0.84	-1.20	*---	-1.85
26	-0.08	-1.27	-1.85	-1.88	-1.78	-1.28	-0.45	-0.76	*---	*---	-1.67	-2.10
27	-1.02	-0.69	-1.69	-2.27	-1.46	-1.59	-1.34	-1.21	-0.86	-1.74	-1.84	-1.97
28	-0.72	-1.46	-1.62	-2.40	*---	-1.53	*---	*---	-1.16	-1.49	-2.24	-1.60
29	-0.76	-1.62	-1.78	-2.63	---	*---	-1.69	-1.21	-1.37	-1.54	-2.11	-1.49
30	-0.61	-2.13	-1.87	*---	---	-1.72	-1.85	-1.22	-1.53	-1.78	-2.27	-1.78
31	-0.84	---	*---	-2.02	---	-1.83	---	-0.82	---	-1.55	-1.87	---
MEAN	---	-1.53	-1.66	-1.78	-2.01	-1.62	-1.35	-1.30	-1.19	-1.36	-1.42	-1.05
MAX	---	0.35	0.53	-0.03	-0.64	-0.73	0.11	-0.38	-0.22	-0.43	-0.32	0.93
MIN	---	-2.88	-3.44	-3.83	-3.06	-2.55	-3.55	-2.77	-2.13	-2.15	-2.27	-2.10

* Only a single low tide occurred

01311875 ROCKAWAY INLET NEAR FLOYD BENNETT FIELD, NY—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY TIDAL LOW-LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	-3.38	-3.69	-2.48	-2.09	-2.23	-2.79	-1.73	-0.97	-1.98	-1.89	-1.96
2	---	-2.88	-3.63	-1.63	-2.95	-1.68	-2.25	-1.88	-1.80	-1.92	-2.03	-1.38
3	---	-3.05	-3.50	-0.89	-3.03	-3.20	-1.89	-1.54	-2.07	-1.70	-1.95	-0.75
4	---	-2.72	-3.54	-1.96	-2.38	-2.97	-1.55	-1.48	-1.36	-1.65	-1.62	-1.22
5	---	-2.82	-3.11	-1.81	-3.54	-2.51	-0.74	-1.41	-1.22	-1.76	-1.74	-1.51
6	---	-1.82	-2.23	-1.48	-2.85	-1.93	-1.84	-1.16	-1.56	-1.96	-1.41	-1.50
7	---	-2.32	-2.51	-1.52	-1.88	-1.96	-1.88	-1.20	-1.72	-1.54	-1.59	-1.83
8	e-2.46	-2.29	-2.70	-1.60	-2.01	-1.76	-0.36	-0.87	-1.48	-1.53	-1.86	-1.32
9	-2.37	-2.27	-2.36	-1.10	-2.19	-1.60	-0.55	-1.20	-1.21	-1.61	-1.73	-1.55
10	-1.86	-1.18	-1.62	-1.07	-1.28	-1.58	-0.44	-1.59	-2.01	-1.69	-1.88	-1.66
11	-1.06	-1.34	-0.83	-2.29	-1.78	-1.31	-0.26	-1.54	-2.18	-1.35	-2.22	-2.17
12	0.32	-1.00	-1.87	-2.24	-2.67	-1.28	-1.21	-1.75	-2.38	-1.90	-2.31	-1.38
13	-0.48	-1.45	-0.66	-2.98	-3.24	-1.43	-2.01	-2.29	-2.40	-2.24	-2.38	-1.17
14	-0.94	-1.61	-1.79	-2.20	-3.51	-1.57	-2.77	-2.55	-2.22	-2.43	-2.49	-1.60
15	-0.29	-1.91	-1.64	-2.38	-3.27	-2.32	-3.43	-2.84	-2.42	-2.40	-2.21	-1.27
16	-0.58	-1.10	-1.99	-2.39	-3.30	-2.44	-3.65	-2.82	-2.39	-2.23	-1.72	-0.84
17	-1.03	-0.17	-1.38	-2.20	-2.30	-2.34	-2.53	-2.27	-2.29	-2.24	-1.40	-0.76
18	-1.37	-2.98	-1.74	-2.03	-2.32	-2.22	-2.30	-2.70	-1.91	-1.88	-1.21	0.22
19	-1.32	-3.45	-2.14	-2.57	-2.76	-2.33	-2.54	-2.58	-1.58	-1.62	-0.92	-0.35
20	-1.93	-2.12	-1.18	-3.84	-3.08	-2.58	-2.22	-2.31	-1.37	-1.43	-1.09	-0.80
21	-1.65	-1.72	-3.15	-3.75	-2.77	-2.37	-2.03	-1.97	-0.85	-1.00	-0.89	-0.96
22	-1.68	-1.02	-2.46	-4.17	-2.34	-2.39	-1.34	-1.67	-1.02	-1.00	-0.85	-0.83
23	-2.18	-2.98	-2.40	-3.83	-2.46	-2.12	-1.34	-1.41	-0.86	-1.09	-1.57	-0.86
24	-1.72	-2.90	-2.68	-2.41	-3.25	-1.68	-1.95	-0.92	-0.86	-1.47	-1.73	-1.76
25	-1.35	-2.57	-1.41	-2.14	-3.18	-1.30	-1.39	-1.24	-0.87	-1.69	-1.43	-1.89
26	-0.47	-1.42	-2.63	-2.15	-2.18	-1.40	-0.57	-0.87	-0.88	-1.37	-1.87	-2.11
27	-1.29	-1.38	-2.01	-2.87	-2.05	-1.86	-1.54	-1.42	-1.00	-1.76	-1.87	-2.14
28	-1.01	-2.25	-2.16	-2.59	-1.64	-2.08	-1.93	-1.33	-1.25	-2.17	-2.35	-1.71
29	-1.09	-3.05	-2.62	-2.81	---	-1.82	-2.02	-1.33	-1.66	-1.84	-2.41	-1.63
30	-0.93	-2.47	-2.19	-2.54	---	-2.09	-2.03	-1.41	-1.76	-2.08	-2.53	-2.12
31	-1.67	---	-2.13	-2.21	---	-2.89	---	-1.33	---	-2.21	-2.40	---
MEAN	---	-2.12	-2.26	-2.33	-2.58	-2.04	-1.78	-1.70	-1.58	-1.77	-1.79	-1.36
MAX	---	-0.17	-0.66	-0.89	-1.28	-1.28	-0.26	-0.87	-0.85	-1.00	-0.85	0.22
MIN	---	-3.45	-3.69	-4.17	-3.54	-3.20	-3.65	-2.84	-2.42	-2.43	-2.53	-2.17

e Estimated from reconstructed graph

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site. Where "Drainage area" column is blank, drainage area was not available at time of publication.

Discharge measurements made at low-flow partial-record stations during water year 2003

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Streams on Long Island				
01304600	Big Fresh Pond Outlet at North Sea, N.Y.	Lat 40°55′49″, long 72°25′04″, Suffolk County, at culvert on Noyack Road, at North Sea, 3.5 mi northwest of Southampton	--	1951-69 1971-98 2001-03	12-02-02 04-30-03	0.88 3.78
01304630	Mill Creek at Noyack, N.Y..	Lat 40°59′35″, long 72°21′00″, Suffolk County, 50 ft upstream from culvert on Noyack Road, 0.25 mi west of Noyack	--	1958-98 2001-03	12-02-02 04-30-03	0.25 1.14
01304660	Ligonee Brook at Sag Harbor, N.Y.	Lat 40°59′21″, long 72°18′12″, Suffolk County, at culvert on Brick Kiln Road, 0.75 mi southwest of Sag Harbor	--	1953-69 1973-98 2001-03	10-24-02 04-30-03	0.01 1.14
01304672	Tanbark Creek at Three Mile Harbor, N.Y.	Lat 40°59′44″, long 72°11′06″, Suffolk County, at culvert on Soak Hides Road	--	1974-75 2001-03	10-24-02 04-25-03	0.30 0.70
01304675	Fresh Pond Tributary at Barnes Hole, N.Y.	Lat 40°59′51″, long 72°07′22″, Suffolk County, at culvert on Albert's Landing Road	--	1974-75 2001-03	10-24-02 04-29-03	0.04 0.52
01304693	Hook Pond Tributary at East Hampton, N.Y.	Lat 40°57′34″, long 72°10′42″, Suffolk County, at culvert on Davids Lane	--	1974-75 2001-03	10-24-02 04-29-03	0.39 1.40
01304697	Georgica Pond Tributary No. 2 at Midhampton, N.Y.	Lat 40°57′10″, long 72°13′48″, Suffolk County, at culvert on State Highway 27A	--	1974-75 2001-03	12-02-02 03-12-03	0.04 0.40
01304700	Georgica Pond Tributary No. 1 at Midhampton, N.Y.	Lat 40°57′01″, long 72°14′20′″, Suffolk County, at culvert on State Highway 27A	--	1974-75 2001-03	12-02-02 03-12-03	0.35 0.67
01304730	Poxabogue Pond Outlet at Sagaponack, N.Y.	Lat 40°55′48″, long 72°17′16″, Suffolk County, at culvert on Sagg St., at Sagaponack, and 1 mi southeast of Bridgehampton	--	1953-78 1980-86 1988-98 2001-03	10-24-02 04-29-03	0.87 4.52
01304739	Mill Creek at Water Mill, N.Y.	Lat 40°54′34″, long 72°01′25″, Suffolk County, at culvert on Old Mill Rd.	--	1974-75 2001-03	10-24-02 04-29-03	1.48 5.29

KINGS COUNTY

404052073515201. Local number, K1194.5

LOCATION.--Lat 40°40'52", long 73°51'52", Hydrologic Unit 02030202, at north side of McKinley Avenue, 90 ft west of Drew Street, City Line. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 55 ft, screened 45 to 50 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 28.5 ft above sea level. Measuring point: Top of casing, 0.52 ft below land-surface datum.

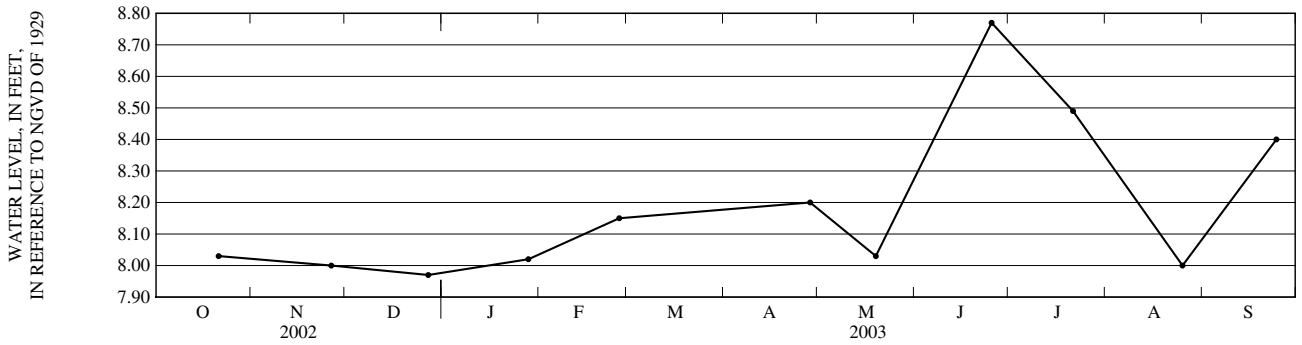
REMARKS.--Replaced well K1194.4 in October 2000 near same location.

PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.77 ft above sea level, June 25, 2003; lowest measured, 7.97 ft below sea level, December 27, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	8.03	DEC 27	7.97	FEB 26	8.15	MAY 19	8.03	JUL 21	8.49	SEP 24	8.40
NOV 26	8.00	JAN 28	8.02	APR 28	8.20	JUN 25	8.77	AUG 25	8.00		



404236073574601. Local number, K1301.1

LOCATION.--Lat 40°42'35", long 73°57'48", Hydrologic Unit 02030201, at Williamsburg Savings Bank, in basement, 84 ft north of Broadway and 178 ft west of Driggs Avenue, Williamsburg. Owner: Williamsburg Savings Bank.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled unused steel well, diameter 8 in. to 6 in., depth 92 ft, screened 72 to 92 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

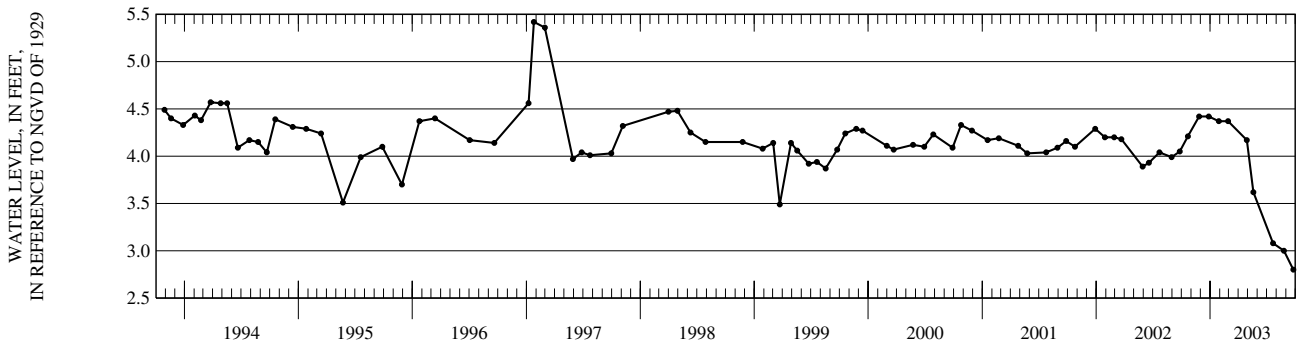
DATUM.--Land-surface datum is 52.5 ft above sea level. Measuring point: Hole in top of 4-in steel plug, 9.03 ft below land- surface datum.

PERIOD OF RECORD.--January 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.08 ft above sea level, October 2, 1978; lowest measured, 7.72 ft below sea level, January 19, 1961.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	4.21	DEC 27	4.42	FEB 27	4.37	MAY 19	3.62	AUG 25	3.00		
NOV 26	4.42	JAN 28	4.37	APR 28	4.17	JUL 21	3.08	SEP 24	2.80		



KINGS COUNTY—Continued

403451073585601. Local number, K2859.1

LOCATION.--Lat 40°34'51", long 73°58'56", Hydrologic Unit 02030202, at east side of Stillwell Avenue, 689 ft north of Neptune Avenue, Coney Island. Owner: Great Bear Auto Shop.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel private supply well, diameter 4 in., depth 500 ft, screened 474 to 500 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 8.0 ft above sea level. Measuring point: Top of 2-in steel reducer at 3/4-in hole, 0.79 ft below land-surface datum.

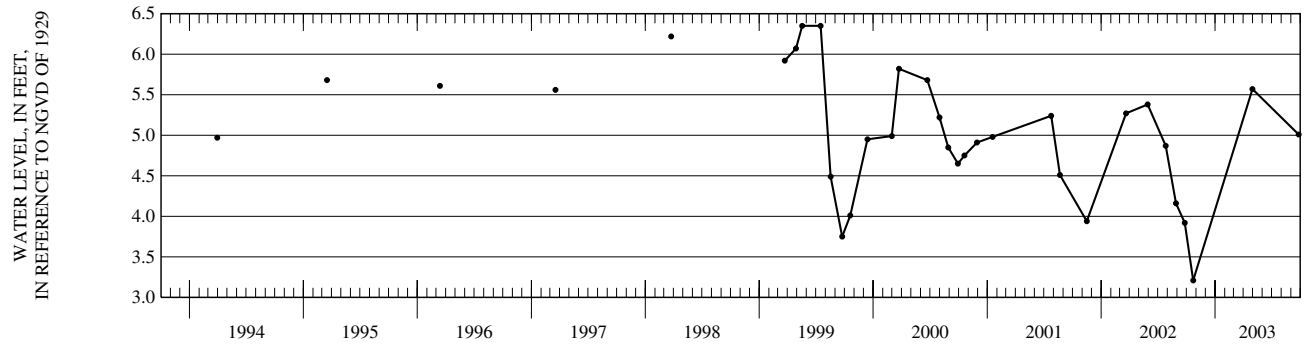
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--March 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.35 ft above sea level, May 18 and July 16, 1999; lowest measured, 0.20 ft above sea level, January 8, 1987.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	3.21	APR 30	5.57	SEP 25	5.01



403612073573208. Local number, K3159.1

LOCATION.--Lat 40°36'12", long 73°57'32", Hydrologic Unit 02030202, at east side of East 14th Street, 52 ft north of Avenue S, Sheepshead Bay. Owner: City of New York

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 35 ft, screened 32 to 35 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

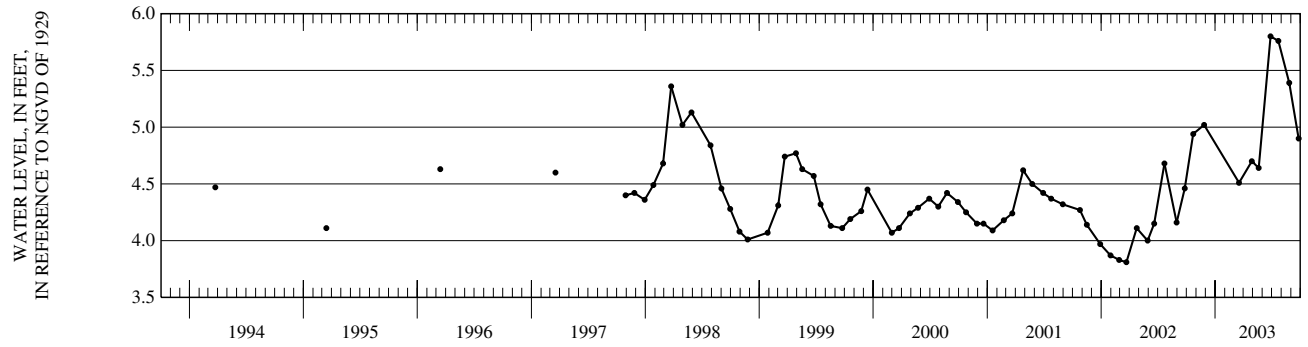
DATUM.--Land-surface datum is 20.0 ft above sea level. Measuring point: Top of casing, 0.36 ft below land-surface datum.

PERIOD OF RECORD.--July 1970 to June 1976 and April 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.80 ft above sea level, June 27, 2003; lowest measured, 3.60 ft above sea level, July 24, 1970.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	4.94	MAR 18	4.51	MAY 20	4.64	JUL 22	5.76	SEP 25	4.90		
NOV 26	5.02	APR 28	4.70	JUN 27	5.80	AUG 26	5.39				



KINGS COUNTY—Continued

404155073552109. Local number, K3245.2

LOCATION.--Lat 40°41'55", long 73°55'21", Hydrologic Unit 02030201, at west side of Wilson Avenue, 54 ft north of Stanhope Street, Bushwick. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 21.9 ft, screened 16.9 to 21.9 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 30.0 ft above sea level. Measuring point: Top of casing, 0.99 ft below land-surface datum.

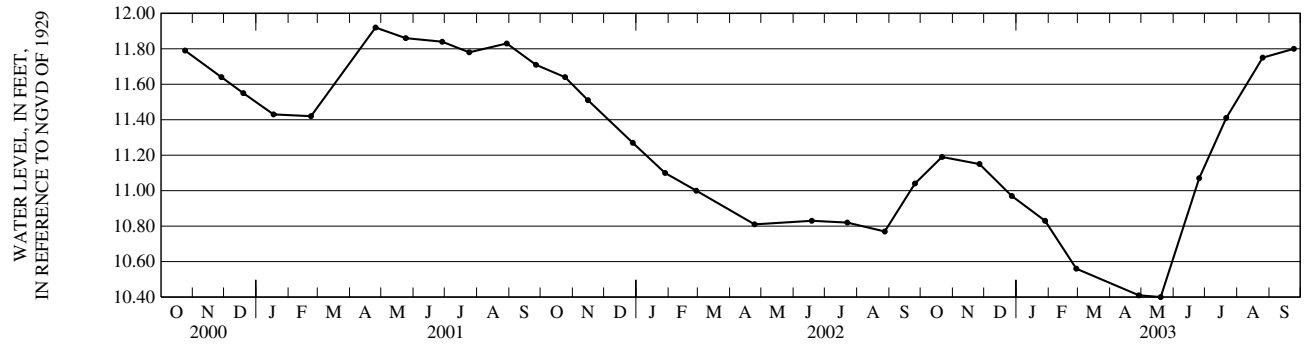
REMARKS.--Replaced well K3245.1 in October 2000 near same location.

PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.92 ft above sea level, April 25, 2001; lowest measured, 10.40 ft above sea level, May 19, 2003.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	11.19	DEC 27	10.97	FEB 27	10.56	MAY 19	10.40	JUL 21	11.41	SEP 24	11.80
NOV 26	11.15	JAN 28	10.83	APR 28	10.41	JUN 25	11.07	AUG 25	11.75		



403902073552802. Local number, K3246.2

LOCATION.--Lat 40°39'02", long 73°55'28", Hydrologic Unit 02030202, at north side of Snyder Avenue, between Kings Highway and East 56th Street, East Flatbush. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 35 ft, screened 20 to 30 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 25.5 ft above sea level. Measuring point: Top of casing, 0.16 ft below land-surface datum.

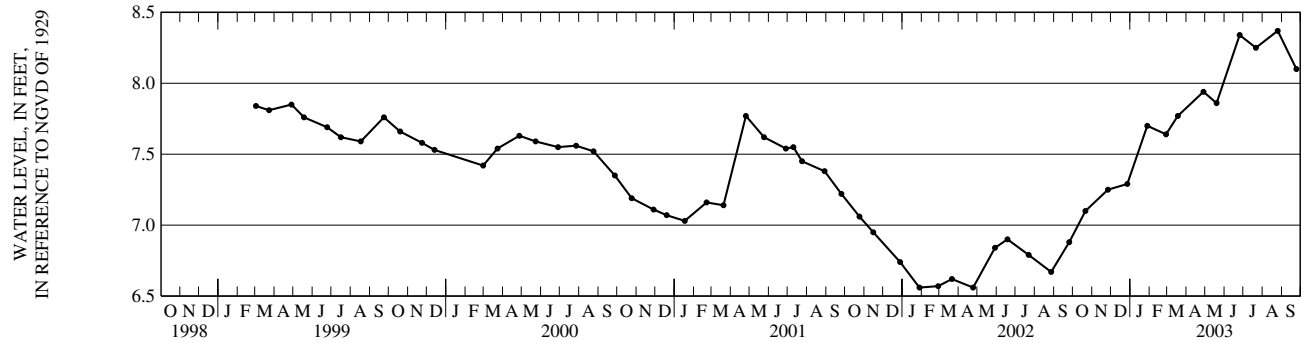
REMARKS.--Replaced well K3246.1 in November 1998 near same location.

PERIOD OF RECORD.--March 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.37 ft above sea level, August 25, 2003; lowest measured, 6.56 ft above sea level, January 28 and April 24, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	7.10	DEC 27	7.29	FEB 27	7.64	APR 28	7.94	JUN 25	8.34	AUG 25	8.37
NOV 26	7.25	JAN 28	7.70	MAR 18	7.77	MAY 19	7.86	JUL 21	8.25	SEP 24	8.10



KINGS COUNTY—Continued

403712074001608. Local number, K3248.1

LOCATION.--Lat 40°37'12", long 74°00'16", Hydrologic Unit 02030202, at northwest corner of 73rd Street and 14th Avenue, New Utrecht. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 in., depth 45 ft, screened 42 to 45 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

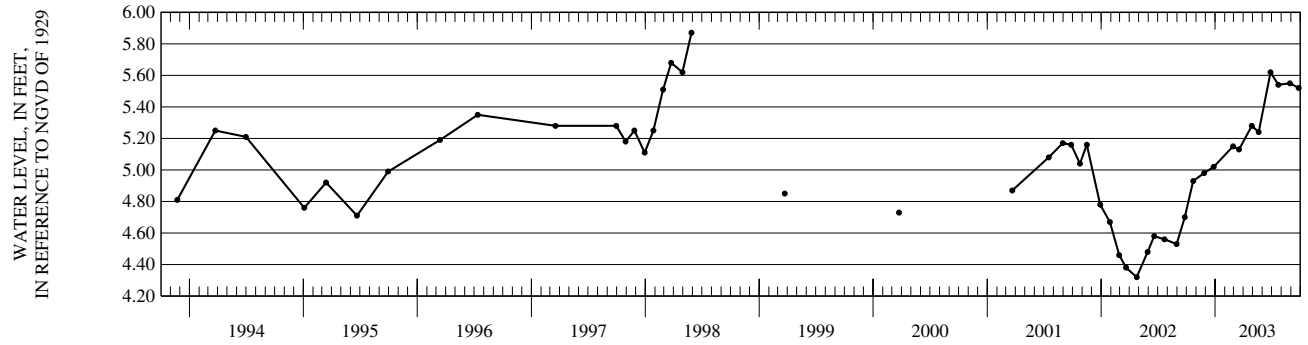
DATUM.--Land-surface datum is 40.4 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--March 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 5.87 ft above sea level, May 28, 1998; lowest measured, 3.38 ft above sea level, December 28, 1984.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	4.93	DEC 27	5.02	MAR 18	5.13	MAY 20	5.24	JUL 22	5.54	SEP 25	5.52
NOV 26	4.98	FEB 27	5.15	APR 28	5.28	JUN 27	5.62	AUG 28	5.55		



403623074002101. Local number, K3249.1

LOCATION.--Lat 40°36'23", long 74°00'23", Hydrologic Unit 02030202, at east side of Bay 16th Street, 42 ft north of Benson Avenue, Bath Beach. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 34 ft, screened 31 to 34 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

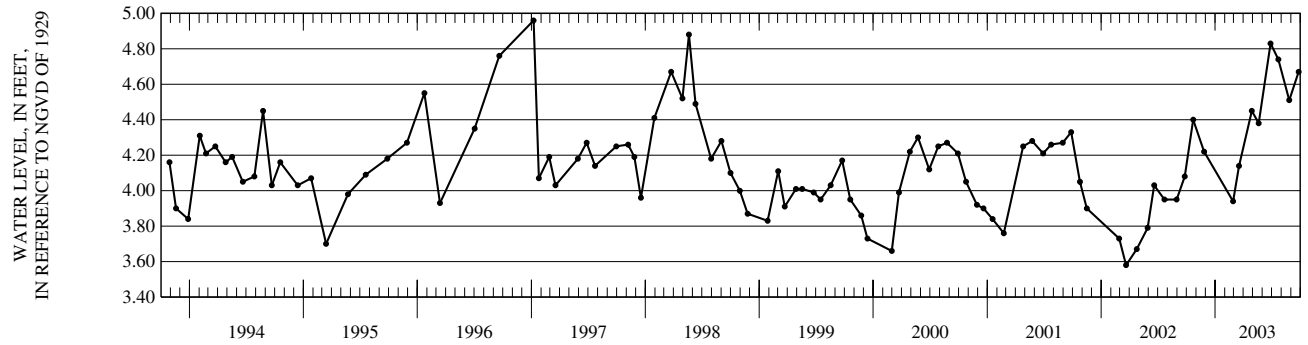
DATUM.--Land-surface datum is 31.0 ft above sea level. Measuring point: Top of coupling, 0.02 ft below land-surface datum.

PERIOD OF RECORD.--April 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.09 ft above sea level, January 24, 1991; lowest measured, 3.16 ft above sea level, May 21, 1985.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	4.40	FEB 27	3.94	APR 28	4.45	JUN 27	4.83	AUG 26	4.51		
NOV 26	4.22	MAR 18	4.14	MAY 20	4.38	JUL 22	4.74	SEP 25	4.67		



KINGS COUNTY—Continued

403520073575501. Local number, K3251.1

LOCATION.--Lat 40°35'20", long 73°57'55", Hydrologic Unit 02030202, at north side of Avenue Y, 115 ft west of East 6th Street, Brighton Beach. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 23 ft, screened 20 to 23 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

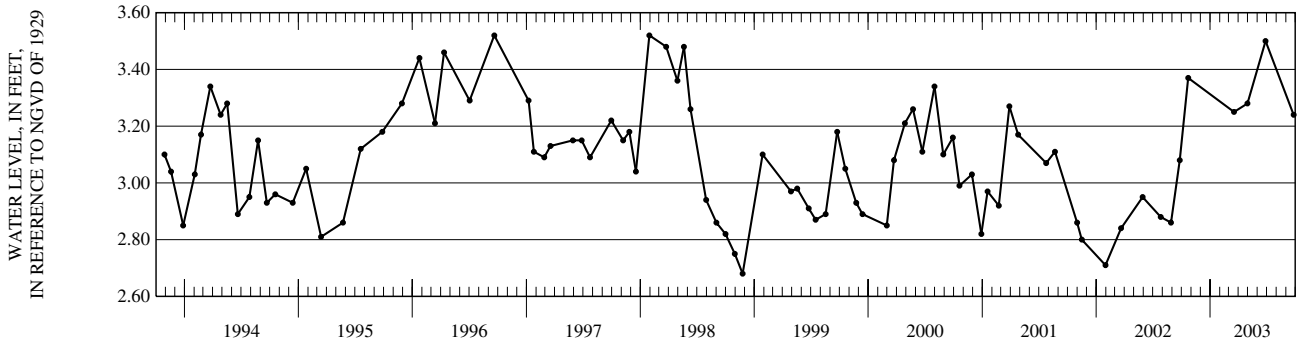
DATUM.--Land-surface datum is 9.5 ft above sea level. Measuring point: Top of coupling, 0.06 ft below land-surface datum.

PERIOD OF RECORD.--April 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.52 ft above sea level, September 19, 1996; lowest measured, 2.56 ft above sea level, March 25, 1982.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	3.37	MAR 18	3.25	APR 30	3.28	JUN 27	3.50	SEP 25	3.24



403702073555808. Local number, K3252.1

LOCATION.--Lat 40°37'02", long 73°55'58", Hydrologic Unit 02030202, at east side of Hendrickson Street, 46 ft north of Quentin Avenue, Flatlands. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 30 ft, screened 27 to 30 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

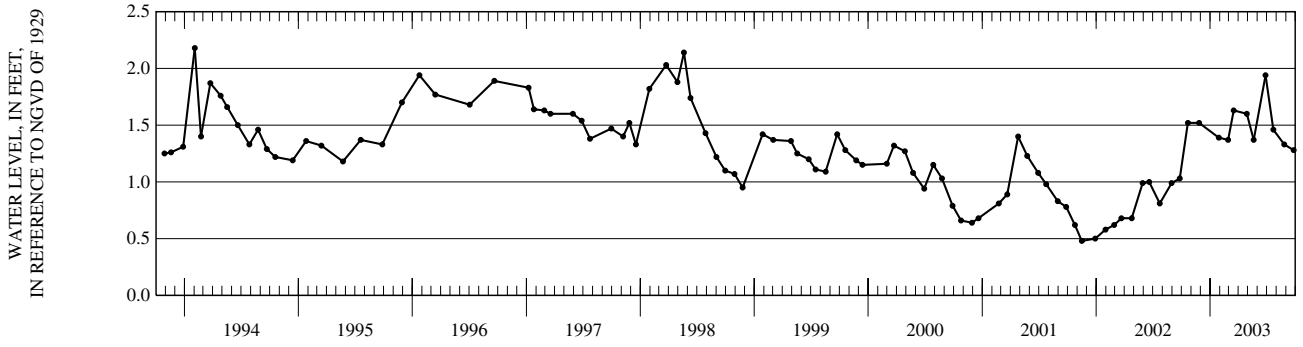
DATUM.--Land-surface datum is 12.7 ft above sea level. Measuring point: Top of coupling, 0.02 ft below land-surface datum.

PERIOD OF RECORD.--June 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.68 ft above sea level, February 11, 1981; lowest measured, 0.48 ft above sea level, November 15, 2001.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	1.52	JAN 28	1.39	MAR 17	1.63	MAY 20	1.37	JUL 22	1.46	SEP 25	1.28
NOV 26	1.52	FEB 27	1.37	APR 28	1.60	JUN 27	1.94	AUG 26	1.33		



KINGS COUNTY—Continued

403737073564908. Local number, K3254.1

LOCATION.--Lat 40°37'37", long 73°56'49", Hydrologic Unit 02030202, at east side of East 31st Street, 46 ft south of Avenue J, Flatbush. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 29 ft, screened 26 to 29 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

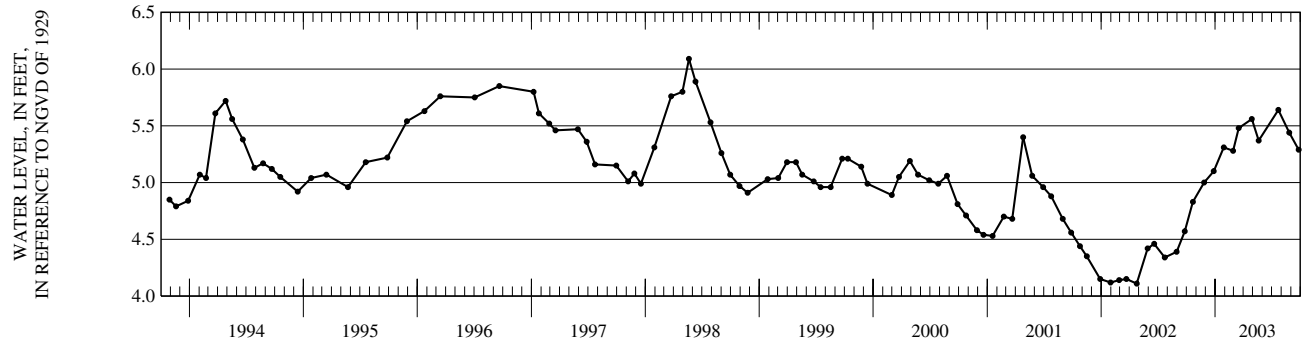
DATUM.--Land-surface datum is 26.9 ft above sea level. Measuring point: Top of coupling, 0.09 ft below land-surface datum.

PERIOD OF RECORD.--April 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.91 ft above sea level, June 27, 1984; lowest measured, 4.11 ft above sea level, April 24, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	4.83	DEC 27	5.10	FEB 27	5.28	APR 28	5.56	JUL 22	5.64	SEP 25	5.29
NOV 26	5.00	JAN 28	5.31	MAR 17	5.48	MAY 20	5.37	AUG 26	5.44		



403827073535202. Local number, K3255.2

LOCATION.--Lat 40°38'27", long 73°53'52", Hydrologic Unit 02030202, at south side of Avenue J, 120 ft east of Rockaway Avenue, Canarsie. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 25 ft, screened 15 to 25 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 17.0 ft above sea level. Measuring point: Top of casing, 0.42 ft below land-surface datum.

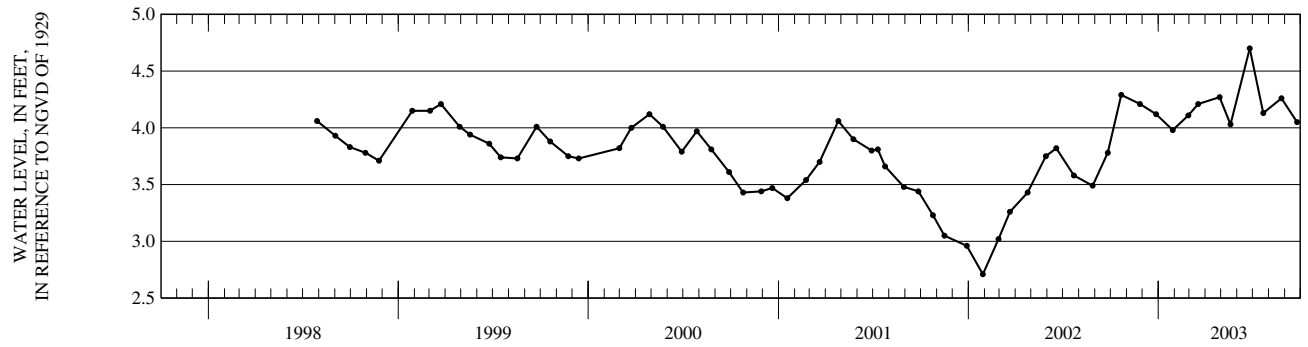
REMARKS.--Replaced well K3255.1 in June 1998 near same location.

PERIOD OF RECORD.--July 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.70 ft above sea level, June 25, 2003; lowest measured, 2.71 ft above sea level, January 28, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	4.29	DEC 27	4.12	FEB 27	4.11	APR 28	4.27	JUN 25	4.70	AUG 25	4.26
NOV 26	4.21	JAN 28	3.98	MAR 18	4.21	MAY 19	4.03	JUL 21	4.13	SEP 24	4.05



KINGS COUNTY—Continued

403949073532109. Local number, K3256.2

LOCATION.--Lat 40°39'49", long 73°53'21", Hydrologic Unit 02030202, at intersection of New Lots Avenue, Riverdale Avenue, and Miller Avenue, at north side of Wyckoff Triangle, East New York. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 40 ft, screened 25 to 35 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 27.0 ft above sea level. Measuring point: Top of casing, 0.38 ft below land-surface datum.

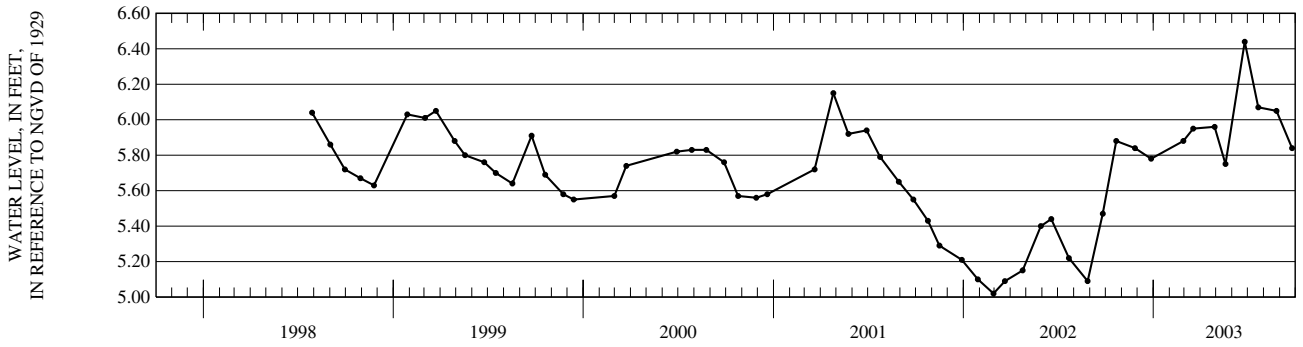
REMARKS.--Replaced well K3256.1 in June 1998 near same location.

PERIOD OF RECORD.--July 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.44 ft above sea level, June 25, 2003; lowest measured, 5.02 ft above sea level, February 27, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	5.88	DEC 27	5.78	MAR 18	5.95	MAY 19	5.75	JUL 21	6.07	SEP 24	5.84
NOV 26	5.84	FEB 27	5.88	APR 28	5.96	JUN 25	6.44	AUG 25	6.05		



404017073544502. Local number, K3257.2

LOCATION.--Lat 40°40'17", long 73°54'45", Hydrologic Unit 02030202, at east side of Chester Street, 188 ft south of East New York Avenue, Brownsville. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 55 ft, screened 40 to 50 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 48.5 ft above sea level. Measuring point: Top of coupling, 0.28 ft below land-surface datum.

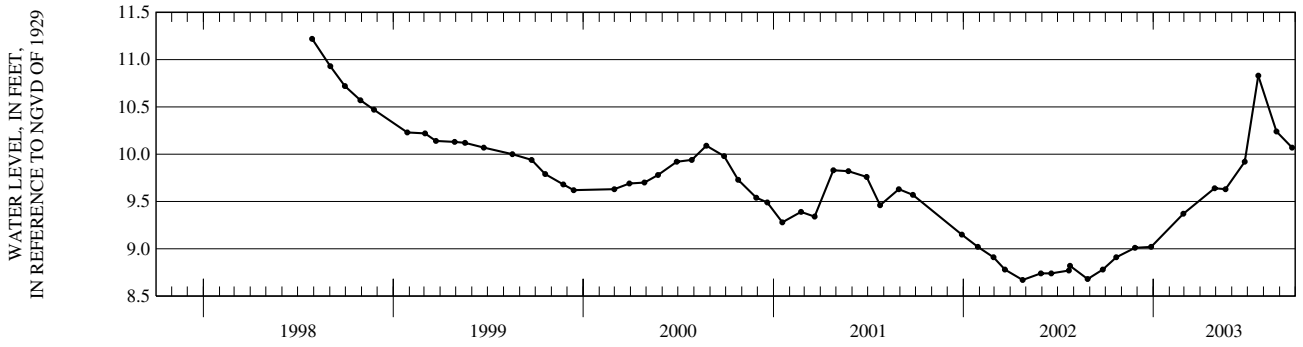
REMARKS.--Replaced well K3257.1 in June 1998 near same location.

PERIOD OF RECORD.--July 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.22 ft above sea level, July 28, 1998; lowest measured, 8.67 ft above sea level, April 24, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	8.91	DEC 27	9.02	APR 28	9.64	JUN 25	9.92	AUG 25	10.24		
NOV 26	9.01	FEB 27	9.37	MAY 19	9.63	JUL 21	10.83	SEP 24	10.07		



KINGS COUNTY—Continued

404325073563509. Local number, K3260.2

LOCATION.--Lat 40°43'25", long 73°56'35", Hydrologic Unit 02030201, at west side of Monitor Avenue, 50 ft north of Driggs Avenue, Greenpoint. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 42.6 ft, screened 32.6 to 37.6 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 29.0 ft above sea level. Measuring point: Top of casing, 0.30 ft below land-surface datum.

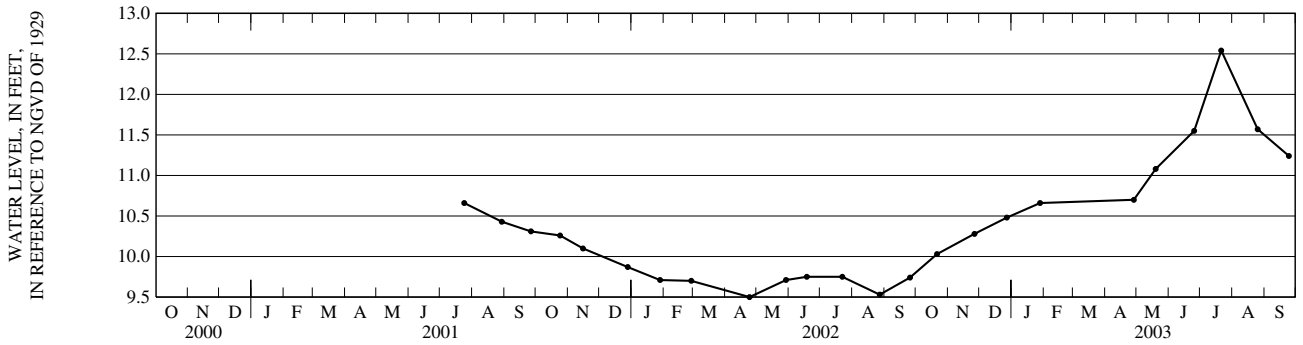
REMARKS.--Replaced well K3260.1 in July 2001 near same location.

PERIOD OF RECORD.--July 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.54 ft above sea level, July 21, 2003; lowest measured, 9.50 ft above sea level, April 24, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	10.03	DEC 27	10.48	APR 28	10.70	JUN 25	11.55	AUG 25	11.57		
NOV 26	10.28	JAN 28	10.66	MAY 19	11.08	JUL 21	12.54	SEP 24	11.24		



404025073515101. Local number, K3271.1

LOCATION.--Lat 40°40'25", long 73°51'51", Hydrologic Unit 02030202, at west side of Eldert Lane, 45 ft south of Sutter Avenue, East New York. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 34 ft, screened 31 to 34 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

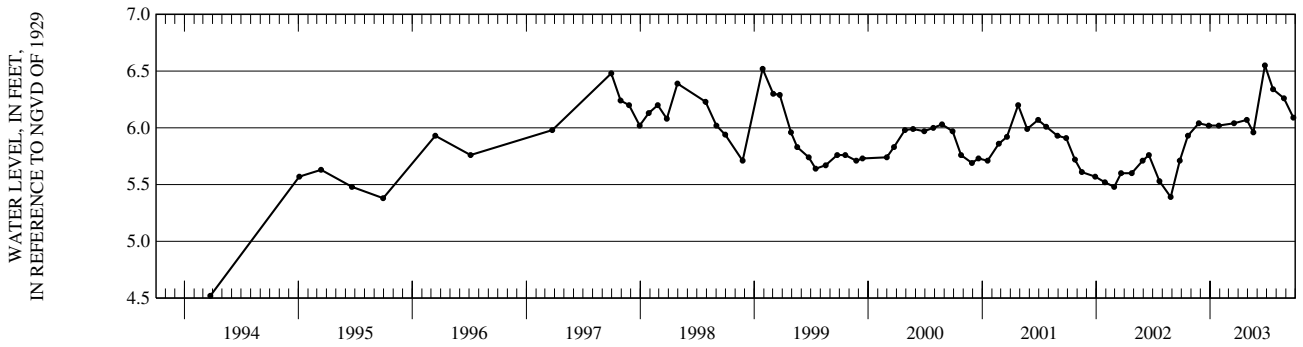
DATUM.--Land-surface datum is 22.4 ft above sea level. Measuring point: Top of $^1/_4$-in hole in steel plug, 0.02 ft above land-surface datum.

PERIOD OF RECORD.--June 1981 to October 1985 and March 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.55 ft above sea level, June 25, 2003; lowest measured, 4.46 ft above sea level, December 21, 1982.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	5.93	DEC 27	6.02	MAR 18	6.04	MAY 19	5.96	JUL 21	6.34	SEP 24	6.09
NOV 25	6.04	JAN 28	6.02	APR 28	6.07	JUN 25	6.55	AUG 25	6.26		



KINGS COUNTY—Continued

403817073580101. Local number, K3273.1

LOCATION.--Lat 40°38'17", long 73°58'01", Hydrologic Unit 02030202, at east side of Westminster Road, 33 ft north of Dorchester Road, Flatbush. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 39 ft, screened 36 to 39 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

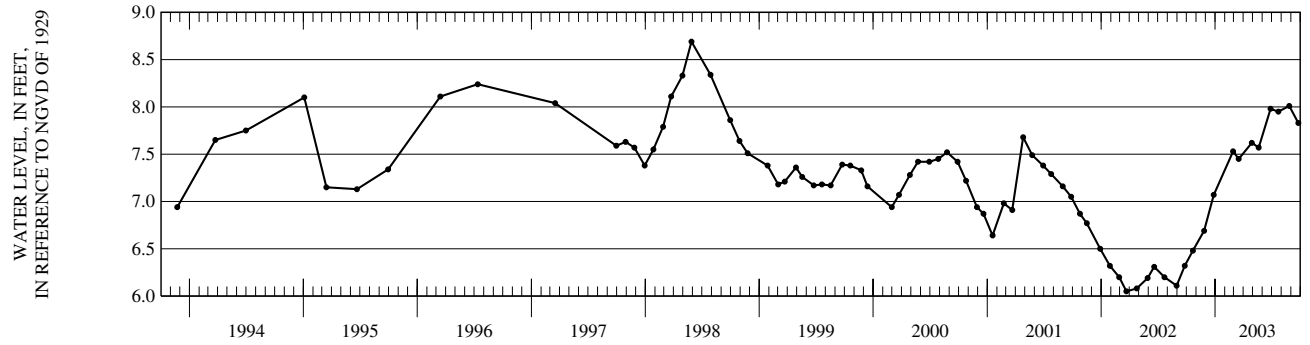
DATUM.--Land-surface datum is 33.5 ft above sea level. Measuring point: Top of coupling, 0.06 ft below land-surface datum.

PERIOD OF RECORD.--June 1981 to October 1985 and May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.32 ft above sea level, March 19, 1984; lowest measured, 6.05 ft above sea level, March 22, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	6.48	DEC 27	7.07	MAR 17	7.45	MAY 20	7.57	JUL 22	7.95	SEP 24	7.83
NOV 26	6.69	FEB 27	7.53	APR 28	7.62	JUN 27	7.98	AUG 26	8.01		



403635073580108. Local number, K3274.1

LOCATION.--Lat 40°36'35", long 73°58'01", Hydrologic Unit 02030202, at west side of East 7th Street, 49 ft north of Avenue P, Gravesend. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 34 ft, screened 31 to 34 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

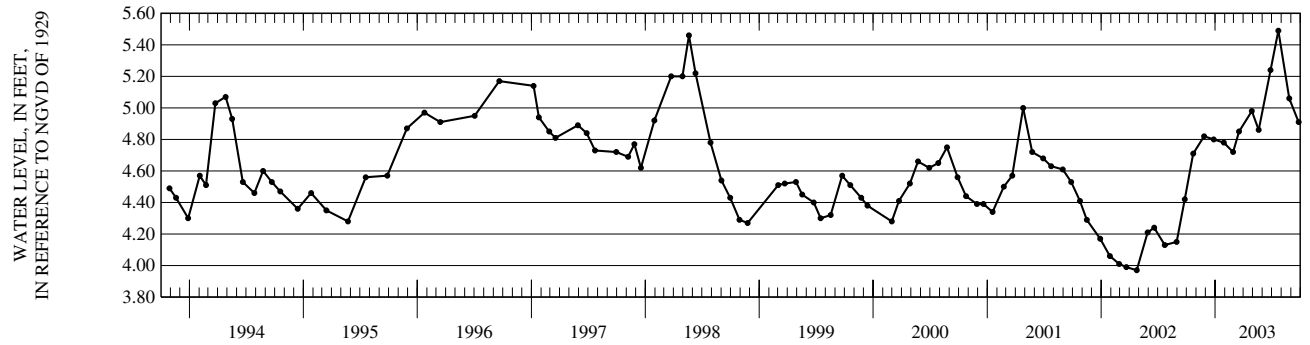
DATUM.--Land-surface datum is 27.5 ft above sea level. Measuring point: Top of casing, 0.22 ft below land-surface datum.

PERIOD OF RECORD.--June 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.88 ft above sea level, October 3, 1984; lowest measured, 3.53 ft above sea level, October 6, 1982.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	4.71	DEC 27	4.80	FEB 27	4.72	APR 28	4.98	JUN 27	5.24	AUG 26	5.06
NOV 26	4.82	JAN 28	4.78	MAR 18	4.85	MAY 20	4.86	JUL 22	5.49	SEP 25	4.91



KINGS COUNTY—Continued

403737074011701. Local number, K3275.1

LOCATION.--Lat 40°37'37", long 74°01'17", Hydrologic Unit 02030202, at east side of 6th Avenue, 19 ft south of 76th Street, Bay Ridge. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 76 ft, screened 73 to 76 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

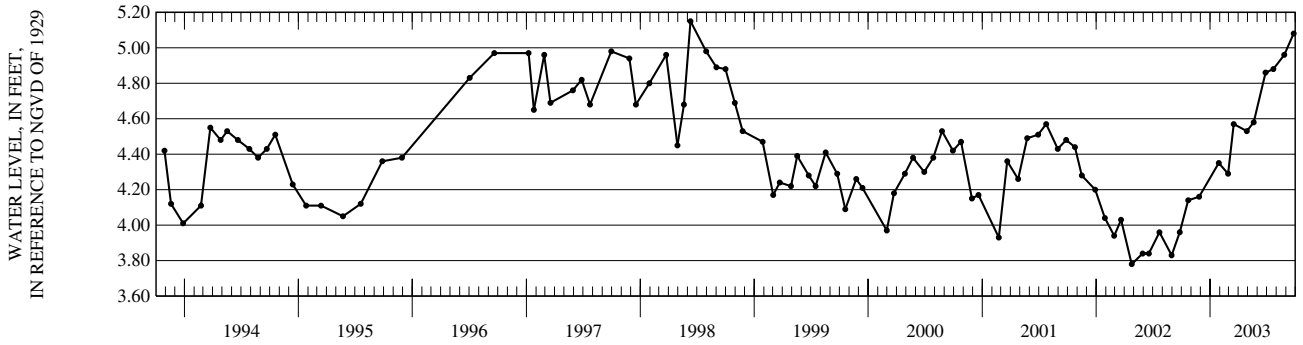
DATUM.--Land-surface datum is 67.2 ft above sea level. Measuring point: Top of coupling, 0.05 ft below land-surface datum.

PERIOD OF RECORD.--June 1981 to current year. Unpublished records from June 1981 to September 1982 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.65 ft above sea level, January 5, 1984; lowest measured, 3.20 ft above sea level, April 28, 1989.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	4.14	JAN 28	4.35	MAR 17	4.57	MAY 20	4.58	JUL 22	4.88	SEP 25	5.08
NOV 26	4.16	FEB 27	4.29	APR 28	4.53	JUN 27	4.86	AUG 26	4.96		



404135073584001. Local number, K3276.1

LOCATION.--Lat 40°41'35", long 73°58'40", Hydrologic Unit 02030201, at east side of Saint Edwards Street, 75 ft south of Myrtle Avenue, Fort Greene. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 54 ft, screened 51 to 54 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

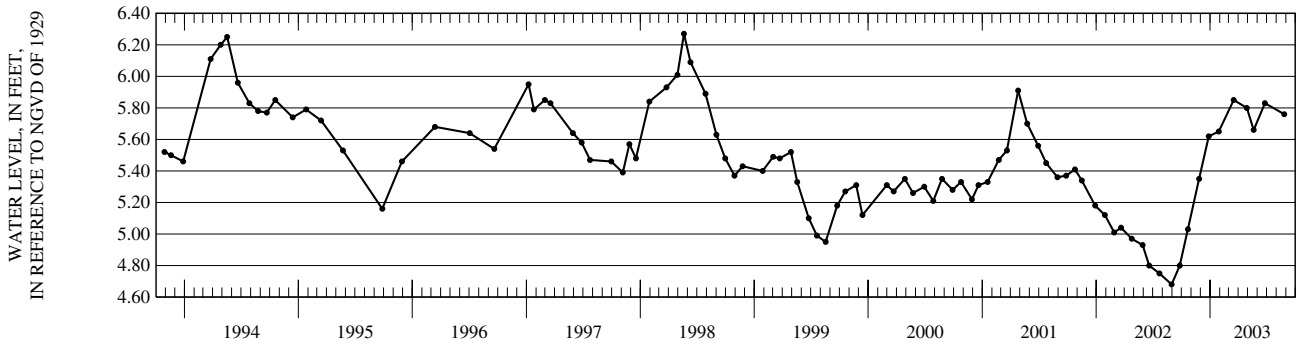
DATUM.--Land-surface datum is 38.0 ft above sea level. Measuring point: Top of coupling, 0.02 ft below land-surface datum.

PERIOD OF RECORD.--April 1981 to current year. Unpublished records from April 1981 to September 1982 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.71 ft above sea level, January 5, 1984; lowest measured, 4.30 ft above sea level, October 1, 1985.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	5.03	DEC 27	5.62	MAR 17	5.85	MAY 20	5.66	AUG 26	5.76		
NOV 26	5.35	JAN 28	5.65	APR 28	5.80	JUN 25	5.83				



KINGS COUNTY—Continued

404037073584001. Local number, K3301.1

LOCATION.--Lat 40°40'36", long 73°58'40", Hydrologic Unit 02030201, at north side of Lincoln Place, 120 ft east of 6th Avenue, easternmost well, Park Slope. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 70 ft, screened 65 to 70 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

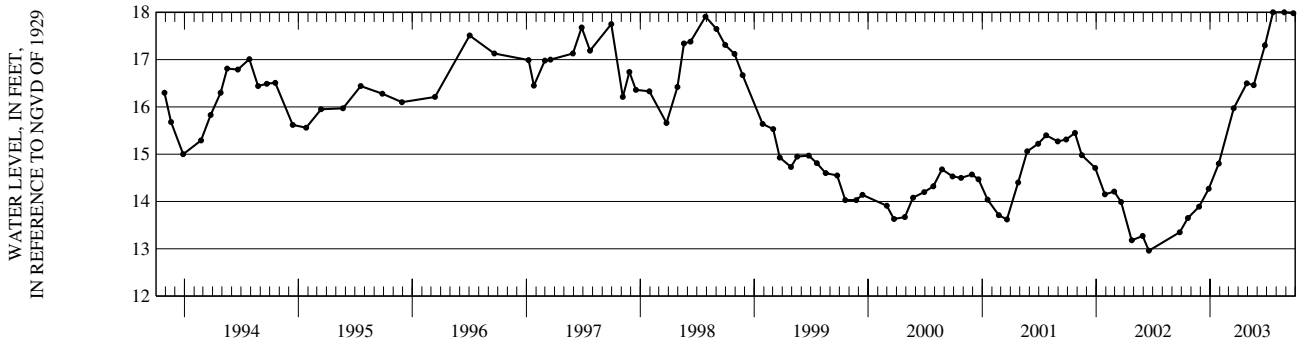
DATUM.--Land-surface datum is 60.6 ft above sea level. Measuring point: Top of coupling, 1.6 ft below land-surface datum.

PERIOD OF RECORD.--March 1984 to October 1985 and June 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.16 ft above sea level, June 28, 1984; lowest measured, 12.96 ft above sea level, June, 18 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	13.65	DEC 27	14.27	MAR 17	15.97	MAY 20	16.46	JUL 21	18.00	SEP 24	17.98
NOV 26	13.89	JAN 28	14.80	APR 28	16.50	JUN 25	17.30	AUG 26	18.00		



403719073573301. Local number, K3405.1

LOCATION.--Lat 40°37'19", long 73°57'33", Hydrologic Unit 02030202, at west side of East 17th Street, 0.1 mile north of Avenue L, Midwood. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 214 ft, screened 204 to 214 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

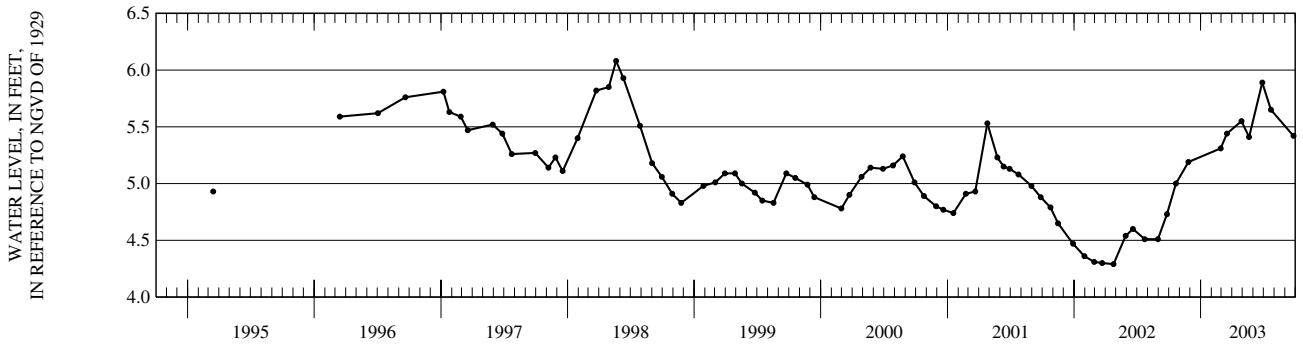
DATUM.--Land-surface datum is 33.5 ft above sea level. Measuring point: Top of casing, 0.01 ft below land-surface datum.

PERIOD OF RECORD.--March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.08 ft above sea level, May 20, 1998; lowest measured, 4.29 ft above sea level, April 24, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	5.00	FEB 27	5.31	APR 28	5.55	JUN 27	5.89	SEP 25	5.42		
NOV 26	5.19	MAR 17	5.44	MAY 20	5.41	JUL 22	5.65				



KINGS COUNTY—Continued

403806074021901. Local number, K3406.1

LOCATION.--Lat 40°38'06", long 74°02'19", Hydrologic Unit 02030201, at west side of Shore Road, north of 74th Street, at northwest corner of Promenade Park, Bay Ridge. Owner: United States Geological Survey.

AQUIFER.--Jameco (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 155 ft, screened 135 to 145 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 14.4 ft above sea level. Measuring point: Top of casing, 0.04 ft below land-surface datum.

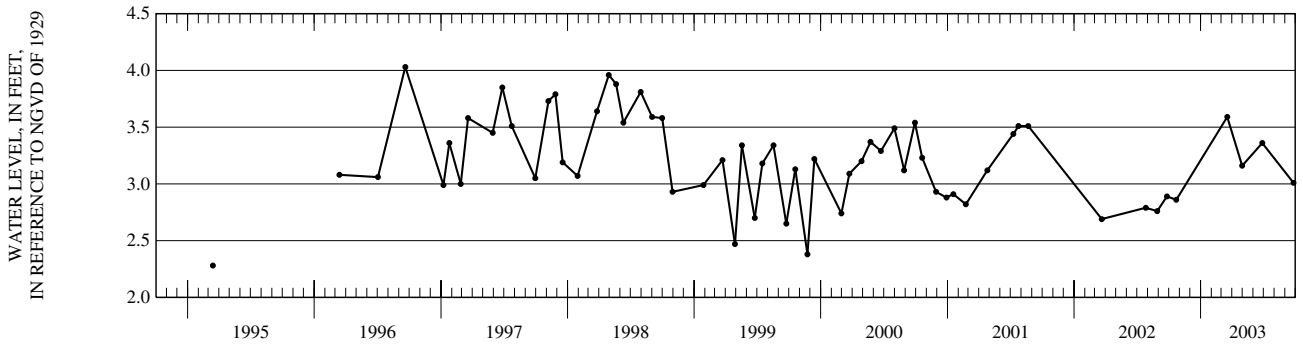
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.03 ft above sea level, September 19, 1996; lowest measured, 2.28 ft above sea level, March 14, 1995.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	2.86	MAR 18	3.59	APR 30	3.16	JUN 27	3.36	SEP 25	3.01



403520073575701. Local number, K3407.1

LOCATION.--Lat 40°35'20", long 73°57'57", Hydrologic Unit 02030202, at west side of northbound Ocean Parkway service road, 54 ft north of Avenue Y, Gravesend. Owner: United States Geological Survey.

AQUIFER.--Jameco (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 405 ft, screened 385 to 405 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 8.5 ft above sea level. Measuring point: Top of casing, 0.03 ft below land-surface datum.

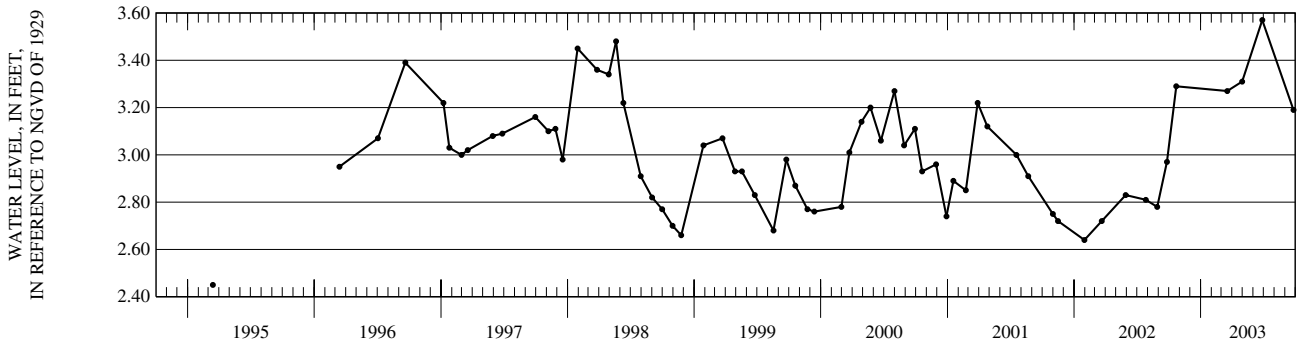
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.57 ft above sea level, June 27, 2003; lowest measured, 2.45 ft above sea level, March 14, 1995.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	3.29	MAR 18	3.27	APR 30	3.31	JUN 27	3.57	SEP 25	3.19



KINGS COUNTY—Continued

404039073555002. Local number, K3410.1

LOCATION.--Lat 40°40'39", long 73°55'50", Hydrologic Unit 02030201, at east side of Utica Avenue, 54 ft north of Atlantic Avenue, northernmost well, Bedford-Stuyvesant. Owner: United States Geological Survey.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 360 ft, screened 330 to 350 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

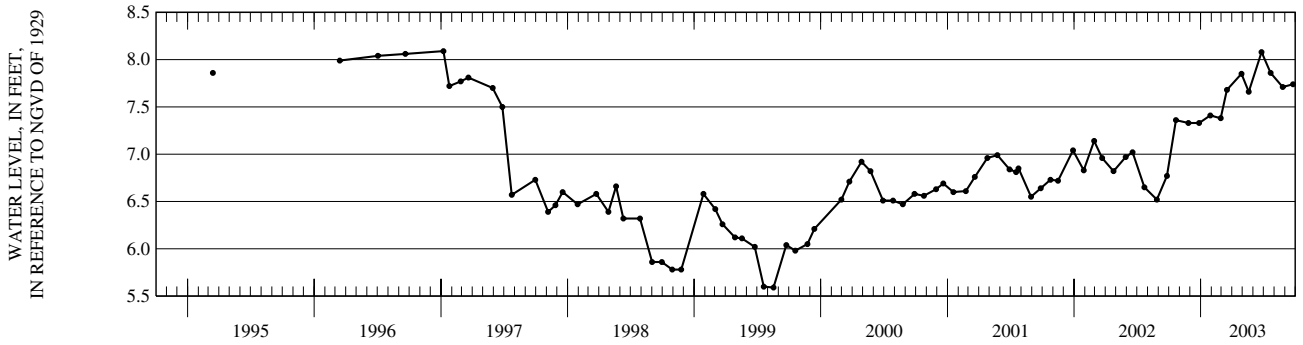
DATUM.--Land-surface datum is 61.8 ft above sea level. Measuring point: Top of casing, 0.09 ft below land-surface datum.

PERIOD OF RECORD.--March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.09 ft above sea level, January 7, 1997; lowest measured, 5.59 ft above sea level, August 17, 1999.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	7.36	DEC 27	7.33	FEB 27	7.38	APR 28	7.85	JUN 25	8.08	AUG 25	7.71
NOV 26	7.33	JAN 28	7.41	MAR 17	7.68	MAY 19	7.66	JUL 21	7.86	SEP 24	7.74



403431073581101. Local number, K3414.1

LOCATION.--Lat 40°34'31", long 73°58'11", Hydrologic Unit 02030202, at south side of Sea Breeze Avenue, 200 ft west of Ocean Parkway, Coney Island. Owner: United States Geological Survey.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 410 ft, screened 390 to 410 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 7.1 ft above sea level. Measuring point: Top of casing, 0.09 ft below land-surface datum.

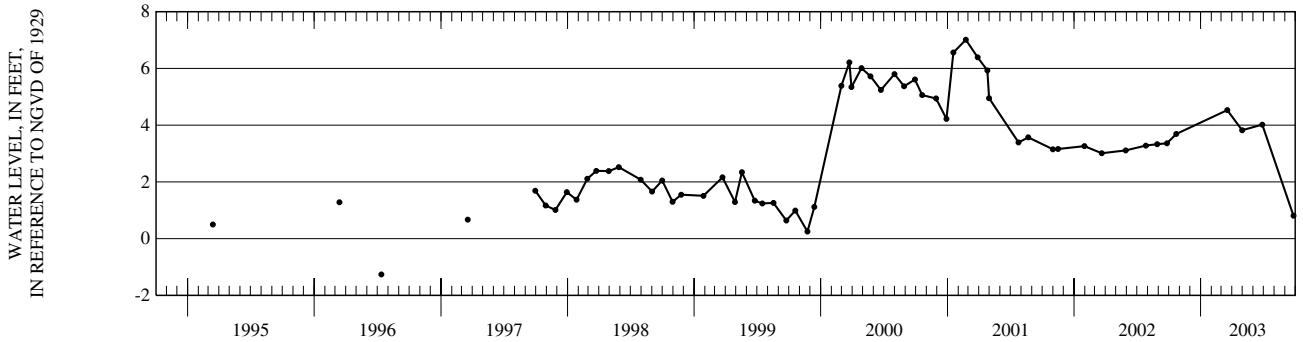
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.01 ft above sea level, February 22, 2001; lowest measured, 1.26 ft below sea level, July 12, 1996.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	3.69	MAR 18	4.53	APR 30	3.82	JUN 27	4.02	SEP 25	.81



403840073592101. Local number, K3424.1

LOCATION.--Lat 40°38'40", long 73°59'21", Hydrologic Unit 02030201, at north side of Fort Hamilton Parkway, 176 ft east of 37th Street, Borough Park. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 75 ft, screened 70 to 75 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

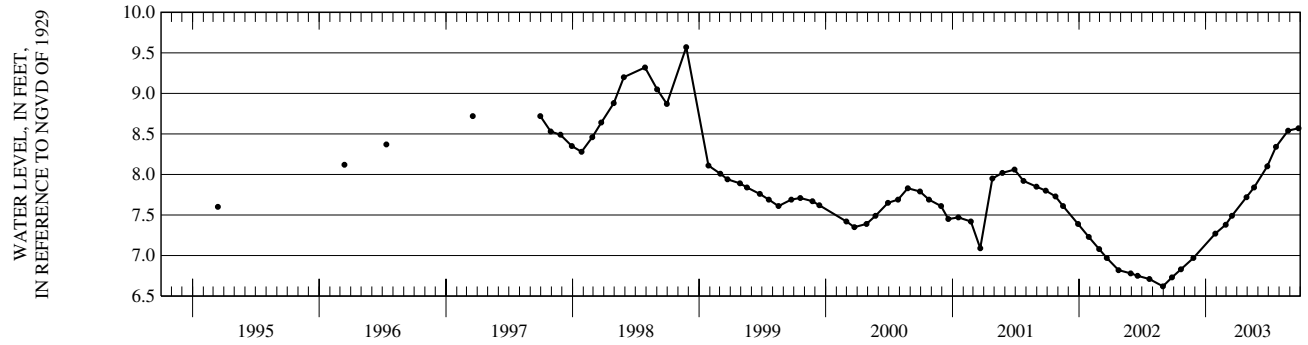
DATUM.--Land-surface datum is 75.4 ft above sea level. Measuring point: Top of coupling, 0.03 ft below land-surface datum.

PERIOD OF RECORD.--March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.57 ft above sea level, November 24, 1998; lowest measured, 6.62 ft above sea level, August 30, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	6.83	JAN 28	7.27	MAR 17	7.49	MAY 20	7.84	JUL 22	8.34	SEP 25	8.57
NOV 26	6.97	FEB 27	7.38	APR 28	7.72	JUN 27	8.10	AUG 26	8.54		



404039073555001. Local number, K3425.1

LOCATION.--Lat 40°40'39", long 73°55'50", Hydrologic Unit 02030201, at east side of Utica Avenue, 50 ft north of Atlantic Avenue, southernmost well, Bedford-Stuyvesant. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 80 ft, screened 70 to 75 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

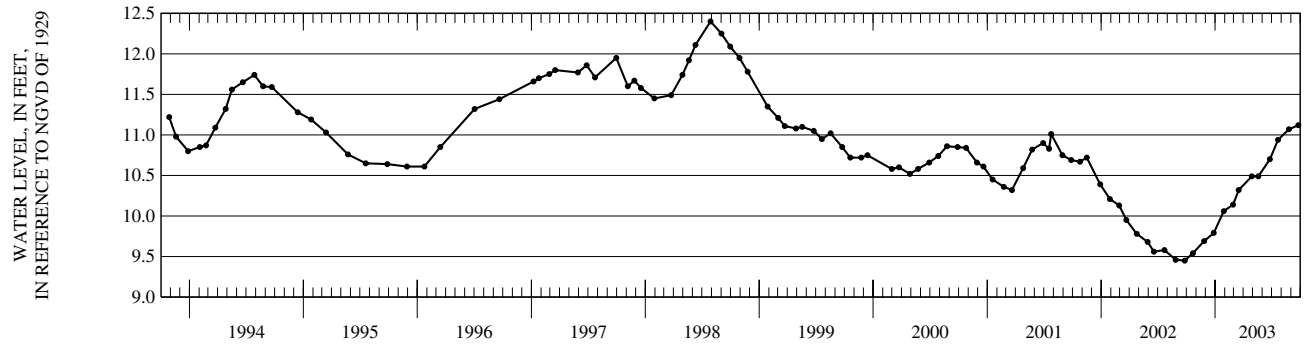
DATUM.--Land-surface datum is 61.9 ft above sea level. Measuring point: Top of casing, 0.05 ft below land-surface datum.

PERIOD OF RECORD.--March 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.40 ft above sea level, July 28, 1998; lowest measured, 9.45 ft above sea level, September 25, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	9.54	DEC 27	9.79	FEB 27	10.14	APR 28	10.49	JUN 25	10.70	AUG 25	11.07
NOV 26	9.69	JAN 28	10.06	MAR 17	10.32	MAY 19	10.49	JUL 21	10.94	SEP 24	11.12



KINGS COUNTY—Continued

403941073574302. Local number, K3431.1

LOCATION.--Lat 40°39'41", long 73°57'43", Hydrologic Unit 02030201, at Prospect Park, west side of East Park Drive, across from Lincoln Road exit, southernmost well, Flatbush. Owner: United States Geological Survey.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 385 ft, screened 355 to 375 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

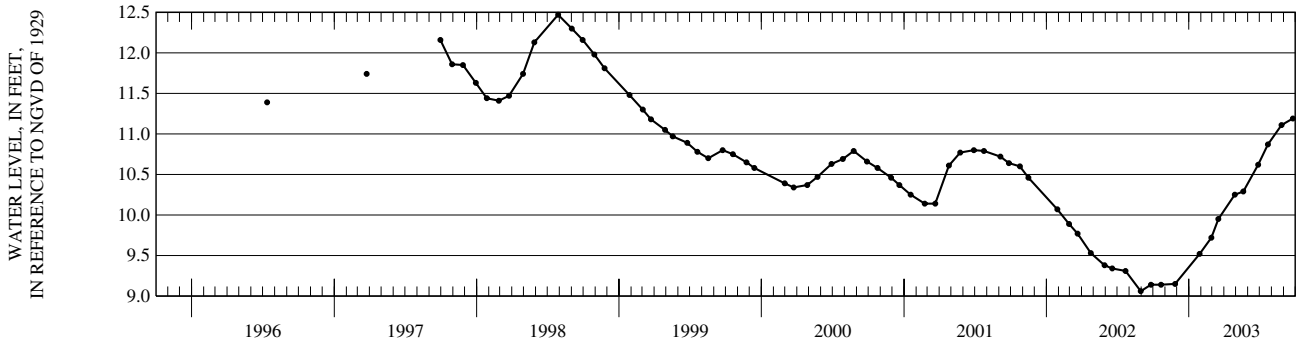
DATUM.--Land-surface datum is 81.3 ft above sea level. Measuring point: Top of casing, 0.26 ft below land-surface datum.

PERIOD OF RECORD.--July 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.47 ft above sea level, July 28, 1998; lowest measured, 9.06 ft above sea level, August 30, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	9.14	JAN 28	9.52	MAR 17	9.95	MAY 20	10.29	JUL 22	10.87	SEP 24	11.19
NOV 26	9.15	FEB 27	9.72	APR 28	10.25	JUN 27	10.62	AUG 26	11.11		



NASSAU COUNTY

404048073412602. Local number, N9.1

LOCATION.--Lat 40°40'48", long 73°41'26", Hydrologic Unit 02030202, at Valley Stream State Park, 30 ft west of Corona Avenue, 650 ft north of Remsen Street, Valley Stream. Owner: Long Island State Park Commission.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled unused steel well, diameter 4 in. to 6 in., depth 138 ft, screened 98 to 138 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

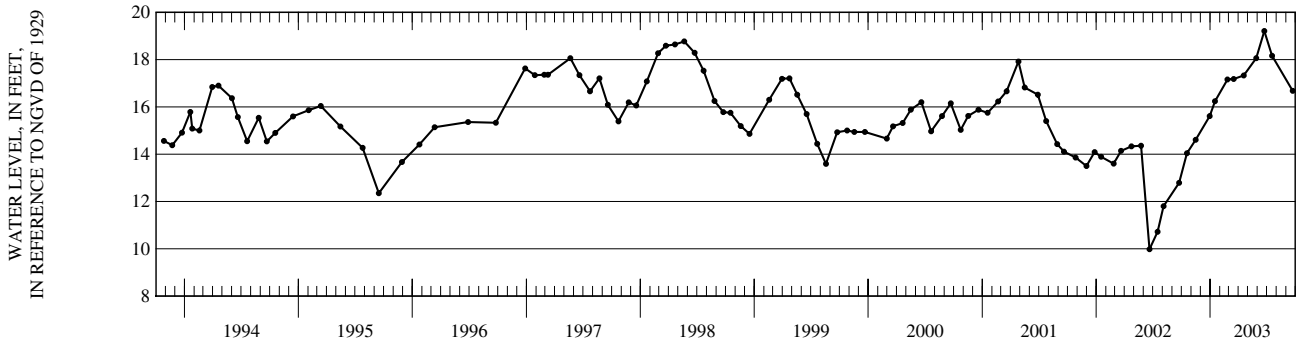
DATUM.--Land-surface datum is 22.6 ft above sea level. Measuring point: Top of casing, 2.08 ft above land-surface datum.

PERIOD OF RECORD.--July 1936 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.57 ft above sea level, September 23, 1938; lowest measured, 5.95 ft above sea level, March 22, 1983.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	14.04	DEC 30	15.61	FEB 25	17.16	APR 18	17.33	JUN 23	19.21	SEP 22	16.68
NOV 15	14.61	JAN 16	16.24	MAR 17	17.18	MAY 28	18.06	JUL 18	18.16		



405010073414901. Local number, N35.1

LOCATION.--Lat 40°50'10", long 73°41'51", Hydrologic Unit 02030201, at Port Washington Water District Pumping Center, 115 ft south of Sandy Hollow Road, in recorder shelter, Port Washington. Owner: Port Washington Water District.

AQUIFER.--Port Washington (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 16 in. to 6 in., depth 387 ft, screen 287 to 387 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 13.6 ft above sea level. Measuring point: Top of steel recorder shelter flange, 3.64 ft above land-surface datum.

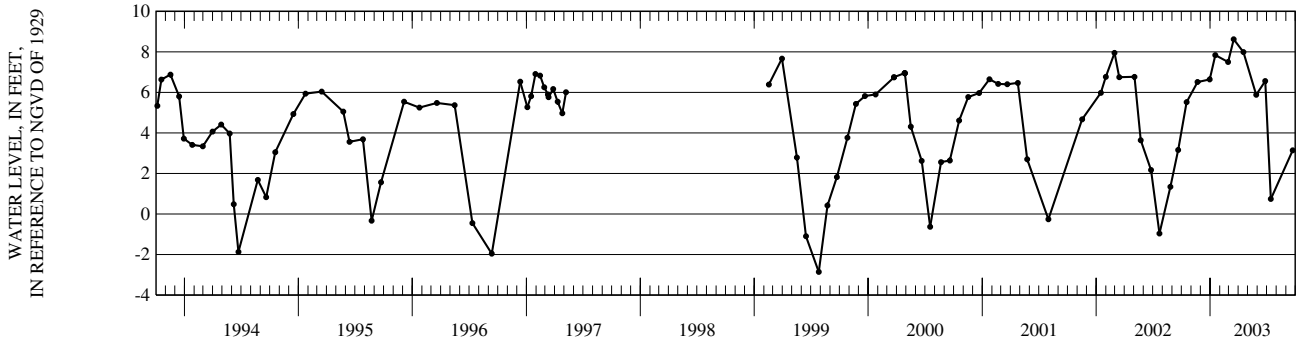
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--August 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.02 ft above sea level, January 31, 1958; lowest measured, 16.15 ft below sea level, July 29, 1954.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	5.52	DEC 30	6.64	FEB 27	7.50	APR 17	7.99	JUN 26	6.56	SEP 22	3.14
NOV 21	6.51	JAN 17	7.84	MAR 17	8.62	MAY 28	5.88	JUL 14	.74		



NASSAU COUNTY—Continued

403929073382908. Local number, N53.1

LOCATION.--Lat 40°39'29", long 73°38'29", Hydrologic Unit 02030202, at Rockville Centre Municipal Power Plant, in battery room, Maple Avenue and Morris Avenue, Rockville Centre. Owner: Village of Rockville Center.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 8 in., depth 50 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

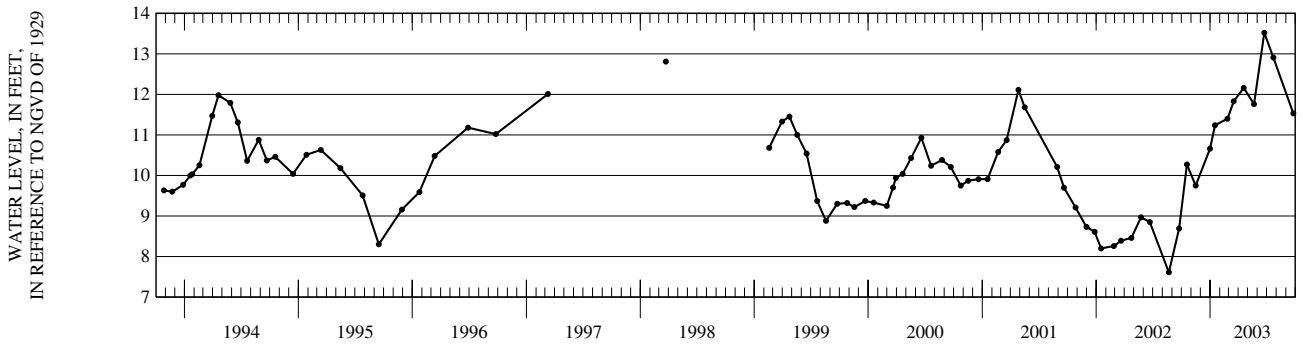
DATUM.--Land-surface datum is 26.2 ft above sea level. Measuring point: Top of 2-in steel extender, 5.24 ft below land-surface datum.

PERIOD OF RECORD.--August 1934 to current year. Unpublished records from August 1934 to September 1975 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.49 ft above sea level, April 15, 1939; lowest measured, 7.61 ft above sea level, August 21, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	10.27	DEC 31	10.66	FEB 25	11.40	APR 18	12.16	JUN 23	13.52	SEP 24	11.53
NOV 15	9.75	JAN 16	11.24	MAR 17	11.83	MAY 21	11.76	JUL 22	12.91		



403922073353501. Local number, N67.1

LOCATION.--Lat 40°39'22", long 73°35'35", Hydrologic Unit 02030202, at Freeport Power Station, in battery room, 105 ft north of Sunrise Highway (State Route 27), west of Long Beach Avenue, Freeport. Owner: Village of Freeport.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 12 in., depth 1,052 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 22.0 ft above sea level. Measuring point: Top of casing, 1.00 ft below land-surface datum.

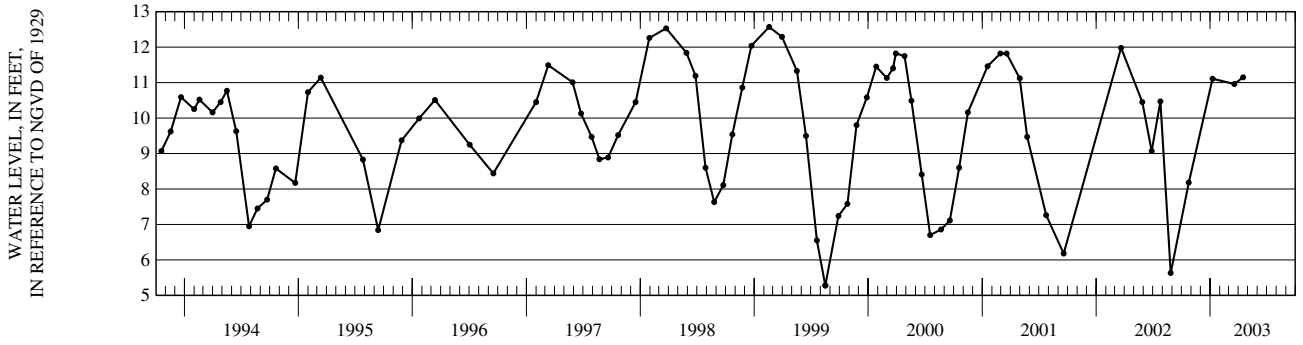
REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--December 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.95 ft above sea level, May 8, 1957; lowest measured, 3.76 ft below sea level, March 23, 1983.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	8.18	JAN 08	11.11	MAR 19	10.96	APR 16	11.15



NASSAU COUNTY—Continued

404030073293703. Local number, N180.2

LOCATION.--Lat 40°40'30", long 73°29'37", Hydrologic Unit 02030202, at Long Island Railroad track embankment, 200 ft north of Sunrise Highway (State Route 27), west of Seaford-Oyster Bay Expressway (State Route 135), Seaford. Owner: City of New York.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled unused steel well, diameter 4 in. to 6 in., depth 723 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

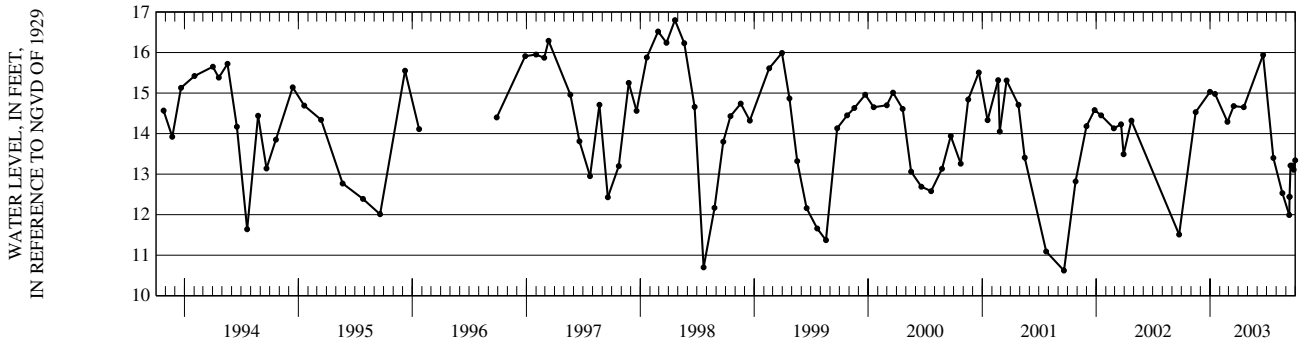
DATUM.--Land-surface datum is 16.0 ft above sea level. Measuring point: Top of coupling, 13.69 ft above land-surface datum.

PERIOD OF RECORD.--June 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.08 ft above sea level, June 6, 1952; lowest measured, 10.62 ft above sea level, September 19, 2001.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 15	14.53	FEB 25	14.29	JUN 19	15.94	SEP 11	11.99	SEP 20	13.21		
DEC 31	15.03	MAR 17	14.68	JUL 22	13.40	12	12.44	25	13.11		
JAN 16	14.98	APR 18	14.65	AUG 20	12.53	15	13.21	30	13.34		



404940073392701. Local number, N662.1

LOCATION.--Lat 40°49'40", long 73°39'27", Hydrologic Unit 02030201, at Bar Beach, east side of Shore Road, Port Washington. Owner: Town of North Hempstead.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 8 in., depth 364 ft, screen 347 to 363 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 10.6 ft above sea level. Measuring point: Top of coupling, 5.90 ft above land-surface datum.

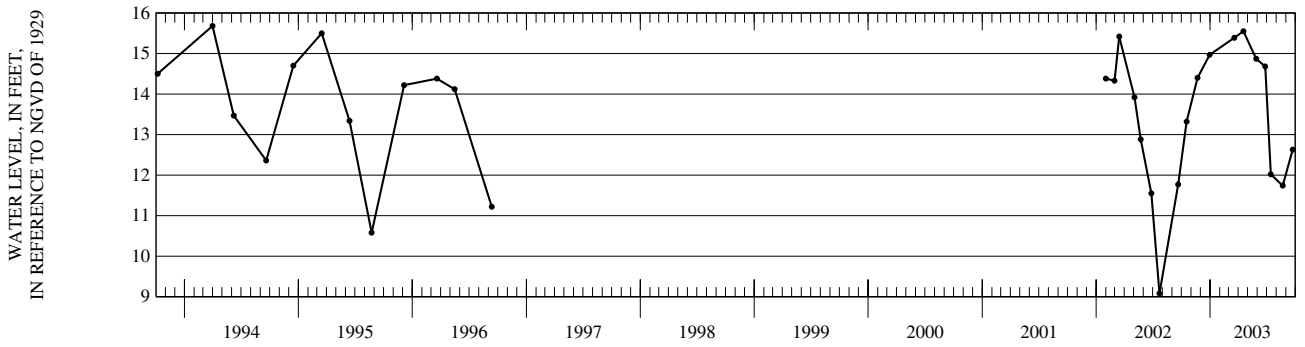
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--October 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.50 ft above sea level, March 26, 1993; lowest measured, 9.08 ft above sea level, July 22, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	13.32	DEC 30	14.97	APR 17	15.55	JUN 26	14.68	AUG 21	11.74		
NOV 21	14.40	MAR 19	15.39	MAY 28	14.87	JUL 14	12.02	SEP 22	12.63		



NASSAU COUNTY—Continued

404609073421602. Local number, N1102.2

LOCATION.--Lat 40°46'09", long 73°42'16", Hydrologic Unit 02030201, at southwest corner of Community Drive and Long Island Expressway westbound service road, Lake Success. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 166 ft, screened 161 to 166 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 184.0 ft above sea level. Measuring point: Top of coupling, 0.32 ft below land-surface datum.

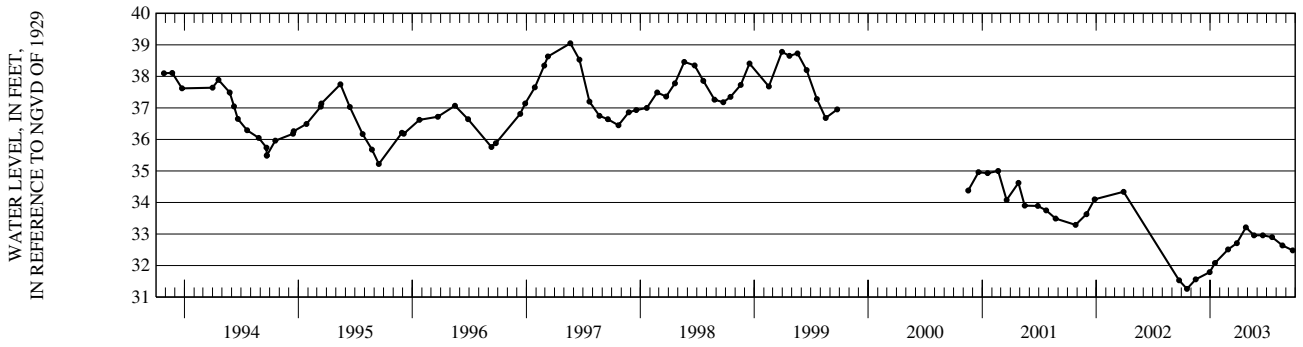
REMARKS.--Replaced well N1102.1 in March 1963 near same location, which has a period of record from October 1937 to March 1963.

PERIOD OF RECORD.--April 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.02 ft above sea level, April 24, 1963; lowest measured, 28.90 ft above sea level, January 19, 1983.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	31.26	DEC 30	31.79	FEB 27	32.51	APR 25	33.21	JUN 18	32.96	AUG 20	32.64
NOV 15	31.56	JAN 16	32.08	MAR 27	32.71	MAY 21	32.96	JUL 18	32.90	SEP 22	32.48



404040073420102. Local number, N1110.2

LOCATION.--Lat 40°40'40", long 73°42'01", Hydrologic Unit 02030202, at Valley Stream State Park, southeast corner of North Fletcher Avenue and park entrance, 128 ft south of Southern State Parkway, Valley Stream. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 45 ft, screened 35 to 40 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 30.5 ft above sea level. Measuring point: Top of casing, 0.32 ft below land-surface datum.

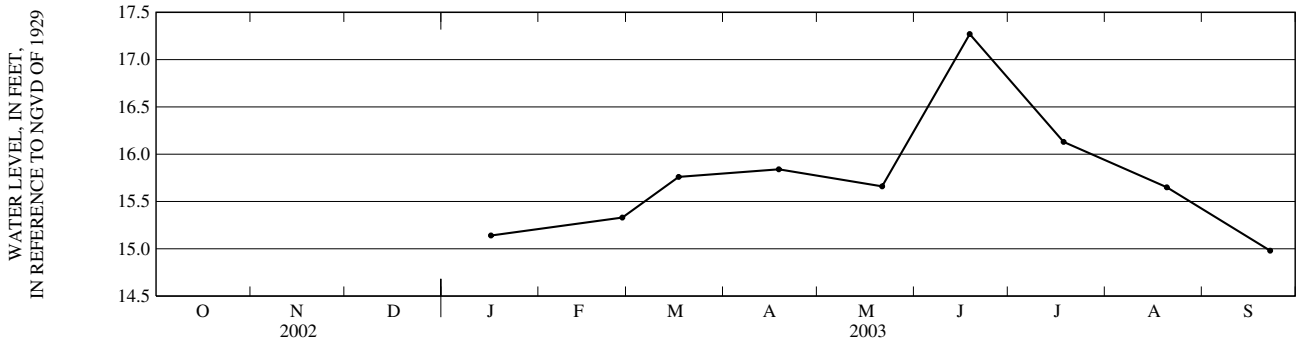
REMARKS.--Replaced well N1110.1 in December 2002 near same location.

PERIOD OF RECORD.--December 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.27 ft above sea level, June 18, 2003; lowest measured, 14.98 ft above sea level, September 22, 2003.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 16	15.14	MAR 17	15.76	MAY 21	15.66	JUL 18	16.13	SEP 22	14.98		
FEB 27	15.33	APR 18	15.84	JUN 18	17.27	AUG 20	15.65				



NASSAU COUNTY—Continued

404835073404004. Local number, N1120.4

LOCATION.--Lat 40°48'35", long 73°40'40", Hydrologic Unit 02030201, at northwest corner of Port Washington Blvd and Bonnie Heights Road, Flower Hill. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 100 ft, screened 95 to 100 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 116.0 ft above sea level. Measuring point: Top of coupling, 0.50 ft above land-surface datum.

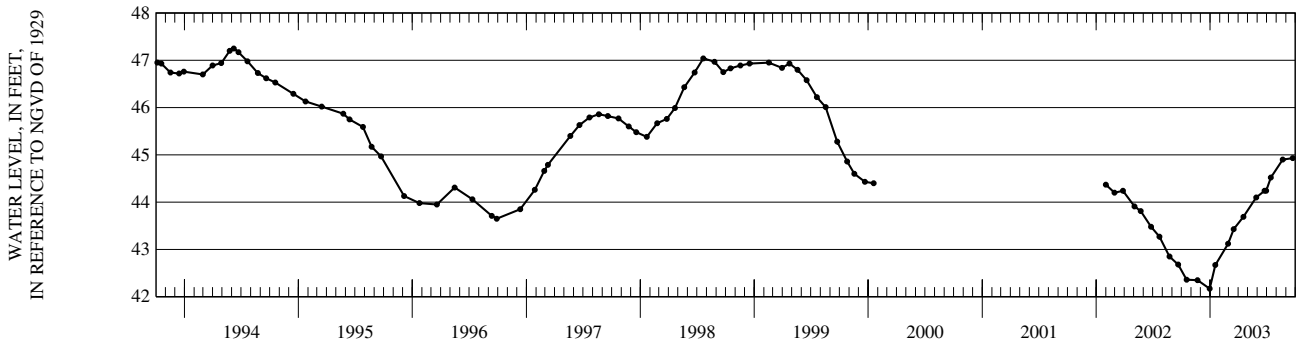
REMARKS.--Replaced well N1120.3 in March 1976 near same location.

PERIOD OF RECORD.--March 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.65 ft above sea level, March 16, 1976; lowest measured, 42.17 ft above sea level, December 30, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	42.36	JAN 17	42.67	APR 17	43.69	JUN 29	44.24	SEP 22	44.93		
NOV 21	42.35	FEB 27	43.12	MAY 28	44.10	JUL 14	44.52				
DEC 30	42.17	MAR 17	43.43	JUN 24	44.24	AUG 21	44.90				



404125073394802. Local number, N1129.2

LOCATION.--Lat 40°41'25", long 73°39'48", Hydrologic Unit 02030202, at east side of Euclid Avenue, 30 ft south of Hawthorne Street, West Hempstead. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 $\frac{1}{4}$ in., depth 44 ft, screened 41 to 44 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 51.0 ft above sea level. Measuring point: Top of casing, 0.46 ft below land-surface datum.

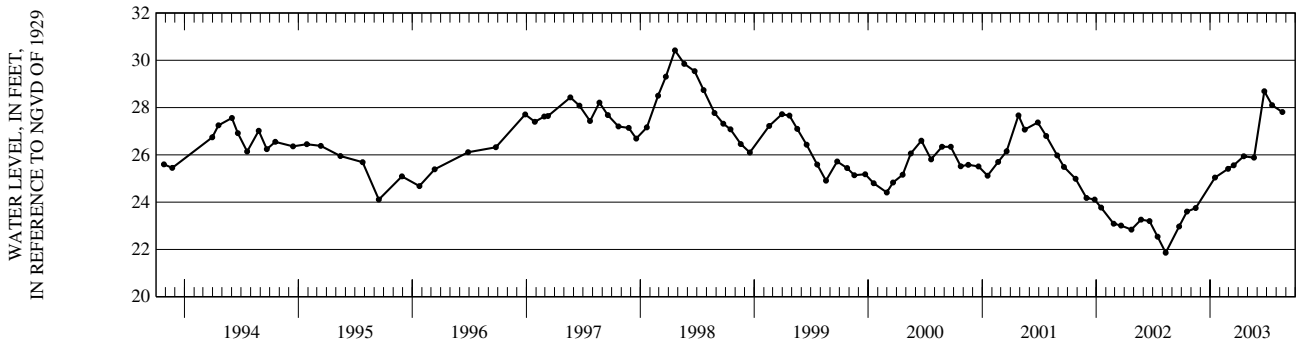
REMARKS.--Replaced well N1129.1 in October 1966 near same location, which has a period of record from August 1937 to October 1966.

PERIOD OF RECORD.--October 1966 to current year. Unpublished records from October 1966 to September 1975 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.42 ft above sea level, April 21, 1998; lowest measured, 21.49 ft above sea level, October 29, 1986.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	23.60	JAN 16	25.04	MAR 17	25.56	MAY 21	25.88	JUL 18	28.10		
NOV 15	23.75	FEB 27	25.41	APR 18	25.94	JUN 23	28.69	AUG 20	27.81		



NASSAU COUNTY—Continued

405027073272602. Local number, N1243.5

LOCATION.--Lat 40°50'26", long 73°27'20", Hydrologic Unit 02030201, at south side of Stillwell Road, 98 ft west of Harbor Road, Cold Spring Harbor. Owner: Nassau County Department of Public Works.

AQUIFER.--Magothy (water table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 28 ft, screened 25 to 28 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 64.0 ft above sea level. Measuring point: Top of casing, 0.92 ft below land-surface datum.

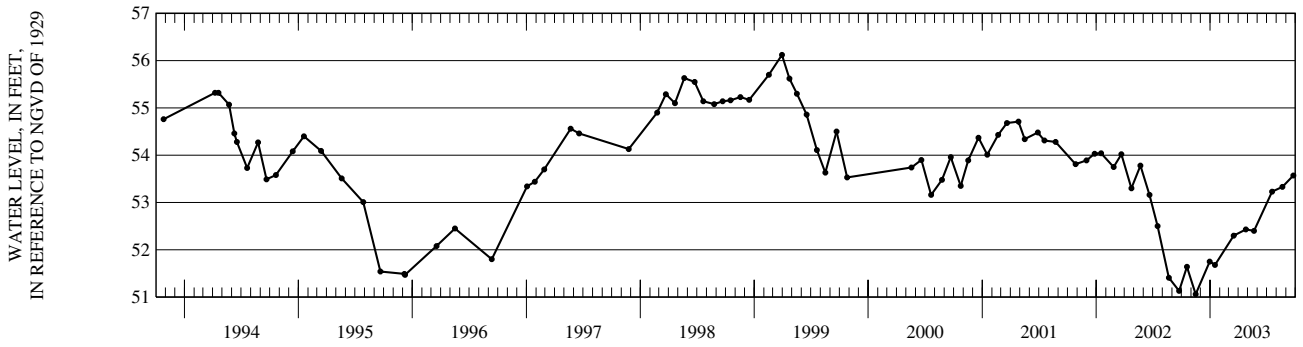
REMARKS.--Replaced well N1243.4 in September 1975 near same location, which has a period of record from November 1939 to September 1975.

PERIOD OF RECORD.--September 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.70 ft above sea level, March 21, 1978; lowest measured, 51.06 ft above sea level, November 15, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	51.64	DEC 30	51.75	MAR 17	52.30	MAY 21	52.40	AUG 20	53.33		
NOV 15	51.06	JAN 16	51.68	APR 25	52.43	JUL 18	53.23	SEP 24	53.57		



404317073291105. Local number, N1259.5

LOCATION.--Lat 40°43'16", long 73°29'10", Hydrologic Unit 02030202, at south side of Mary Lane, 79 ft east of Hicksville Road (State Route 107), Plainedge. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 41 ft, screened 38 to 41 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 78.0 ft above sea level. Measuring point: Top of casing, 0.08 ft above land-surface datum.

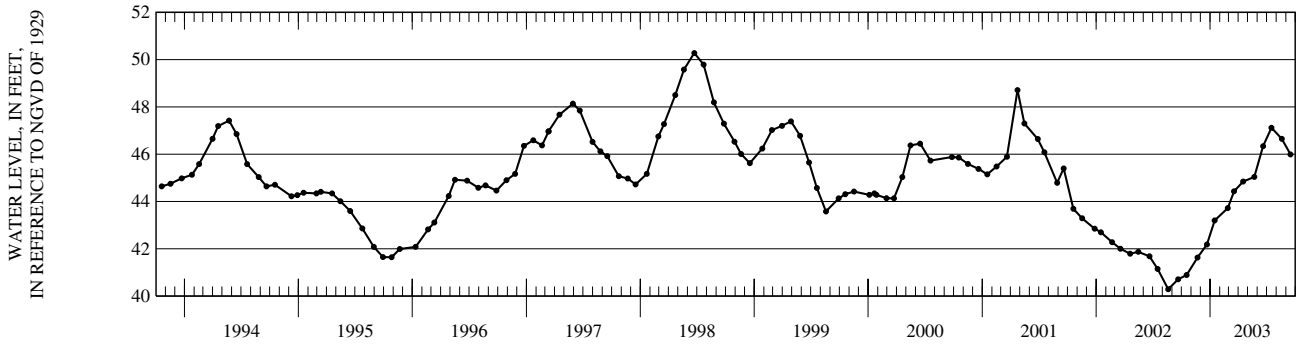
REMARKS.--Replaced well N1259.4 in June 1961 near same location.

PERIOD OF RECORD.--June 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.60 ft above sea level, February 21, 1978; lowest measured, 40.29 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	40.89	DEC 21	42.18	FEB 26	43.72	APR 16	44.84	JUN 19	46.34	AUG 18	46.65
NOV 21	41.63	JAN 15	43.20	MAR 18	44.43	MAY 22	45.04	JUL 16	47.12	SEP 15	45.99



NASSAU COUNTY—Continued

404009073380401. Local number, N1438.2

LOCATION.--Lat 40°40'08", long 73°38'05", Hydrologic Unit 02030202, at northwest corner of Princeton Street and Forestdale Road, Rockville Centre. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 1 $\frac{1}{4}$ in., depth 28 ft, screened 25 to 28 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 35.0 ft above sea level. Measuring point: Top of coupling, 0.27 ft above land-surface datum.

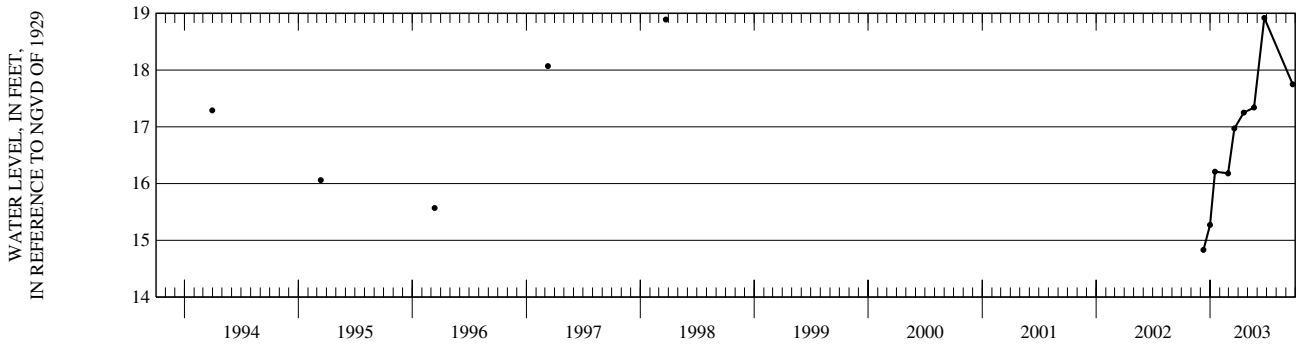
REMARKS.--Replaced well N1438.1 in March 1981 near same location.

PERIOD OF RECORD.--March 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.39 ft above sea level, April 12, 1984; lowest measured, 14.20 ft above sea level, December 15, 1982.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 10	14.83	JAN 16	16.21	MAR 19	16.97	MAY 21	17.34	SEP 22	17.75		
31	15.27	FEB 27	16.18	APR 18	17.25	JUN 23	18.92				



404454073393001. Local number, N1614.5

LOCATION.--Lat 40°44'54", long 73°39'30", Hydrologic Unit 02030202, at northwest corner of Wilson Street and Herricks Road, North Hempstead. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 75 ft, screened 65 to 70 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 102.0 ft above sea level. Measuring point: Top of casing, 0.22 ft below land-surface datum.

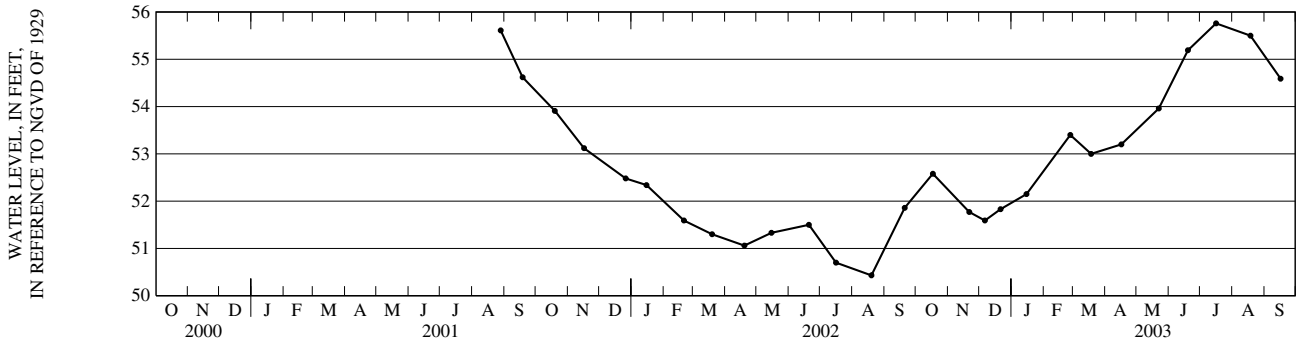
REMARKS.--Replaced well N 1614.4 in July 2001 near same location.

PERIOD OF RECORD.--July 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 55.76 ft above sea level, July 16, 2003; lowest measured, 50.43 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	52.58	DEC 21	51.83	MAR 18	53.00	JUN 19	55.19	SEP 16	54.59		
NOV 21	51.77	JAN 15	52.15	APR 16	53.20	JUL 16	55.76				
DEC 06	51.59	FEB 26	53.40	MAY 22	53.96	AUG 18	55.50				



NASSAU COUNTY—Continued

404210073340801. Local number, N1615.4

LOCATION.--Lat 40°42'10", long 73°34'08", Hydrologic Unit 02030202, at south side of Van Buren Avenue, 34 ft west of Merrick Avenue, Freeport. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 33 ft, screened 30 to 33 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 61.0 ft above sea level. Measuring point: Top of coupling, 0.27 ft below land-surface datum.

REMARKS.--Replaced well N1615.3 in October 1989 near same location.

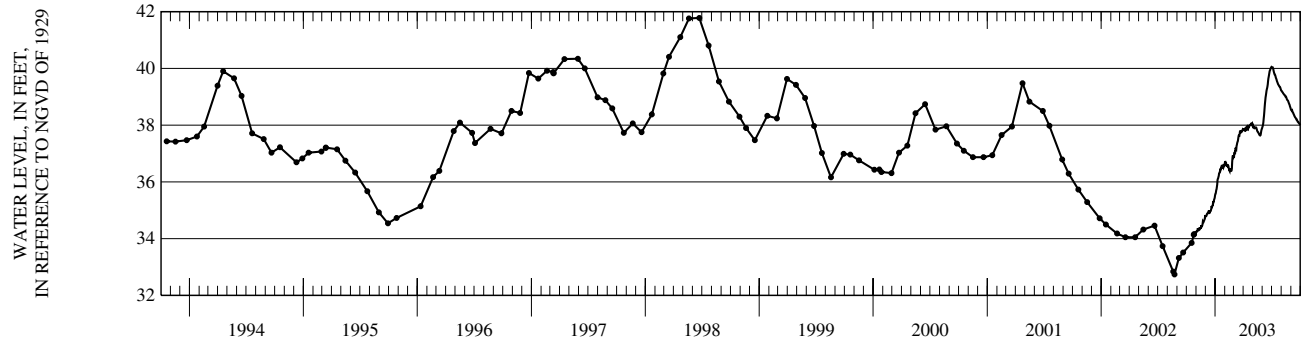
PERIOD OF RECORD.--October 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.45 ft above sea level, June 11, 1990; lowest measured, 32.74 ft above sea level, August 23, 2002

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	34.29	34.87	35.75	36.60	36.98	37.87	37.90	38.23	40.00	39.15	38.48
10	---	34.36	34.94	36.13	36.61	37.26	37.87	37.91	38.87	39.78	39.07	38.36
15	---	34.37	34.95	36.34	36.40	37.50	37.92	37.81	39.26	39.64	39.01	38.26
20	---	34.46	35.15	36.52	36.39	37.70	37.96	37.71	39.65	39.48	38.88	38.18
25	---	34.61	35.32	36.52	36.85	37.77	38.03	37.64	39.93	39.37	38.77	38.09
EOM	34.23	34.83	35.52	36.63	36.87	37.84	37.98	37.90	40.05	39.22	38.56	38.00
MEAN	---	34.45	35.06	36.25	36.58	37.47	37.93	37.82	39.18	39.63	38.94	38.26
MAX	---	34.83	35.52	36.63	36.93	37.85	38.06	37.98	40.05	40.04	39.21	38.53
MIN	---	34.25	34.78	35.57	36.38	36.90	37.80	37.64	37.94	39.22	38.56	38.00

WTR YR 2003 MEAN 37.37 MAX 40.05 MIN 34.14



404554073351502. Local number, N1616.2

LOCATION.--Lat 40°45'54", long 73°35'15", Hydrologic Unit 02030202, at south side of Argyle Road, 40 ft west of Post Avenue, southern intersection, Old Westbury. Owner: Nassau County Department of Public Works.

AQUIFER.--Magothy (water table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 $\frac{1}{4}$ in., depth 68 ft, screened 65 to 68 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 122.5 ft above sea level. Measuring point: Top of casing, 0.42 ft below land-surface datum.

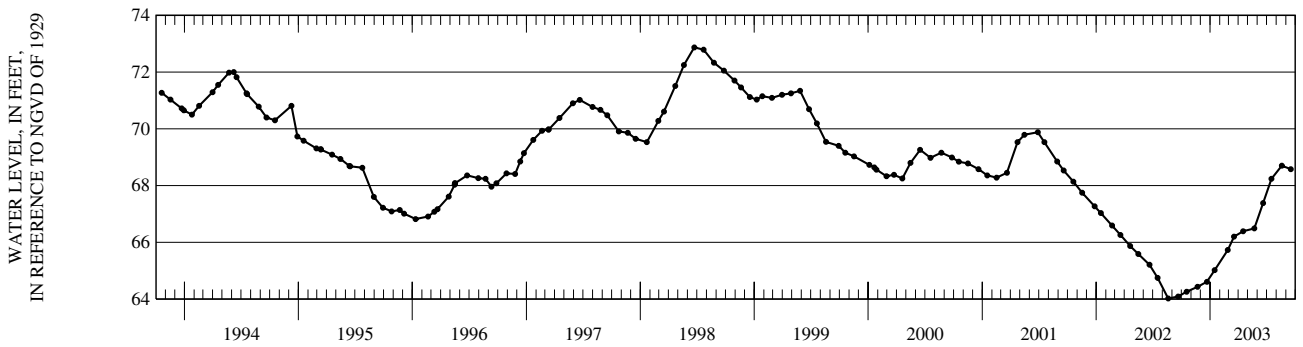
REMARKS.--Replaced well N1616.1 in October 1965 near same location, which has a period of record from March 1913 to October 1965. Well N1616.1 was screened in the upper glacial aquifer.

PERIOD OF RECORD.--October 1965 to current year. Unpublished record from October 1965 to September 1975 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.14 ft above sea level, June 20, 1980; lowest measured, 64.02 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	64.26	DEC 21	64.61	FEB 26	65.73	APR 16	66.39	JUN 19	67.38	AUG 18	68.70
NOV 21	64.43	JAN 15	65.02	MAR 18	66.20	MAY 22	66.49	JUL 16	68.24	SEP 16	68.58



404619073270601. Local number, N3355.2

LOCATION.--Lat 40°46'18", long 73°27'04", Hydrologic Unit 02030202, at former site of Nassau County Sanitarium, 336 ft west of Round Swamp Road, south of Locust Road, in wooden recorder shelter, Plainview. Owner: United States Geological Survey.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in. to 8 in., depth 1,093 ft, screened 1,070 to 1,090 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

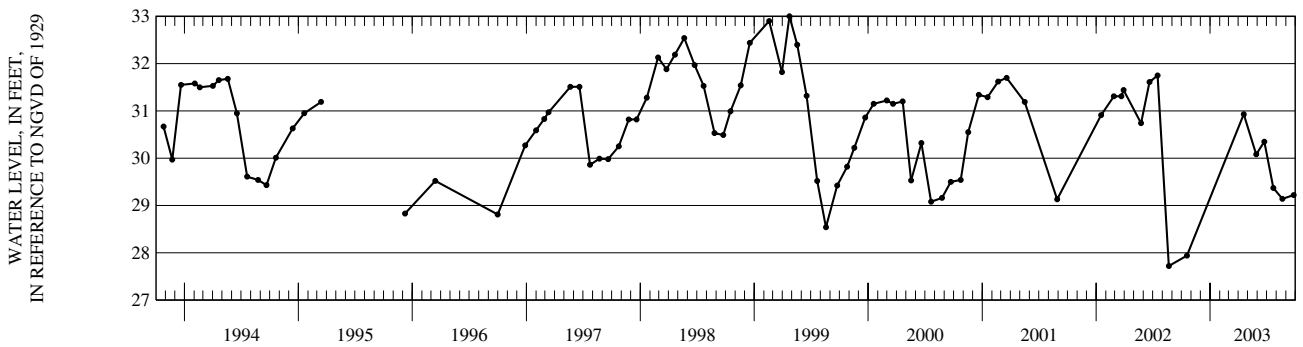
DATUM.--Land-surface datum is 183.0 ft above sea level. Measuring point: Top of casing, 0.28 ft below land-surface datum.

PERIOD OF RECORD.--January 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.17 ft above sea level, April 10, 1957; lowest measured, 23.18 ft above sea level, April 11, 1972.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	27.94	MAY 28	30.08	JUL 22	29.37	SEP 25	29.22				
APR 18	30.93	JUN 23	30.35	AUG 20	29.14						



NASSAU COUNTY—Continued

403751073440201. Local number, N3861.1

LOCATION.--Lat 40°37'51", long 73°44'01", Hydrologic Unit 02030202, at Cedarhurst Water Pollution Control Plant, 28 ft east of Arlington Place, north of Peninsula Boulevard, Cedarhurst. Owner: United States Geological Survey.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 530 ft, screened 519 to 530 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 7.0 ft above sea level. Measuring point: Top of casing, 2.37 ft above land-surface datum.

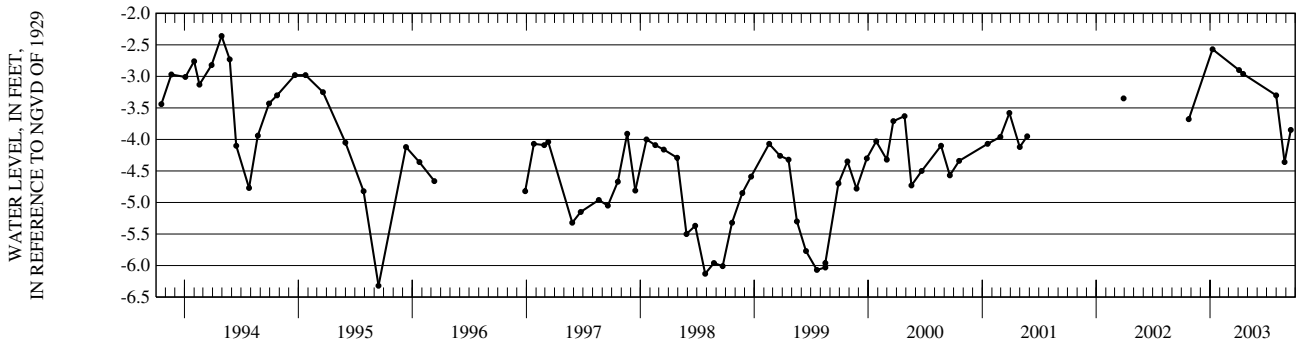
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--April 1952 to current year. Unpublished records from April 1952 to September 1975 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.09 ft below sea level, March 20, 1991; lowest measured, 7.57 ft below sea level, August 7, 1955.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	-3.68	APR 03	-2.90	JUL 31	-3.30	SEP 16	-3.85				
JAN 08	-2.57	16	-2.96	AUG 27	-4.36						



403911073432701. Local number, N3867.2

LOCATION.--Lat 40°39'12", long 73°43'20", Hydrologic Unit 02030202, at Brook Road Park, 35 ft south of Brook Road, 41 ft east of stream, easternmost well, Green Acres. Owner: United States Geological Survey.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 517 ft, screened 505 to 517 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 7.7 ft above sea level. Measuring point: Top of casing, 1.54 ft above land-surface datum.

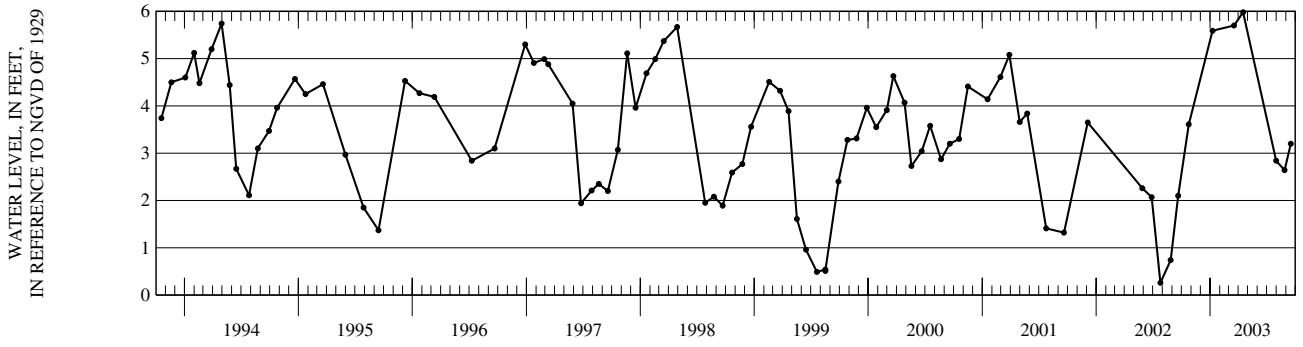
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--January 1953 to current year. Unpublished records from January 1953 to September 1975 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.99 ft above sea level, January 28, 1953; lowest measured, 2.61 ft below sea level, July 19, 1977.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.61	MAR 18	5.70	JUL 31	2.84	SEP 16	3.20				
JAN 08	5.59	APR 16	5.98	AUG 27	2.64						



NASSAU COUNTY—Continued

403751073440202. Local number, N3932.1

LOCATION.--Lat 40°37'51", long 73°44'01", Hydrologic Unit 02030202, at Cedarhurst Water Pollution Control Plant, 37 ft east of Arlington Place, north of Peninsula Boulevard, Cedarhurst. Owner: Nassau County Department of Public Works.

AQUIFER.--Jameco (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 178 ft, screened 172 to 176 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 7.0 ft above sea level. Measuring point: Top of steel extender, 3.24 ft above land-surface datum.

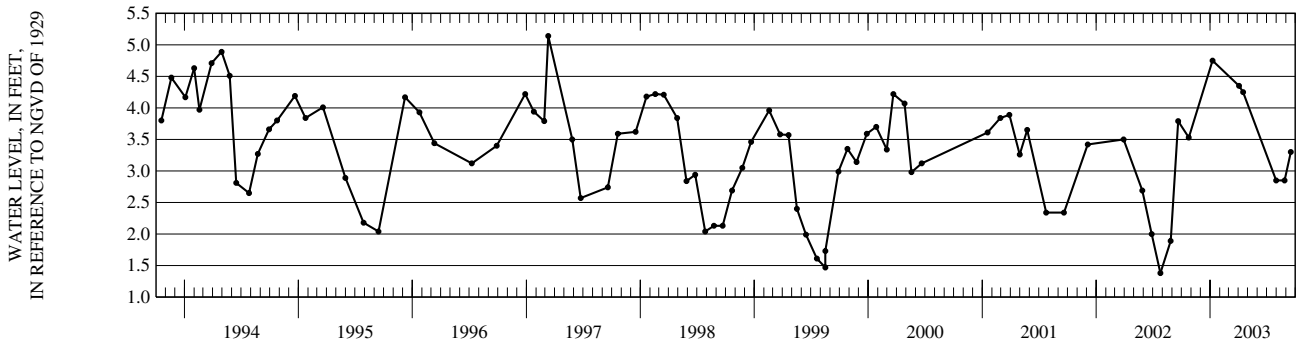
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--June 1952 to current year. Unpublished records from June 1952 to September 1987 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.13 ft above sea level, November 10, 1975; lowest measured, 0.30 ft above sea level, September 20, 1977.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.53	APR 03	4.35	JUL 31	2.85	SEP 16	3.30				
JAN 08	4.75	16	4.25	AUG 27	2.85						



403911073432001. Local number, N4213.1

LOCATION.--Lat 40°39'12", long 73°43'20", Hydrologic Unit 02030202, at Brook Road Park, 34 ft south of Brook Road, 32 ft east of stream, westernmost well, Green Acres. Owner: Nassau County Department of Public Works.

AQUIFER.--Jameco (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 134 ft, screened 130 to 134 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 5.0 ft above sea level. Measuring point: Top of casing, 3.42 ft above land-surface datum.

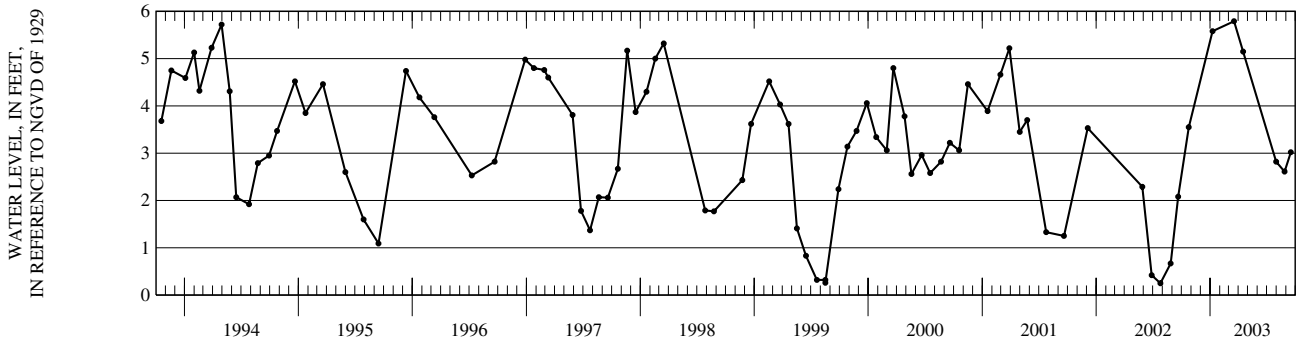
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--February 1968 to current year. Unpublished records from February 1968 to September 1987 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.33 ft above sea level, June 30, 1975; lowest measured, 2.40 ft below sea level, March 22, 1972.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.55	MAR 18	5.79	JUL 31	2.82	SEP 16	3.02				
JAN 08	5.58	APR 16	5.15	AUG 27	2.61						



NASSAU COUNTY—Continued

405125073420702. Local number, N6282.2

LOCATION.--Lat 40°51'25", long 73°42'07", Hydrologic Unit 02030201, at Helen Keller National Center for Deaf-Blind Youths and Adults, 300 ft north of Middle Neck Road, westernmost well, Sands Point. Owner: United States Geological Survey.

AQUIFER.--Port Washington (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 396 ft, screened 378 to 388 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 100.9 ft above sea level. Measuring point: Top of 6-in casing, 1.32 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

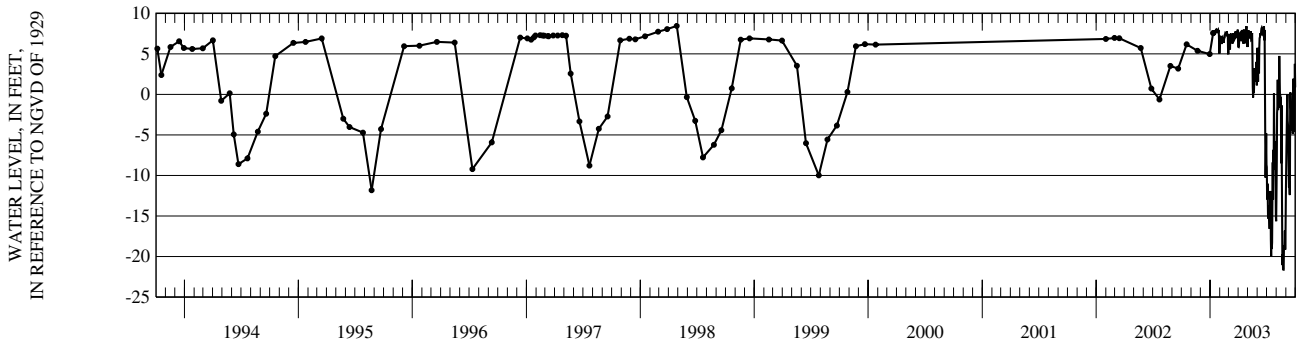
PERIOD OF RECORD.--August 1957 to current year. Unpublished records from August 1957 to September 1975 are available in the files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.49 ft above sea level, May 31 and June 1, 1983; lowest measured, 28.36 ft below sea level, February 17, 1982.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	6.51	5.55	7.51	7.35	4.48	-15.30	1.80	0.04
10	---	---	---	---	6.58	6.58	6.56	7.55	7.53	-16.59	4.74	-11.47
15	---	---	---	7.52	6.96	7.23	7.94	7.57	8.24	-20.05	-0.30	0.24
20	---	---	---	8.02	7.50	6.87	8.00	0.15	7.44	-8.38	-21.06	-2.69
25	---	---	---	7.93	7.31	7.38	7.80	2.62	1.29	-4.58	-18.59	-3.09
EOM	---	---	---	5.91	4.95	6.23	5.84	4.24	-8.68	-15.64	-12.68	0.87
MEAN	---	---	---	7.49	6.90	7.05	7.25	4.73	4.09	-12.31	-9.20	-3.94
MAX	---	---	---	8.02	7.79	7.99	8.41	7.89	8.39	0.11	4.74	3.77
MIN	---	---	---	5.02	4.95	5.55	5.83	-0.38	-10.27	-20.05	-21.62	-12.42

WTR YR 2003 MEAN 1.03 MAX 8.41 MIN -21.62



NASSAU COUNTY—Continued

405125073420705. Local number, N6342.1

LOCATION.--Lat 40°51'25", long 73°42'07", Hydrologic Unit 02030201, at Helen Keller National Center for Deaf-Blind Youths and Adults, 300 ft north of Middle Neck Road, easternmost well, Sands Point. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 1 $^1/_4$ in., depth 185 ft, screened 183 to 185 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 97.0 ft above sea level. Measuring point: Top of casing, 3.99 ft above land-surface datum.

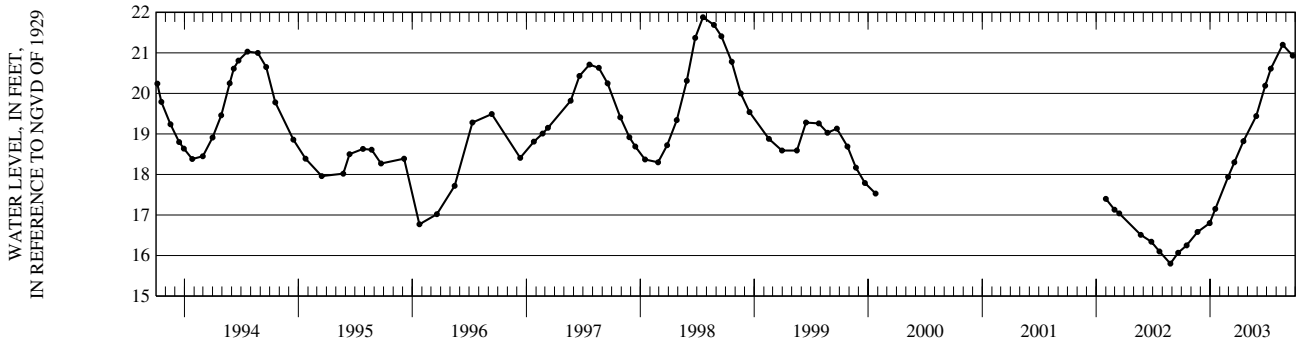
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--August 1957 to current year. Unpublished records from August 1957 to September 1987 are available in the files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.99 ft above sea level, September 14, 1984; lowest measured, 14.06 ft above sea level, February 28, 1967.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	16.25	DEC 30	16.80	FEB 27	17.94	APR 17	18.82	JUN 26	20.19	AUG 21	21.20
NOV 21	16.58	JAN 17	17.15	MAR 19	18.30	MAY 28	19.44	JUL 14	20.61	SEP 22	20.93



403517073430610. Local number, N6701.2

LOCATION.--Lat 40°35'17", long 73°43'06", Hydrologic Unit 02030202, at pumping center, 0.1 mi west of end of Park Street, 300 ft north of Beech Street, in easternmost recorder shelter, Atlantic Beach. Owner: United States Geological Survey.

AQUIFER.--Raritan (Confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 837 ft, screened 822 to 832 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 11.0 ft above sea level. Measuring point: Top of coupling, 1.06 ft above land-surface datum.

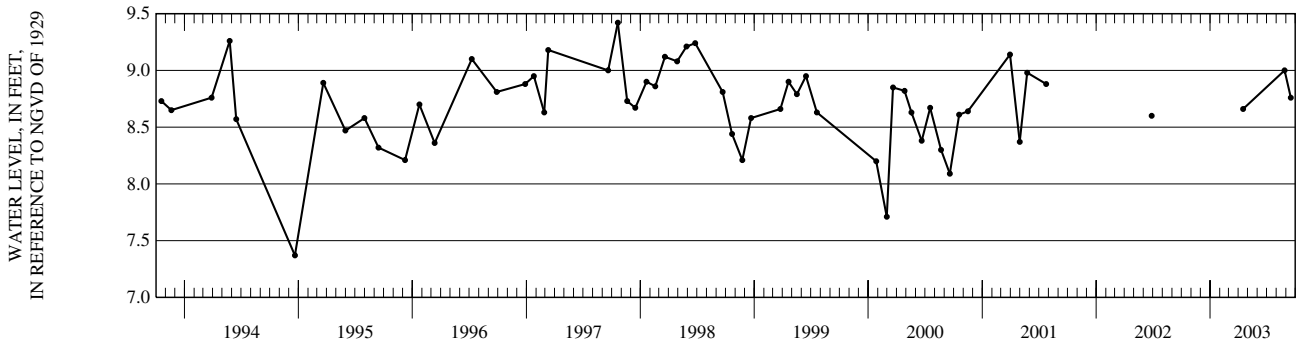
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--August 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.42 ft above sea level, September 20, 1997; lowest measured, 2.57 ft below sea level, October 30, 1968.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 16	8.66	AUG 27	9.00	SEP 16	8.76



NASSAU COUNTY—Continued

403517073430702. Local number, N6702.1

LOCATION.--Lat 40°35'17", long 73°43'06", Hydrologic Unit 02030202, at pumping center, 0.1 mi west of end of Park Street, 300 ft north of Beech Street, in easternmost recorder shelter, Atlantic Beach. Owner: United States Geological Survey.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 677 ft, screened 666 to 677 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 11.0 ft above sea level. Measuring point: Top of coupling, 1.04 ft above land-surface datum.

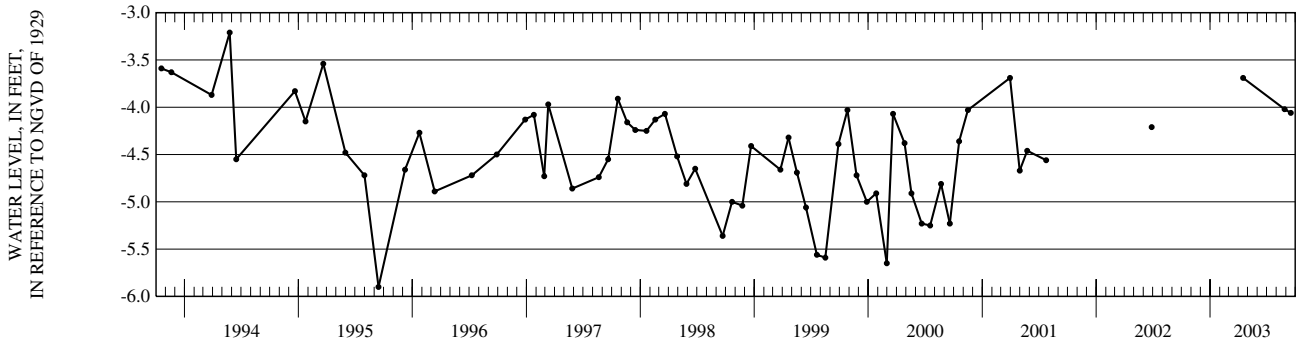
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--September 1959 to current year. Unpublished records from September 1959 to September 1975 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.50 ft below sea level, April 13, 1961; lowest measured, 6.58 ft below sea level, November 30, 1972.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 16	-3.69	AUG 27	-4.02	SEP 16	-4.06



403517073430705. Local number, N6705.1

LOCATION.--Lat 40°35'17", long 73°43'06", Hydrologic Unit 02030202, at pumping center, 0.1 mi west of end of Park Street, 300 ft north of Beech Street, in westernmost recorder shelter, Atlantic Beach. Owner: United States Geological Survey.

AQUIFER.--Jameco (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 157 ft, screened 147 to 157 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 10.0 ft above sea level. Measuring point: Top of coupling, 2.45 ft above land-surface datum.

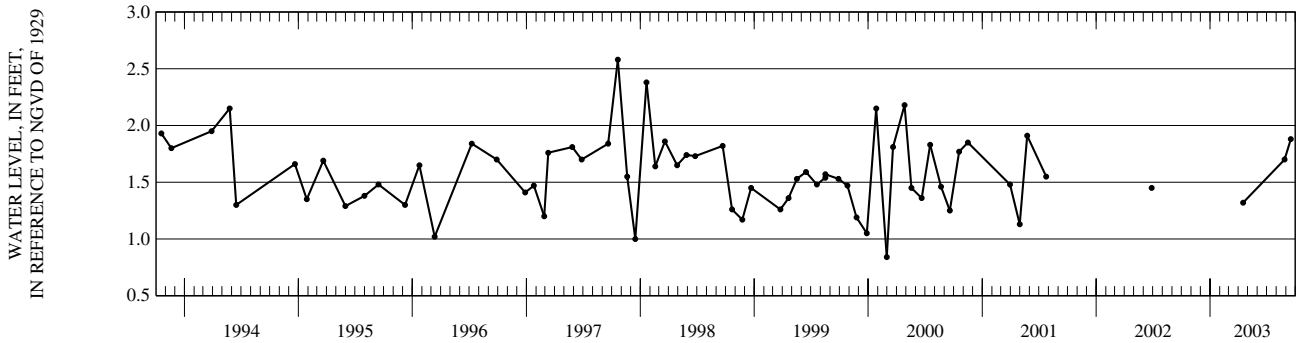
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--February 1968 to current year. Unpublished records from February 1968 to September 1968 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.12 ft above sea level, March 3, 1969; lowest measured, 2.77 ft below sea level, April 5, 1973.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 16	1.32	AUG 27	1.70	SEP 16	1.88



NASSAU COUNTY—Continued

404237073433701. Local number, N7493.1

LOCATION.--Lat 40°42'36", long 73°43'35", Hydrologic Unit 02030202, at west side of Cross Island Parkway exit ramp (Hempstead Turnpike eastbound), 21 ft south of Hempstead Turnpike, Elmont. Owner: United States Geological Survey.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 353 ft, screened 349 to 353 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 75.0 ft above sea level. Measuring point: Top of casing, 1.02 ft above land-surface datum.

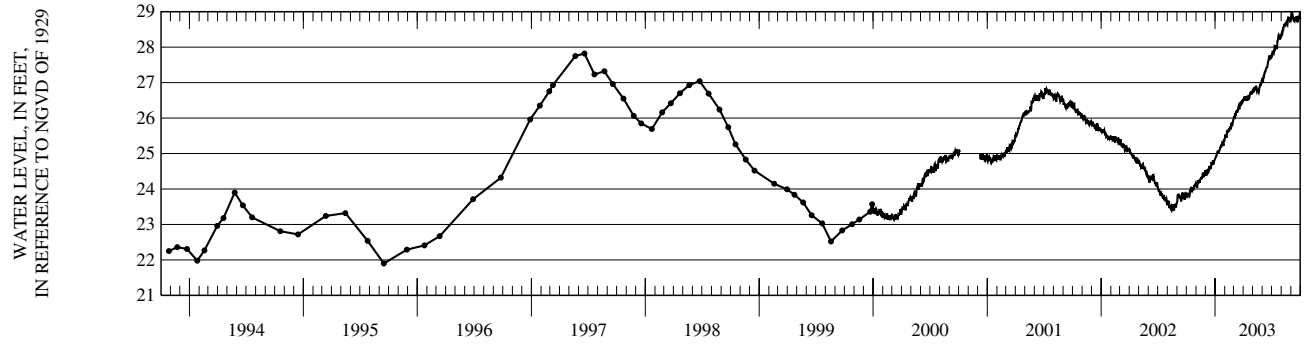
PERIOD OF RECORD.--April 1964 to current year. Unpublished records from April 1964 to September 1975 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.04 ft above sea level, September 4, 2003; lowest measured, 3.52 ft above sea level, August 8, 1982.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.89	24.17	24.49	24.94	25.46	26.11	26.61	26.75	27.18	27.86	28.48	28.91
10	23.80	24.24	24.56	25.05	25.64	26.14	26.52	26.85	27.30	28.02	28.66	28.79
15	23.97	24.29	24.59	25.11	25.65	26.26	26.54	26.75	27.45	28.02	28.70	28.81
20	23.97	24.33	24.77	25.23	25.77	26.31	26.57	26.72	27.62	28.19	28.64	28.80
25	24.04	24.35	24.81	25.27	25.85	26.41	26.72	26.93	27.71	28.29	28.78	28.80
EOM	24.14	24.53	24.84	25.42	25.97	26.51	26.72	27.02	27.77	28.30	28.76	28.79
MEAN	23.96	24.29	24.62	25.14	25.68	26.27	26.60	26.85	27.45	28.07	28.65	28.82
MAX	24.16	24.53	24.84	25.42	25.97	26.52	26.76	27.03	27.77	28.35	28.86	28.98
MIN	23.80	24.04	24.38	24.87	25.44	25.97	26.49	26.72	27.04	27.77	28.34	28.70

WTR YR 2003 MEAN 26.37 MAX 28.98 MIN 23.80



NASSAU COUNTY—Continued

404535073370002. Local number, N8269.2

LOCATION.--Lat 40°45'35", long 73°37'00", Hydrologic Unit 02030202, at east side of Bacon Road, 106 ft north of Hillside Avenue, south of school entrance, Old Westbury. Owner: Nassau County Department of Public Works.

AQUIFER.--Magothy (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 86 ft, screened 81 to 86 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 111.7 ft above sea level. Measuring point: Top of coupling, 0.15 ft below land-surface datum.

REMARKS.--Prior to April 1967, well at site (N 1258.1) was screened in the upper glacial aquifer. Well N1258.1 was replaced by well N8269.1 in April 1967, which was replaced by well N8269.2 in June 1976 near same location.

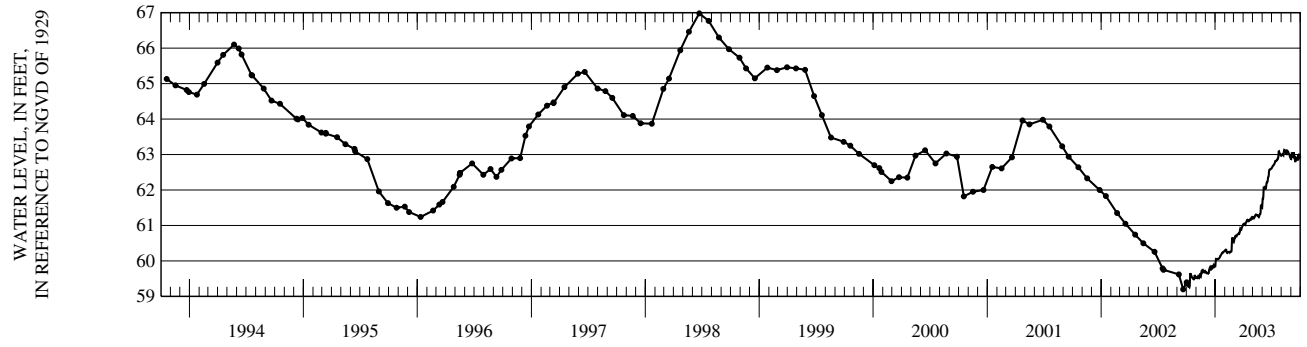
PERIOD OF RECORD.--June 1976 to current year. Unpublished records from June 1936 to September 1975 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.18 ft above sea level, May 21, 1980; lowest measured, 59.25 ft above sea level, October 11 and 12, 2002.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	59.31	59.51	59.67	60.05	60.31	60.65	61.05	61.20	62.06	62.69	63.01	62.98
10	59.26	59.54	59.66	60.05	60.25	60.70	61.10	61.30	62.03	62.75	63.13	62.98
15	59.57	59.61	59.82	60.09	60.25	60.76	61.16	61.28	62.22	62.83	63.04	62.82
20	59.52	59.70	59.78	60.18	60.26	60.80	61.14	61.27	62.37	62.89	63.10	62.88
25	59.48	59.69	59.82	60.24	60.62	60.88	61.17	61.32	62.58	63.06	63.02	63.00
EOM	59.52	59.71	59.85	60.29	60.54	61.03	61.20	61.51	62.61	62.97	62.87	62.91
MEAN	59.46	59.62	59.76	60.13	60.33	60.79	61.13	61.31	62.23	62.85	63.03	62.93
MAX	59.66	59.73	59.89	60.29	60.66	61.03	61.23	61.57	62.61	63.09	63.13	63.06
MIN	59.26	59.51	59.64	59.85	60.22	60.53	61.02	61.20	61.64	62.62	62.87	62.79

WTR YR 2003 MEAN 61.13 MAX 63.13 MIN 59.26



NASSAU COUNTY—Continued

404742073410301. Local number, N8309.1

LOCATION.--Lat 40°47'42", long 73°41'03", Hydrologic Unit 02030201, at east side of Manhasset Woods Road, 73 ft north of Northern Boulevard, Munsey Park. Owner: Nassau County Department of Public Works.

AQUIFER.--Magothy (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 199 ft, screened 194 to 199 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 143.2 ft above sea level. Measuring point: Top of coupling, 0.15 ft below land-surface datum.

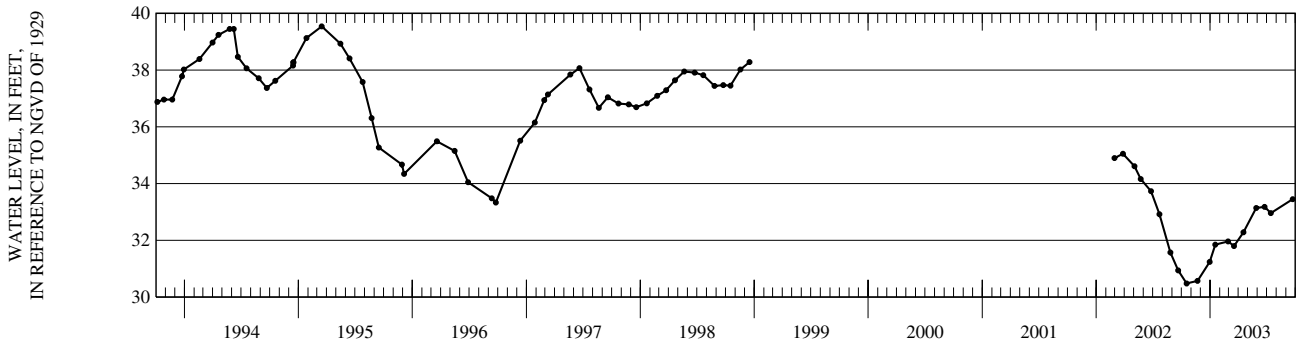
REMARKS.--Replaced well N1121.2 in March 1967 near same location.

PERIOD OF RECORD.--March 1967 to current year. Unpublished records from March 1940 to March 1967 are available in the files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.81 ft above sea level, June 20, 1980; lowest measured, 30.48 ft above sea level, October 17, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	30.48	DEC 30	31.24	FEB 27	31.96	APR 17	32.28	JUN 24	33.18	SEP 22	33.45
NOV 21	30.57	JAN 17	31.85	MAR 18	31.80	MAY 28	33.14	JUL 14	32.96		



404154073374003. Local number, N9648.1

LOCATION.--Lat 40°41'54", long 73°37'40", Hydrologic Unit 02030202, at northeastern corner of Graham Avenue and Rose Avenue, Hempstead. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 53 ft, screened 46 to 51 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 53.0 ft above sea level. Measuring point: Top of coupling, 0.16 ft below land-surface datum.

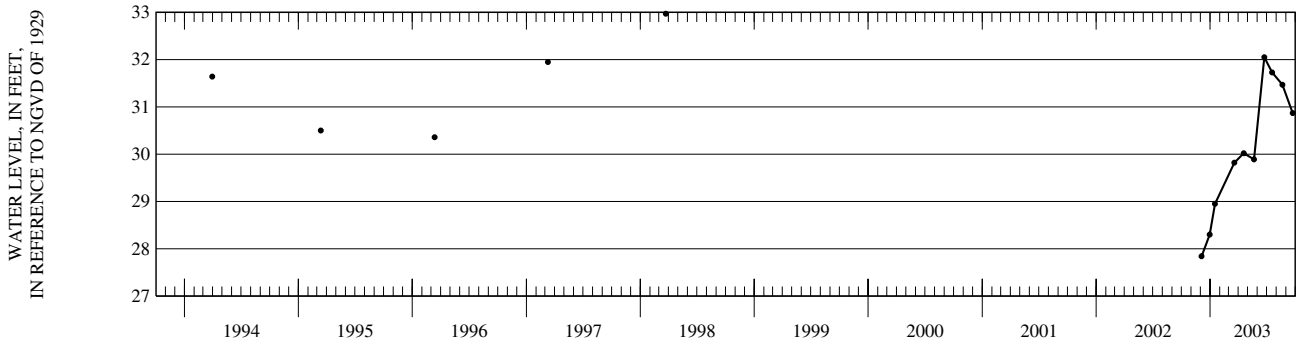
REMARKS.--Replaced well N1143.2 in April 1979 near same location.

PERIOD OF RECORD.--April 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.20 ft above sea level, April 18, 1979; lowest measured, 27.84 ft above sea level, December 4, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 04	27.84	JAN 16	28.95	APR 18	30.02	JUN 23	32.05	AUG 20	31.47		
30	28.30	MAR 19	29.82	MAY 21	29.89	JUL 18	31.73	SEP 22	30.87		



NASSAU COUNTY—Continued

404103073372701. Local number, N9649.1

LOCATION.--Lat 40°41'03", long 73°37'27", Hydrologic Unit 02030202, at southeast corner of Maple Avenue and Locust Street, Rockville Centre. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 50 ft, screened 45 to 50 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 47.0 ft above sea level. Measuring point: Top of coupling, 0.27 ft below land-surface datum.

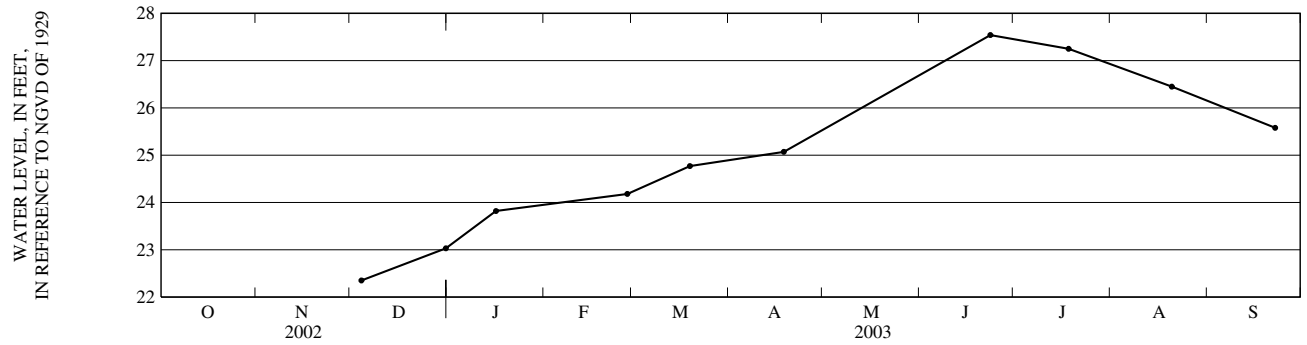
REMARKS.--Replaced well N1144.3 in March 1979 near same location.

PERIOD OF RECORD.--March 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.94 ft above sea level, June 4, 1979; lowest measured, 21.31 ft above sea level, September 3, 1981.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 04	22.35	JAN 16	23.82	MAR 19	24.77	JUN 23	27.54	AUG 20	26.45		
31	23.03	FEB 27	24.18	APR 18	25.07	JUL 18	27.25	SEP 22	25.58		



404232073432501. Local number, N9979.1

LOCATION.--Lat 40°42'32", long 73°43'25", Hydrologic Unit 02030202, at west side of Wellington Road, 279 ft south of Hempstead Turnpike, Elmont. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 95 ft, screened 87 to 92 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 71.0 ft above sea level. Measuring point: Top of coupling, 0.36 ft below land-surface datum.

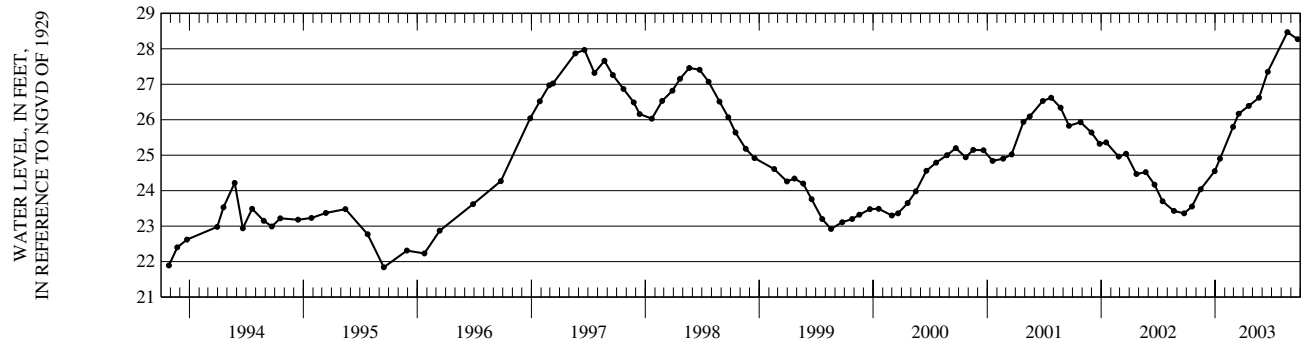
REMARKS.--Replaced well N1622.4 in June 1982 near same location.

PERIOD OF RECORD.--December 1982 to current year. Unpublished records from December 1982 to September 1987 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.47 ft above sea level, August 20, 2003; lowest measured, 5.39 ft above sea level, April 8, 1983.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	23.55	DEC 30	24.55	FEB 27	25.80	APR 18	26.39	JUN 18	27.35	SEP 22	28.27
NOV 15	24.04	JAN 16	24.90	MAR 17	26.17	MAY 21	26.62	AUG 20	28.47		



NASSAU COUNTY—Continued

404108073385501. Local number, N10002.1

LOCATION.--Lat 40°41'08", long 73°38'55", Hydrologic Unit 02030202, at southeast corner of Eagle Avenue and Jennings Avenue, Lakeview. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 47.6 ft, screened 42.6 to 47.6 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

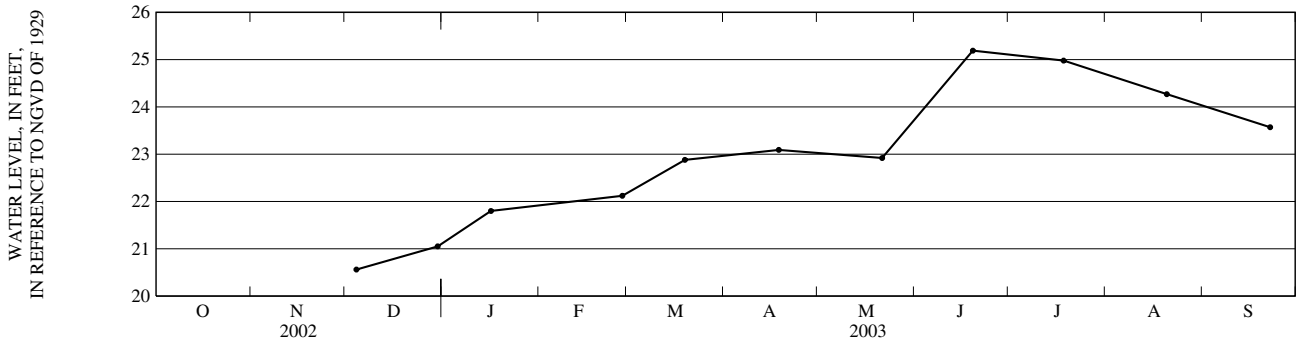
DATUM.--Land-surface datum is 46.0 ft above sea level. Measuring point: Top of coupling, 0.10 ft below land-surface datum.

PERIOD OF RECORD.--March 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.23 ft above sea level, March 26, 1990; lowest measured, 20.56 ft above sea level, December 4, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 04	20.56	JAN 16	21.80	MAR 19	22.88	MAY 21	22.92	JUL 18	24.98	SEP 22	23.57
30	21.05	FEB 27	22.12	APR 18	23.09	JUN 19	25.19	AUG 20	24.27		



404338073371502. Local number, N10035.1

LOCATION.--Lat 40°43'38", long 73°37'15", Hydrologic Unit 02030202, at north side of Commercial Avenue, 60 ft east of Clinton Avenue, Garden City. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 56 ft, screened 48 to 53 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 77.6 ft above sea level. Measuring point: Top of coupling, 0.38 ft below land-surface datum.

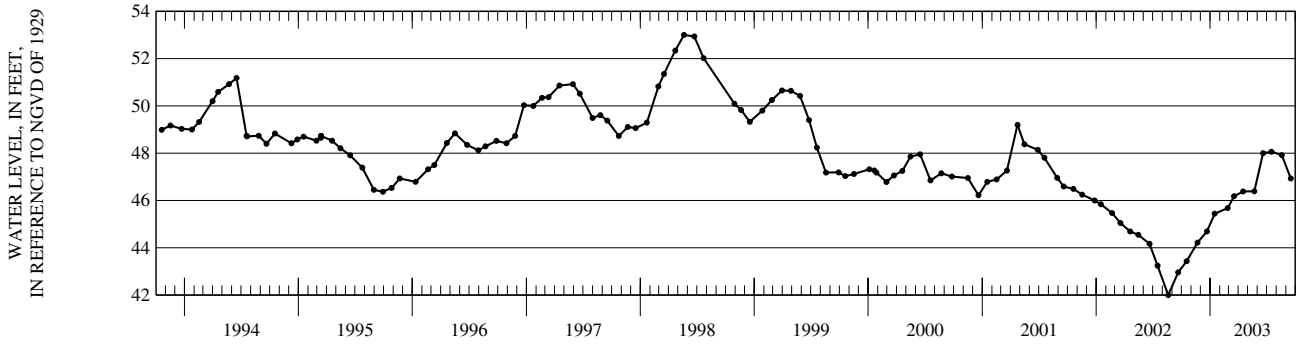
REMARKS.--Replaced well N1255.2 in October 1982 near same location.

PERIOD OF RECORD.--October 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.04 ft above sea level, August 8, 1984; lowest measured, 42.00 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	43.43	DEC 21	44.69	FEB 26	45.68	APR 16	46.38	JUN 19	48.00	AUG 18	47.92
NOV 21	44.22	JAN 15	45.44	MAR 18	46.18	MAY 22	46.39	JUL 16	48.06	SEP 16	46.93



NASSAU COUNTY—Continued

405009073293501. Local number, N11394.1

LOCATION.--Lat 40°50'09", long 73°29'35", Hydrologic Unit 02030201, at south side of Foxhunt Crescent South Road, east of Fox Court, in recharge basin #531, Oyster Bay Cove. Owner: Nassau County Department of Public Works.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 685 ft, screened 660 to 680 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

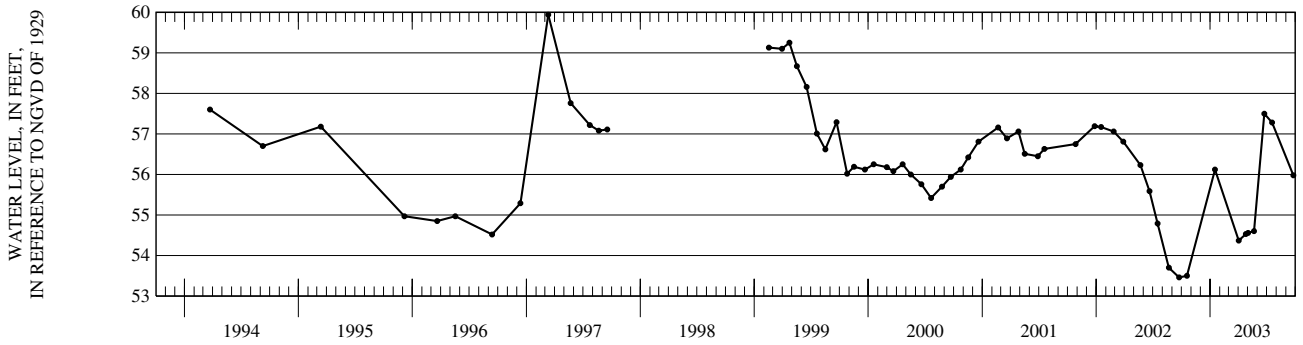
DATUM.--Land-surface datum is 212.0 ft above sea level. Measuring point: Top of coupling, 0.48 ft below land-surface datum.

PERIOD OF RECORD.--August 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.12 ft above sea level, March 11, 1991; lowest measured, 53.46 ft above sea level, September 23, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	53.50	APR 02	54.37	MAY 02	54.56	JUN 23	57.50	SEP 24	55.98		
JAN 16	56.12	25	54.53	21	54.60	JUL 18	57.28				



404853073421101. Local number, N12134.1

LOCATION.--Lat 40°48'53", long 73°42'11", Hydrologic Unit 02030201, at northside of Rock Hollow Road, eastside of Plandome Road, outside of entrance to Leeds Pond Preserve, Plandome Manor. Owner: Nassau County Department of Public Works.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 380 ft, screened 345 to 365 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 10.0 ft above sea level. Measuring point: Top of casing, 0.69 ft below land-surface datum.

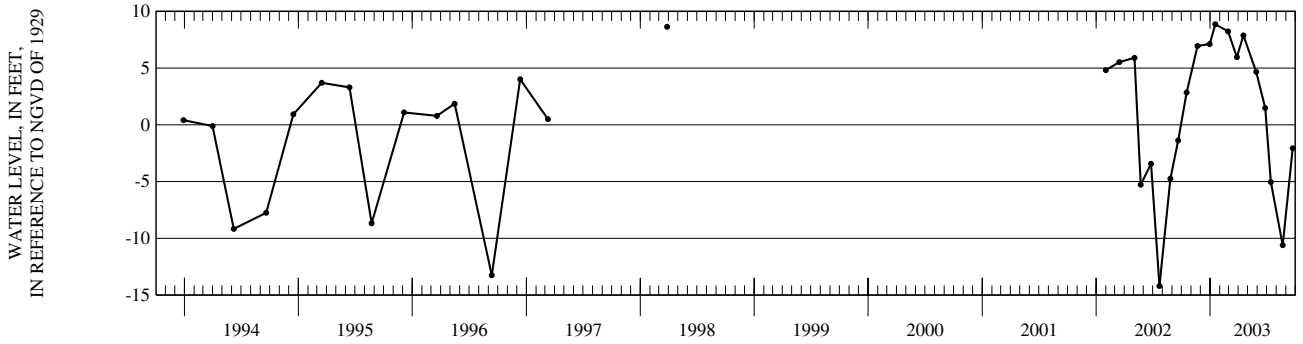
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--December 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.86 ft above sea level, January 17, 2003; lowest measured, 14.20 ft below sea level, July 22, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	2.84	DEC 30	7.12	FEB 27	8.23	APR 17	7.88	JUN 26	1.48	AUG 21	-10.61
NOV 21	6.95	JAN 17	8.86	MAR 27	5.96	MAY 28	4.66	JUL 14	-5.04	SEP 22	-2.07



NASSAU COUNTY—Continued

404303073295501. Local number, N12250.1

LOCATION.--Lat 40°43'03", long 73°29'55", Hydrologic Unit 02030202, at east side of Emerald Lane, 87 ft south of Miller Place, Levittown. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 49 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

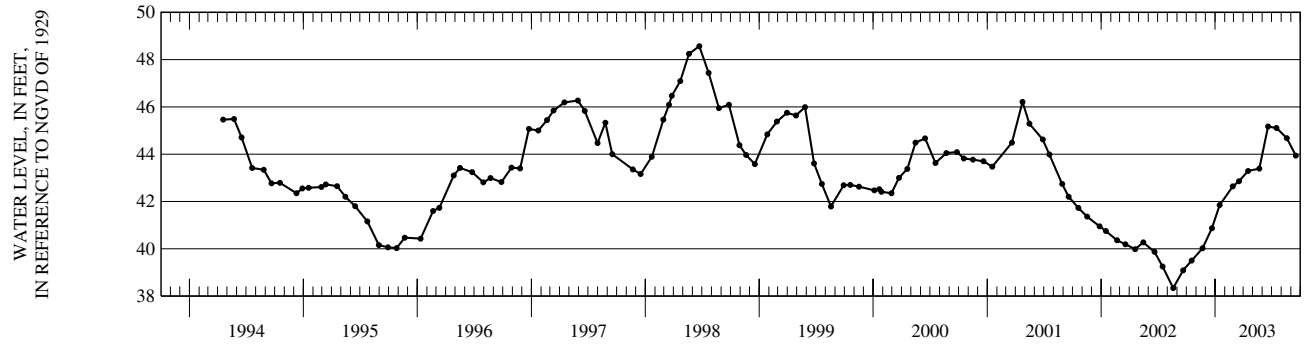
DATUM.--Land-surface datum is 71.0 ft above sea level. Measuring point: Top of coupling, 0.66 ft below land-surface datum.

PERIOD OF RECORD.--April 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 48.57 ft above sea level, June 22, 1998; lowest measured, 38.34 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	39.50	DEC 21	40.87	FEB 26	42.64	APR 16	43.29	JUN 19	45.17	AUG 18	44.68
NOV 21	40.02	JAN 15	41.85	MAR 18	42.86	MAY 22	43.39	JUL 16	45.11	SEP 16	43.94



404925073405401. Local number, N12321.1

LOCATION.--Lat 40°49'25", long 73°40'54", Hydrologic Unit 02030201, at southside of Revere Drive, Port Washington. Owner: Nassau County Department of Public Works.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 577 ft, screened 557 to 577 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 154.0 ft above sea level. Measuring point: Top of casing, 0.46 ft below land-surface datum.

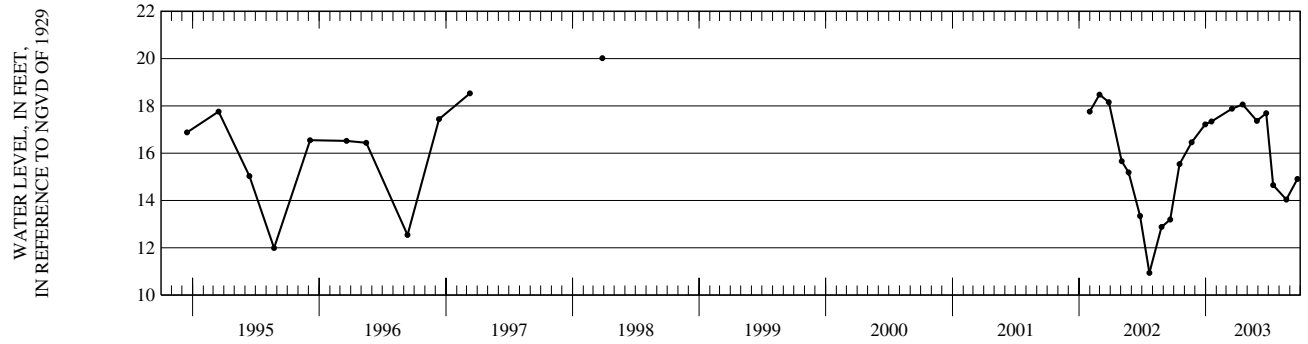
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.02 ft above sea level, March 27, 1998; lowest measured, 10.94 ft below sea level, July 22, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	15.54	DEC 30	17.22	MAR 17	17.88	MAY 28	17.37	JUL 14	14.65	SEP 22	14.91
NOV 21	16.46	JAN 17	17.34	APR 17	18.06	JUN 24	17.69	AUG 21	14.04		



NASSAU COUNTY—Continued

404607073430801. Local number, N12450.1

LOCATION.--Lat 40°46'07", long 73°43'08", Hydrologic Unit 02030201, at west side of Links Drive, south of Horace Harding Boulevard, Lake Success. Owner: Nassau County Department of Public Works.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 685 ft, screened 660 to 680 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 220.0 ft above sea level. Measuring point: Top of coupling, 0.31 ft below land-surface datum.

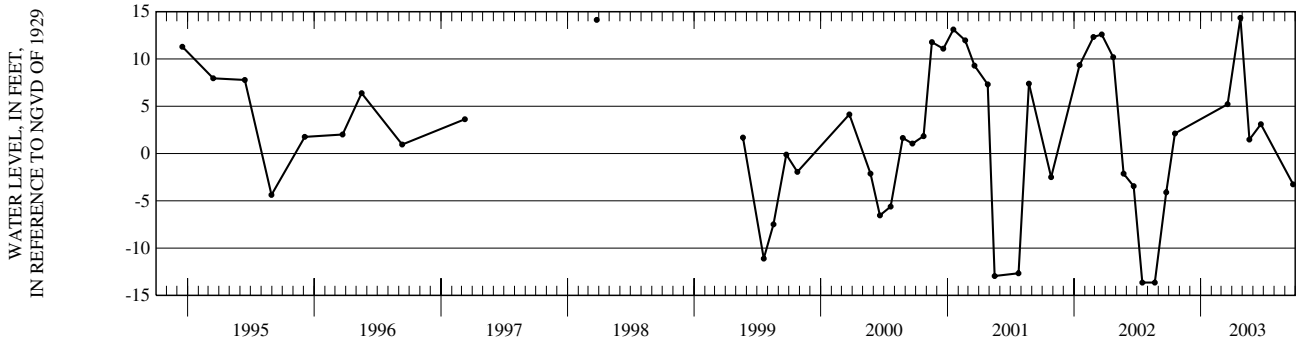
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.35 ft above sea level, April 25, 2003; lowest measured, 13.64 ft below sea level, July 16 and August 21, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	2.12	MAR 19	5.21	APR 25	14.35	MAY 21	1.48	JUN 23	3.10	SEP 24	-3.25



404925073405402. Local number, N12451.1

LOCATION.--Lat 40°49'25", long 73°40'54", Hydrologic Unit 02030201, at southside of Revere Drive, Port Washington. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 120 ft, screened 95 to 115 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

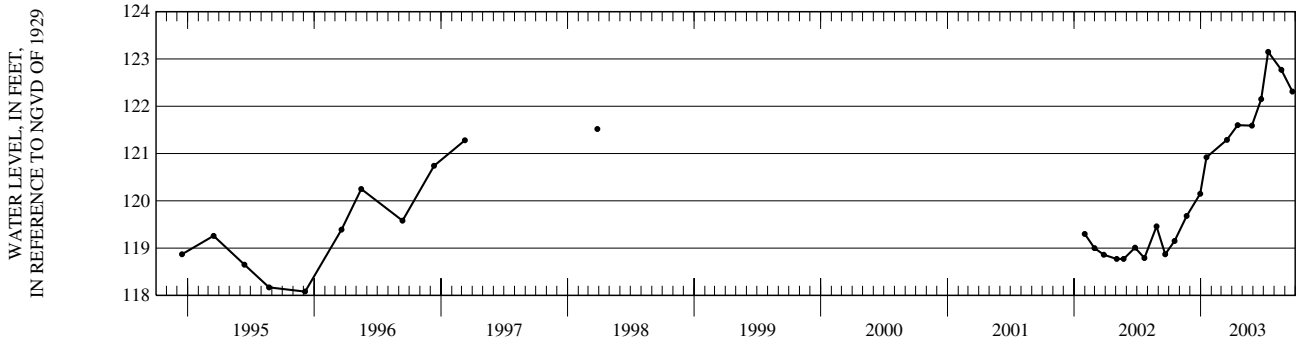
DATUM.--Land-surface datum is 154.0 ft above sea level. Measuring point: Top of casing, 0.45 ft below land-surface datum.

PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 123.15 ft above sea level, July 14, 2003; lowest measured, 118.08 ft above sea level, December 5, 1985.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	119.15	DEC 30	120.15	MAR 17	121.29	MAY 28	121.59	JUL 14	123.15	SEP 22	122.31
NOV 21	119.68	JAN 17	120.92	APR 17	121.60	JUN 24	122.15	AUG 21	122.77		



NASSAU COUNTY—Continued

404834073403701. Local number, N12507.1

LOCATION.--Lat 40°48'34", long 73°40'37", Hydrologic Unit 02030201, at southwest side of Bonnie Heights Road, in Flower Hill Village Hall parking lot, Flower Hill. Owner: Nassau County Department of Public Works.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 615 ft, screened 585 to 605 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

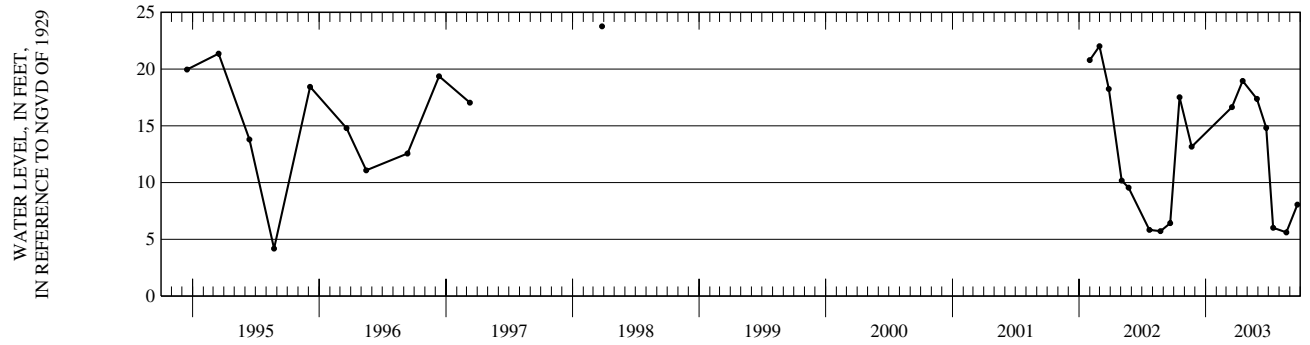
DATUM.--Land-surface datum is 118.0 ft above sea level. Measuring point: Top of casing, 0.84 ft below land-surface datum.

PERIOD OF RECORD.--September 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.76 ft above sea level, March 26, 1998; lowest measured, 4.19 ft above sea level, August 23, 1995.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	17.52	MAR 17	16.64	MAY 28	17.38	JUL 14	6.02	SEP 22	8.06		
NOV 21	13.16	APR 17	18.96	JUN 24	14.83	AUG 21	5.61				



404943073414701. Local number, N12508.1

LOCATION.--Lat 40°49'43", long 73°41'47", Hydrologic Unit 02030201, at north side of Charles Street near dead end, along west side of foot path to Madison Street, at Stannards Brook Park, Port Washington. Owner: United States Geological Survey.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 400 ft, screened 375 to 400 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 61.0 ft above sea level. Measuring point: Top of casing, 0.99 ft below land-surface datum.

REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

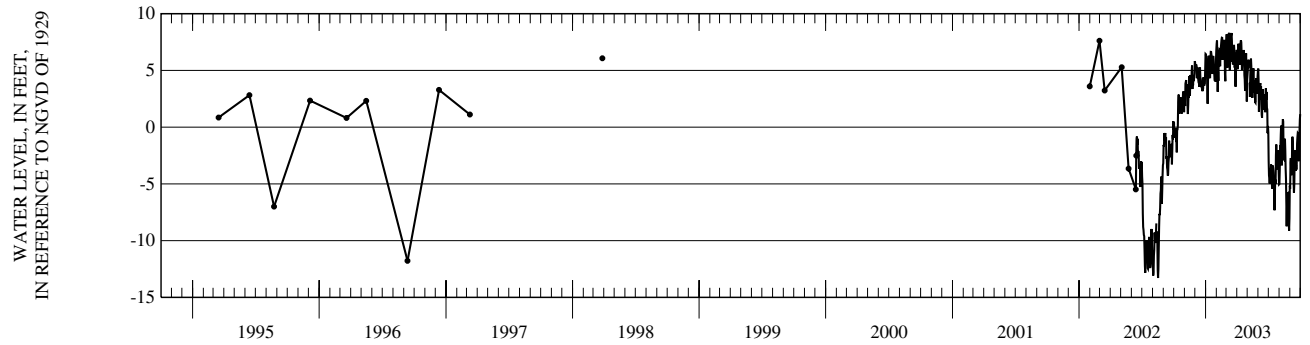
PERIOD OF RECORD.--March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.92 ft above sea level, March 16 and 17, 2003; lowest measured, 14.18 ft below sea level, July 10, 2002.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	-0.83	4.15	5.29	3.64	4.88	6.83	7.35	5.19	2.42	-4.43	-0.64	-4.23
10	-0.27	1.16	4.16	5.75	6.82	7.50	7.00	5.47	2.02	-4.76	-0.09	-2.71
15	2.87	4.21	5.25	6.63	7.69	8.14	5.07	2.59	2.28	-3.99	-2.88	-2.04
20	2.62	3.36	3.50	4.68	6.70	5.53	6.80	3.04	2.87	-4.63	-4.55	-3.20
25	2.24	3.69	4.39	4.75	4.65	5.24	4.67	3.78	3.11	---	-5.95	-1.24
EOM	2.69	5.82	6.45	6.78	7.42	6.81	4.18	4.92	-0.45	-5.05	-5.15	1.15
MEAN	1.13	3.69	4.40	5.28	6.41	6.68	5.93	4.13	2.30	-4.07	-3.82	-2.54
MAX	3.14	5.82	6.45	6.78	7.88	8.31	7.66	6.04	5.16	-1.53	0.70	1.15
MIN	-2.22	1.16	3.17	2.07	3.12	3.57	2.26	2.16	-0.53	-7.32	-9.12	-5.77

WTR YR 2003 MEAN 2.44 MAX 8.31 MIN -9.12



NASSAU COUNTY—Continued

404019073384601. Local number, N13372.1

LOCATION.--Lat 40°40'19", long 73°38'46", Hydrologic Unit 02030202, at Hempstead Lake State Park, northwest corner of Lake Shore Drive and Peninsula Boulevard, Lakeview. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 33.6 ft, screened 23.6 to 33.6 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

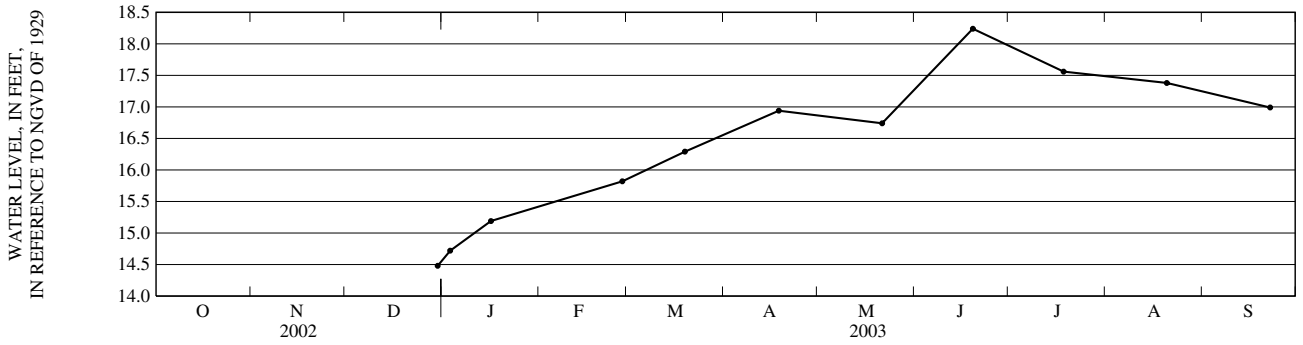
DATUM.--Land-surface datum is 36.3 ft above sea level. Measuring point: Top of casing, 0.26 ft below land-surface datum.

PERIOD OF RECORD.--December 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.24 ft above sea level, June 19, 2003; lowest measured, 14.48 ft above sea level, December 30, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 30	14.48	JAN 16	15.19	MAR 19	16.29	MAY 21	16.74	JUL 18	17.56	SEP 22	16.99
JAN 03	14.72	FEB 27	15.82	APR 18	16.94	JUN 19	18.24	AUG 20	17.38		



404050073384001. Local number, N13373.1

LOCATION.--Lat 40°40'50", long 73°38'40", Hydrologic Unit 02030202, at Hempstead Lake State Park, east side of Lake Shore Drive, 71 ft north of entrance to parking field 1, Lakeview. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 44.8 ft, screened 34.8 to 44.8 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

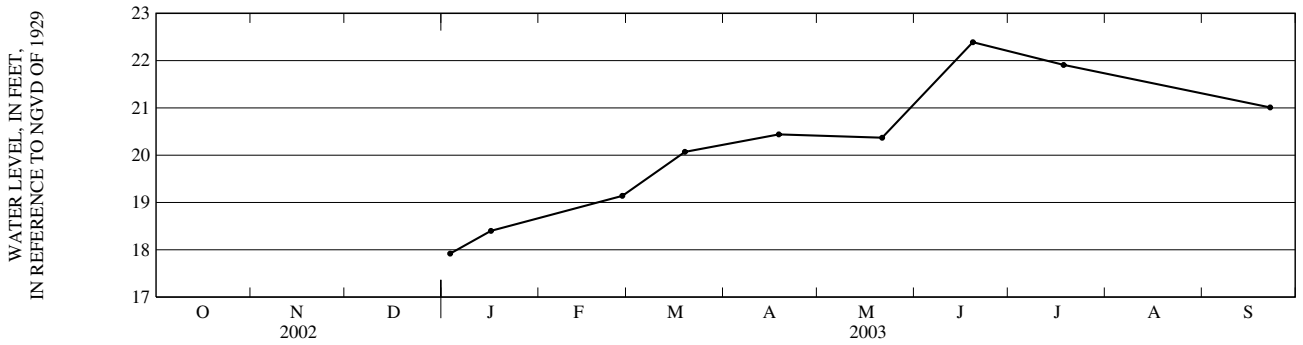
DATUM.--Land-surface datum is 45.2 ft above sea level. Measuring point: Top of casing, 0.36 ft below land-surface datum.

PERIOD OF RECORD.--December 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.39 ft above sea level, June 19, 2003; lowest measured, 17.92 ft above sea level, January 3, 2003.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 03	17.92	FEB 27	19.14	APR 18	20.44	JUN 19	22.39	SEP 22	21.01		
16	18.40	MAR 19	20.07	MAY 21	20.37	JUL 18	21.91				



NASSAU COUNTY—Continued

404119073380201. Local number, N13374.1

LOCATION.--Lat 40°41'19", long 73°38'02", Hydrologic Unit 02030202, at west side of Peninsula Boulevard, 185 ft north of Southern State Parkway exit ramp, Lakeview. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 45 ft, screened 35 to 45 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

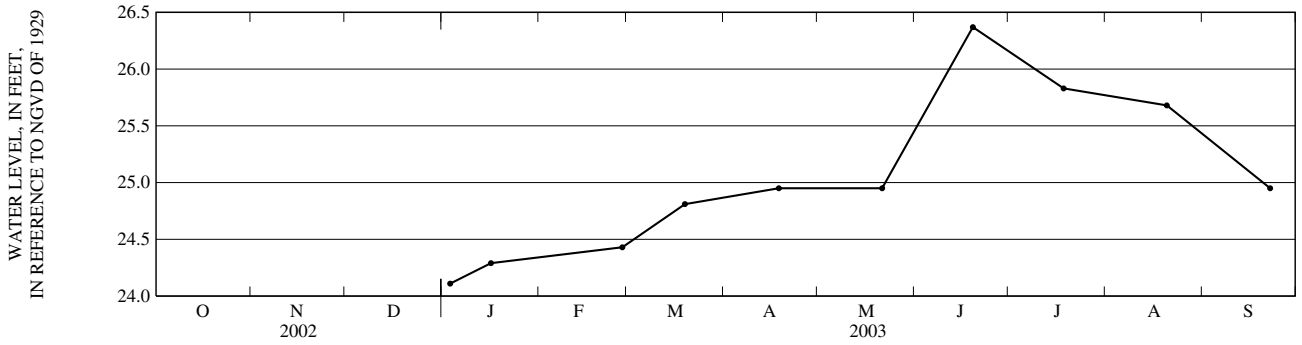
DATUM.--Land-surface datum is 48.0 ft above sea level. Measuring point: Top of casing, 0.55 ft below land-surface datum.

PERIOD OF RECORD.--December 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.37 ft above sea level, June 19, 2003; lowest measured, 24.11 ft above sea level, January 3, 2003.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 03	24.11	FEB 27	24.43	APR 18	24.95	JUN 19	26.37	AUG 20	25.68		
16	24.29	MAR 19	24.81	MAY 21	24.95	JUL 18	25.83	SEP 22	24.95		



QUEENS COUNTY

404451073475003. Local number, Q283.2

LOCATION.--Lat 40°44'50", long 73°47'50", Hydrologic Unit 02030201, at City of New York storage facility, 50 ft south of Underhill Avenue, west of Fresh Meadow Lane, easternmost well, Flushing. Owner: City of New York.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel abandoned public supply well, diameter 26 in., depth 409 ft, screened 309 to 352 ft and 367 to 409 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

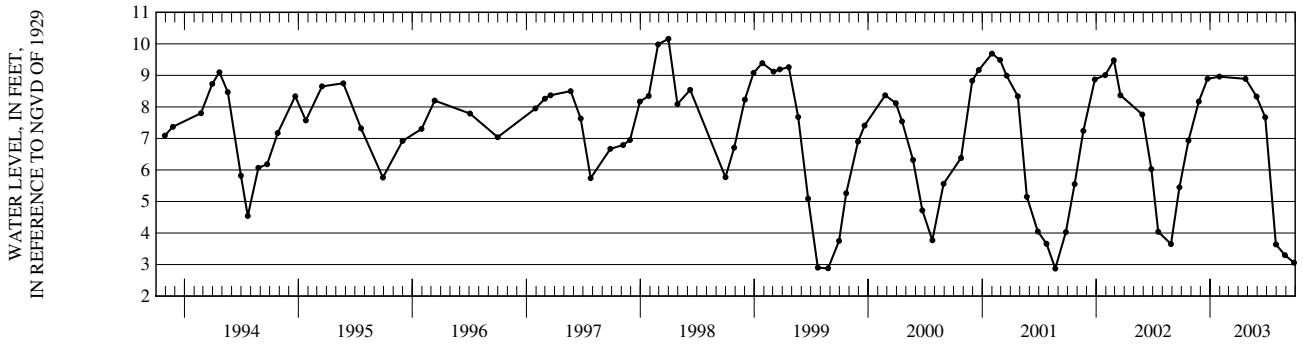
DATUM.--Land-surface datum is 27.0 ft above sea level. Measuring point: Top of hole cut in welded steel plate, 0.37 ft above land-surface datum.

PERIOD OF RECORD--June 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.16 ft above sea level, March 31, 1998; lowest measured, 27.40 ft below sea level, September 14, 1976.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	6.93	DEC 23	8.89	APR 24	8.89	JUN 26	7.67	AUG 28	3.30		
NOV 25	8.17	JAN 30	8.96	MAY 29	8.33	JUL 30	3.64	SEP 26	3.06		



403624073491601. Local number, Q287.1

LOCATION.--Lat 40°36'24", long 73°49'16", Hydrologic Unit 02030202, at Broad Channel School, west side of Shad Creek Road, 131 ft south of 9th Road, Broad Channel. Owner: City of New York.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel abandoned public supply well, diameter 8 in., depth 725 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 8.5 ft above sea level. Measuring point: Top of 8-in to 4-in steel reducer bushing, 0.52 ft below land-surface datum.

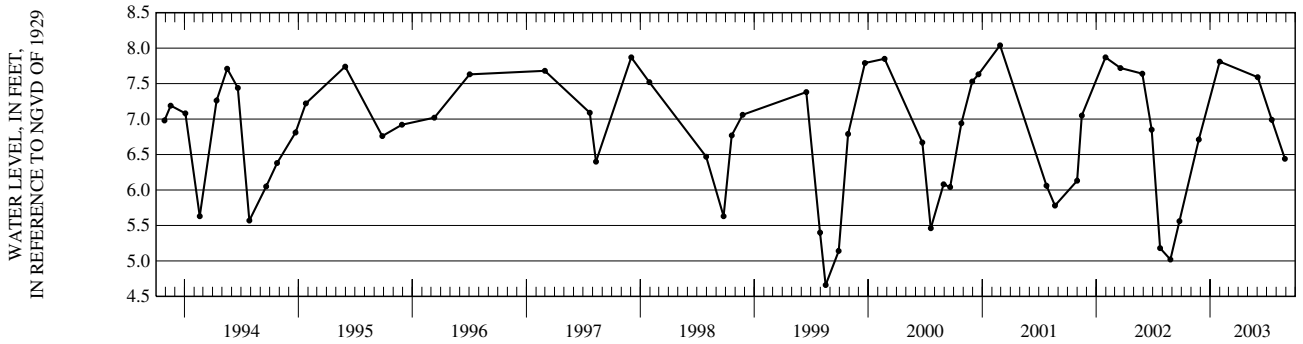
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--January 1944 to current year. Unpublished records from January 1944 to September 1987 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.79 ft above sea level, January 1, 1945; lowest measured, 0.96 ft below sea level, September 5, 1969.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 25	6.71	JAN 31	7.81	JUN 02	7.59	JUL 17	6.99	AUG 28	6.44



QUEENS COUNTY—Continued

404418073434101. Local number, Q577.1

LOCATION.--Lat 40°44'18", long 73°43'41", Hydrologic Unit 02030201, at Creedmoor State Hospital, near the intersection of Hillside Avenue and Cross Island Parkway, in recorder shelter, Bellerose. Owner: State of New York.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 12 in., depth 640 ft, screen assumed at bottom.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 113.5 ft above sea level. Measuring point: Top of casing, 0.22 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

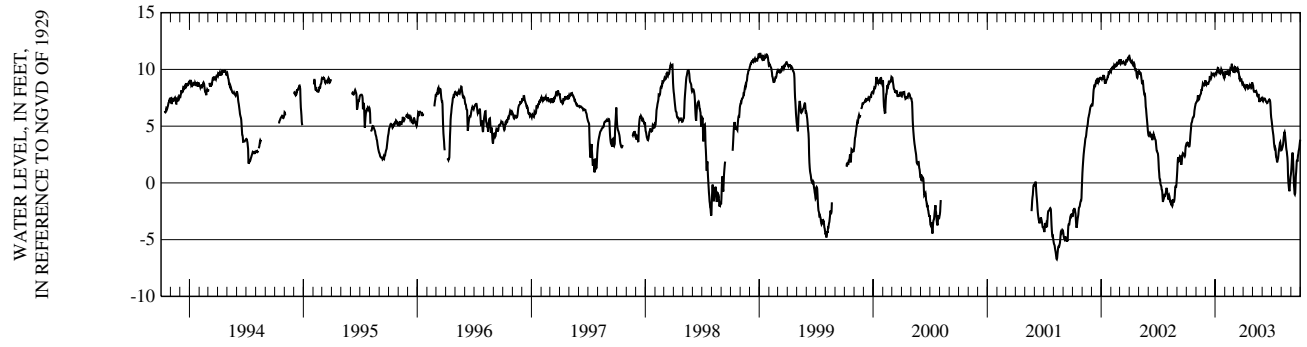
PERIOD OF RECORD.--February 1946 to current year. Unpublished records from February 1946 to September 1975 are available in files of the Long Island Subdistrict office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 14.34 ft above sea level, January 14, 1992; lowest measured, 18.66 ft below sea level, July 30, 1954.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.45	7.36	8.74	9.66	9.69	10.27	8.50	8.06	7.42	4.40	3.25	2.59
10	3.22	7.37	8.78	10.13	9.90	9.96	8.48	8.03	7.33	3.11	4.43	-0.16
15	4.78	7.83	9.32	9.65	9.66	9.99	8.56	7.73	7.11	2.25	3.49	-0.16
20	5.65	8.42	9.63	10.02	9.99	9.12	8.42	7.69	7.20	2.04	2.24	2.03
25	6.01	8.63	9.69	9.59	9.93	9.01	8.44	7.30	7.29	3.07	-0.52	2.79
EOM	7.03	9.04	9.58	9.33	9.92	8.76	8.75	7.38	5.58	2.87	0.72	3.81
MEAN	4.88	8.00	9.20	9.74	9.85	9.56	8.52	7.78	7.10	3.20	2.27	1.58
MAX	7.03	9.04	9.69	10.14	10.50	10.27	8.85	8.67	7.43	5.38	4.49	3.81
MIN	3.21	7.11	8.68	9.24	9.51	8.76	8.30	7.13	5.58	1.81	-0.73	-1.02

WTR YR 2003 MEAN 6.79 MAX 10.50 MIN -1.02



QUEENS COUNTY—Continued

403958073445801. Local number, Q1187.1

LOCATION.--Lat 40°39'58", long 73°44'58", Hydrologic Unit 02030202, at south side of North Conduit Avenue, 1,775 ft west of 225th Street, in ravine, westernmost well, Rosedale. Owner: City of New York.

AQUIFER.--Jameco (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 8 in., depth 130 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

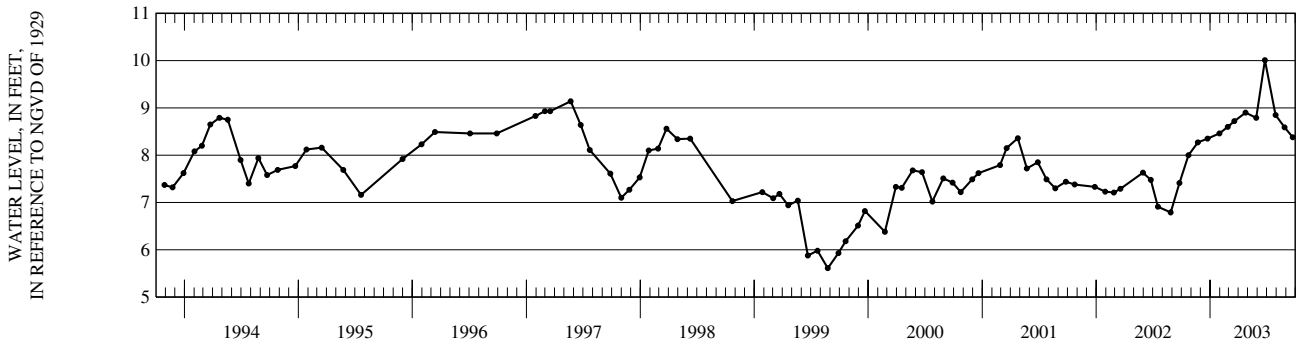
DATUM.--Land-surface datum is 10.0 ft above sea level. Measuring point: Top of small hole in 8-in steel cap, 4.71 ft above land-surface datum.

PERIOD OF RECORD.--November 1968 to current year. Unpublished records from November 1968 to September 1987 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.01 ft above sea level, June 25, 2003; lowest measured, 2.26 ft above sea level, June 22, 1981.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	8.00	DEC 23	8.35	FEB 26	8.60	APR 24	8.90	JUN 25	10.01	AUG 27	8.59
NOV 22	8.27	JAN 30	8.46	MAR 19	8.72	MAY 28	8.79	JUL 29	8.85	SEP 22	8.38



403958073445802. Local number, Q1189.1

LOCATION.--Lat 40°39'58", long 73°44'58", Hydrologic Unit 02030202, at south side of North Conduit Avenue, 1,790 ft west of 225th Street, in ravine, easternmost well, Rosedale. Owner: City of New York.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 50 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

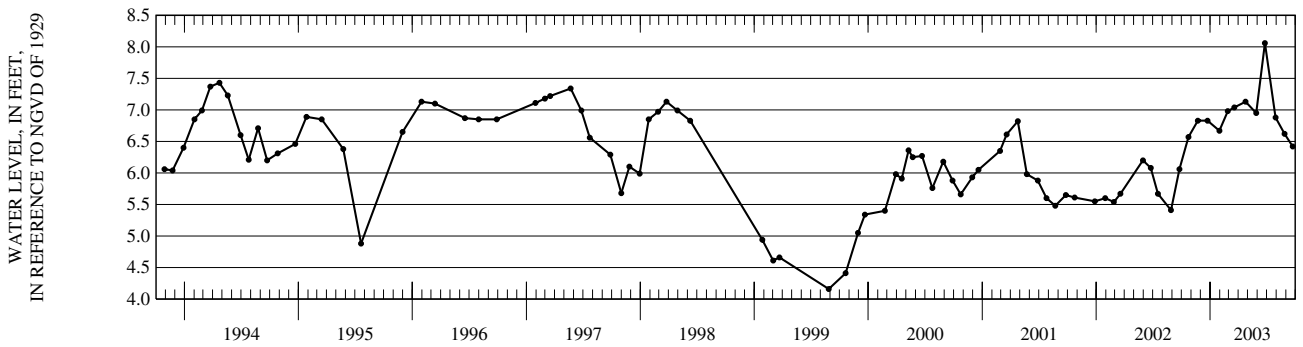
DATUM.--Land-surface datum is 13.0 ft above sea level. Measuring point: Top of coupling, 14.76 ft above land-surface datum.

PERIOD OF RECORD.--November 1968 to current year. Unpublished records from November 1968 to September 1987 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.06 ft above sea level, June 25, 2003; lowest measured, 1.86 ft above sea level, December 15, 1981.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	6.57	DEC 23	6.83	FEB 26	6.98	APR 24	7.13	JUN 25	8.06	AUG 27	6.62
NOV 22	6.83	JAN 30	6.67	MAR 19	7.04	MAY 28	6.95	JUL 29	6.88	SEP 22	6.42



QUEENS COUNTY—Continued

404241073443301. Local number, Q1249.2

LOCATION.--Lat 40°42'41", long 73°44'33", Hydrologic Unit 02030202, at east side of 216th Street, 85 ft north of 106th Avenue, Queens Village. Owner: City of New York.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 80 ft, screened 70 to 75 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 75.5 ft above sea level. Measuring point: Top of casing, 0.11 ft below land-surface datum.

REMARKS.--Replaced well Q1249.1 in August 1999 near same location.

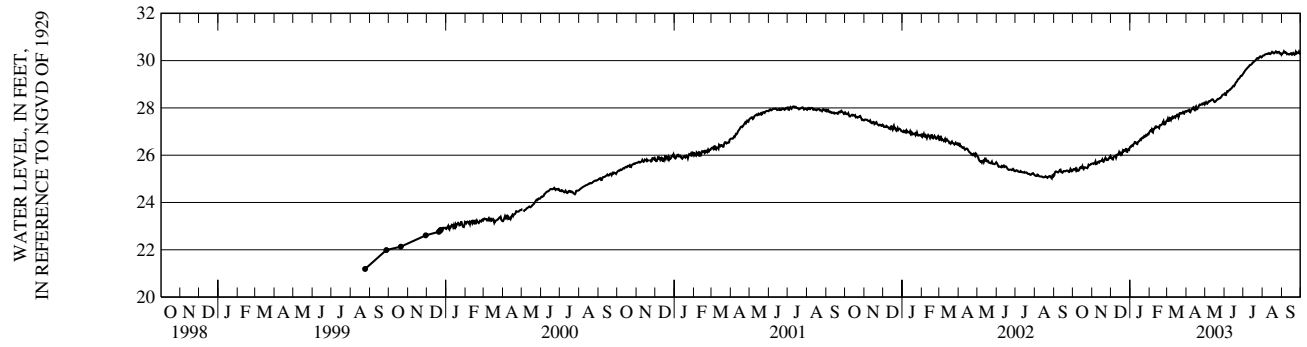
PERIOD OF RECORD.--August 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.41 ft above sea level, August 22 and September 4, 2003; lowest measured, 21.19 ft above sea level, August 24, 1999.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.42	25.66	25.93	26.40	26.99	27.57	27.92	28.21	28.70	29.62	30.26	30.36
10	25.35	25.71	25.98	26.53	27.20	27.56	27.95	28.32	28.77	29.76	30.30	30.29
15	25.49	25.76	26.08	26.60	27.18	27.64	28.02	28.27	28.93	29.88	30.34	30.31
20	25.49	25.77	26.20	26.74	27.29	27.69	28.05	28.35	29.10	30.00	30.33	30.29
25	25.50	25.80	26.30	26.80	27.30	27.79	28.14	28.41	29.27	30.08	30.35	30.33
EOM	25.64	25.97	26.33	26.95	27.46	27.86	28.15	28.58	29.42	30.17	30.25	30.26
MEAN	25.47	25.76	26.07	26.64	27.21	27.66	28.01	28.35	28.97	29.89	30.30	30.31
MAX	25.64	25.97	26.33	26.95	27.46	27.86	28.20	28.58	29.42	30.18	30.39	30.40
MIN	25.34	25.62	25.82	26.36	26.96	27.45	27.82	28.17	28.54	29.46	30.20	30.25

WTR YR 2003 MEAN 27.89 MAX 30.40 MIN 25.34



404547073524401. Local number, Q1326.1

LOCATION.--Lat 40°45'47", long 73°52'44", Hydrologic Unit 02030201, at west side of 91st Street, 145 ft south of Astoria Boulevard, Jackson Heights. Owner: Fair Operating Company

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven steel diffusion well, diameter 6 in., depth 72 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

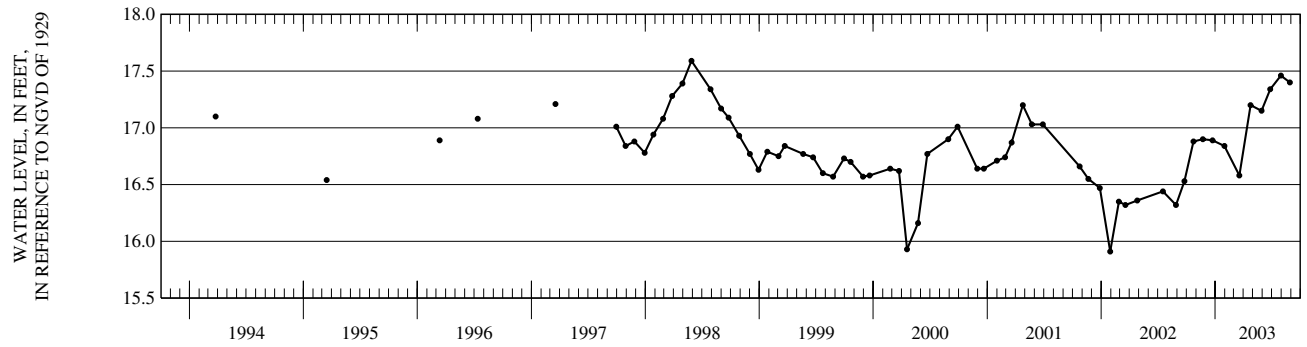
DATUM.--Land-surface datum is 27.0 ft above sea level. Measuring point: Top of hole in 6-in steel cap, 0.44 ft above land- surface datum.

PERIOD OF RECORD.--July 1950 to March 1984 and June 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.06 ft above sea level, March 22, 1983; lowest measured, 14.50 ft above sea level, April 19, 1966.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	16.88	DEC 23	16.89	MAR 19	16.58	MAY 29	17.15	JUL 30	17.46		
NOV 22	16.90	JAN 30	16.84	APR 24	17.20	JUN 26	17.34	AUG 28	17.40		



QUEENS COUNTY—Continued

404303073481601. Local number, Q1812.1

LOCATION.--Lat 40°43'03", long 73°48'16", Hydrologic Unit 02030202, at west side of 164th Street, 670 ft south of Goethals Avenue, at Queens General Hospital, Jamaica. Owner: Queens General Hospital.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled unused steel diffusion well, diameter 12 in., depth 250 ft, screened 195 to 245 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

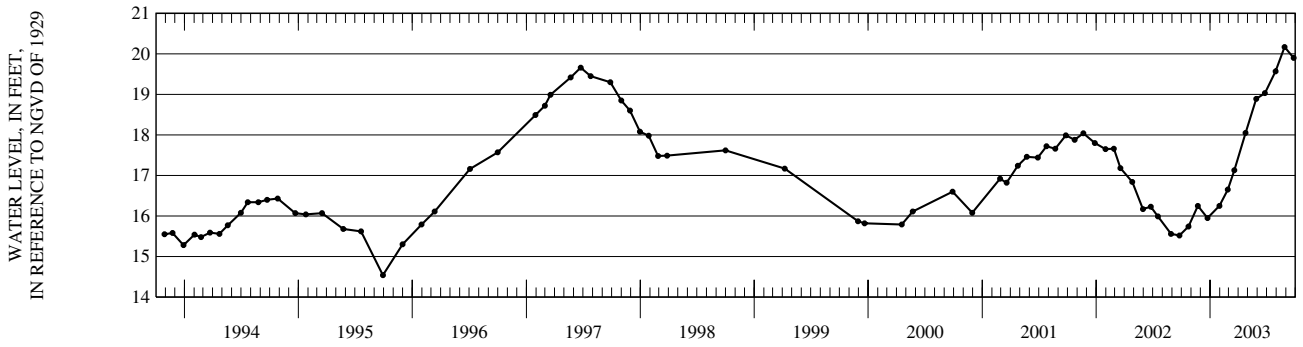
DATUM.--Land-surface datum is 115.4 ft above sea level. Measuring point: Top of coupling at end of 2-in steel extension, 0.93 ft below land-surface datum.

PERIOD OF RECORD.--January 1982 to current year. Unpublished records from January 1982 to September 1987 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.17 ft above sea level, August 27, 2003; lowest measured, 12.80 ft below sea level, December 17, 1984.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	15.74	DEC 23	15.95	FEB 26	16.65	APR 24	18.05	JUN 25	19.03	AUG 27	20.17
NOV 22	16.25	JAN 30	16.25	MAR 19	17.13	MAY 28	18.89	JUL 29	19.57	SEP 25	19.90



403957073495001. Local number, Q2324.1

LOCATION.--Lat 40°39'57", long 73°49'50", Hydrologic Unit 02030202, at north side of North Conduit Avenue, 66 ft east of entrance to Aqueduct Race Track, South Ozone Park. Owner: New York Racing Association.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 $\frac{1}{2}$ in., depth 91 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

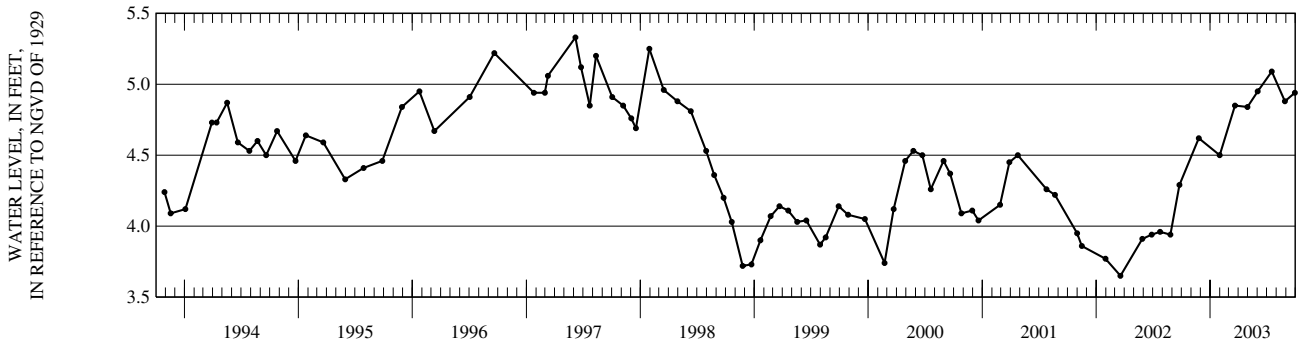
DATUM.--Land-surface datum is 22.0 ft above sea level. Measuring point: Top of coupling, 0.04 ft above land-surface datum.

PERIOD OF RECORD.--March 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.33 ft above sea level, June 6, 1997; lowest measured, 3.40 ft below sea level, May 25, 1959.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 25	4.62	MAR 21	4.85	JUN 02	4.95	AUG 28	4.88				
JAN 31	4.50	APR 30	4.84	JUL 17	5.09	SEP 29	4.94				



QUEENS COUNTY—Continued

404451073475002. Local number, Q2346.1

LOCATION.--Lat 40°44'51", long 73°47'50", Hydrologic Unit 02030201, at City of New York storage facility, 55 ft south of Underhill Avenue, west of Fresh Meadow Lane, westernmost well, Flushing. Owner: City of New York.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 $\frac{1}{4}$ in., depth 17 ft, screened 12 to 17 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

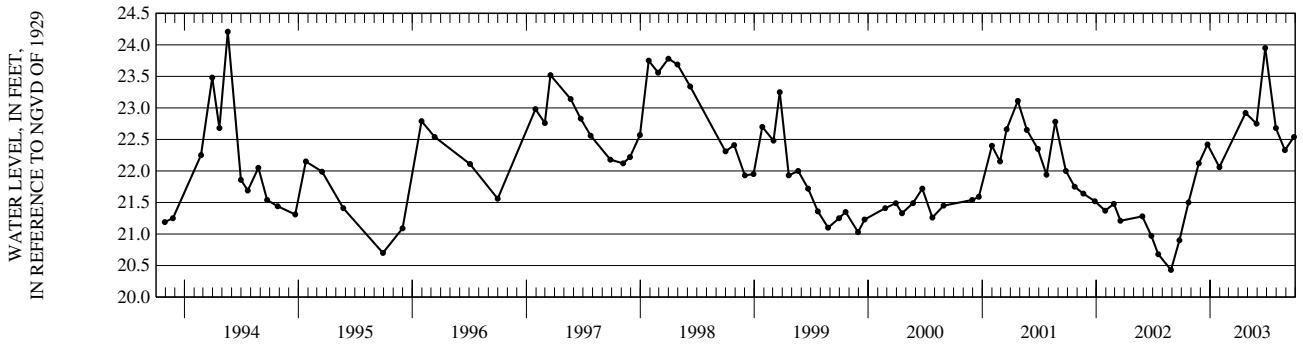
DATUM.--Land-surface datum is 29.0 ft above sea level. Measuring point: Top of steel casing, 0.98 ft above land-surface datum.

PERIOD OF RECORD.--August 1960 to current year. Unpublished records from August 1960 to September 1975 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.21 ft above sea level, May 19, 1994; lowest measured, 13.18 ft above sea level, February 25, 1983.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	21.50	DEC 23	22.42	APR 24	22.92	JUN 26	23.95	AUG 28	22.33		
NOV 25	22.12	JAN 30	22.06	MAY 29	22.75	JUL 30	22.68	SEP 26	22.54		



QUEENS COUNTY—Continued

404025073463801. Local number, Q2422.1

LOCATION.--Lat 40°40'25", long 73°46'38", Hydrologic Unit 02030202, at south side of 132nd Street, 140 ft west of Guy R. Brewer Boulevard, in pumping station, Springfield Gardens. Owner: City of New York.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 8 in. to 6 in., depth 370 ft, screened 342 to 362 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 21.0 ft above sea level. Measuring point: Top of casing, 1.21 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping

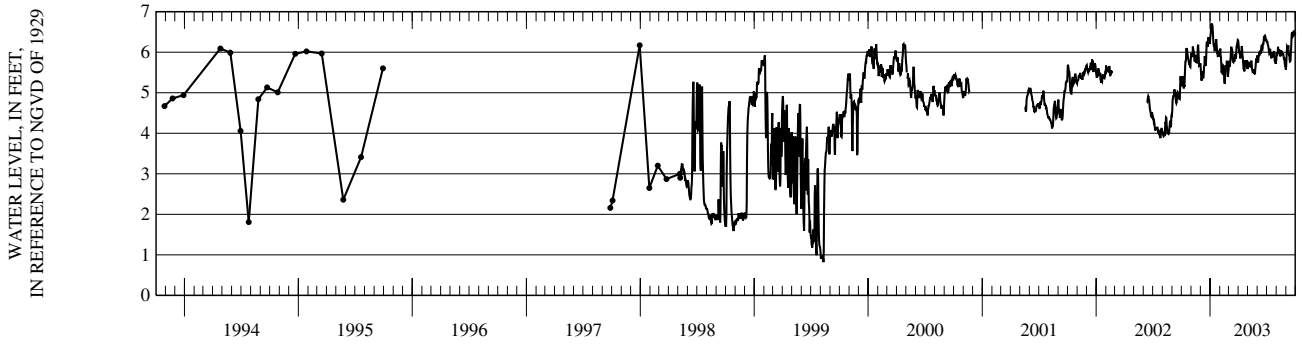
PERIOD OF RECORD.--March 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.72 ft above sea level, January 4, 2003; lowest measured, 5.65 ft below sea level, September 9, 1983.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.41	5.92	5.38	6.65	5.72	5.71	6.02	5.68	5.91	6.17	6.00	6.13
10	5.14	5.92	5.39	6.35	5.48	6.09	5.98	5.63	5.97	5.98	6.06	5.96
15	5.81	5.86	5.84	6.02	5.33	5.76	5.87	5.59	6.19	5.85	5.91	5.80
20	5.95	5.78	6.19	6.32	5.60	5.84	5.53	5.49	6.21	5.90	5.97	6.50
25	5.69	5.84	6.32	5.96	5.47	5.95	5.69	5.58	6.41	5.95	5.84	6.45
EOM	5.90	5.73	6.28	5.93	5.53	6.30	5.58	5.82	6.29	5.79	5.57	6.47
MEAN	5.62	5.89	5.84	6.23	5.60	5.93	5.84	5.65	6.12	5.98	5.92	6.17
MAX	6.10	6.18	6.37	6.70	6.09	6.30	6.22	5.85	6.41	6.26	6.13	6.53
MIN	5.11	5.65	5.30	5.89	5.23	5.61	5.53	5.46	5.75	5.72	5.57	5.65

WTR YR 2003 MEAN 5.90 MAX 6.70 MIN 5.11



QUEENS COUNTY—Continued

403940073443601. Local number, Q2994.1

LOCATION.--Lat 40°39'40", long 73°44'36", Hydrologic Unit 02030202, at west side of Brookville Boulevard, between 145th Avenue and Mayda Road, 67 ft west of blacktop walkway in park, southernmost well, Rosedale. Owner: New York City.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 in., depth 66 ft, screened 10 to 66 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 10.0 ft above sea level. Measuring point: Top of casing, 0.22 ft below land-surface datum.

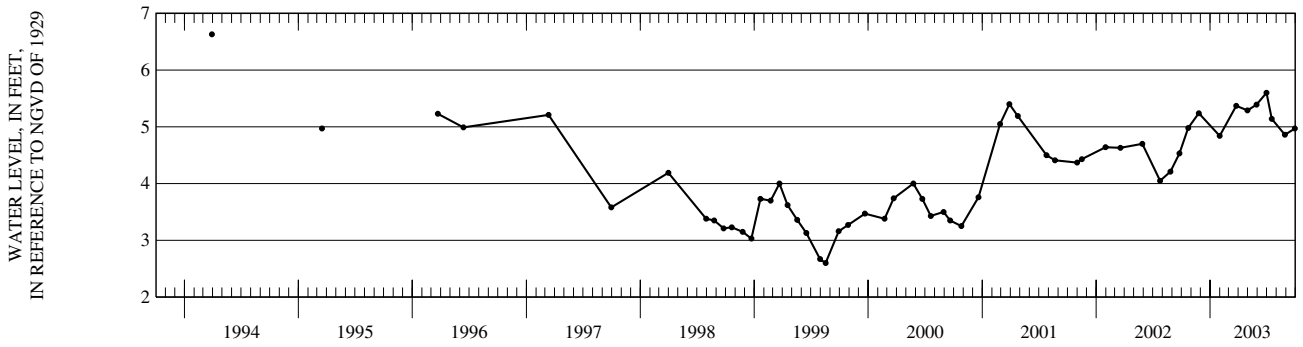
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--November 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.63 ft above sea level, March 29, 1994; lowest measured, 2.23 ft above sea level, December 20, 1982.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	4.98	JAN 31	4.84	APR 30	5.29	JUN 30	5.60	AUG 28	4.86		
NOV 25	5.24	MAR 25	5.37	MAY 29	5.39	JUL 17	5.14	SEP 29	4.97		



403939073443501. Local number, Q2994.2

LOCATION.--Lat 40°39'39", long 73°44'35", Hydrologic Unit 02030202, at east side of Brookville Park, west side of Brookville Boulevard, between 145th Avenue and Mayda Road, Rosedale. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 25 ft, screened 15 to 20 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 13.0 ft above sea level. Measuring point: Top of casing, 0.30 ft below land-surface datum.

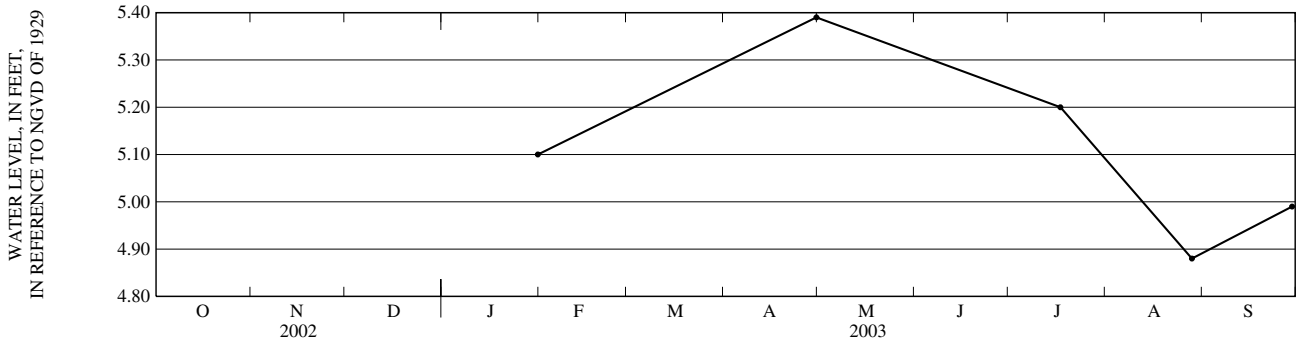
REMARKS.--Replaced well Q2994.1 in December 2002 near same location. Water level affected by tidal fluctuation.

PERIOD OF RECORD.--December 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.39 ft above sea level, April 30, 2003; lowest measured, 4.88 ft above sea level, August 28, 2003.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 31	5.10	APR 30	5.39	JUL 17	5.20	AUG 28	4.88	SEP 29	4.99



QUEENS COUNTY—Continued

403940073443501. Local number, Q2995.1

LOCATION.--Lat 40°39'40", long 73°44'35", Hydrologic Unit 02030202, at west side of Brookville Boulevard, between 145th Avenue and Mayda Road, 54 ft west of blacktop walkway in park, northernmost well, Rosedale. Owner: New York City.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 4 in., depth 100 ft, screened 10 to 83 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 11.0 ft above sea level. Measuring point: Top of casing, 0.90 ft below land-surface datum.

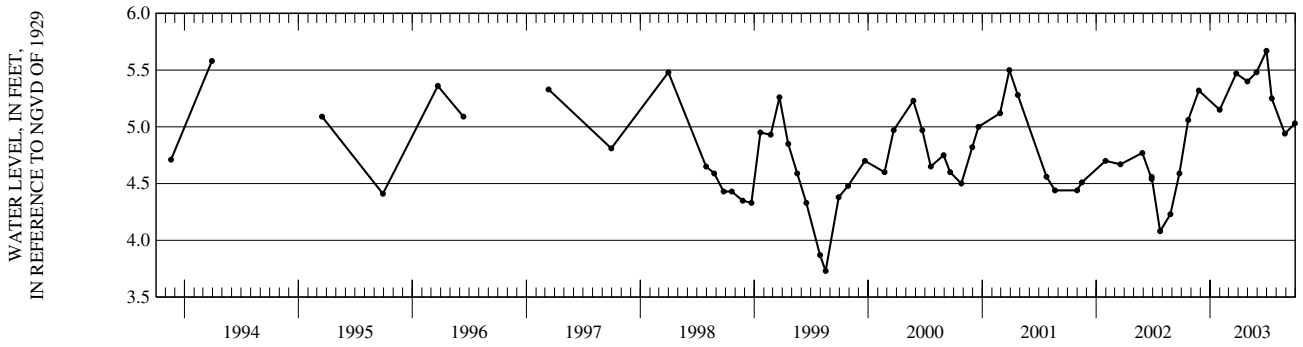
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--November 1968 to October 1985 and June 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.29 ft above sea level, October 3, 1978; lowest measured, 2.43 ft above sea level, September 21, 1982.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	5.06	JAN 31	5.15	APR 30	5.40	JUN 30	5.67	AUG 28	4.94		
NOV 25	5.32	MAR 25	5.47	MAY 29	5.48	JUL 17	5.25	SEP 29	5.03		



403932073482901. Local number, Q3109.1

LOCATION.--Lat 40°39'32", long 73°48'29", Hydrologic Unit 02030202, at John F. Kennedy International Airport, in grassy area at Federal Circle, 160 ft west of Federal Circle Loop Road, near Bergan Road split, just east of Van Wyck Expressway, northernmost well, South Ozone Park. Owner: New York Port Authority.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 400 ft, screened 290 to 310 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 22.7 ft above sea level. Measuring point: Top of coupling, 1.30 ft below land-surface datum.

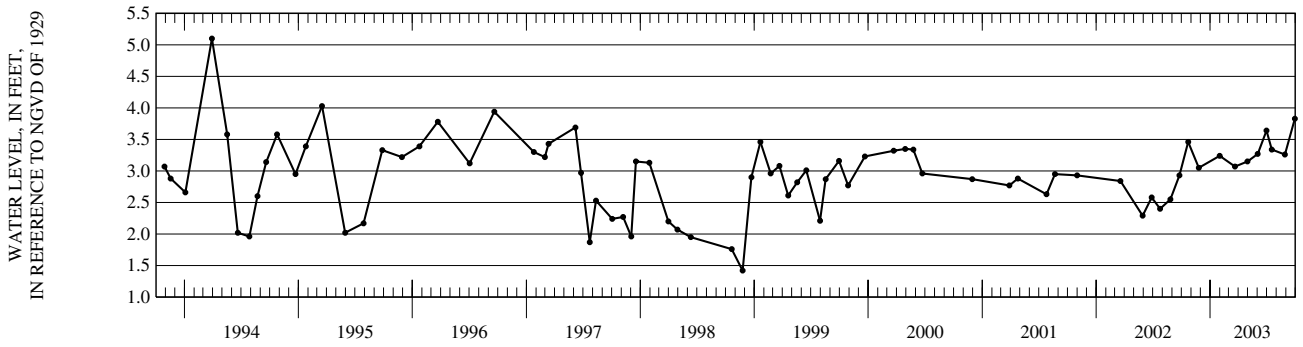
REMARKS.--Water level affected by tidal fluctuation and local dewatering.

PERIOD OF RECORD.--December 1981 to current year. Unpublished records from December 1981 to September 1987 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.10 ft above sea level, March 29, 1994; lowest measured, 1.32 ft below sea level, September 26, 1983.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	3.46	JAN 31	3.24	APR 30	3.15	JUN 30	3.64	AUG 28	3.26		
NOV 25	3.05	MAR 21	3.07	JUN 02	3.27	JUL 17	3.34	SEP 29	3.83		



QUEENS COUNTY—Continued

403845073475701. Local number, Q3110.1

LOCATION.--Lat 40°38'45", long 73°47'57", Hydrologic Unit 02030202, at John F. Kennedy International Airport, east side of North Service Road, north of intersection with Van Wyck Expressway, easternmost well. Owner: New York Port Authority.

AQUIFER.--Jameco (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 356 ft, screened 306 to 326 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 10.0 ft above sea level. Measuring point: Top of coupling, 0.53 ft below land-surface datum.

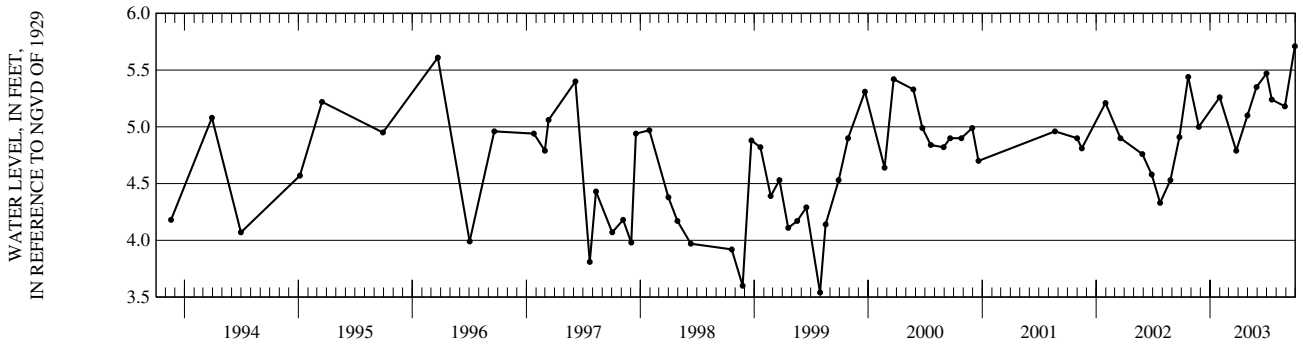
REMARKS.--Water level affected by tidal fluctuation and local dewatering.

PERIOD OF RECORD.--December 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.01 ft above sea level, March 22, 1991; lowest measured, 0.20 ft above sea level, September 26, 1983.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	5.44	JAN 31	5.26	APR 30	5.10	JUN 30	5.47	AUG 28	5.18		
NOV 25	5.00	MAR 25	4.79	MAY 29	5.35	JUL 17	5.24	SEP 29	5.71		



403939073472801. Local number, Q3112.1

LOCATION.--Lat 40°39'39", long 73°47'28", Hydrologic Unit 02030202, at John F. Kennedy International Airport, east side of North Boundary Road, south of 150th Avenue, southernmost well. Owner: New York Port Authority.

AQUIFER.--Jameco (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 305 ft, screened 290 to 300 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 11.3 ft above sea level. Measuring point: Top of coupling, 0.35 ft below land-surface datum.

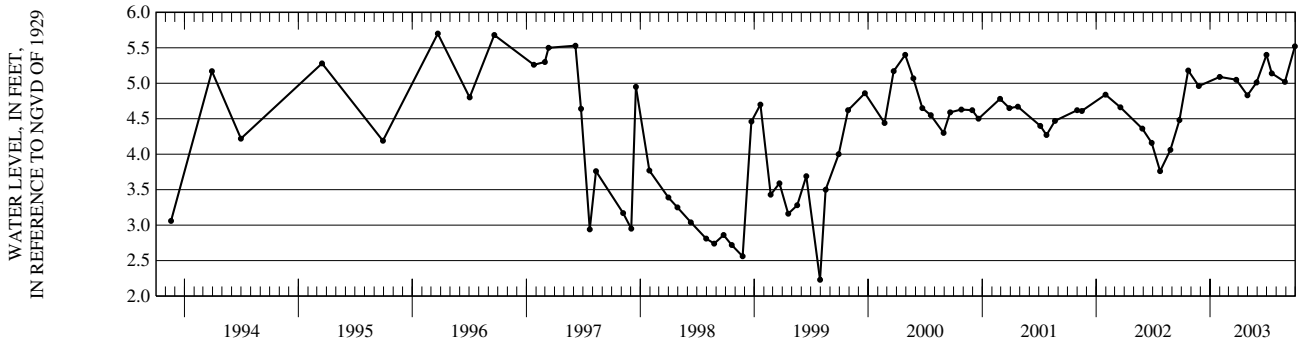
REMARKS.--Water level affected by tidal fluctuation and local dewatering.

PERIOD OF RECORD.--December 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.70 ft above sea level, March 22, 1996; lowest measured, 1.78 ft below sea level, September 26, 1983.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	5.18	JAN 31	5.09	APR 30	4.83	JUN 30	5.40	AUG 28	5.02		
NOV 25	4.96	MAR 25	5.05	MAY 29	5.01	JUL 17	5.14	SEP 29	5.52		



QUEENS COUNTY—Continued

403932073482902. Local number, Q3114.1

LOCATION.--Lat 40°39'32", long 73°48'29", Hydrologic Unit 02030202, at John F. Kennedy International Airport, in grassy area at Federal Circle, 160 ft west of Federal Circle Loop Road, near Bergan Road split, just east of Van Wyck Expressway, southernmost well, South Ozone Park. Owner: New York Port Authority.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 31 ft, screened 29 to 31 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 21.0 ft above sea level. Measuring point: Top of coupling, 0.26 ft above land-surface datum.

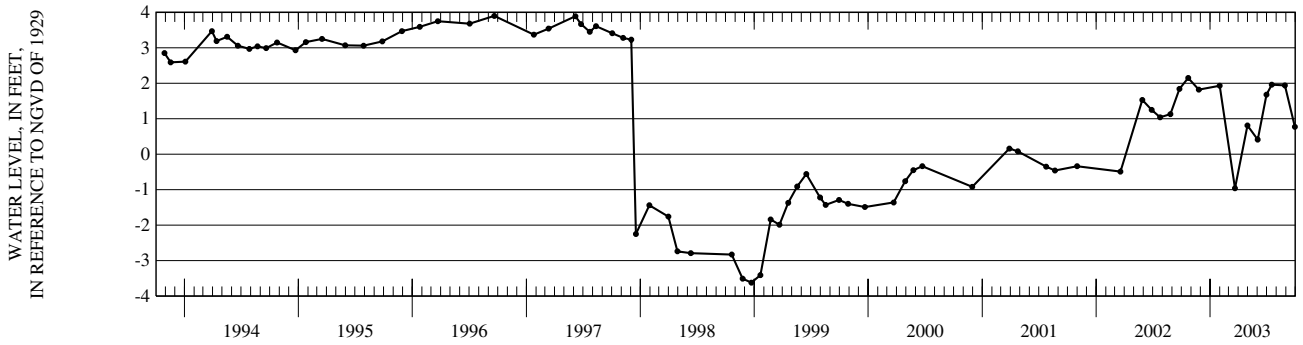
REMARKS.--Water level affected by tidal fluctuation and local dewatering.

PERIOD OF RECORD.--December 1981 to current year. Unpublished records from December 1981 to September 1987 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.30 ft above sea level, April 30, 1984; lowest measured, 3.62 ft below sea level, December 22, 1998.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	2.15	JAN 31	1.93	APR 30	.81	JUN 30	1.68	AUG 28	1.94		
NOV 25	1.82	MAR 21	-.96	JUN 02	.41	JUL 17	1.96	SEP 29	.77		



403845073475702. Local number, Q3115.1

LOCATION.--Lat 40°38'45", long 73°47'57", Hydrologic Unit 02030202, at John F. Kennedy International Airport, east side of North Service Road, north of intersection with Van Wyck Expressway, westernmost well. Owner: New York Port Authority.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 28 ft, screened 25 to 28 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 10.0 ft above sea level. Measuring point: Top of coupling, 0.36 ft below land-surface datum.

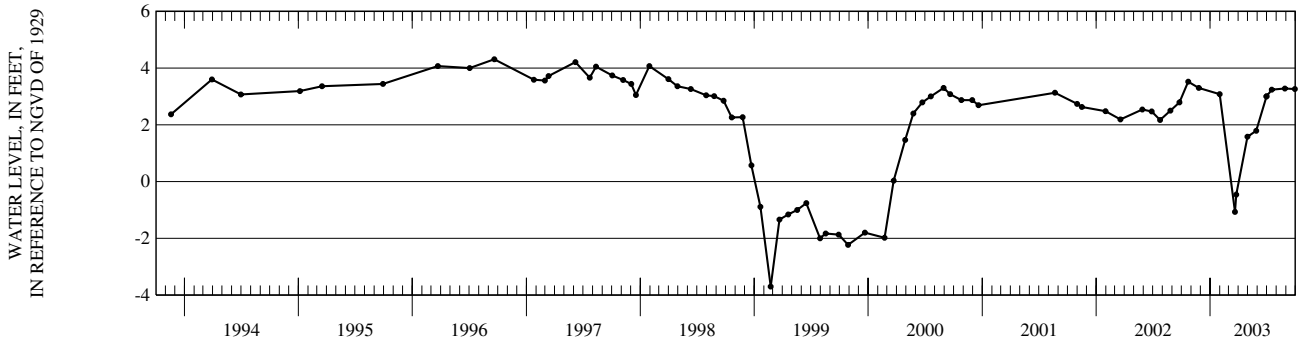
REMARKS.--Water level affected by tidal fluctuation and local dewatering.

PERIOD OF RECORD.--December 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.79 ft above sea level, December 17, 1984; lowest measured, 3.70 ft below sea level, February 22, 1999.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	3.52	JAN 31	3.08	MAR 25	-.46	MAY 28	1.79	JUN 30	3.00	AUG 28	3.28
NOV 25	3.30	MAR 21	-1.07	APR 30	1.58	JUN 30	3.00	JUL 17	3.24	SEP 29	3.26



QUEENS COUNTY—Continued

403939073472802. Local number, Q3117.1

LOCATION.--Lat 40°39'39", long 73°47'28", Hydrologic Unit 02030202, at John F. Kennedy International Airport, east side of North Boundary Road, south of 150th Avenue, southernmost well. Owner: New York Port Authority.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 23 ft, screened 11 to 23 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 12.0 ft above sea level. Measuring point: Top of coupling, 1.00 ft below land-surface datum.

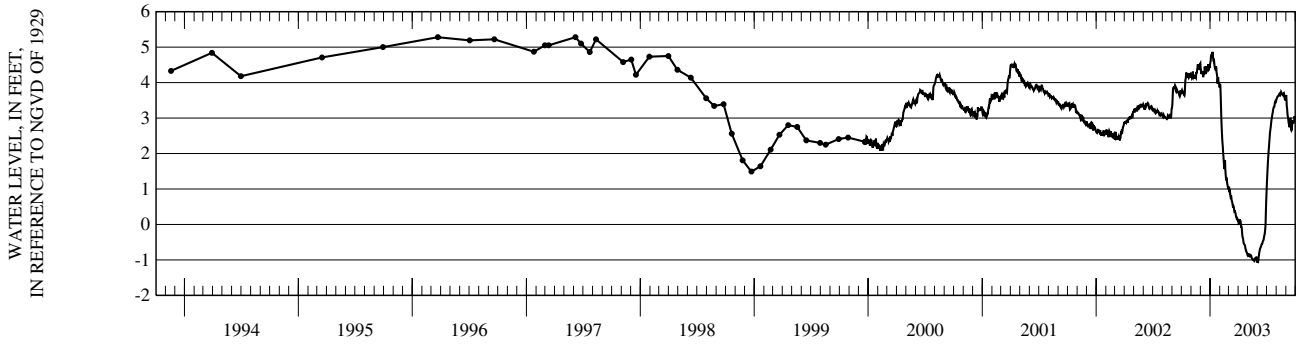
REMARKS.--Water level affected by tidal fluctuation and local dewatering.

PERIOD OF RECORD.--December 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.85 ft above sea level, April 30, 1984; lowest measured, 1.08 ft below sea level, June 3, 2003.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.77	4.15	4.32	4.76	3.07	0.92	0.14	-0.84	-0.91	1.82	3.61	3.14
10	3.64	4.18	4.22	4.68	2.20	0.70	-0.07	-0.89	-0.68	2.44	3.68	2.85
15	4.18	4.16	4.39	4.45	1.56	0.54	-0.37	-0.97	-0.55	2.87	3.69	2.98
20	4.24	4.37	4.45	4.43	1.33	0.38	-0.56	-1.01	-0.45	3.16	3.67	2.79
25	4.15	4.41	4.52	4.06	1.11	0.21	-0.73	-0.97	-0.21	3.32	3.68	2.90
EOM	4.20	4.54	4.51	3.86	1.00	0.11	-0.86	-1.04	0.88	3.49	3.56	3.02
MEAN	4.02	4.28	4.35	4.42	2.01	0.52	-0.35	-0.94	-0.47	2.72	3.63	2.96
MAX	4.28	4.54	4.52	4.87	3.94	1.06	0.14	-0.84	0.88	3.49	3.73	3.65
MIN	3.64	4.11	4.15	3.86	1.00	0.11	-0.86	-1.04	-1.06	1.09	3.52	2.65



404654073465901. Local number, Q3119.1

LOCATION.--Lat 40°46'54", long 73°46'59", Hydrologic Unit 02030201, at south side of 18th Avenue, 44 ft west of 211th Street, Bay Terrace. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 in., depth 40 ft, screened 37 to 40 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 38.2 ft above sea level. Measuring point: Top of coupling, 0.01 ft above land-surface datum.

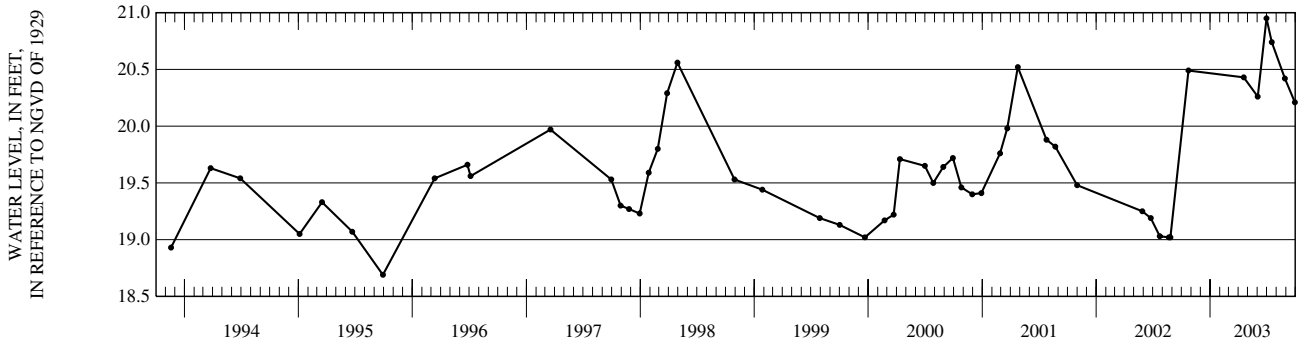
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--September 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.35 ft above sea level, September 26, 1983; lowest measured, 18.06 ft above sea level, October 4, 1982.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	20.49	JUN 02	20.26	JUL 17	20.74	SEP 29	20.21				
APR 18	20.43	30	20.95	AUG 28	20.42						



QUEENS COUNTY—Continued

404613073545802. Local number, Q3121.2

LOCATION.--Lat 40°46'13", long 73°54'58", Hydrologic Unit 02030201, at north side of Astoria Boulevard, 60 ft east of 33rd Street, Astoria. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 50 ft, screened 38.8 to 48.8 ft.

INSTRUMENTATION.--Measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Land-surface datum is 47.0 ft above sea level. Measuring point: Top of casing, 0.17 ft below land-surface datum.

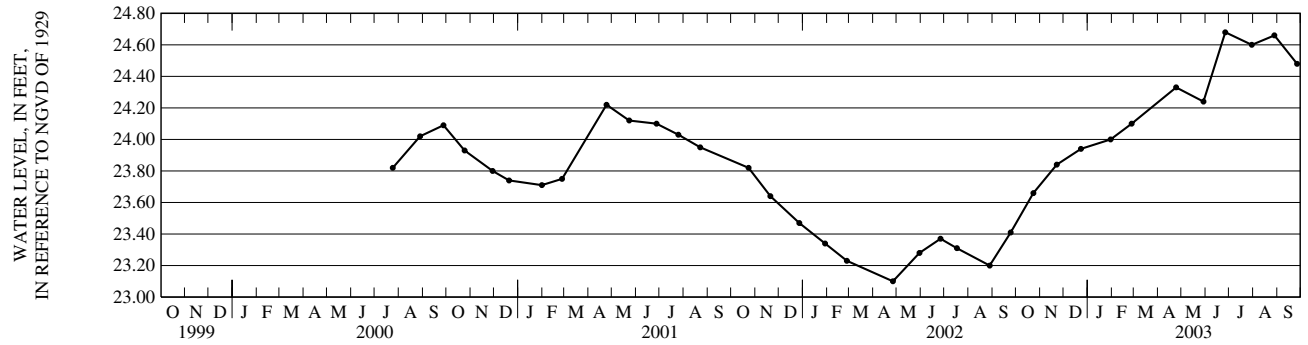
REMARKS.--Replaced well Q3121.1 in June 2000 near same location.

PERIOD OF RECORD.--July 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.68 ft above sea level, June 26, 2003; lowest measured, 23.10 ft above sea level, April 26, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	23.66	DEC 23	23.94	FEB 26	24.10	MAY 29	24.24	JUL 30	24.60	SEP 26	24.48
NOV 22	23.84	JAN 30	24.00	APR 24	24.33	JUN 26	24.68	AUG 28	24.66		



404510073560402. Local number, Q3122.2

LOCATION.--Lat 40°45'10", long 73°56'04", Hydrologic Unit 02030201, at west side of 30th Street, 25 ft south of 39th Avenue, Dutch Kills. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 55 ft, screened 45 to 50 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 43.0 ft above sea level. Measuring point: Top of casing, 0.88 ft below land-surface datum.

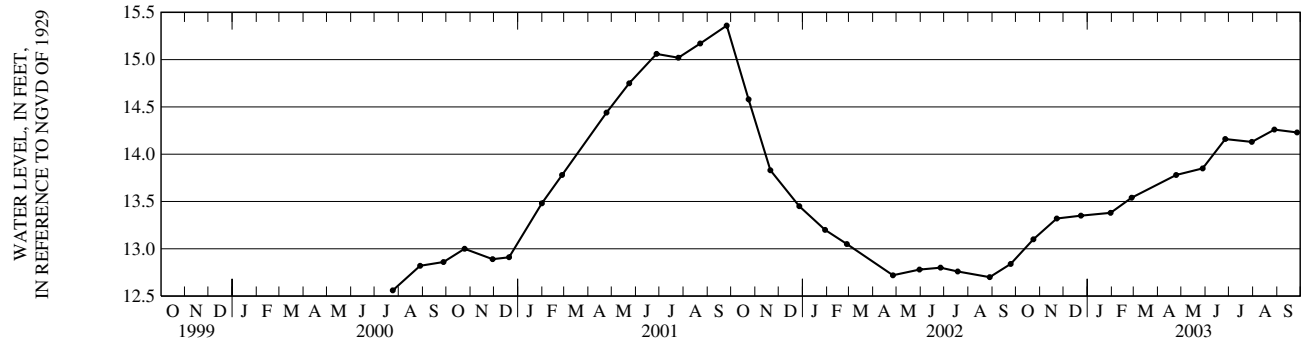
REMARKS.--Replaced well Q3122.1 in June 2000 near same location.

PERIOD OF RECORD.--July 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.36 ft above sea level, September 25, 2001; lowest measured, 12.56 ft above sea level, July 24, 2000.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	13.10	DEC 23	13.35	FEB 26	13.54	MAY 28	13.85	JUL 30	14.13	SEP 26	14.23
NOV 22	13.32	JAN 30	13.38	APR 24	13.78	JUN 26	14.16	AUG 28	14.26		



QUEENS COUNTY—Continued

404112073500901. Local number, Q3160.1

LOCATION.--Lat 40°41'12", long 73°50'09", Hydrologic Unit 02030202, at west side of 108th Street, 196 ft south of 101st Avenue, Woodhaven. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 65 ft, screened 60 to 65 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 45.0 ft above sea level. Measuring point: Top of coupling, 0.22 ft below land-surface datum.

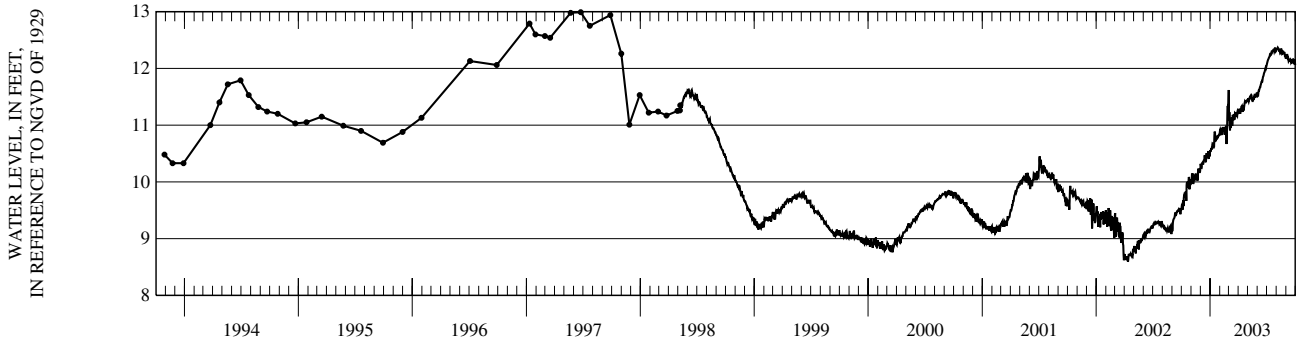
PERIOD OF RECORD.--March 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.99 ft above sea level, June 23, 1997; lowest measured, 6.08 ft above sea level, March 2, 1984.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.51	10.15	10.32	10.57	10.85	10.91	11.29	11.44	11.61	12.15	12.37	12.22
10	9.79	10.05	10.36	10.65	10.97	11.07	11.30	11.50	11.67	12.21	12.32	12.14
15	9.81	10.13	10.42	10.89	10.88	11.12	11.31	11.44	11.77	12.26	12.30	12.16
20	9.92	10.11	10.51	10.78	10.98	11.15	11.35	11.48	11.86	12.30	12.26	12.12
25	10.07	10.17	10.54	10.78	11.33	11.20	11.41	11.51	11.96	12.30	12.27	12.12
EOM	10.0	10.23	10.52	10.86	11.39	11.25	11.41	11.57	12.05	12.31	12.17	12.06
MEAN	9.83	10.10	10.40	10.72	10.97	11.14	11.33	11.49	11.78	12.25	12.29	12.15
MAX	10.09	10.23	10.54	10.89	11.39	11.62	11.45	11.57	12.05	12.36	12.37	12.25
MIN	9.51	9.96	10.25	10.54	10.67	10.91	11.20	11.42	11.51	12.07	12.17	12.06

WTR YR 2003 MEAN 11.20 MAX 12.37 MIN 9.51



QUEENS COUNTY—Continued

404119073463602. Local number, Q3162.2

LOCATION.--Lat 40°41'19", long 73°46'36", Hydrologic Unit 02030202, at 173rd Street and 116th Avenue, Springfield. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 40 ft, screened 30 to 35 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 27.0 ft above sea level. Measuring point: Top of coupling, 0.12 ft below land-surface datum.

REMARKS.--Replaced well Q3162.1 in October 2000 near same location.

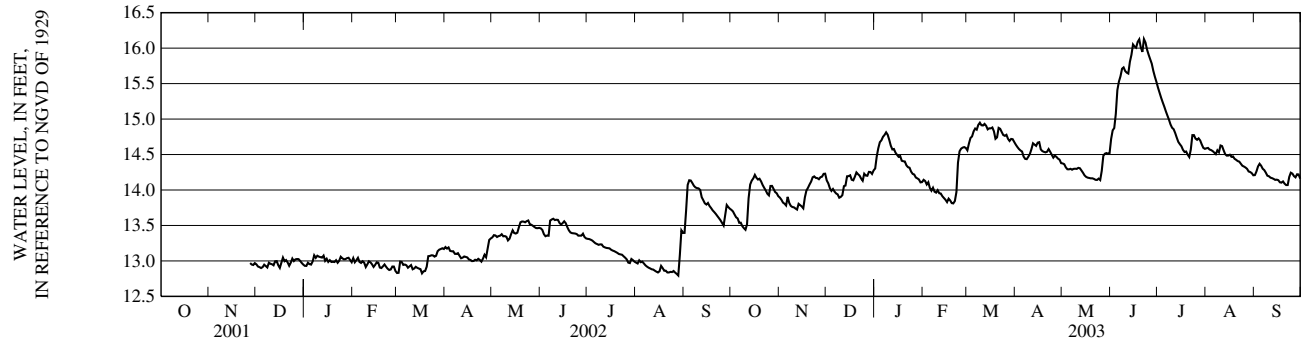
PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.14 ft above sea level, June 18, 19, and 22, 2003; lowest measured, 12.79 ft above sea level, August 28, 2002.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.60	13.78	14.01	14.70	14.03	14.83	14.54	14.29	15.41	15.18	14.55	14.34
10	13.44	13.76	13.90	14.71	14.00	14.91	14.51	14.30	15.68	14.88	14.63	14.19
15	14.16	13.77	14.20	14.50	13.86	14.87	14.67	14.21	16.05	14.65	14.49	14.15
20	14.12	14.08	14.25	14.40	13.81	14.74	14.53	14.16	16.01	14.50	14.43	14.09
25	13.92	14.17	14.23	14.23	14.58	14.76	14.46	14.14	15.91	14.72	14.33	14.23
EOM	13.91	14.23	14.28	14.11	14.59	14.68	14.38	14.52	15.52	14.58	14.21	14.16
MEAN	13.88	13.95	14.12	14.45	14.08	14.80	14.54	14.29	15.70	14.81	14.45	14.20
MAX	14.21	14.23	14.28	14.81	14.61	14.95	14.67	14.52	16.13	15.44	14.63	14.37
MIN	13.44	13.72	13.89	14.11	13.81	14.56	14.38	14.14	14.72	14.46	14.21	14.07

WTR YR 2003 MEAN 14.44 MAX 16.13 MIN 13.44



QUEENS COUNTY—Continued

404226073303201. Local number, Q3163.1

LOCATION.--Lat 40°42'26", long 73°45'33", Hydrologic Unit 02030202, at north side of 109th Avenue, 132 ft west of 200th Street, Saint Albans. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 66 ft, screened 61 to 66 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 50.0 ft above sea level. Measuring point: Top of coupling, 1.06 ft below land-surface datum.

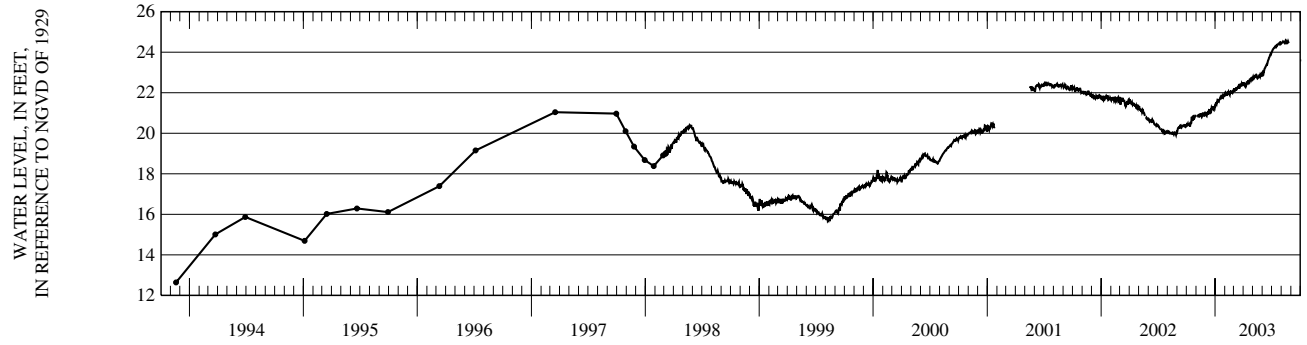
PERIOD OF RECORD.--March 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.57 ft above sea level, August 16, 2003; lowest measured, 5.93 ft below sea level, March 2, 1984.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.46	---	20.96	21.44	21.89	22.22	22.45	22.71	22.99	24.15	24.50	---
10	20.44	20.91	21.01	21.62	22.07	22.17	22.42	22.84	23.24	24.24	24.47	---
15	20.50	20.87	21.10	21.68	21.92	22.26	22.55	22.73	23.41	24.29	24.50	---
20	20.61	20.85	21.25	21.80	22.01	22.30	22.57	22.80	23.62	24.37	24.45	---
25	20.72	20.87	21.34	21.78	21.98	22.39	22.71	22.87	23.83	24.40	---	---
EOM	20.87	21.06	21.36	21.90	22.11	22.44	22.67	22.86	23.97	24.42	---	23.60
MEAN	20.60	20.90	21.11	21.68	22.00	22.28	22.53	22.81	23.44	24.30	24.49	---
MAX	20.87	21.06	21.36	21.90	22.11	22.44	22.71	22.94	23.97	24.49	24.56	---
MIN	20.33	20.82	20.85	21.36	21.85	22.09	22.28	22.69	22.81	24.01	24.43	---

WTR YR 2003 MEAN 22.36 MAX 24.56 MIN 20.33



QUEENS COUNTY—Continued

404143073482701. Local number, Q3165.1

LOCATION.--Lat 40°41'43", long 73°48'27", Hydrologic Unit 02030202, at east side of Liverpool Street, 54 ft north of 101st Avenue, Jamaica. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 65 ft, screened 60 to 65 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 41.6 ft above sea level. Measuring point: Top of coupling, 0.59 ft below land-surface datum.

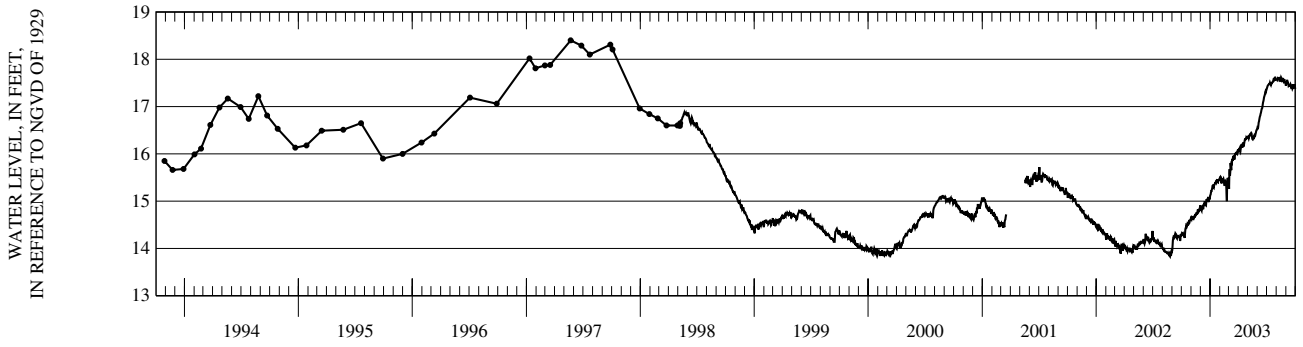
PERIOD OF RECORD.--March 1984 to current year. Unpublished records from March 1984 to September 1987 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.40 ft above sea level, May 22, 1997; lowest measured, 7.28 ft above sea level, March 2, 1984.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.32	14.64	14.87	15.21	15.43	15.54	16.12	16.35	16.66	17.45	17.60	17.54
10	14.24	14.67	14.88	15.32	15.49	15.80	16.14	16.41	16.81	17.48	17.59	17.44
15	14.44	14.71	14.97	15.36	15.36	15.90	16.21	16.33	16.96	17.48	17.58	17.47
20	14.52	14.75	15.04	15.43	15.37	15.93	16.24	16.35	17.11	17.52	17.55	17.40
25	14.53	14.78	15.09	15.41	15.47	16.02	16.31	16.39	17.26	17.56	17.56	17.44
EOM	14.65	14.91	15.10	15.47	15.37	16.08	16.32	16.52	17.36	---	17.44	17.37
MEAN	14.43	14.72	14.95	15.35	15.40	15.85	16.20	16.39	16.97	17.50	17.56	17.45
MAX	14.65	14.91	15.10	15.47	15.52	16.08	16.36	16.52	17.36	17.61	17.61	17.57
MIN	14.22	14.62	14.80	15.13	15.00	15.26	16.04	16.30	16.54	17.38	17.44	17.37

WTR YR 2003 MEAN 16.06 MAX 17.61 MIN 14.22



404138073535102. Local number, Q3587.1

LOCATION.--Lat 40°41'38", long 73°53'51", Hydrologic Unit 02030201, at north side of Cabot Road, 66 ft west of Cypress Avenue, westernmost well, Ridgewood. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 175 ft, screened 160 to 170 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

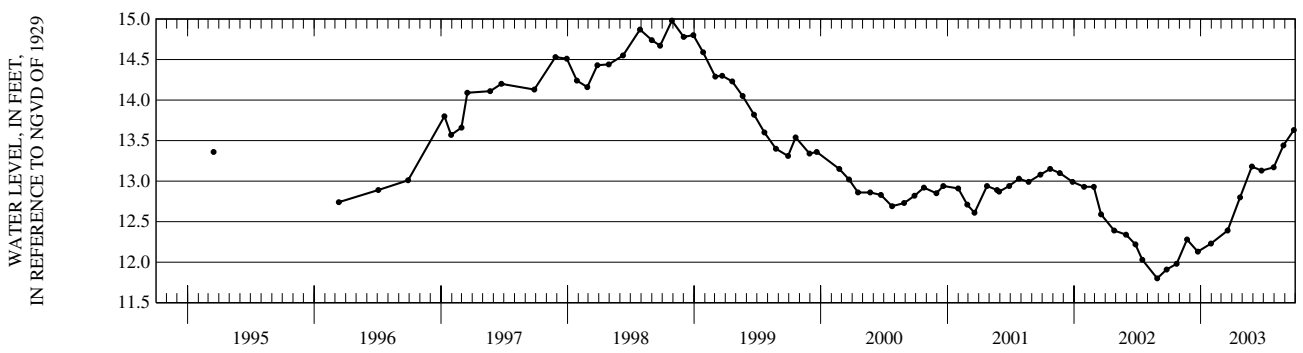
DATUM.--Land-surface datum is 88.1 ft above sea level. Measuring point: Top of casing, 0.07 ft below land-surface datum.

PERIOD OF RECORD.--March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.98 ft above sea level, October 28, 1998; lowest measured, 11.80 ft above sea level, August 28, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	11.98	DEC 23	12.13	MAR 19	12.39	MAY 28	13.18	JUL 30	13.17	SEP 26	13.63
NOV 22	12.28	JAN 30	12.23	APR 24	12.80	JUN 25	13.13	AUG 27	13.44		



QUEENS COUNTY—Continued

404026073472102. Local number, Q3589.1

LOCATION.--Lat 40°40'26", long 73°47'21", Hydrologic Unit 02030202, at east side of Stuphin Boulevard, 226 ft north of Rockaway Boulevard, Springfield Gardens. Owner: United States Geological Survey.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 320 ft, screened 310 to 320 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 22.0 ft above sea level. Measuring point: Top of casing, 0.54 ft below land-surface datum.

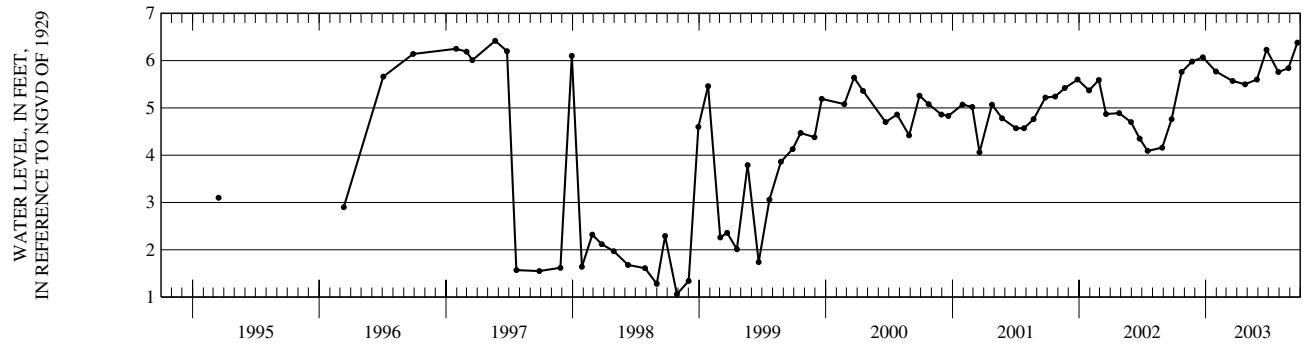
REMARKS.--Water level affected by local dewatering.

PERIOD OF RECORD.--March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.42 ft above sea level, May 22, 1997; lowest measured, 1.06 ft above sea level, October 28, 1998.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	5.76	DEC 23	6.07	MAR 19	5.57	MAY 28	5.60	JUL 29	5.76	SEP 22	6.38
NOV 22	5.98	JAN 30	5.77	APR 24	5.50	JUN 25	6.23	AUG 27	5.84		



404733073482901. Local number, Q3593.1

LOCATION.--Lat 40°47'33", long 73°48'29", Hydrologic Unit 02030201, at north side of 11th Avenue, 82 ft west of 154th Street, Whitestone. Owner: United States Geological Survey.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 215 ft, screened 165 to 185 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 20.8 ft above sea level. Measuring point: Top of casing, 0.04 ft below land-surface datum.

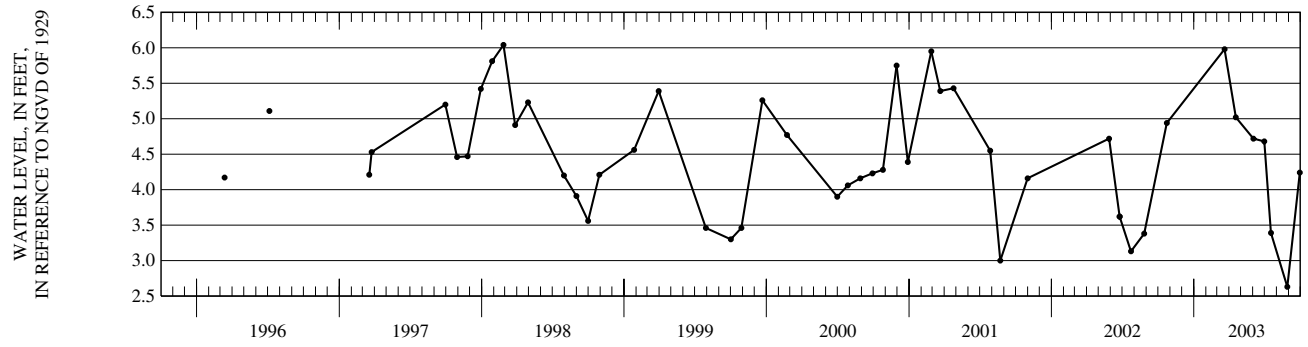
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--March 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.04 ft above sea level, February 25, 1998; lowest measured, 2.63 ft above sea level, August 28, 2003.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	4.94	APR 18	5.02	JUN 30	4.68	AUG 28	2.63				
MAR 20	5.98	JUN 02	4.72	JUL 17	3.39	SEP 29	4.24				



QUEENS COUNTY—Continued

404239073493001. Local number, Q3627.1

LOCATION.--Lat 40°42'39", long 73°49'30", Hydrologic Unit 02030202, at eastern side of Maple Grove Cemetery, 300 ft south of maintenance building, southernmost well, Kew Gardens. Owner: United States Geological Survey.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 510 ft, screened 480 to 500 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

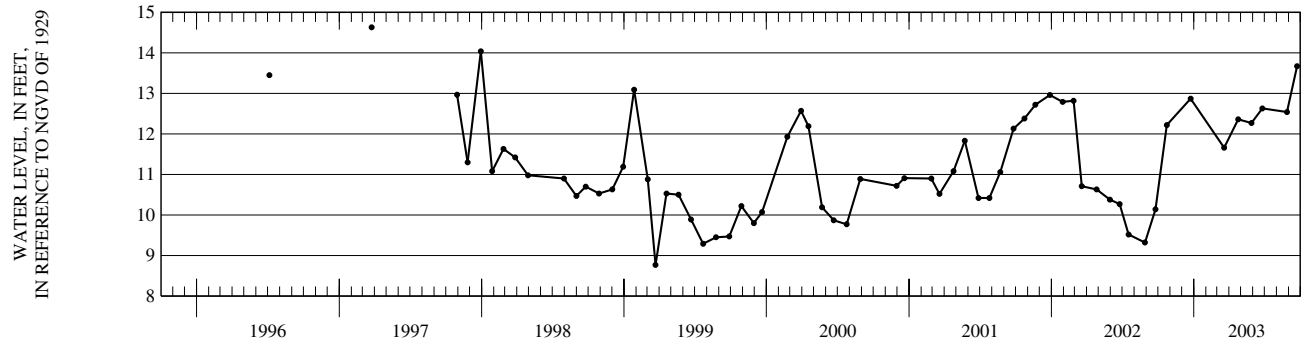
DATUM.--Land-surface datum is 82.9 ft above sea level. Measuring point: Top of casing, 0.03 ft below land-surface datum.

PERIOD OF RECORD.--July 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.63 ft above sea level, March 24, 1997; lowest measured, 8.77 ft above sea level, March 22, 1999.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	12.22	MAR 19	11.66	MAY 28	12.27	AUG 27	12.54				
DEC 23	12.87	APR 24	12.36	JUN 25	12.63	SEP 22	13.67				



404239073492901. Local number, Q3628.1

LOCATION.--Lat 40°42'39", long 73°49'29", Hydrologic Unit 02030202, at eastern side of Maple Grove Cemetery, 300 ft south of maintenance building, middle well, Kew Gardens. Owner: United States Geological Survey.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 340 ft, screened 310 to 340 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

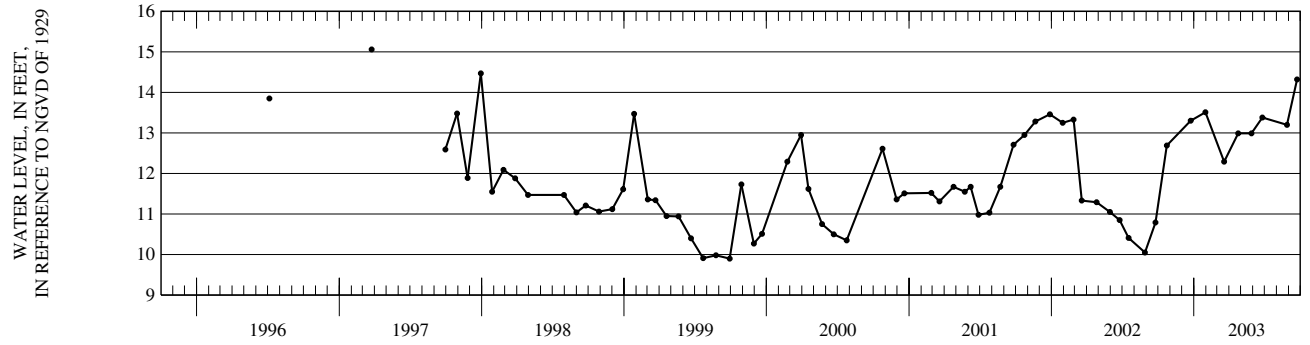
DATUM.--Land-surface datum is 82.7 ft above sea level. Measuring point: Top of casing, 0.05 ft below land-surface datum.

PERIOD OF RECORD.--July 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.06 ft above sea level, March 24, 1997; lowest measured, 9.90 ft above sea level, September 28, 1999.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	12.69	JAN 30	13.51	APR 24	12.99	JUN 25	13.38	SEP 22	14.32		
DEC 23	13.30	MAR 19	12.29	MAY 28	12.99	AUG 27	13.20				



QUEENS COUNTY—Continued

404239073492801. Local number, Q3629.1

LOCATION.--Lat 40°42'39", long 73°49'28', Hydrologic Unit 02030202, at eastern side of Maple Grove Cemetery, 300 ft south of maintenance building, northernmost well, Kew Gardens. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 80 ft, screened 50 to 70 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

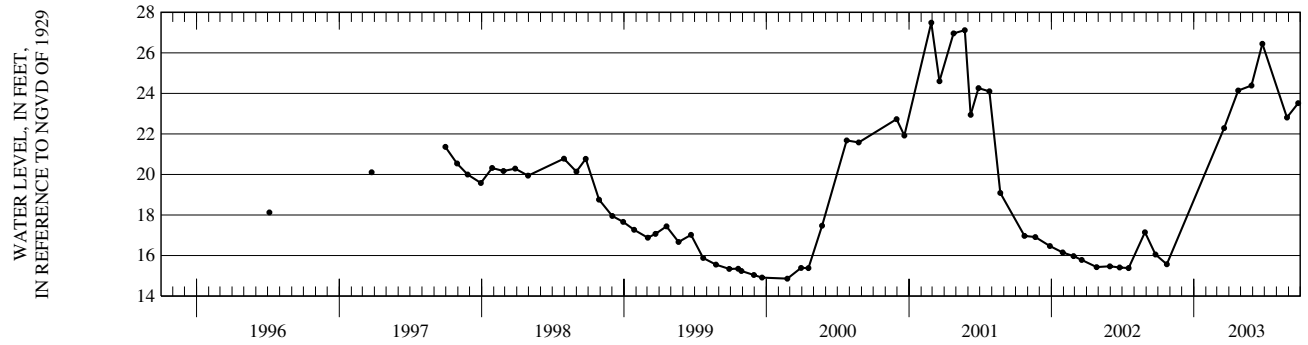
DATUM.--Land-surface datum is 82.8 ft above sea level. Measuring point: Top of casing, 0.06 ft below land-surface datum.

PERIOD OF RECORD.--July 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.49 ft above sea level, February 26, 2001; lowest measured, 14.86 ft above sea level, February 23, 2000.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	15.57	APR 24	24.14	JUN 25	26.45	SEP 25	23.52				
MAR 19	22.29	MAY 28	24.39	AUG 27	22.81						



404538073544001. Local number, Q3644.2

LOCATION.--Lat 40°45'38", long 73°54'40", Hydrologic Unit 02030201, at northwest corner of 30th Road and 46th Street, Astoria. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 65 ft, screen 55 to 65 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 67.5 ft above sea level. Measuring point: Top of casing, 0.48 ft below land-surface datum.

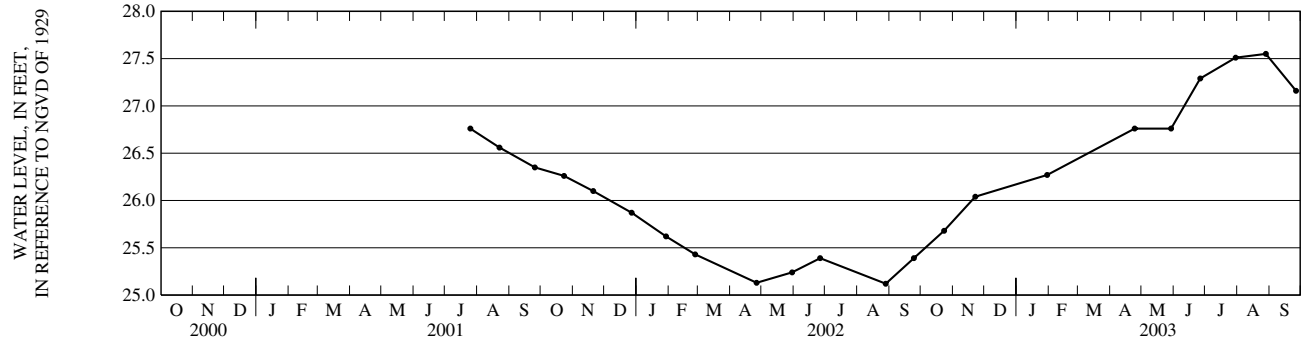
REMARKS.--Replaced well Q3644.1 in July 2001 near same location.

PERIOD OF RECORD.--July 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.55 ft above sea level, August 28, 2003; lowest measured, 25.12 ft above sea level, August 28, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	25.68	JAN 30	26.27	MAY 29	26.76	JUL 30	27.51	SEP 26	27.16		
NOV 22	26.04	APR 24	26.76	JUN 26	27.29	AUG 28	27.55				



QUEENS COUNTY—Continued

404519073532501. Local number, Q3647.1

LOCATION.--Lat 40°45'19", long 73°53'25", Hydrologic Unit 02030201, at east side of 77th Street, 300 ft north of Northern Boulevard, Jackson Heights. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 1 in., depth 35 ft, screened 30 to 35 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

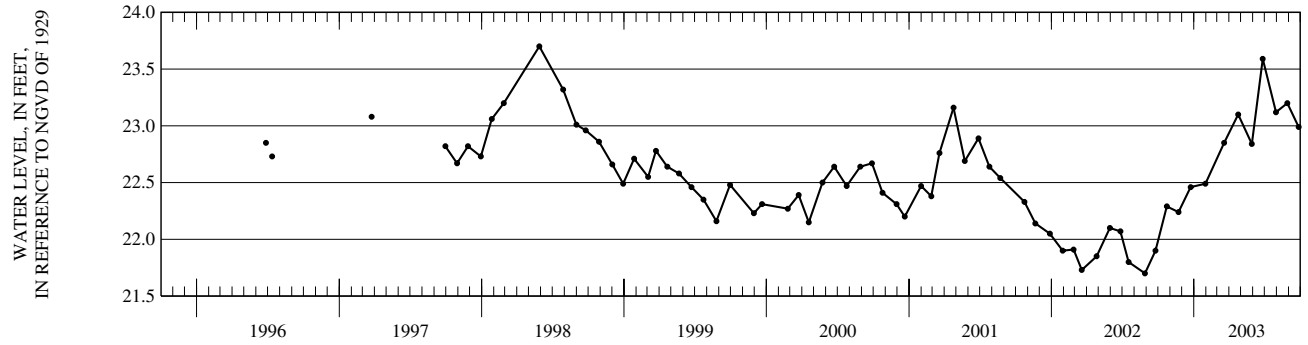
DATUM.--Land-surface datum is 42.0 ft above sea level. Measuring point: Top of casing, 0.12 ft below land-surface datum.

PERIOD OF RECORD.--July 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.70 ft above sea level, May 28, 1998; lowest measured, 21.70 ft above sea level, August 28, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	22.29	DEC 23	22.46	MAR 19	22.85	MAY 29	22.84	JUL 30	23.12	SEP 26	22.99
NOV 22	22.24	JAN 30	22.49	APR 24	23.10	JUN 26	23.59	AUG 28	23.20		



404437073535401. Local number, Q3648.1

LOCATION.--Lat 40°44'37", long 73°53'54", Hydrologic Unit 02030201, at east side of 66th Street, 200 ft south of intersection with 67th and 41st Avenue, Woodside. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 90 ft, screened 80 to 85 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

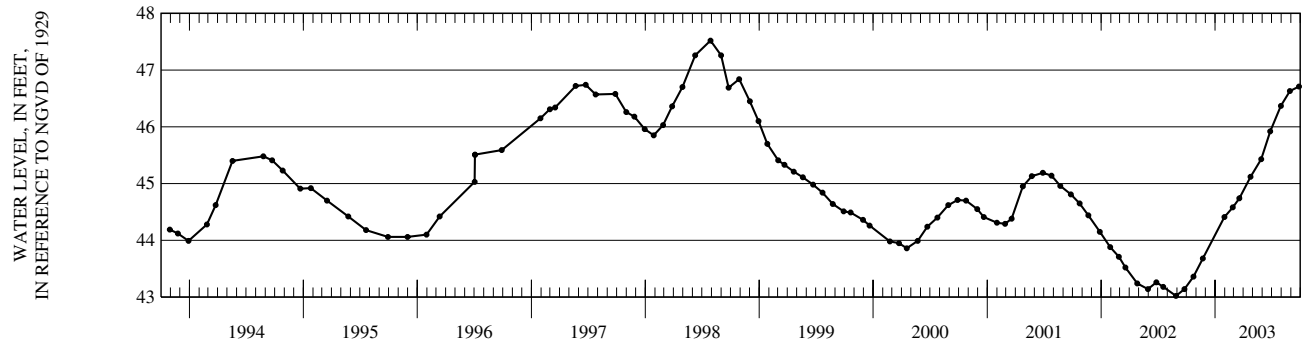
DATUM.--Land-surface datum is 78.1 ft above sea level. Measuring point: Top of coupling, 0.14 ft below land-surface datum.

PERIOD OF RECORD.--April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.52 ft above sea level, July 28, 1998; lowest measured, 43.02 ft above sea level, August 28, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	43.36	JAN 30	44.41	MAR 19	44.74	MAY 28	45.43	JUL 30	46.37	SEP 26	46.71
NOV 22	43.68	FEB 26	44.58	APR 24	45.12	JUN 26	45.92	AUG 28	46.63		



QUEENS COUNTY—Continued

404138073535101. Local number, Q3649.1

LOCATION.--Lat 40°41'38", long 73°53'51", Hydrologic Unit 02030201, at north side of Cabot Road, 66 ft west of Cypress Avenue, easternmost well, Ridgewood. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 110 ft, screened 100 to 105 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

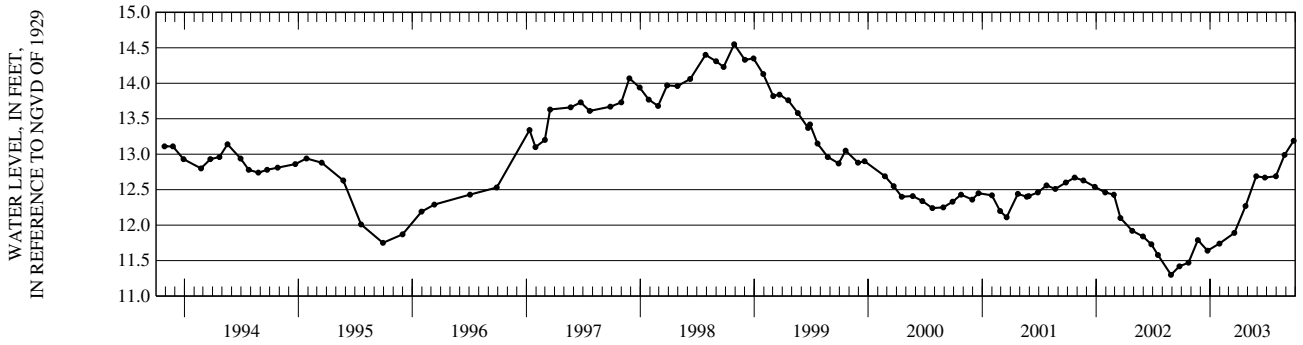
DATUM.--Land-surface datum is 88.4 ft above sea level. Measuring point: Top of casing, 0.28 ft below land-surface datum.

PERIOD OF RECORD.--April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.55 ft above sea level, October 28, 1998; lowest measured, 11.30 ft above sea level, August 28, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	11.47	DEC 23	11.64	MAR 19	11.89	MAY 28	12.69	JUL 30	12.69	SEP 25	13.19
NOV 22	11.79	JAN 30	11.74	APR 24	12.27	JUN 25	12.67	AUG 27	12.99		



404402073520901. Local number, Q3650.1

LOCATION.--Lat 40°44'02", long 73°52'09", Hydrologic Unit 02030201, at north side of Horace Harding Boulevard exit ramp, 150 ft west of 92nd Street, Elmhurst. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 50 ft, screened 40 to 50 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 19.7 ft above sea level. Measuring point: Top of casing, 0.23 ft below land-surface datum.

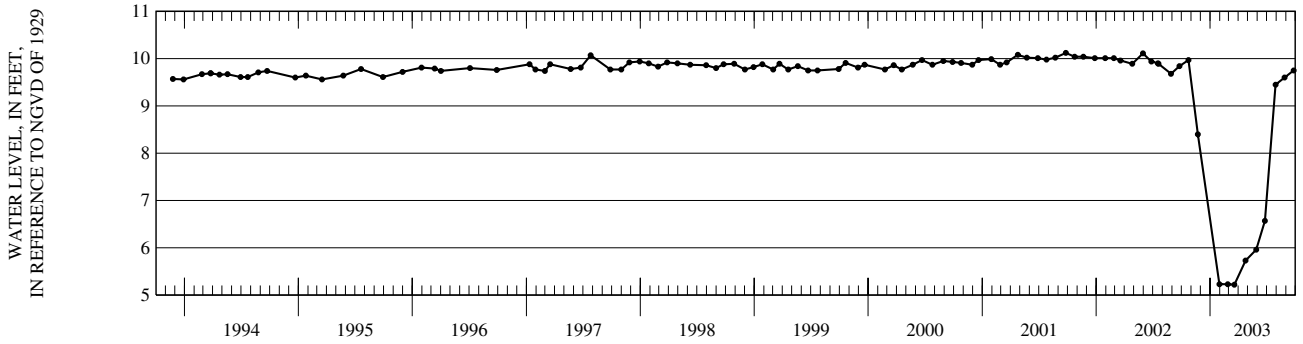
REMARKS.--Water level affected by local dewatering.

PERIOD OF RECORD.--April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.12 ft above sea level, September 25, 2001; lowest measured, 5.22 ft above sea level, March 19, 2003.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	9.97	JAN 30	5.23	MAR 19	5.22	MAY 28	5.96	JUL 29	9.45	SEP 25	9.75
NOV 22	8.40	FEB 26	5.23	APR 24	5.73	JUN 25	6.57	AUG 27	9.60		



QUEENS COUNTY—Continued

404251073512601. Local number, Q3651.1

LOCATION.--Lat 40°42'51", long 73°51'26", Hydrologic Unit 02030201, at south side of Manse Street, 45 ft east of Selfridge Street, Forest Hills. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 80 ft, screened 75 to 80 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 51.3 ft above sea level. Measuring point: Top of coupling, 0.27 ft below land-surface datum.

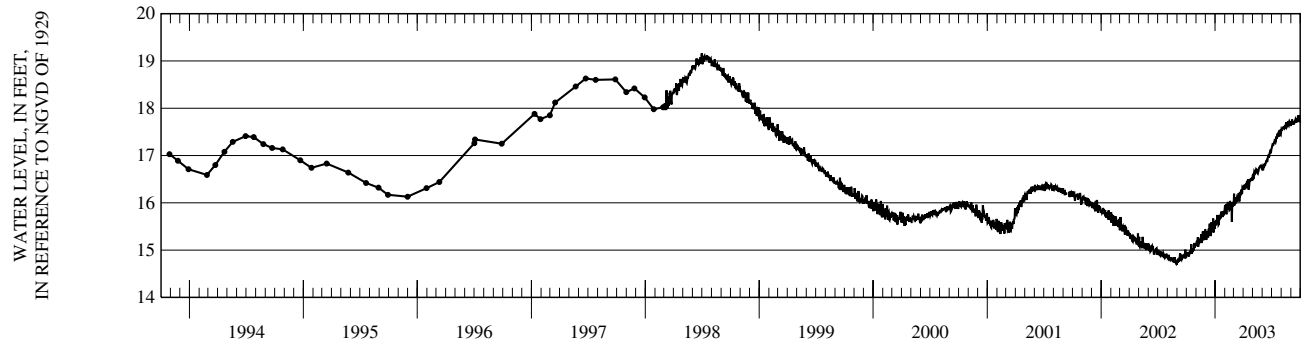
PERIOD OF RECORD.--April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 19.20 ft above sea level, June 30, 1998; lowest measured, 14.66 ft above sea level, August 31, 2002.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.93	15.15	15.40	15.55	15.76	16.11	16.36	16.58	16.77	17.23	17.58	17.70
10	14.91	15.22	15.40	15.59	16.02	16.01	16.41	16.66	16.81	17.31	17.61	17.70
15	15.00	15.22	15.39	15.66	15.84	16.12	16.43	16.64	16.89	17.37	17.67	17.76
20	15.00	15.23	15.59	15.76	15.97	16.18	16.40	16.69	17.00	17.42	17.66	17.73
25	15.06	15.25	15.67	15.74	15.95	16.23	16.50	16.78	17.08	17.40	17.70	17.78
EOM	15.11	15.42	15.57	15.87	16.00	16.32	16.47	16.77	17.15	17.51	17.62	17.70
MEAN	14.99	15.23	15.41	15.69	15.91	16.14	16.41	16.68	16.91	17.36	17.63	17.73
MAX	15.15	15.42	15.67	15.87	16.04	16.33	16.52	16.78	17.15	17.54	17.72	17.85
MIN	14.87	15.07	15.21	15.52	15.60	15.94	16.28	16.51	16.69	17.16	17.54	17.65

WTR YR 2003 MEAN 16.34 MAX 17.85 MIN 14.87



404350073494501. Local number, Q3652.1

LOCATION.--Lat 40°43'50", long 73°49'45", Hydrologic Unit 02030201, at north side of 68th Drive, 38 ft west of 138th Street, Flushing. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 90 ft, screened 80 to 85 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

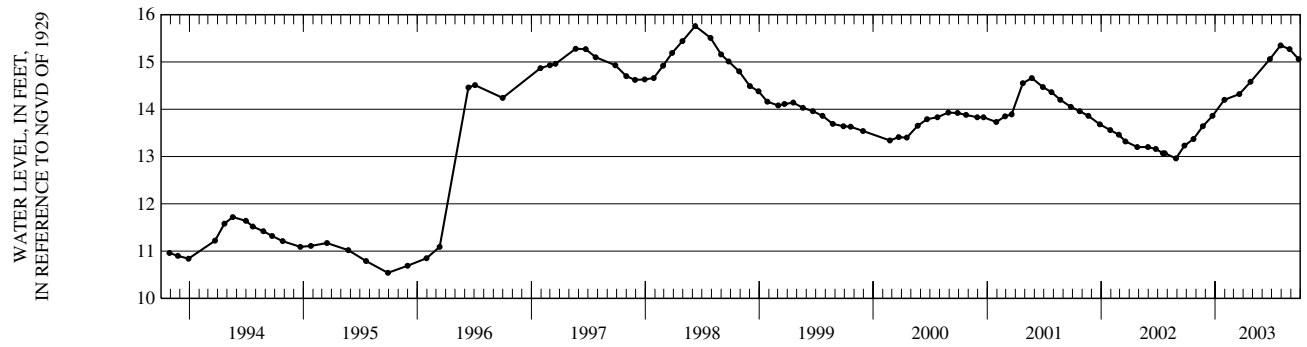
DATUM.--Land-surface datum is 73.0 ft above sea level. Measuring point: Top of casing, 0.30 ft below land-surface datum.

PERIOD OF RECORD.--April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.76 ft above sea level, June 9, 1998; lowest measured, 10.54 ft above sea level, September 28, 1995.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	13.37	DEC 23	13.86	MAR 19	14.32	JUN 25	15.06	AUG 27	15.27		
NOV 22	13.64	JAN 30	14.20	APR 24	14.58	JUL 29	15.35	SEP 25	15.06		



QUEENS COUNTY—Continued

404027073464501. Local number, Q3658.1

LOCATION.--Lat 40°40'27", long 73°46'45", Hydrologic Unit 02030202, at north side of 132nd Avenue, east of 160th Street, Springfield Gardens. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 40 ft, screened 30 to 35 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 18.4 ft above sea level. Measuring point: Top of casing, 0.30 ft below land-surface datum.

REMARKS.--Water level affected by local dewatering.

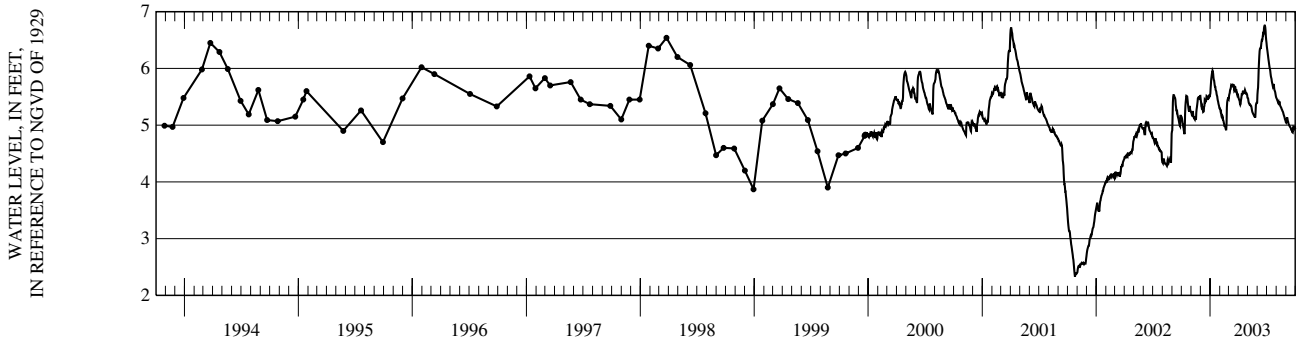
PERIOD OF RECORD.--April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.76 ft above sea level, June 24 and 25, 2003; lowest measured, 2.31 ft above sea level, October 24, 2001.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.02	5.15	5.34	5.86	5.19	5.61	5.43	5.38	5.99	6.22	5.42	5.12
10	4.84	5.13	5.24	5.91	5.13	5.70	5.47	5.34	6.35	6.01	5.42	5.01
15	5.46	5.11	5.43	5.70	5.00	5.70	5.59	5.25	6.50	5.84	5.32	4.96
20	5.45	5.36	5.51	5.59	4.92	5.61	5.58	5.18	6.60	5.69	5.25	4.89
25	5.24	5.48	5.51	5.43	5.44	5.59	5.54	5.13	6.75	5.63	5.17	4.97
EOM	5.23	5.52	5.53	5.29	5.48	5.52	5.48	5.40	6.45	5.49	5.05	4.93
MEAN	5.22	5.28	5.41	5.64	5.16	5.63	5.52	5.30	6.38	5.87	5.29	4.98
MAX	5.52	5.52	5.53	5.96	5.48	5.71	5.62	5.48	6.76	6.39	5.48	5.14
MIN	4.84	5.09	5.23	5.29	4.92	5.47	5.36	5.13	5.54	5.49	5.05	4.87

WTR YR 2003 MEAN 5.48 MAX 6.76 MIN 4.84



QUEENS COUNTY—Continued

404313073475201. Local number, Q3659.1

LOCATION.--Lat 40°43'13", long 73°47'52", Hydrologic Unit 02030201, at south side of intersection of Goethals Avenue and 170th Street, south of western entrance to Saint Johnf's University, Jamaica. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 125 ft, screened 115 to 120 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 91.4 ft above sea level. Measuring point: Top of coupling, 0.28 ft below land-surface datum.

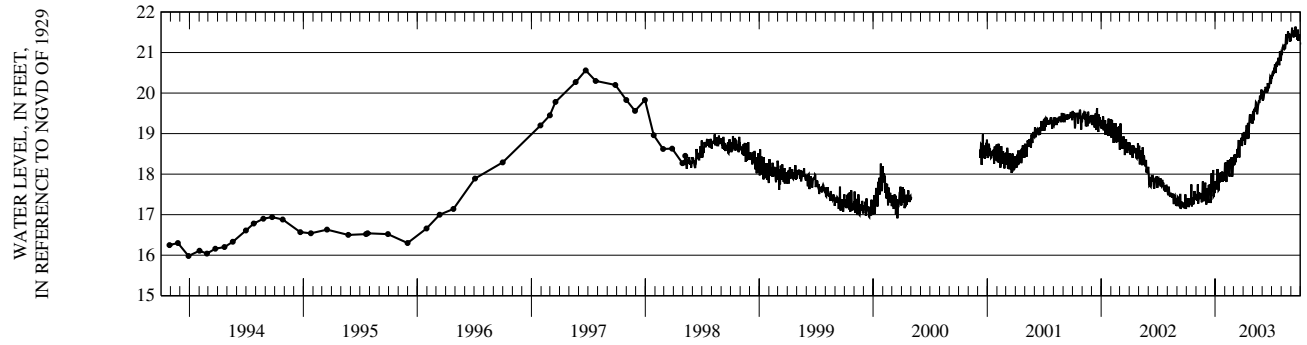
PERIOD OF RECORD.--April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.70 ft above sea level, September 15, 2003; lowest measured, 15.76 ft above sea level, August 23, 1993.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.39	17.43	17.64	17.65	17.83	18.49	19.04	19.45	19.88	20.50	21.13	21.47
10	17.25	17.56	17.61	17.75	18.35	18.40	19.05	19.66	20.01	20.55	21.17	21.50
15	17.37	17.46	17.56	17.82	17.97	18.64	19.24	19.48	20.15	20.66	21.33	21.64
20	17.35	17.43	18.02	18.03	18.20	18.65	19.28	19.80	20.12	20.73	21.32	21.40
25	17.37	17.39	18.10	17.86	17.97	18.79	19.29	19.86	20.32	20.69	21.44	21.37
EOM	17.44	17.79	17.82	18.08	18.34	18.88	19.24	20.05	20.39	20.90	21.28	21.22
MEAN	17.35	17.48	17.58	17.87	18.14	18.61	19.13	19.71	20.11	20.67	21.25	21.45
MAX	17.75	17.82	18.10	18.13	18.42	19.00	19.47	20.09	20.41	21.03	21.52	21.64
MIN	17.19	17.27	17.25	17.60	17.81	18.24	18.72	19.34	19.81	20.39	20.99	21.22

WTR YR 2003 MEAN 19.11 MAX 21.64 MIN 17.19



404450073470301. Local number, Q3660.1

LOCATION.--Lat 40°44'50", long 73°47'03", Hydrologic Unit 02030201, at 53rd Avenue, in center grass median, 49 ft west of 195th Street, Springfield Gardens. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 90 ft, screened 80 to 85 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

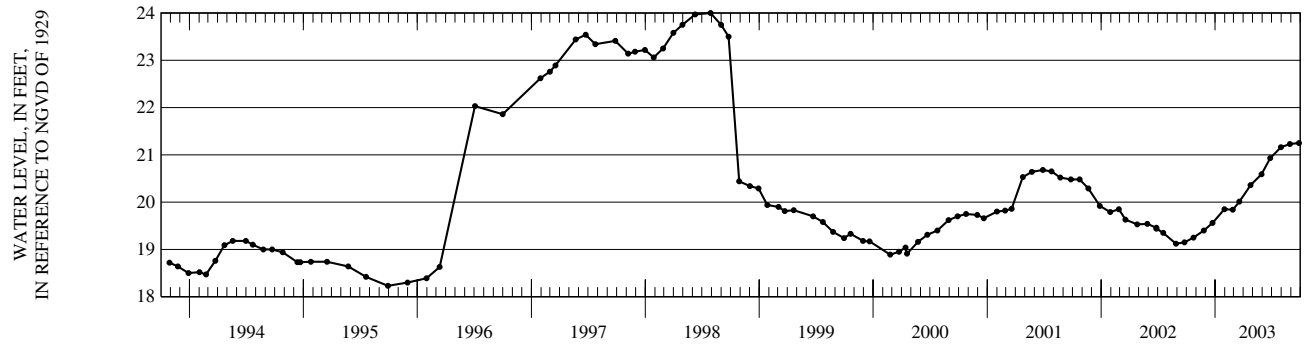
DATUM.--Land-surface datum is 66.0 ft above sea level. Measuring point: Top of coupling, 3.46 ft below land-surface datum.

PERIOD OF RECORD.--April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.00 ft above sea level, July 28, 1998; lowest measured, 18.23 ft above sea level, September 28, 1995.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	19.25	DEC 23	19.56	FEB 26	19.84	APR 24	20.36	JUN 26	20.93	AUG 28	21.23
NOV 25	19.40	JAN 30	19.85	MAR 19	20.01	MAY 29	20.59	JUL 30	21.16	SEP 26	21.25



QUEENS COUNTY—Continued

404357073462001. Local number, Q3661.1

LOCATION.--Lat 40°43'57", long 73°46'20", Hydrologic Unit 02030201, at east side of 199th Street, 250 ft north of Union Turnpike, Fresh Meadows. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 95 ft, screened 85 to 90 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

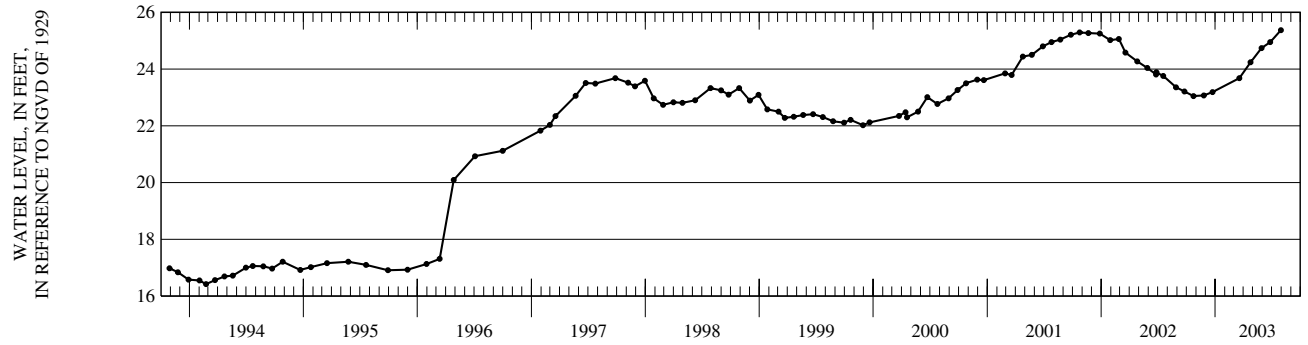
DATUM.--Land-surface datum is 81.0 ft above sea level. Measuring point: Top of casing, 0.50 ft below land-surface datum.

PERIOD OF RECORD.--April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.37 ft above sea level, July 30, 2003; lowest measured, 16.42 ft above sea level, February 22, 1994.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	23.05	DEC 23	23.19	APR 24	24.24	JUN 26	24.95				
NOV 25	23.07	MAR 19	23.68	MAY 29	24.74	JUL 30	25.37				



404459073422401. Local number, Q3804.1

LOCATION.--Lat 40°44'59", long 73°42'24", Hydrologic Unit 02030202, at intersection of Union Turnpike, 78th Avenue, and 268th Street, near center of grass triangle, Glen Oaks. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 155 ft, screened 105 to 115 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

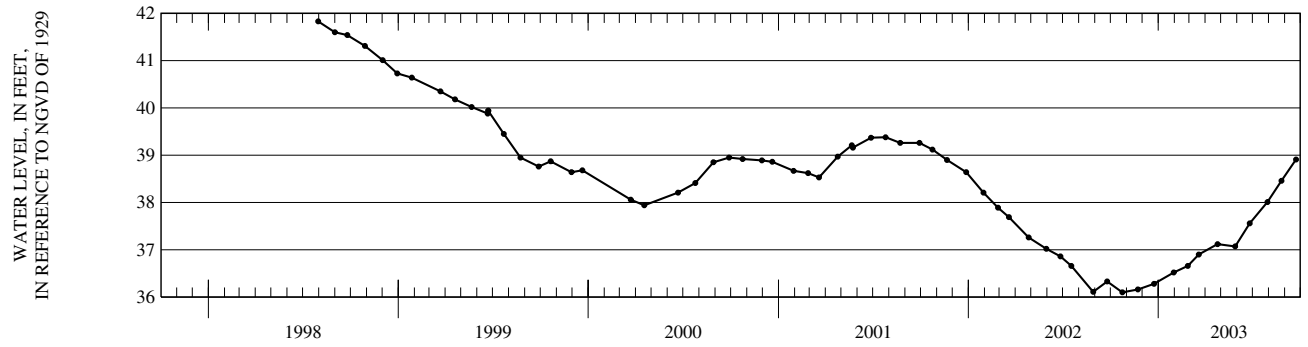
DATUM.--Land-surface datum is 121.0 ft above sea level. Measuring point: Top of casing, 0.54 ft below land-surface datum.

PERIOD OF RECORD.--July 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.83 ft above sea level, July 30, 1998; lowest measured, 36.10 ft above sea level, October 23, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	36.10	DEC 23	36.28	FEB 26	36.66	APR 24	37.12	JUN 25	37.56	AUG 25	38.46
NOV 22	36.16	JAN 30	36.52	MAR 19	36.90	MAY 28	37.07	JUL 29	38.01	SEP 22	38.91



QUEENS COUNTY—Continued

404504073444401. Local number, Q3805.1

LOCATION.--Lat 40°45'04", long 73°44'44", Hydrologic Unit 02030201, at east side of 233rd Street, 128 ft south of West Alley Road, Alley Pond Park. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 115 ft, screened 100 to 110 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

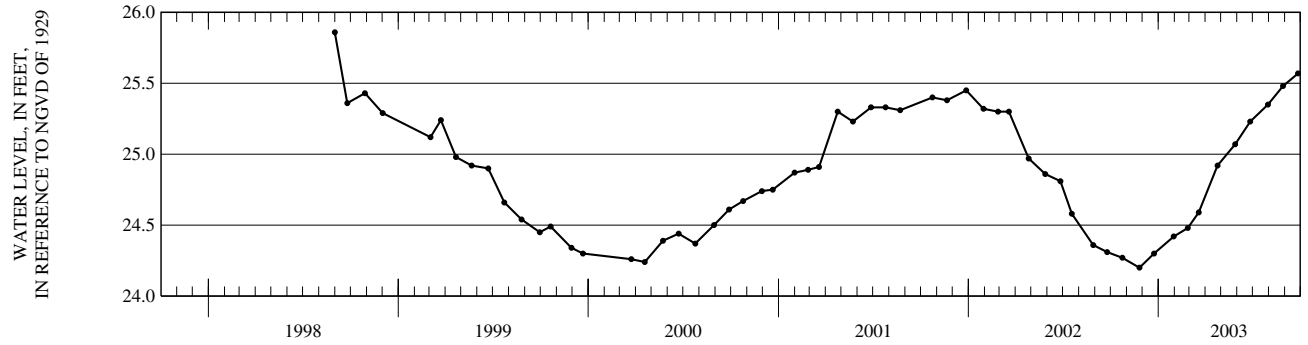
DATUM.--Land-surface datum is 112.0 ft above sea level. Measuring point: Top of casing, 0.27 ft below land-surface datum.

PERIOD OF RECORD.--August 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.86 ft above sea level, August 31, 1998; lowest measured, 24.20 ft above sea level, November 25, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	24.27	DEC 23	24.30	FEB 26	24.48	APR 24	24.92	JUN 26	25.23	AUG 28	25.48
NOV 25	24.20	JAN 30	24.42	MAR 19	24.59	MAY 28	25.07	JUL 30	25.35	SEP 26	25.57



404539073465301. Local number, Q3806.1

LOCATION.--Lat 40°45'39", long 73°46'53", Hydrologic Unit 02030201, at west side of 204th Street, 99 ft north of 42nd Avenue, Auburndale. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 80 ft, screened 70 to 80 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

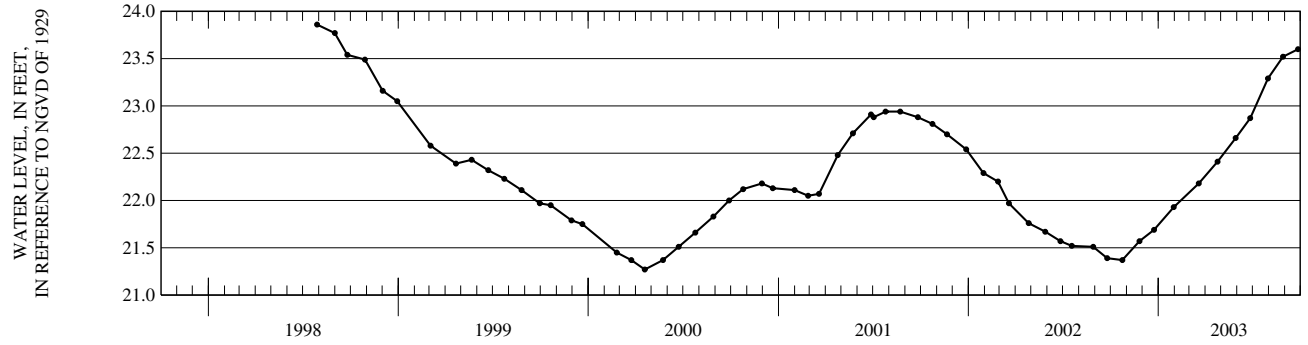
DATUM.--Land-surface datum is 84.0 ft above sea level. Measuring point: Top of casing, 0.14 ft below land-surface datum.

PERIOD OF RECORD.--July 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.86 ft above sea level, July 28, 1998; lowest measured, 21.27 ft above sea level, April 18, 2000.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	21.37	DEC 23	21.69	MAR 19	22.18	MAY 29	22.66	JUL 30	23.29	SEP 26	23.60
NOV 25	21.57	JAN 30	21.93	APR 24	22.41	JUN 26	22.87	AUG 28	23.52		



QUEENS COUNTY—Continued

404152073511302. Local number, Q3807.2

LOCATION.--Lat 40°41'52", long 73°51'13", Hydrologic Unit 02030202, at west side of Woodhaven Boulevard, 25 ft north of Park Lane South, Woodhaven. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 91.3 ft, screened 81.3 to 91.3 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 74.0 ft above sea level. Measuring point: Top of casing, 0.66 ft below land-surface datum.

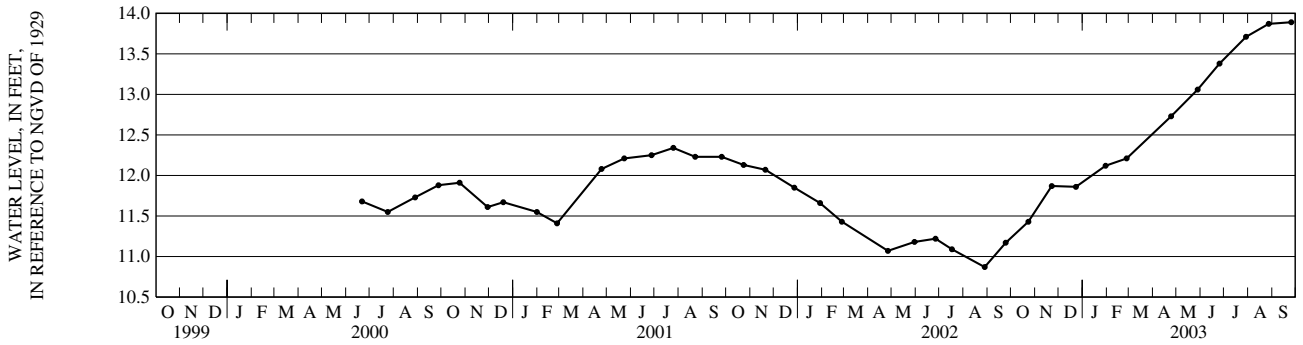
REMARKS.--Replaced well Q3807.1 in June 2000 near same location.

PERIOD OF RECORD.--July 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.89 ft above sea level, September 25, 2003; lowest measured, 10.87 ft above sea level, August 28, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	11.43	DEC 23	11.86	FEB 26	12.21	MAY 28	13.06	JUL 29	13.71	SEP 25	13.89
NOV 22	11.87	JAN 30	12.12	APR 24	12.73	JUN 25	13.38	AUG 27	13.87		



404232073524401. Local number, Q3808.1

LOCATION.--Lat 40°42'32", long 73°52'44", Hydrologic Unit 02030201, at west side of 73rd Place, between Cook Avenue and 69th Avenue, Middle Village. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 115 ft, screened 100 to 110 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

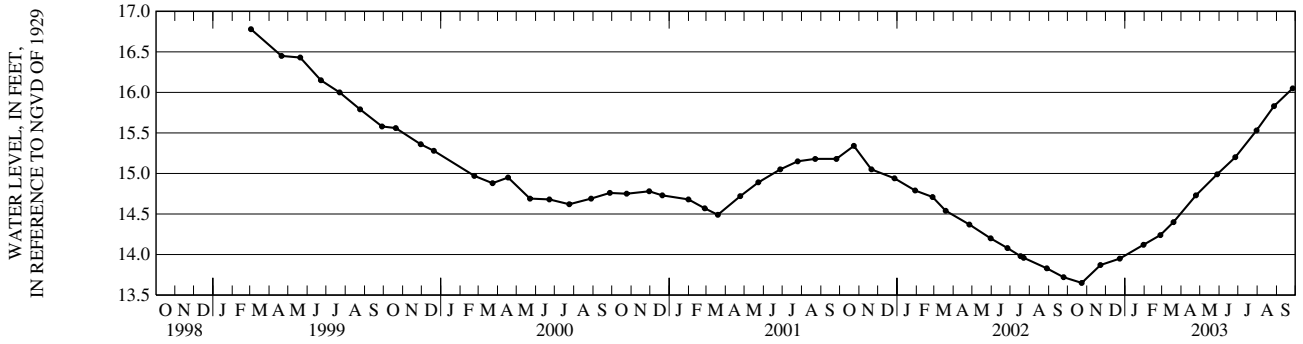
DATUM.--Land-surface datum is 111.0 ft above sea level. Measuring point: Top of casing, 0.52 ft below land-surface datum.

PERIOD OF RECORD.--March 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.78 ft above sea level, March 2, 1999; lowest measured, 13.65 ft above sea level, October 23, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	13.65	DEC 23	13.95	FEB 26	14.24	APR 24	14.73	JUN 26	15.20	AUG 27	15.83
NOV 22	13.87	JAN 30	14.12	MAR 19	14.40	MAY 28	14.99	JUL 30	15.53	SEP 26	16.05



QUEENS COUNTY—Continued

404407073551501. Local number, Q3809.1

LOCATION.--Lat 40°44'07", long 73°55'15", Hydrologic Unit 02030201, at south side of 51th Street, 30 ft east of 46th Street, Maspeth. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 95 ft, screened 80 to 90 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

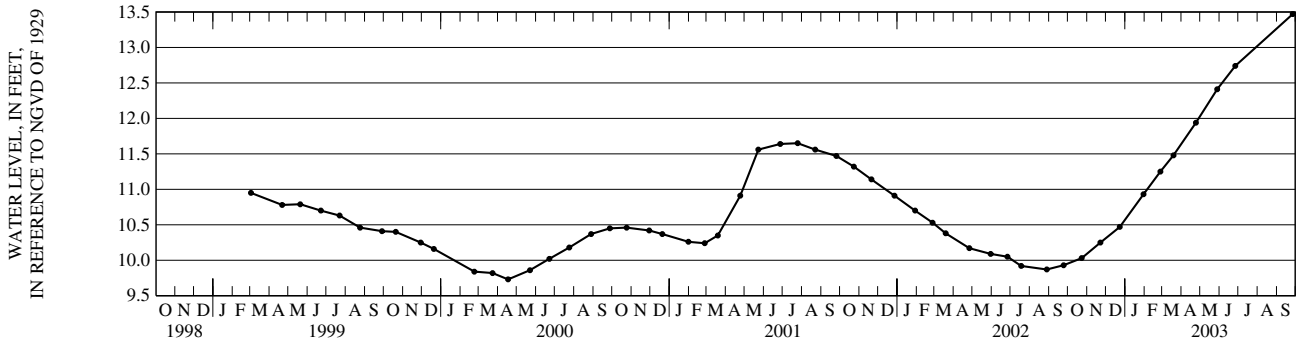
DATUM.--Land-surface datum is 90.5 ft above sea level. Measuring point: Top of casing, 0.40 ft below land-surface datum.

PERIOD OF RECORD.--March 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.47 ft above sea level, September 26, 2003; lowest measured, 9.73 ft above sea level, April 17, 2000.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	10.03	DEC 23	10.47	FEB 26	11.25	APR 24	11.94	JUN 26	12.74		
NOV 22	10.25	JAN 30	10.93	MAR 19	11.48	MAY 28	12.41	SEP 26	13.47		



404411073491601. Local number, Q3810.1

LOCATION.--Lat 40°44'11", long 73°49'16", Hydrologic Unit 02030201, at Queens College of the City University of New York, south of intersection with Reeves Avenue and 150th Street, opposite southwestern corner of tennis courts, Flushing. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 95 ft, screened 70 to 90 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 77.0 ft above sea level. Measuring point: Top of casing, 0.48 ft below land-surface datum.

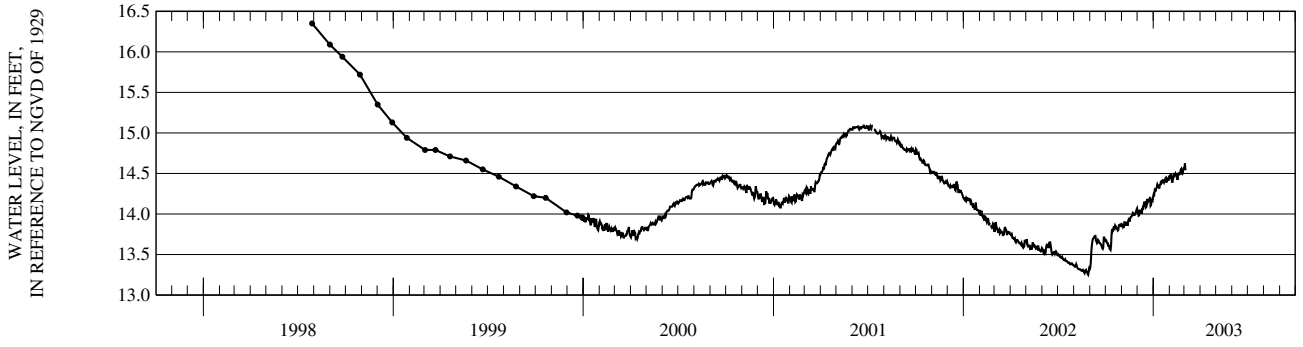
PERIOD OF RECORD.--July 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.35 ft above sea level, July 28, 1998; lowest measured, 13.24 ft above sea level, August 28, 2002.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.64	13.85	14.04	14.29	14.41	---	---	---	---	---	---	---
10	13.56	13.89	14.06	14.34	14.51	---	---	---	---	---	---	---
15	13.80	13.93	14.12	14.41	14.44	---	---	---	---	---	---	---
20	13.85	13.98	14.19	14.42	14.49	---	---	---	---	---	---	---
25	13.80	13.99	14.21	14.40	14.49	---	---	---	---	---	---	---
EOM	13.86	14.07	14.22	14.45	14.57	---	---	---	---	---	---	---
MEAN	13.76	13.94	14.10	14.37	14.48	---	---	---	---	---	---	---
MAX	13.87	14.07	14.22	14.45	14.57	---	---	---	---	---	---	---
MIN	13.56	13.84	13.98	14.24	14.39	---	---	---	---	---	---	---

WTR YR 2003 MEAN 14.13 MAX 14.62 MIN 13.56



QUEENS COUNTY—Continued

404147073475301. Local number, Q3811.1

LOCATION.--Lat 40°41'47", long 73°47'50", Hydrologic Unit 02030202, at east side of 157th Street, 75 ft north of 107th Avenue, Jamaica. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 45 ft, screened 35 to 40 ft.

INSTRUMENTATION.--Digital water-level recorder.

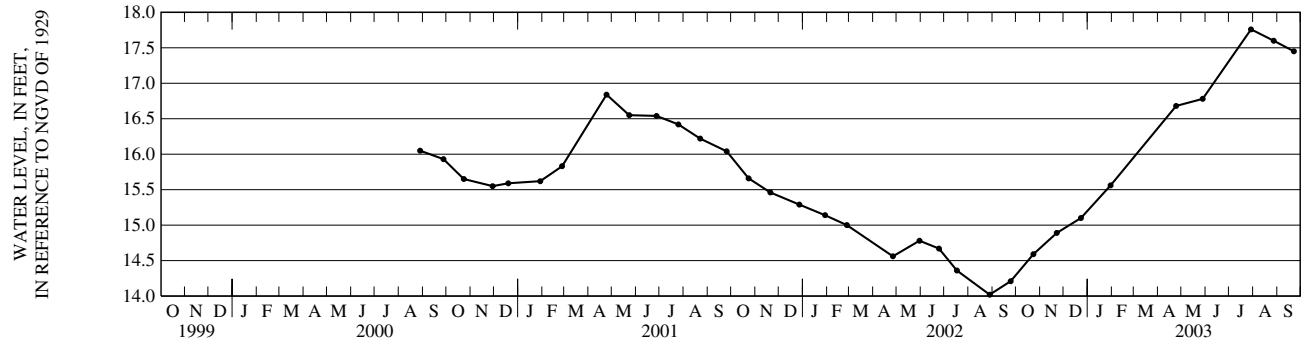
DATUM.--Land-surface datum is 37.0 ft above sea level. Measuring point: Top of casing, 0.02 ft below land-surface datum.

PERIOD OF RECORD.--July 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.76 ft above sea level, July 29, 2003; lowest measured, 14.02 ft above sea level, August 28, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	14.59	DEC 23	15.10	APR 24	16.68	JUL 29	17.76	SEP 22	17.45		
NOV 22	14.89	JAN 30	15.56	MAY 28	16.78	AUG 27	17.60				



404509073485301. Local number, Q3812.1

LOCATION.--Lat 40°45'09", long 73°48'53", Hydrologic Unit 02030201, at south side of Jasmine Avenue, 40 ft east of Burling Street, Flushing. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 55 ft, screened 45 to 50 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

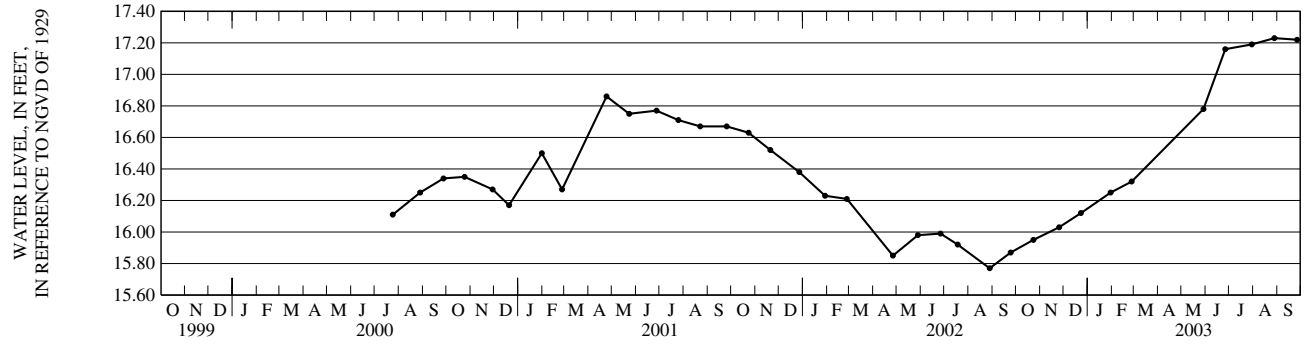
DATUM.--Land-surface datum is 49.0 ft above sea level. Measuring point: Top of casing, 0.23 ft below land-surface datum.

PERIOD OF RECORD.--July 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.23 ft above sea level, August 28, 2003; lowest measured, 15.77 ft above sea level, August 28, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	15.95	DEC 23	16.12	FEB 26	16.32	JUN 26	17.16	AUG 28	17.23		
NOV 25	16.03	JAN 30	16.25	MAY 29	16.78	JUL 30	17.19	SEP 26	17.22		



QUEENS COUNTY—Continued

404233073471301. Local number, Q3813.1

LOCATION.--Lat 40°42'33", long 73°47'13", Hydrologic Unit 02030201, at south side of 91th Avenue, 50 ft west of 175th Street, Jamaica. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 75 ft, screened 70 to 75 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 58.9 ft above sea level. Measuring point: Top of casing, 0.49 ft below land-surface datum.

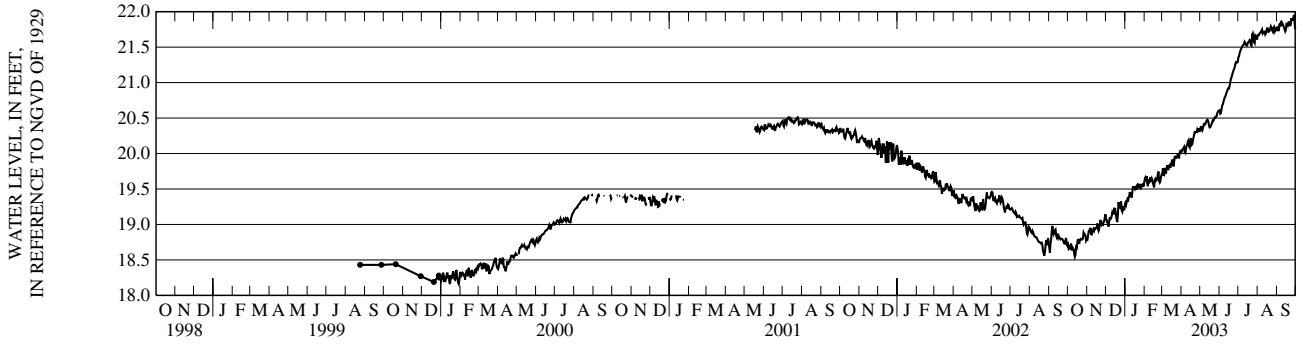
PERIOD OF RECORD.--August 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.98 ft above sea level, September 29, 2003; lowest measured, 18.14 ft above sea level, January 15 and 29, 2000.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.65	18.90	18.97	19.32	19.58	19.80	20.09	20.35	20.67	21.47	21.70	21.83
10	18.65	18.93	19.12	19.42	19.67	19.78	20.12	20.44	20.80	21.54	21.71	21.82
15	18.67	18.95	19.18	19.51	19.55	19.84	20.18	20.39	20.92	21.52	21.73	21.74
20	18.78	18.95	19.15	19.56	19.62	19.88	20.22	20.44	21.08	21.59	21.73	21.85
25	18.81	19.00	19.32	19.51	19.59	19.96	20.30	20.50	21.22	21.62	21.72	21.88
EOM	18.79	19.14	19.26	19.58	19.70	20.04	20.31	20.61	21.29	21.61	21.73	21.75
MEAN	18.73	18.95	19.15	19.47	19.63	19.86	20.18	20.45	20.95	21.55	21.73	21.82
MAX	18.88	19.14	19.32	19.58	19.75	20.04	20.36	20.61	21.29	21.69	21.79	21.95
MIN	18.54	18.78	18.97	19.28	19.52	19.69	20.01	20.32	20.56	21.36	21.67	21.72

WTR YR 2003 MEAN 20.21 MAX 21.95 MIN 18.54



404337073540301. Local number, Q3814.1

LOCATION.--Lat 40°43'37", long 73°54'03", Hydrologic Unit 02030201, at north side of 55th Avenue, 50 ft west of 65th Place, Maspeth. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 24 ft, screened 14 to 24 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

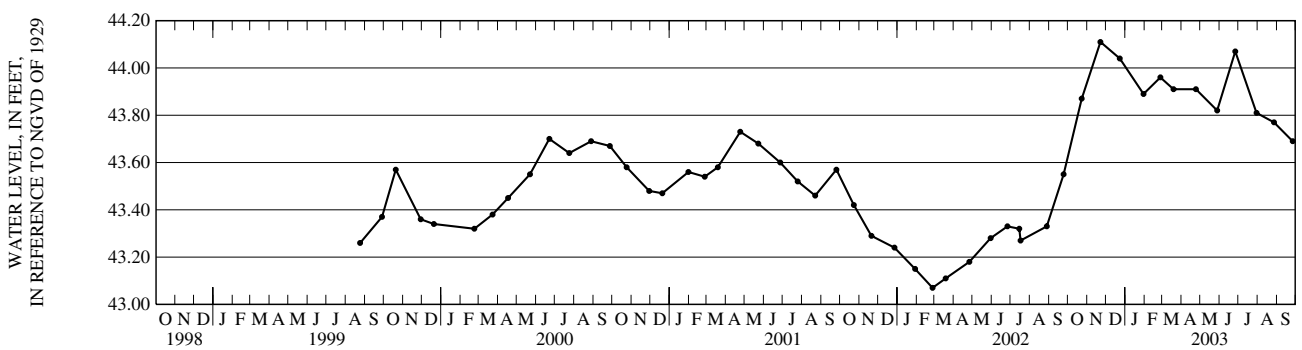
DATUM.--Land-surface datum is 53.7 ft above sea level. Measuring point: Top of casing, 0.06 ft below land-surface datum.

PERIOD OF RECORD.--August 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.11 ft above sea level, November 22, 2002; lowest measured, 43.07 ft above sea level, February 26, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	43.87	DEC 23	44.04	FEB 26	43.96	APR 24	43.91	JUN 26	44.07	AUG 27	43.77
NOV 22	44.11	JAN 30	43.89	MAR 19	43.91	MAY 28	43.82	JUL 30	43.81	SEP 26	43.69



QUEENS COUNTY—Continued

404617073483201. Local number, Q3815.1

LOCATION.--Lat 40°46'17", long 73°48'32", Hydrologic Unit 02030201, at south side of 29th Avenue, south of intersection with 156th Court, at north side of Bowne Park, Flushing. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 90 ft, screened 80 to 85 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

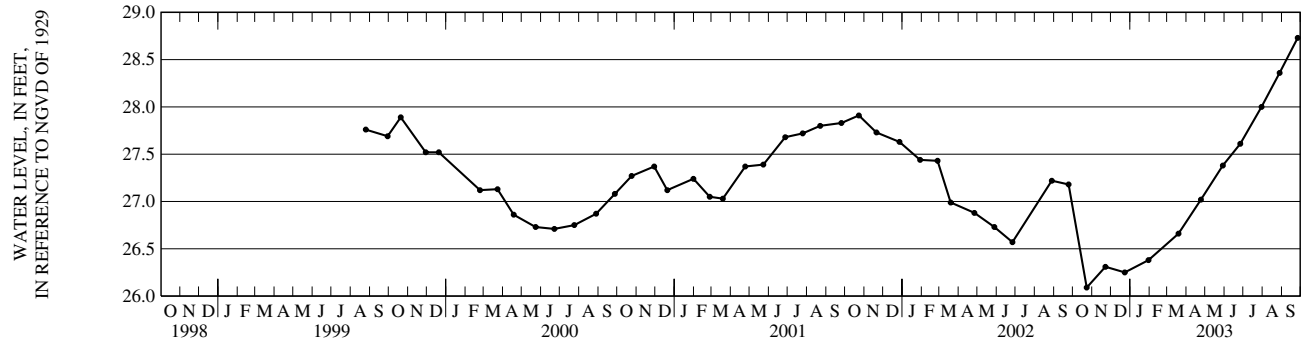
DATUM.--Land-surface datum is 91.0 ft above sea level. Measuring point: Top of casing, 0.08 ft below land-surface datum.

PERIOD OF RECORD.--August 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.73 ft above sea level, September 26, 2003; lowest measured, 26.09 ft above sea level, October 23, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	26.09	DEC 23	26.25	MAR 19	26.66	MAY 29	27.38	JUL 30	28.00	SEP 26	28.73
NOV 22	26.31	JAN 30	26.38	APR 24	27.02	JUN 26	27.61	AUG 28	28.36		



404653073485301. Local number, Q3816.1

LOCATION.--Lat 40°46'53", long 73°48'53", Hydrologic Unit 02030201, at north side of 18th Avenue, 20 ft east of 150th Street, Whitestone. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 60 ft, screened 50 to 60 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

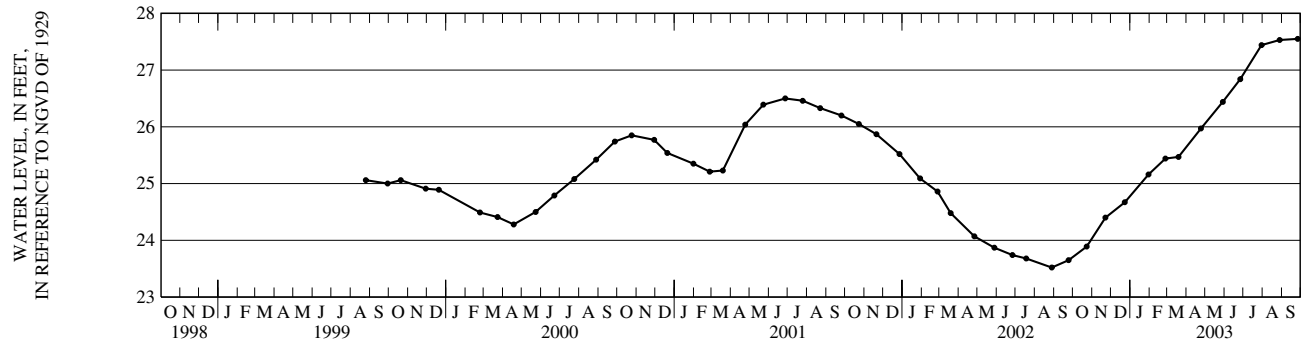
DATUM.--Land-surface datum is 51.6 ft above sea level. Measuring point: Top of casing, 0.16 ft below land-surface datum.

PERIOD OF RECORD.--August 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.55 ft above sea level, September 26, 2003; lowest measured, 23.52 ft above sea level, August 28, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	23.89	DEC 23	24.67	FEB 26	25.44	APR 24	25.97	JUN 26	26.84	AUG 28	27.53
NOV 22	24.40	JAN 30	25.16	MAR 19	25.47	MAY 29	26.44	JUL 30	27.44	SEP 26	27.55



SUFFOLK COUNTY

404213073201004. Local number, S1803.4

LOCATION.--Lat 40°42'13", long 73°20'10", Hydrologic Unit 02030202, at north side of State Route 109, west of Little East Neck Road, on grass median, Babylon. Owner: New York State Department of Transportation.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven PVC observation well, diameter 1 $\frac{1}{4}$ in., depth 19 ft, screened 16 to 19 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 23.7 ft above sea level. Measuring point: Top of casing, 0.20 ft below land-surface datum.

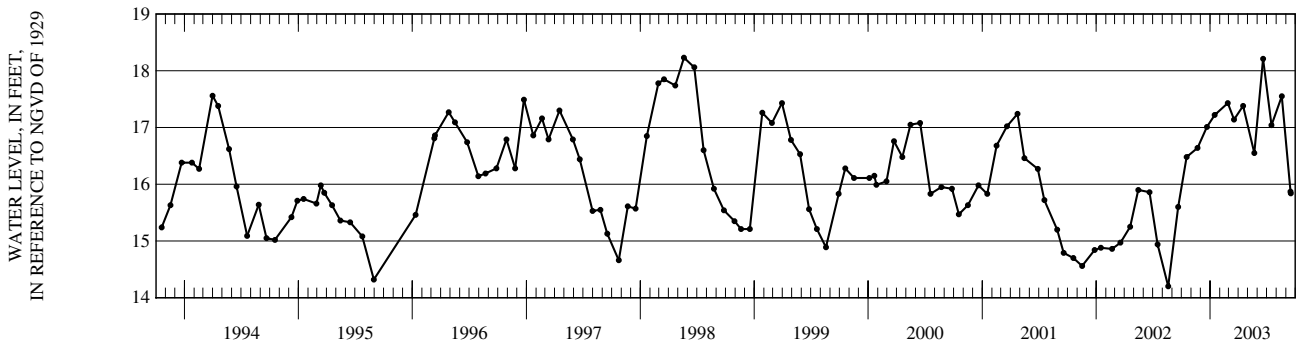
REMARKS.--Replaced well S1803.3 in November 1975 near same location. Unpublished records from October 1912 to November 1914, August and September 1932, and June 1936 to September 1975, for wells S1803.1 to S1803.3 are available in files of the Long Island Subdistrict Office.

PERIOD OF RECORD.--November 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.87 ft above sea level, May 23, 1983; lowest measured, 13.06 ft above sea level, July 26, 1976.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	16.48	JAN 15	17.22	APR 16	17.38	JUL 16	17.04	SEP 16	15.84		
NOV 21	16.64	FEB 26	17.43	MAY 22	16.55	AUG 18	17.55				
DEC 21	17.01	MAR 18	17.14	JUN 19	18.21	SEP 15	15.87				



404301073240904. Local number, S1805.4

LOCATION.--Lat 40°43'01", long 73°24'09", Hydrologic Unit 02030202, at south side of State Route 109, west of Albany Avenue, Maywood. Owner: New York State Department of Transportation.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 in., depth 33 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 57.2 ft above sea level. Measuring point: Top of casing, 2.02 ft above land-surface datum.

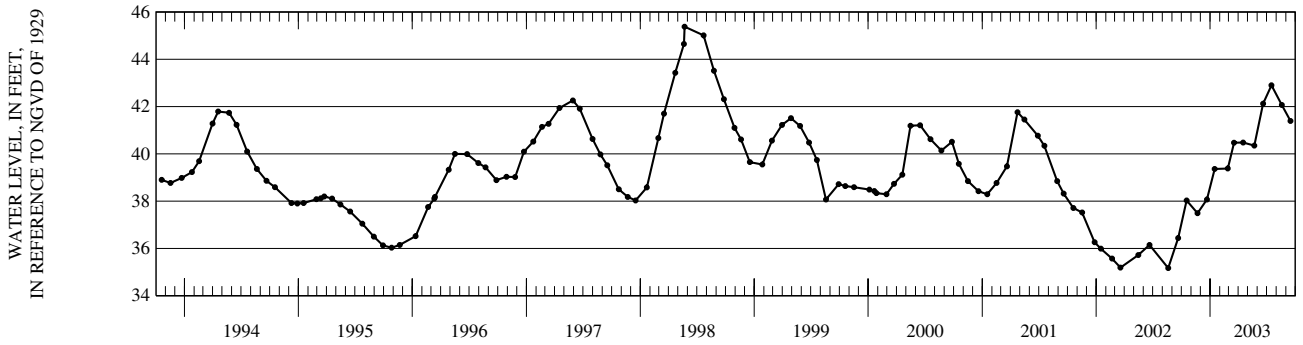
REMARKS.--Replaced well S1805.3 in October 1953 near same location. Unpublished records from October 1912 to September 1975 for wells S1805.1 to S1805.3 are available in files of the Long Island Subdistrict Office.

PERIOD OF RECORD.--October 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.47 ft above sea level, August 27, 1984; lowest measured, 35.17 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	38.03	DEC 21	38.07	FEB 26	39.38	APR 16	40.48	JUN 19	42.12	AUG 18	42.07
NOV 21	37.49	JAN 15	39.36	MAR 18	40.47	MAY 22	40.35	JUL 16	42.90	SEP 15	41.39



SUFFOLK COUNTY—Continued

404442073240503. Local number, S1806.3

LOCATION.--Lat 40°44'42", long 73°24'05", Hydrologic Unit 02030202, at west side of Wellwood Avenue, north of Conklin Street, south of railroad tracks, Pinelawn. Owner: Suffolk County Department of Public Works.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 45 ft, screened 41 to 45 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 85.7 ft above sea level. Measuring point: Top of coupling, 0.19 ft below land-surface datum.

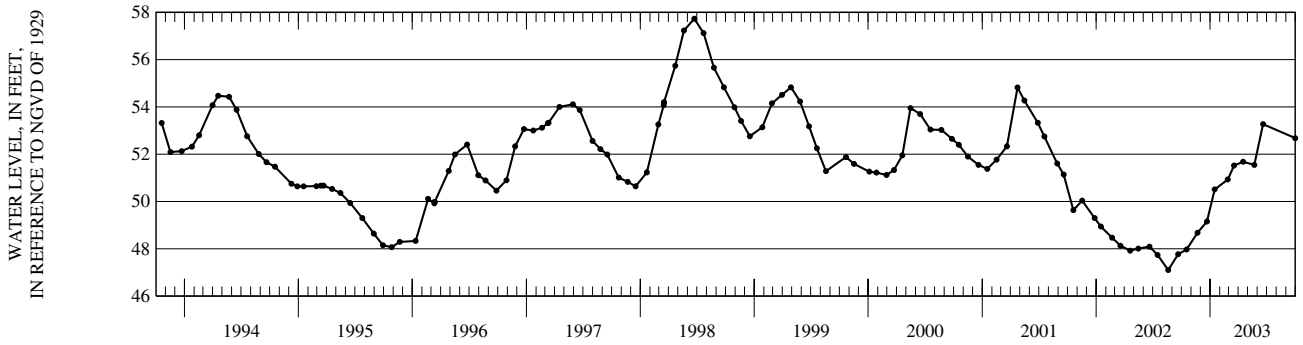
REMARKS--Replaced well S1806.2 in August 1977 near same location. Unpublished records for October 1912 to November 1914, and May to September 1975, for wells S1806.1 to S1806.2 are available in files of the Long Island Subdistrict Office.

PERIOD OF RECORD.--August 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.37 ft above sea level, June 20, 1984; lowest measured, 47.10 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	47.97	DEC 21	49.15	FEB 26	50.93	APR 16	51.68	JUN 19	53.27		
NOV 21	48.68	JAN 15	50.51	MAR 18	51.52	MAY 22	51.55	SEP 30	52.68		



404319073184701. Local number, S1807.6

LOCATION.--Lat 40°43'19", long 73°18'46", Hydrologic Unit 02030202, at north side of Kimberly Place, west side of Higbie Lane, West Islip. Owner: Town of Islip.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 21 ft, screened 19 to 21 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 23.5 ft above sea level. Measuring point: Top of casing, 0.45 ft below land-surface datum.

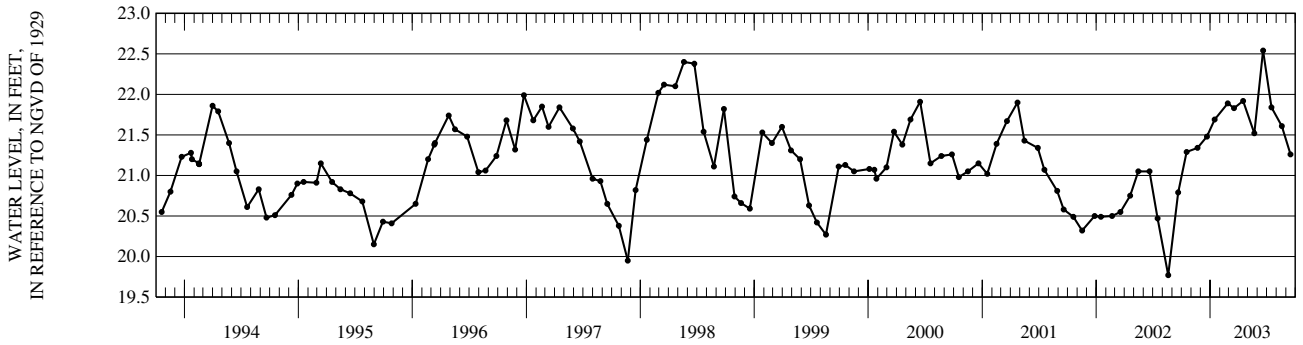
REMARKS.--Replaced well S1807.5 in April 1992 near same location. Unpublished records for October 1912 to November 1914, August 1932 to June 1933, and June 1936 to September 1975, for wells S1807.1 to S1807.5 are available in files of the Long Island Subdistrict Office.

PERIOD OF RECORD.--April 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.54 ft above sea level, June 19, 2003; lowest measured, 19.77 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	21.29	DEC 21	21.48	FEB 26	21.89	APR 16	21.92	JUN 19	22.54	AUG 18	21.61
NOV 21	21.34	JAN 15	21.69	MAR 18	21.83	MAY 22	21.52	JUL 16	21.84	SEP 15	21.26



SUFFOLK COUNTY—Continued

404221073164905. Local number, S1808.5

LOCATION.--Lat 40°42'21", long 73°16'49", Hydrologic Unit 02030202, at west side of Manor Lane, 332 ft north of Thompson Drive, West Islip. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 11 ft, screened 10 to 11 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 13.5 ft above sea level. Measuring point: Top of coupling, 0.22 ft below land-surface datum.

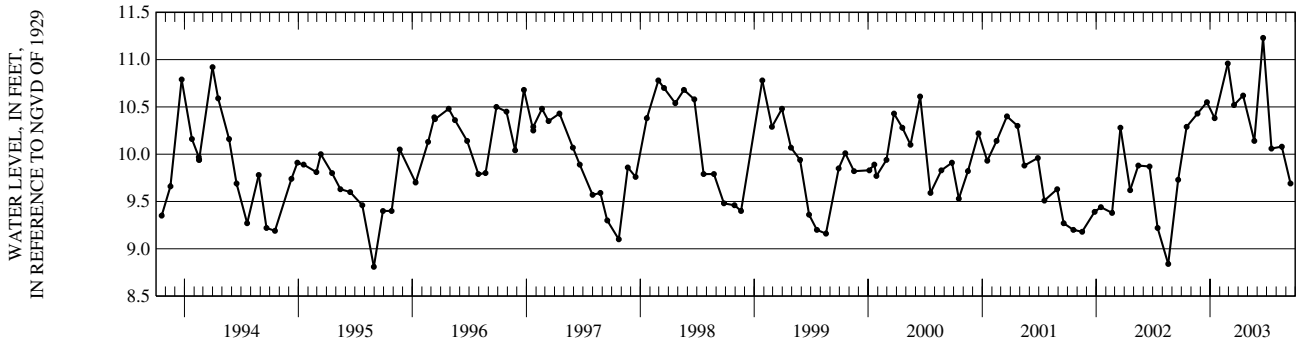
REMARKS.--Replaced well S1808.4 in October 1989 near same location. Unpublished records from October 1912 to September 1975, for wells S1808.1 to S1808.4 are available in files of the Long Island Subdistrict Office.

PERIOD OF RECORD.--October 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.23 ft above sea level, June 19, 2003; lowest measured, 8.81 ft above sea level, August 30, 1995

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	10.29	DEC 21	10.55	FEB 26	10.96	APR 16	10.62	JUN 19	11.23	AUG 18	10.08
NOV 21	10.43	JAN 15	10.38	MAR 18	10.52	MAY 22	10.14	JUL 16	10.06	SEP 15	9.69



404351073164904. Local number, S1809.4

LOCATION.--Lat 40°43'51", long 73°16'49", Hydrologic Unit 02030202, at southeast corner of Muncey Road and Manor Lane, in recharge basin, Bay Shore. Owner: Town of Islip.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 29 ft, screened 26 to 29 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 42.0 ft above sea level. Measuring point: Top of coupling, 0.45 ft below land-surface datum.

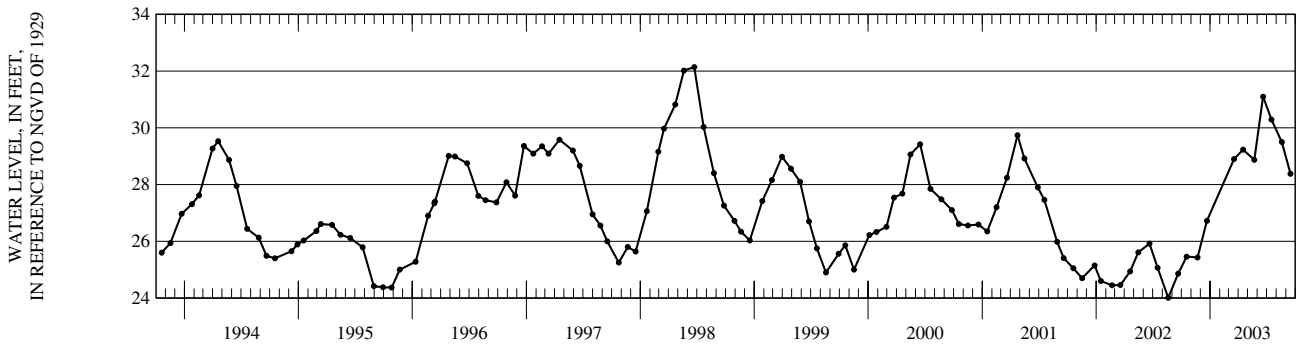
REMARKS.--Replaced well S1809.3 in March 1981 near same location. Unpublished records for October 1912 to November 1914, and August 1932 to September 1975, for wells S1809.1 to S1809.3 are available in files of the Long Island Subdistrict Office.

PERIOD OF RECORD.--March 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.97 ft above sea level, June 23, 1989; lowest measured, 24.01 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	25.46	DEC 21	26.72	APR 16	29.23	JUN 19	31.10	AUG 18	29.50		
NOV 21	25.43	MAR 18	28.90	MAY 22	28.87	JUL 16	30.29	SEP 15	28.38		



SUFFOLK COUNTY—Continued

404614073164404. Local number, S1810.4

LOCATION.--Lat 40°46'14", long 73°16'44", Hydrologic Unit 02030202, at west side of North Gardiner Drive, south of Pine Aire Drive, in front of house 1712, Pine Aire. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 55 ft, screened 52 to 55 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 90.8 ft above sea level. Measuring point: Top of coupling, 0.25 ft below land-surface datum.

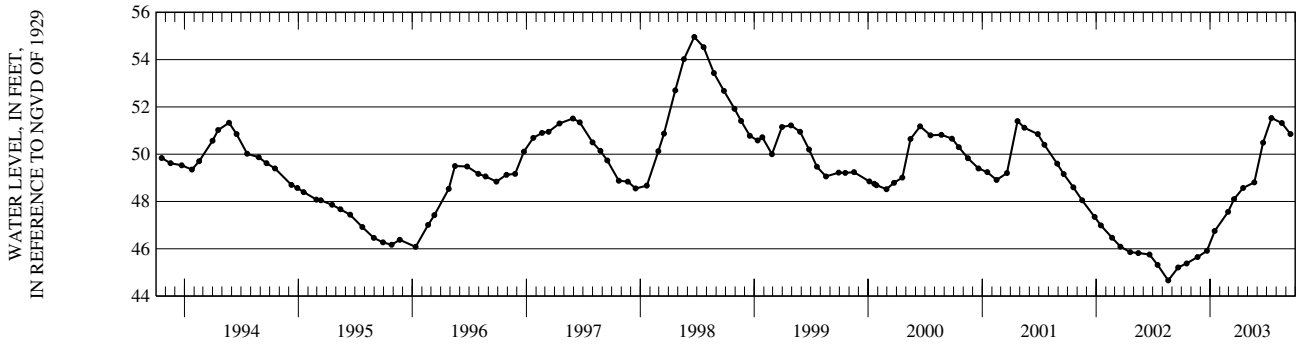
REMARKS.--Replaced well S1810.3 in November 1975 near same location. Unpublished records from October 1912 to November 1914, and August 1932 to September 1975, for wells S1810.1 to S1810.3 are available in files of the Long Island Subdistrict Office.

PERIOD OF RECORD.--November 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.28 ft above sea level, July 23, 1984; lowest measured, 44.66 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	45.38	DEC 21	45.91	FEB 27	47.56	APR 16	48.57	JUN 19	50.49	AUG 18	51.32
NOV 21	45.65	JAN 15	46.75	MAR 18	48.10	MAY 22	48.81	JUL 16	51.53	SEP 15	50.85



404958073085001. Local number, S1812.3

LOCATION.--Lat 40°49'58", long 73°08'50", Hydrologic Unit 02030202, at southwest corner of Smithtown Boulevard and Nichols Road, Ronkonkoma. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven PVC observation well, diameter 2 in., depth 50 ft, screened 46 to 50 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 69.9 ft above sea level. Measuring point: Top of coupling, 0.40 ft below land-surface datum.

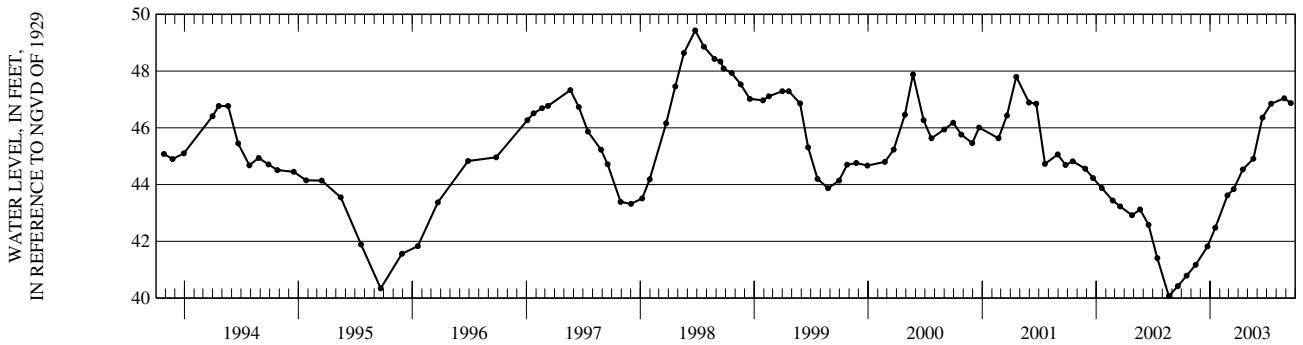
REMARKS.--Replaced well S1812.2 in May 1982 near same location. Unpublished records from April 1937 to September 1975 are available in files of the Long Island Subdistrict Office.

PERIOD OF RECORD.--May 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.34 ft above sea level, July 23, 1984; lowest measured, 40.07 ft above sea level, August 21, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	40.79	DEC 23	41.82	FEB 25	43.62	APR 15	44.53	JUN 17	46.36	AUG 26	47.04
NOV 15	41.17	JAN 17	42.48	MAR 17	43.84	MAY 19	44.91	JUL 15	46.85	SEP 16	46.87



SUFFOLK COUNTY—Continued

404737073112303. Local number, S1814.3

LOCATION.--Lat 40°47'37", long 73°11'23", Hydrologic Unit 02030202, at northwest corner of Suffolk Avenue and Dovecott Lane, Central Islip. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 54 ft, screened 51 to 54 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 63.5 ft above sea level. Measuring point: Top of coupling, 0.35 ft below land-surface datum.

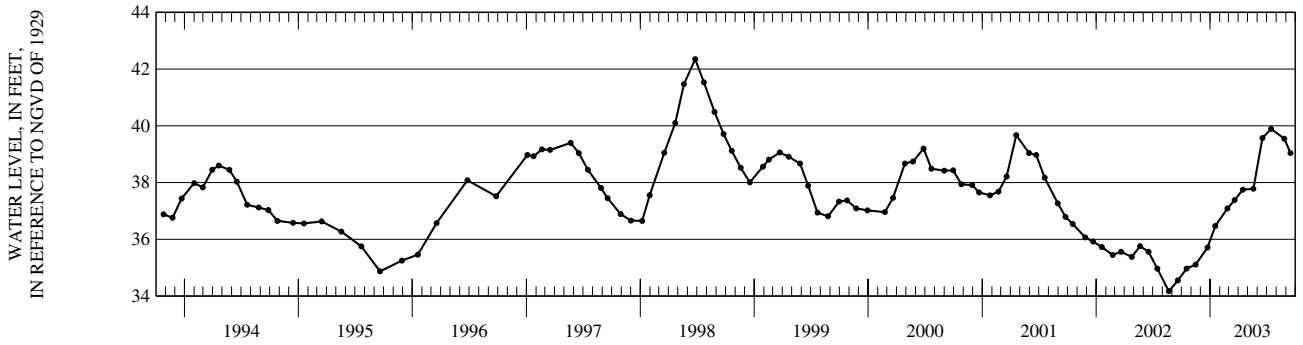
REMARKS.--Replaced well S1814.2 in May 1982 near same location, unpublished records from November 1939 to September 1975 are available in files of the Long Island Subdistrict Office.

PERIOD OF RECORD.--September 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.35 ft above sea level, June 25, 1998; lowest measured, 34.17 ft above sea level, August 21, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	34.97	DEC 23	35.71	FEB 25	37.09	APR 15	37.75	JUN 17	39.57	AUG 26	39.55
NOV 15	35.11	JAN 17	36.47	MAR 20	37.38	MAY 19	37.78	JUL 15	39.89	SEP 15	39.04



405146073031801. Local number, S3513.1

LOCATION.--Lat 40°51'46", long 73°03'18", Hydrologic Unit 02030202, at south side of State Route 25, 235 ft west of High View Drive, Selden. Owner: New York Department of Transportation.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled unused steel well, diameter 8 in. to 4 in., depth 65 ft, screened 63 to 65 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

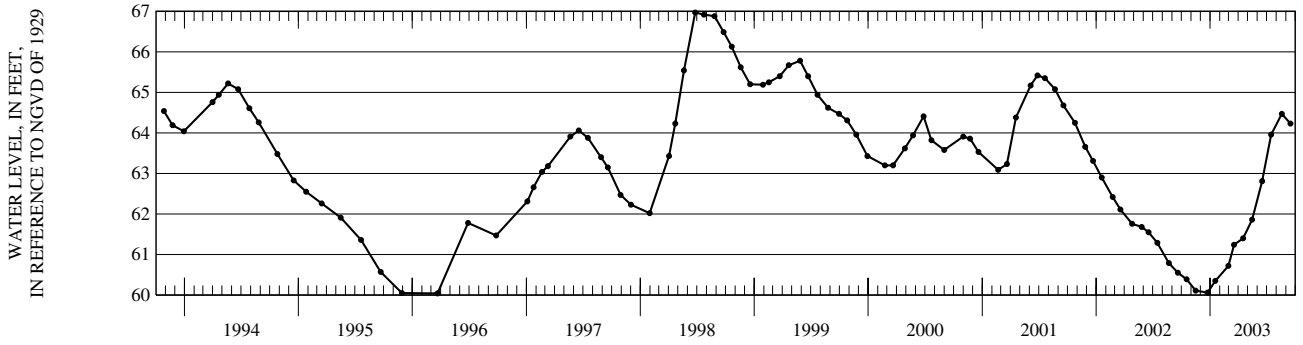
DATUM.--Land-surface datum is 101.0 ft above sea level. Measuring point: Top of 4-in to 1 $^{1}/_{4}$-in steel reducer, 1.31 ft above land-surface datum.

PERIOD OF RECORD.--April 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.91 ft above sea level, May 29, 1979; lowest measured, 56.06 ft above sea level, March 1, 1967.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	60.39	DEC 23	60.06	FEB 28	60.72	APR 16	61.40	JUN 16	62.81	AUG 18	64.47
NOV 15	60.11	JAN 17	60.35	MAR 18	61.24	MAY 15	61.86	JUL 15	63.96	SEP 15	64.23



SUFFOLK COUNTY—Continued

404812073004101. Local number, S3521.1

LOCATION.--Lat 40°48'12", long 73°00'41", Hydrologic Unit 02030202, at west side of Old Medford Avenue, 237 ft north of Cedar Avenue, Medford. Owner: Town of Brookhaven.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 in., depth 50 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

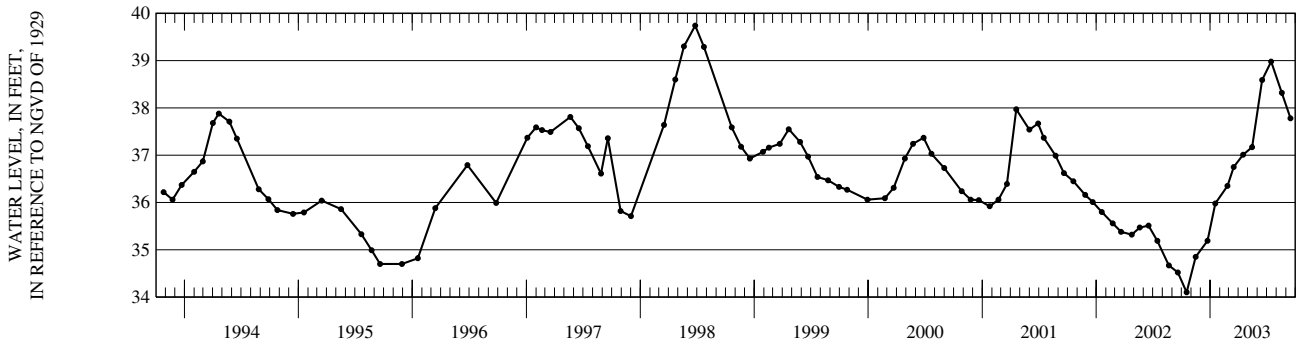
DATUM.--Land-surface datum is 71.8 ft above sea level. Measuring point: Top of casing, 0.35 ft above land-surface datum.

PERIOD OF RECORD.--January 1907 to current year. Unpublished records from January 1907 to July 1909, April 1942 to September 1975, are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.75 ft above sea level, March 27, 1979; lowest measured, 34.10 ft above sea level, October 17, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	34.10	DEC 23	35.19	FEB 25	36.35	APR 16	37.01	JUN 16	38.59	AUG 18	38.32
NOV 15	34.85	JAN 17	35.98	MAR 17	36.75	MAY 15	37.17	JUL 15	38.98	SEP 15	37.78



404806072553802. Local number, S3529.2

LOCATION.--Lat 40°48'01", long 72°55'38", Hydrologic Unit 02030202, at entrance to Brookhaven Landfill, south of Horseblock Road, South Yapank. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 45 ft, screened 41 to 45 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

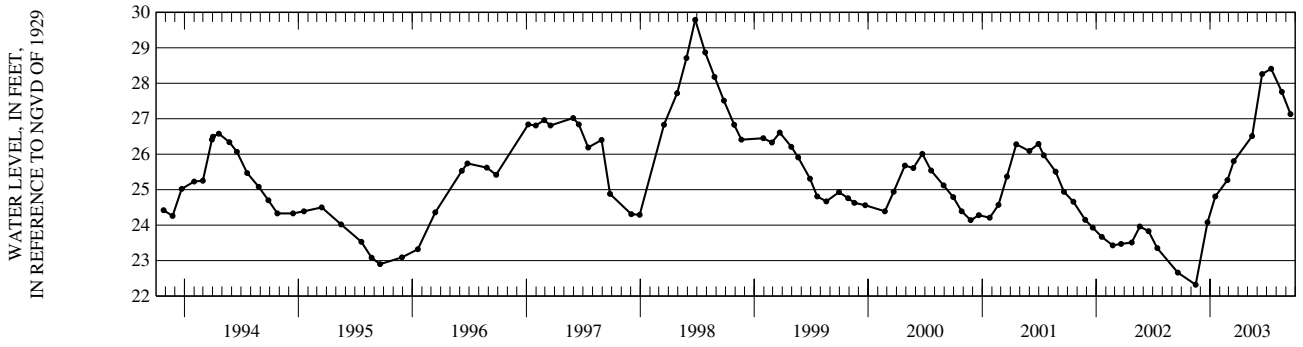
DATUM.--Land-surface datum is 34.0 ft above sea level. Measuring point: Top of coupling, 3.11 ft above land-surface datum.

PERIOD OF RECORD.--December 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.79 ft above sea level, June 25, 1998; lowest measured, 22.32 ft above sea level, November 15, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 15	22.32	JAN 17	24.81	MAR 17	25.80	JUN 16	28.26	AUG 18	27.76		
DEC 23	24.08	FEB 25	25.27	MAY 15	26.51	JUL 15	28.41	SEP 15	27.13		



SUFFOLK COUNTY—Continued

405037072390301. Local number, S3543.1

LOCATION.--Lat 40°50'37", long 72°39'03", Hydrologic Unit 02030202, at north side of Stewart Avenue, 0.25 mi west of Old Riverhead Road, 226 ft north on dirt path, West Hampton. Owner: City of New York.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 in., depth 58 ft, screened 56 to 58 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

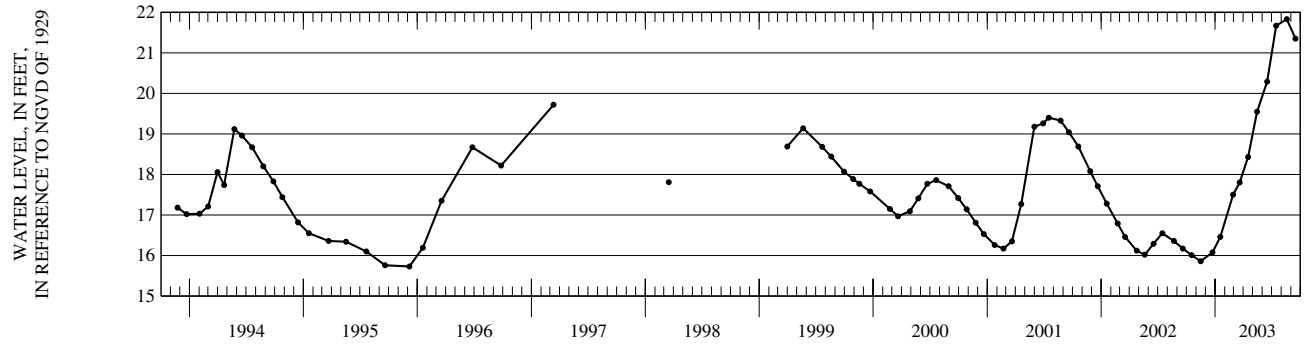
DATUM.--Land-surface datum is 64.1 ft above sea level. Measuring point: Top of casing, 0.34 ft above land-surface datum.

PERIOD OF RECORD.--March 1907 to December 1909, April 1942 to April 1943, January 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.53 ft above sea level, July 23, 1984; lowest measured, 14.94 ft above sea level, November 25, 1986.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	16.01	DEC 23	16.08	FEB 27	17.50	APR 16	18.43	JUN 16	20.29	AUG 18	21.83
NOV 15	15.86	JAN 17	16.46	MAR 20	17.80	MAY 15	19.55	JUL 15	21.67	SEP 15	21.35



405145072592501. Local number, S3870.1

LOCATION.--Lat 40°51'45", long 72°59'25", Hydrologic Unit 02030202, at south side of Coram Yapank Road, 115 ft west of Overton Road, Coram. Owner: Town of Brookhaven.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 43 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

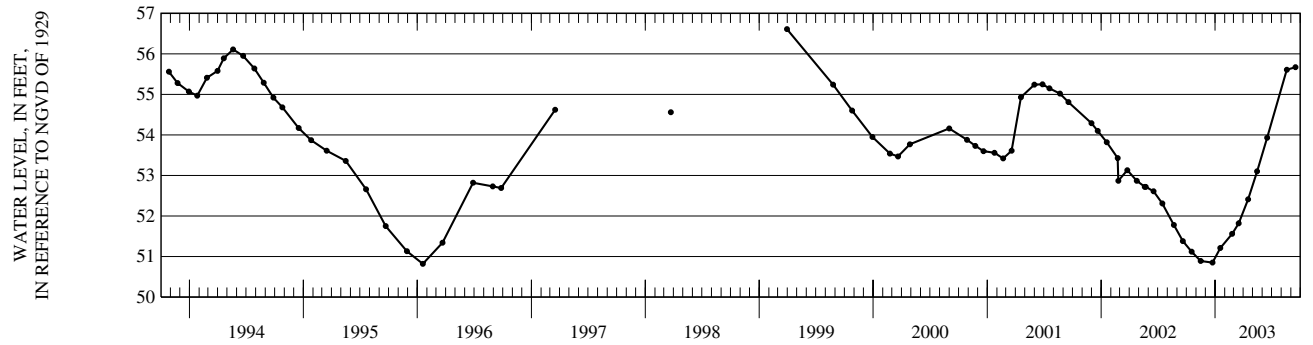
DATUM.--Land-surface datum is 87.0 ft above sea level. Measuring point: Top of casing, 1.11 ft above land-surface datum.

PERIOD OF RECORD.--January 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.86 ft above sea level, June 27, 1979; lowest measured, 49.54 ft above sea level, October 26, 1966.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	51.12	DEC 23	50.85	FEB 24	51.56	APR 16	52.41	JUN 16	53.93	SEP 15	55.67
NOV 15	50.89	JAN 17	51.21	MAR 17	51.82	MAY 15	53.10	AUG 18	55.61		



SUFFOLK COUNTY—Continued

405343073055004. Local number, S3955.4

LOCATION.--Lat 40°53'43", long 73°05'50", Hydrologic Unit 02030201, at west side of Mark Tree Road, south of Pond Path, Setauket. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 80 ft, screened 76 to 80 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 123.0 ft above sea level. Measuring point: Top of coupling, 0.24 ft below land-surface datum.

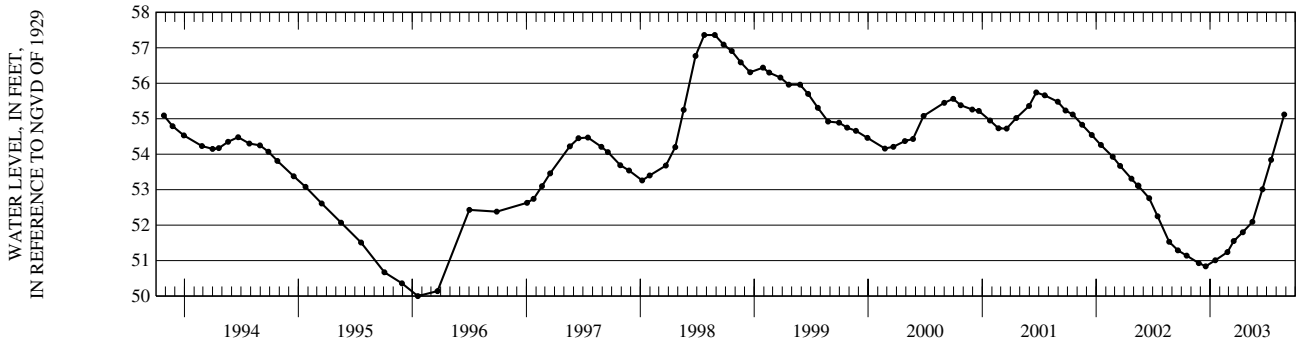
REMARKS.--Replaced well S3955.3 in April 1975 near same location. Unpublished records from September 1944 to September 1975 are available in files of the Long Island Subdistrict Office.

PERIOD OF RECORD.--April 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.23 ft above sea level, June 21, 1979; lowest measured, 50.00 ft above sea level, January 18, 1996.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	51.14	DEC 17	50.84	FEB 25	51.24	APR 15	51.80	JUN 17	53.01	AUG 26	55.12
NOV 25	50.93	JAN 17	51.01	MAR 17	51.55	MAY 16	52.09	JUL 15	53.84		



405743072425701. Local number, S4271.1

LOCATION.--Lat 40°57'43", long 72°42'57", Hydrologic Unit 02030202, at Long Island Research Farm, east of Horton Avenue, south of Sound Avenue, Riverhead. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 105 ft, screened 100 to 105 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

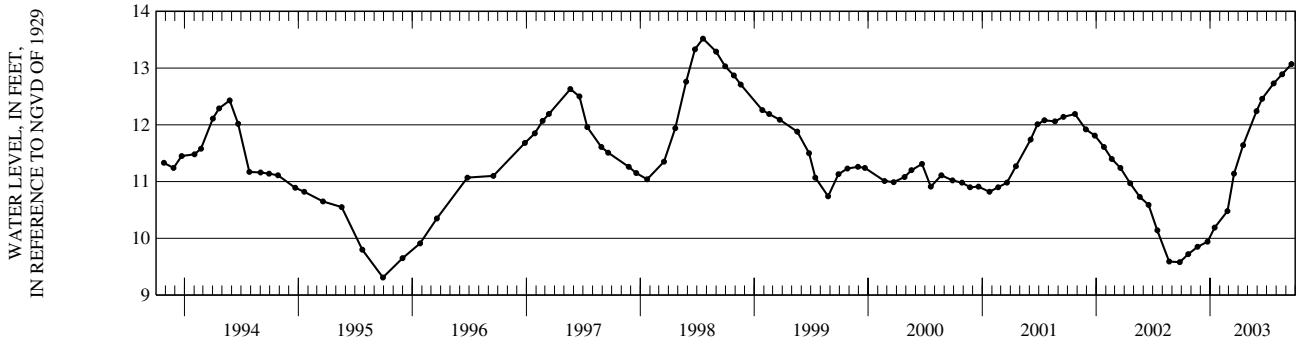
DATUM.--Land-surface datum is 100.3 ft above sea level. Measuring point: Top of coupling, 0.04 ft above land-surface datum.

PERIOD OF RECORD.--August 1945 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.25 ft above sea level, August 12, 1984; lowest measured, 8.16 ft above sea level, September 5, 1966.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	9.72	DEC 23	9.94	FEB 25	10.48	APR 16	11.64	JUN 16	12.46	AUG 19	12.89
NOV 21	9.85	JAN 15	10.19	MAR 18	11.14	MAY 29	12.24	JUL 23	12.73	SEP 18	13.07



SUFFOLK COUNTY—Continued

405149072532201. Local number, S5517.1

LOCATION.--Lat 40°51'49", long 72°53'22", Hydrologic Unit 02030202, at Brookhaven National Laboratory, northwest corner of Princeton Avenue and Upton Road, 77 ft south of parking field. Owner: Brookhaven National Laboratory.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 91 ft, screened 85 to 91 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 115.0 ft above sea level. Measuring point: Top of casing, 1.96 ft above land-surface datum.

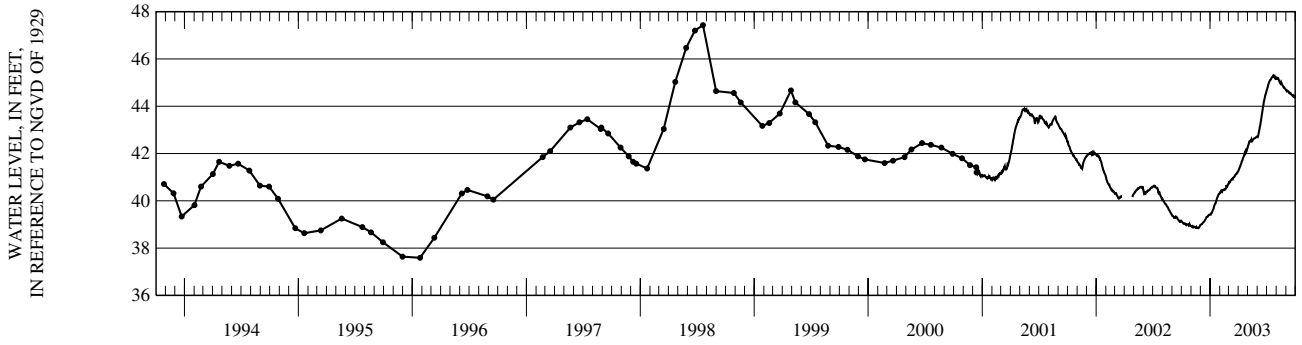
PERIOD OF RECORD.--April 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.43 ft above sea level, July 20, 1998; lowest measured, 33.34 ft above sea level, March 1, 1967.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	39.07	38.89	39.01	39.47	40.38	40.83	41.41	42.46	42.87	44.87	45.19	44.65
10	39.03	38.90	39.10	39.63	40.45	40.89	41.58	42.54	43.19	45.06	45.06	44.60
15	38.98	38.86	39.19	39.84	40.48	40.97	41.77	42.52	43.64	45.17	44.98	44.55
20	39.00	38.86	39.32	39.99	40.52	41.04	41.96	42.63	44.05	45.25	44.89	44.47
25	38.99	38.85	39.37	40.19	40.65	41.14	42.05	42.65	44.39	45.23	44.80	44.42
EOM	38.93	38.98	39.41	40.32	40.71	41.25	42.23	42.71	44.64	45.21	44.69	44.34
MEAN	39.01	38.89	39.21	39.86	40.50	40.99	41.77	42.56	43.66	45.10	44.96	44.52
MAX	39.12	38.98	39.41	40.32	40.71	41.25	42.23	42.72	44.64	45.30	45.22	44.67
MIN	38.93	38.84	38.99	39.42	40.34	40.72	41.27	42.28	42.70	44.68	44.69	44.34

WTR YR 2003 MEAN 41.76 MAX 45.30 MIN 38.84



405650072542002. Local number, S6411.2

LOCATION.--Lat 40°56'50", long 72°54'20", Hydrologic Unit 02030202, at south side of State Route 25A, 100 ft west of Ridge Road, Shoreham. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 140 ft, screened 130 to 140 ft.

INSTRUMENTATION.--Measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Land-surface datum is 138.4 ft above sea level. Measuring point: Top of casing, 1.73 ft above land-surface datum.

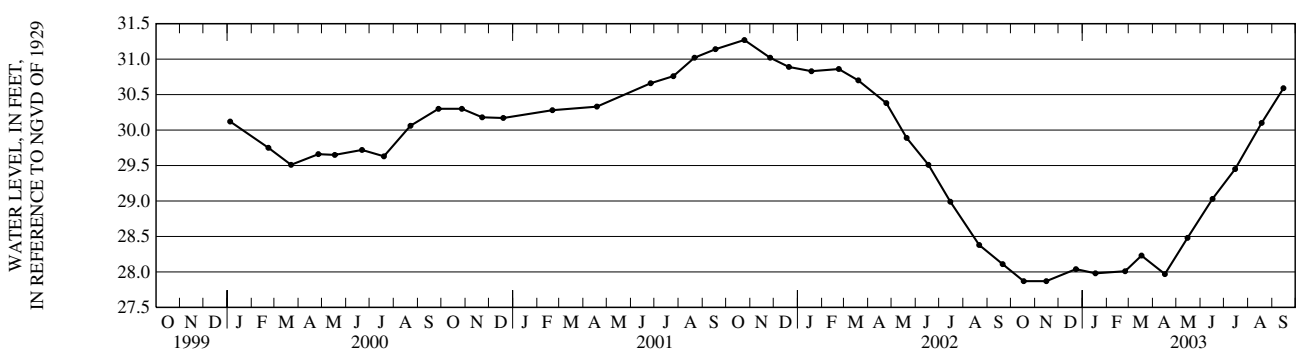
REMARKS.--Replaced well S6411.1 in August 1999 near same location

PERIOD OF RECORD.--January 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.27 ft above sea level, October 24, 2001; lowest measured, 27.87 ft above sea level, October 17 and November 15, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	27.87	DEC 23	28.04	FEB 24	28.01	APR 16	27.97	JUN 16	29.03	AUG 18	30.10
NOV 15	27.87	JAN 17	27.98	MAR 17	28.23	MAY 15	28.48	JUL 15	29.45	SEP 15	30.59



SUFFOLK COUNTY—Continued

405308072553101. Local number, S6413.1

LOCATION.--Lat 40°53'08", long 72°55'31", Hydrologic Unit 02030202, at south side of State Route 25, 70 ft east of Woodville Road, Middle Island. Owner: New York State Department of Transportation.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 108 ft, screened 103 to 108 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

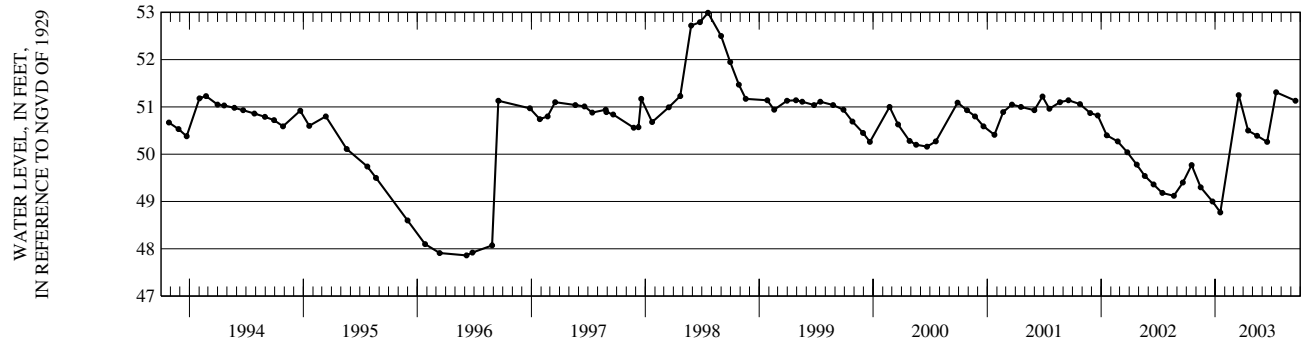
DATUM.--Land-surface datum is 93.8 ft above sea level. Measuring point: Top of steel meter box rim at yellow arrow, 0.13 ft above land-surface datum.

PERIOD OF RECORD.--January 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.16 ft above sea level, April 12, 1979; lowest measured, 42.40 ft above sea level, March 1, 1967.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	49.77	DEC 23	49.00	MAR 17	51.25	MAY 15	50.39	JUL 15	51.31		
NOV 15	49.30	JAN 17	48.77	APR 16	50.50	JUN 16	50.26	SEP 15	51.13		



405222072523301. Local number, S6431.1

LOCATION.--Lat 40°52'23", long 72°52'36", Hydrologic Unit 02030202, at Brookhaven National Laboratory, northwest corner of Thomson Road and Forth Avenue, Upton. Owner: Brookhaven National Laboratory.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 125 ft, screened 121 to 125 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

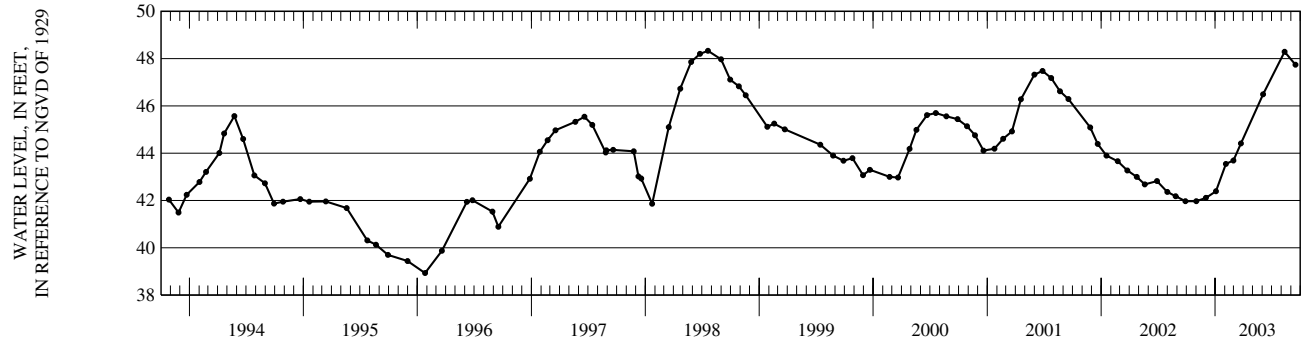
DATUM.--Land-surface datum is 87.7 ft above sea level. Measuring point: Top of casing, 1.72 ft below land-surface datum.

PERIOD OF RECORD.--January 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 48.98 ft above sea level, April 12, 1979; lowest measured, 38.93 ft above sea level, January 25, 1996.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	41.97	JAN 03	42.39	FEB 28	43.69	JUN 03	46.49	SEP 15	47.74		
DEC 02	42.11	FEB 04	43.55	MAR 24	44.41	AUG 11	48.29				



SUFFOLK COUNTY—Continued

405223072523401. Local number, S6434.1

LOCATION.--Lat 40°42'23", long 72°52'34", Hydrologic Unit 02030202, at Brookhaven National Laboratory, northeast corner of Thomson Road and Forth Avenue, Upton. Owner: Brookhaven National Laboratory.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel public supply well, diameter 10 in., depth 1,395 ft, screened 1,312 to 1,392 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

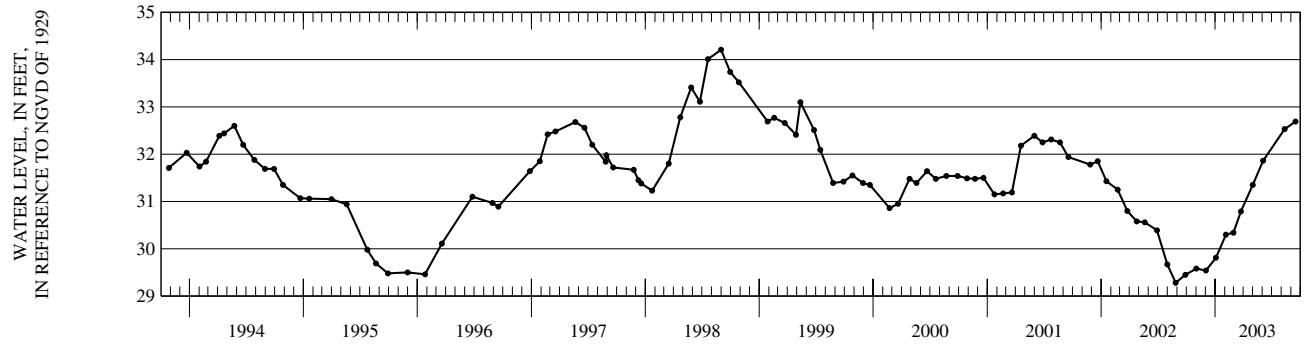
DATUM.--Land-surface datum is 85.0 ft above sea level. Measuring point: Top of casing at yellow arrow, 1.58 ft above land- surface datum.

PERIOD OF RECORD.--August 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.11 ft above sea level, July 12, 1979; lowest measured, 28.74 ft above sea level, March 1, 1967.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	29.58	JAN 03	29.81	FEB 28	30.34	MAY 01	31.35	AUG 11	32.53		
DEC 02	29.54	FEB 04	30.30	MAR 24	30.79	JUN 03	31.86	SEP 15	32.69		



405223072523402. Local number, S6455.1

LOCATION.--Lat 40°52'23", long 72°52'34", Hydrologic Unit 02030202, at Brookhaven National Laboratory, northeast corner of Thomson Road and Forth Avenue, Upton. Owner: Brookhaven National Laboratory.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 962 ft, screened 952 to 962 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

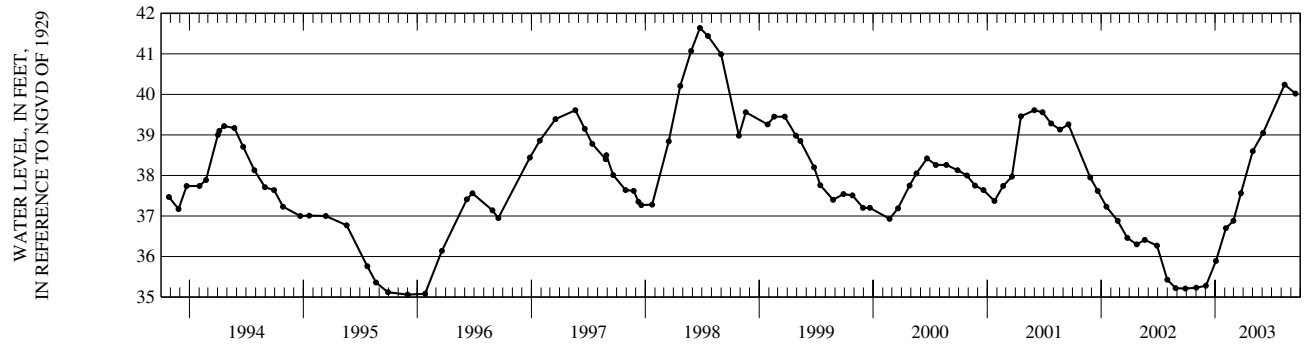
DATUM.--Land-surface datum is 85.0 ft above sea level. Measuring point: Top of casing, 1.66 ft above land-surface datum.

PERIOD OF RECORD.--July 1949 to June 1952, January 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.50 ft above sea level, April 2, 1979; lowest measured, 33.82 ft above sea level, December 27, 1966 and March 1, 1967.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	35.23	JAN 03	35.89	FEB 28	36.88	MAY 01	38.60	AUG 11	40.24		
DEC 02	35.28	FEB 04	36.70	MAR 24	37.56	JUN 03	39.05	SEP 15	40.02		



SUFFOLK COUNTY—Continued

405830072331502. Local number, S6558.2

LOCATION.--Lat 40°58'30", long 72°33'15", Hydrologic Unit 02030201, at north side of Main Road (State Route 25), east side of access road to Laurel Lake, at southwest corner of baseball field, Mattituck. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 45 ft, screened 35 to 45 ft.

INSTRUMENTATION.--Measurement with chalked tape by U.S. Geological Survey personnel.

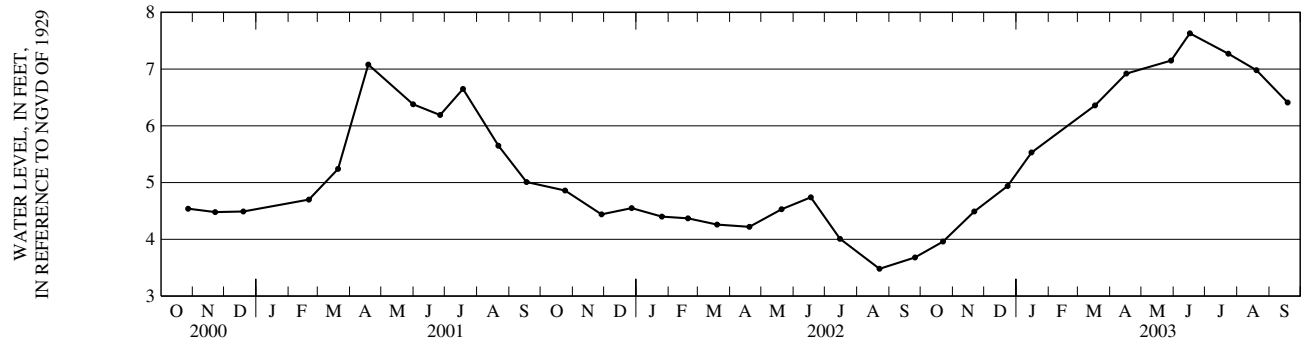
DATUM.--Land-surface datum is 38.0 ft above sea level. Measuring point: Top of casing, 0.12 ft below land-surface datum.

PERIOD OF RECORD.--July 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.63 ft above sea level, June 16, 2003; lowest measured, 3.48 ft above sea level, August 22, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	3.96	DEC 23	4.94	MAR 17	6.36	MAY 29	7.15	JUL 23	7.27	SEP 18	6.41
NOV 21	4.49	JAN 15	5.53	APR 16	6.92	JUN 16	7.63	AUG 19	6.98		



405756072173501. Local number, S8833.1

LOCATION.--Lat 40°57'56", long 72°17'35", Hydrologic Unit 02030202, at west side of Toppings Path, east side of Crooked Pond, Bridgehampton. Owner: Town of Southampton.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 in., depth 13 ft, screened 10 to 13 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 20.0 ft above sea level. Measuring point: Top of casing, 0.58 ft above land-surface datum.

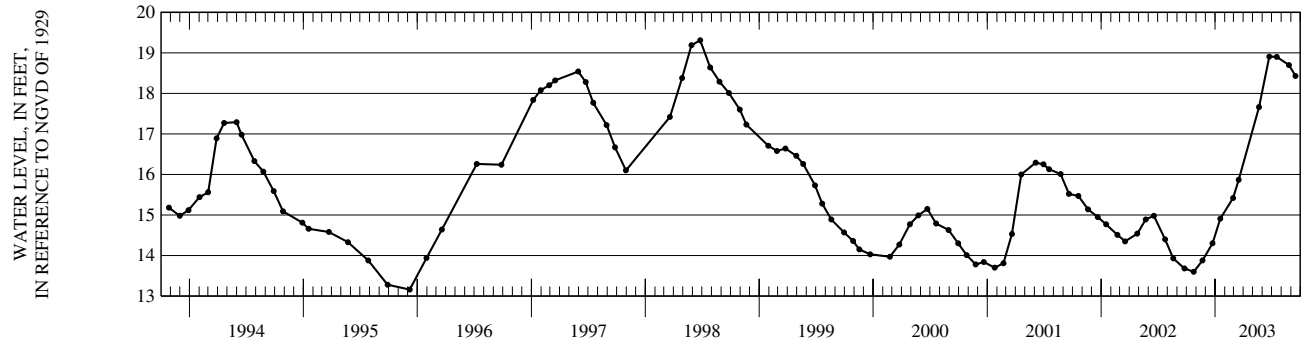
REMARKS.--Water-level elevations from December 29, 1988 to December 23, 2002 were reported as 1.05 ft. higher than actual levels. This was due to a discrepancy in the measuring-point elevation of the well, which was not accounted for in the computer data records. Water-level elevations for the period in question were corrected in January 2003.

PERIOD OF RECORD.--October 1950 to current year. Unpublished records from October 1950 to September 1977 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.31 ft above sea level, June 25, 1998; lowest measured, 12.84 ft above sea level, March 29, 1982.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	13.60	DEC 23	14.30	FEB 27	15.42	May 21	17.66	JUL 17	18.90	SEP 15	18.43
NOV 21	13.88	JAN 17	14.91	MAR 17	15.87	JUN 23	18.91	AUG 25	18.70		



SUFFOLK COUNTY—Continued

405756072173502. Local number, S8833.2

LOCATION.--Lat 40°57'56", long 72°17'35", Hydrologic Unit 02030202, at west side of Toppings Path, east side of Crooked Pond, Bridgehampton. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven PVC observation well, diameter 2 in., depth 20 ft, screened 10 to 15 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 20.0 ft above sea level. Measuring point: Top of casing, 0.12 ft below land-surface datum.

REMARKS.--Satellite elevation telemeter at station. Replaced well S8833.1 in May 2003 near same location.

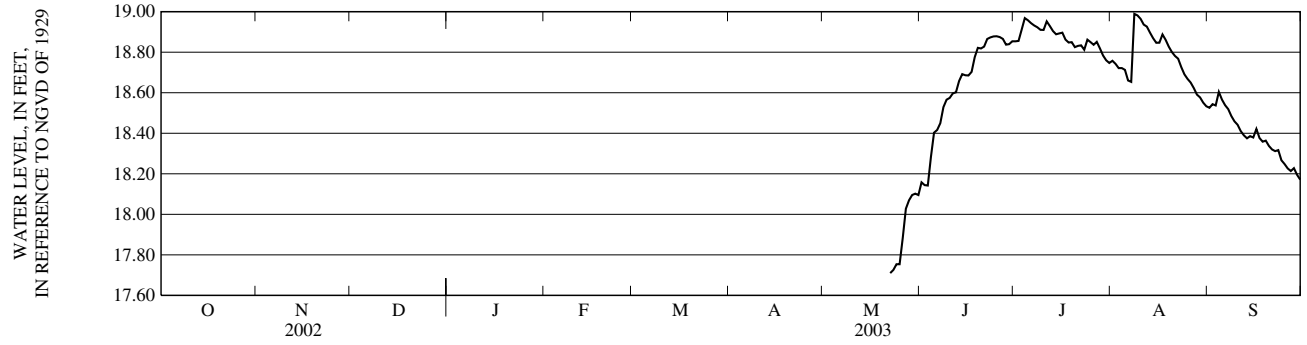
PERIOD OF RECORD.--May 2003 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.99 ft above sea level, August 9, 2003; lowest measured, 17.68 ft above sea level, May 21, 2003.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	18.40	18.96	18.71	18.57
10	---	---	---	---	---	---	---	---	18.57	18.91	18.96	18.44
15	---	---	---	---	---	---	---	---	18.69	18.89	18.85	18.38
20	---	---	---	---	---	---	---	---	18.82	18.83	18.80	18.34
25	---	---	---	---	---	---	---	17.75	18.88	18.85	18.67	18.25
EOM	---	---	---	---	---	---	---	18.10	18.85	18.75	18.53	18.17
MEAN	---	---	---	---	---	---	---	---	18.64	18.87	18.77	18.38
MAX	---	---	---	---	---	---	---	---	18.88	18.97	18.99	18.60
MIN	---	---	---	---	---	---	---	---	18.14	18.75	18.53	18.17

WTR YR 2003 MEAN 18.61 MAX 18.99 MIN 17.71



405309072233101. Local number, S8836.1

LOCATION.--Lat 40°53'09", long 72°23'31", Hydrologic Unit 02030202, at south side of Nugent Street, 399 ft east of Windmill Lane, Southampton. Owner: Southampton Fire Department.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel fire-protection well, diameter 8 in., depth 37 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

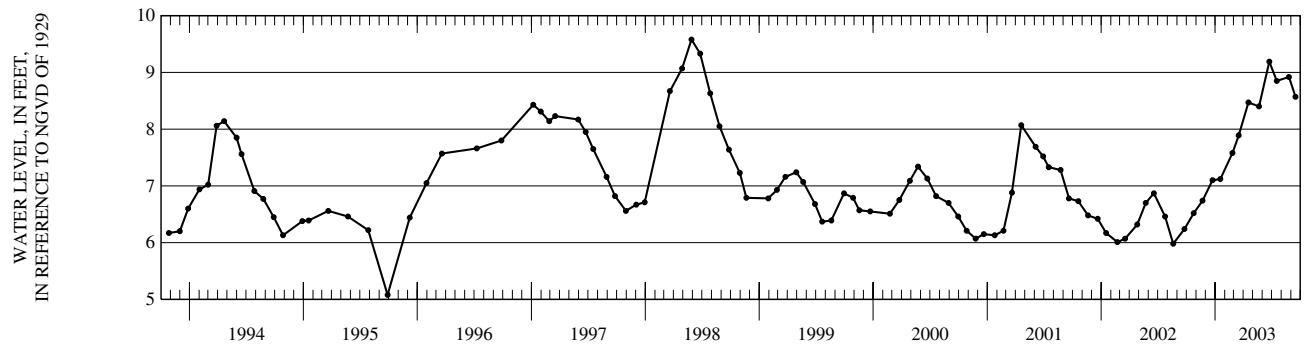
DATUM.--Land-surface datum is 18.0 ft above sea level. Measuring point: Top edge of 8-in steel casing, inside elbow extension, 0.87 ft above land-surface datum.

PERIOD OF RECORD.--July 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.58 ft above sea level, May 28, 1998; lowest measured, 4.93 ft above sea level, August 30, 1968

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	6.52	DEC 23	7.10	FEB 25	7.58	APR 17	8.47	JUN 23	9.19	AUG 25	8.92
NOV 21	6.74	JAN 17	7.12	MAR 17	7.89	MAY 21	8.40	JUL 17	8.85	SEP 15	8.57



SUFFOLK COUNTY—Continued

405628072164701. Local number, S8838.1

LOCATION.--Lat 40°56'28", long 72°16'47", Hydrologic Unit 02030202, at west side of Sagg Road, 153 ft north of Montauk Highway (State Route 27), Bridgehampton. Owner: Bridgehampton Fire Department.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel fire-protection well, diameter 6 in., depth 46 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

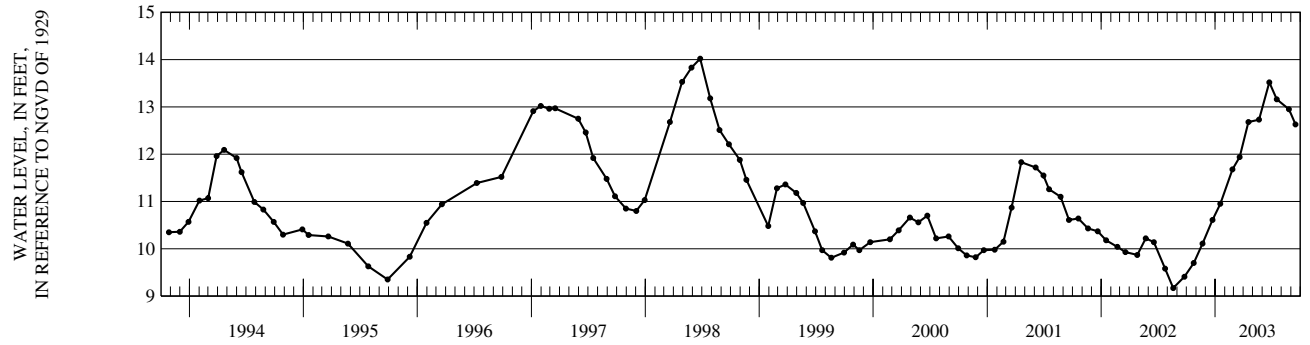
DATUM.--Land-surface datum is 28.0 ft above sea level. Measuring point: Top edge of 6-in steel casing, inside elbow extension, 0.40 ft above land-surface datum.

PERIOD OF RECORD.--July 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.02 ft above sea level, June 25, 1998; lowest measured, 8.84 ft above sea level, August 8, 1966.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	9.70	DEC 23	10.61	FEB 25	11.68	APR 17	12.68	JUN 23	13.52	AUG 25	12.95
NOV 21	10.11	JAN 17	10.95	MAR 20	11.94	MAY 21	12.73	JUL 17	13.16	SEP 15	12.63



405829072084302. Local number, S8839.2

LOCATION.--Lat 40°58'29", long 72°08'43", Hydrologic Unit 02030202, at west side of Windmill Lane, 0.1 mi north of State Route 27, Amaganset. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 50 ft, screened 40 to 50 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 37.0 ft above sea level. Measuring point: Top of casing, 0.35 ft below land-surface datum.

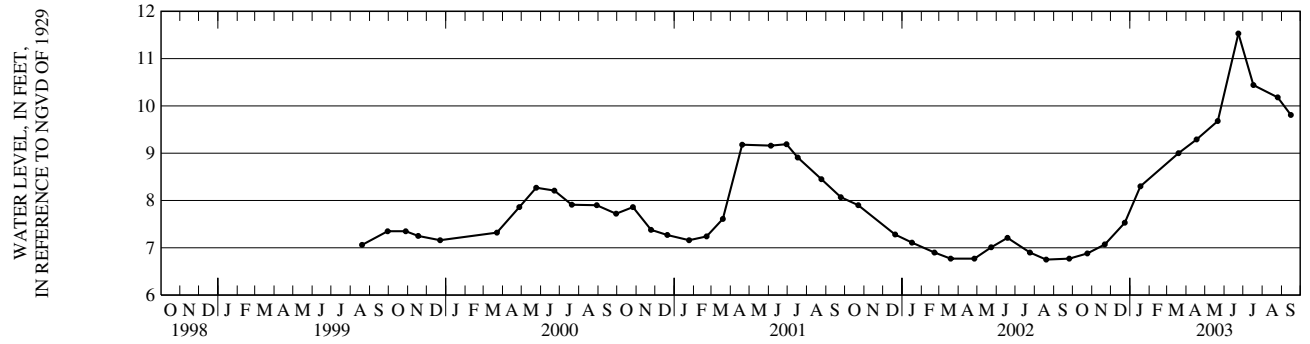
REMARKS.--Replaced well S8839.1 in August 1999 near same location.

PERIOD OF RECORD.--August 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.53 ft above sea level, June 23, 2003; lowest measured, 6.75 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	6.88	DEC 23	7.53	MAR 19	9.00	MAY 21	9.68	JUL 17	10.44	SEP 15	9.81
NOV 21	7.07	JAN 17	8.30	APR 17	9.29	JUN 23	11.53	AUG 25	10.18		



SUFFOLK COUNTY—Continued

405906072110102. Local number, S8843.2

LOCATION.--Lat 40°59'06", long 72°11'01", Hydrologic Unit 02030202, at east side of Three Mile Harbor Road, 300 ft south of Boat Steerers Court, Freetown. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 35 ft, screened 25 to 30 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 30.0 ft above sea level. Measuring point: Top of coupling, 0.79 ft below land-surface datum.

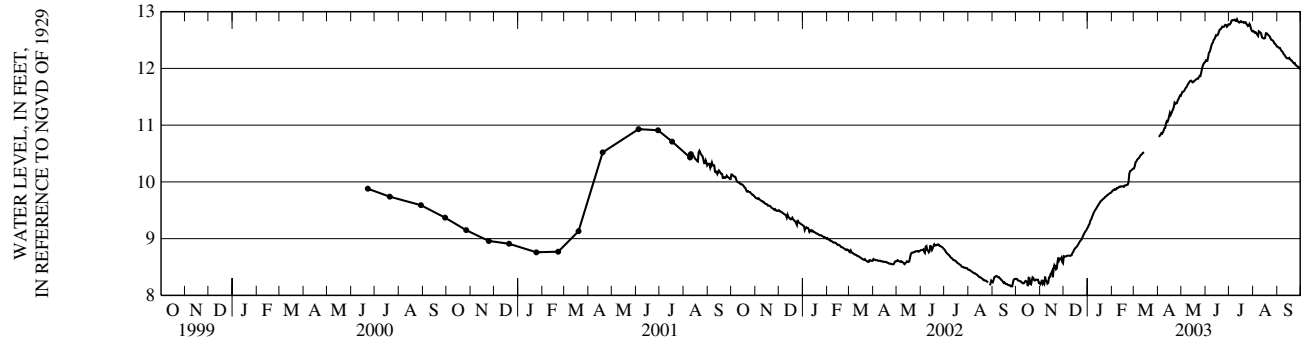
PERIOD OF RECORD.--June 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.87 ft above sea level, July 7, 8, and 11, 2003; lowest measured, 8.10 ft above sea level, October 16, 2002.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.26	8.23	8.69	9.34	9.86	10.39	10.86	11.62	12.28	12.85	12.62	12.33
10	8.21	8.21	8.70	9.50	9.91	10.48	10.95	11.74	12.45	12.84	12.63	12.24
15	8.22	8.39	8.82	9.61	9.92	---	11.16	11.75	12.58	12.82	12.53	12.17
20	8.19	8.51	8.91	9.69	9.95	---	11.28	11.81	12.69	12.80	12.59	12.12
25	8.26	8.62	9.03	9.76	10.20	---	11.39	11.86	12.75	12.75	12.50	12.05
EOM	8.22	8.57	9.18	9.82	10.23	---	11.52	12.11	12.78	12.65	12.39	11.98
MEAN	8.25	8.41	8.86	9.59	9.97	---	11.16	11.79	12.54	12.80	12.56	12.18
MAX	8.32	8.67	9.18	9.82	10.23	---	11.52	12.11	12.78	12.86	12.66	12.38
MIN	8.16	8.20	8.68	9.20	9.84	---	10.79	11.55	12.13	12.65	12.39	11.98

WTR YR 2003 MEAN 10.73 MAX 12.86 MIN 8.16



405948072172101. Local number, S8844.1

LOCATION.--Lat 40°59'07", long 72°15'12", Hydrologic Unit 02030202, at south side of Hempstead Street, 19 ft east of Hampton Street, Sag Harbor. Owner: Sag Harbor Fire Department.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel fire-protection well, diameter 6 in., depth 85 ft, screened assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

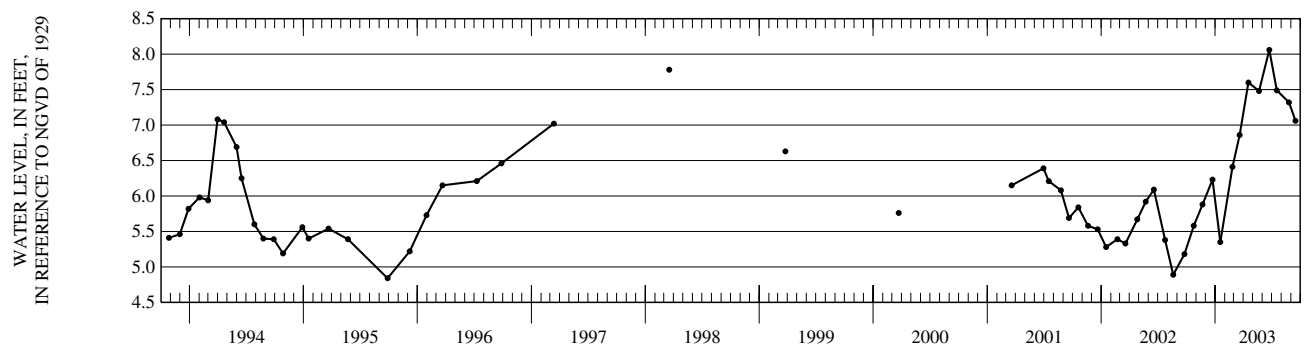
DATUM.--Land-surface datum is 19.0 ft above sea level. Measuring point: Top edge of 6-in steel casing, inside elbow extenstion, 1.48 ft above land-surface datum.

PERIOD OF RECORD.--August 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.06 ft above sea level, June 23, 2003; lowest measured, 4.43 ft above sea level, December 26, 1950.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	5.58	DEC 23	6.23	FEB 25	6.41	APR 17	7.60	JUN 23	8.06	AUG 25	7.32
NOV 21	5.88	JAN 17	5.35	MAR 20	6.86	MAY 21	7.48	JUL 17	7.49	SEP 15	7.06



SUFFOLK COUNTY—Continued

410034072094701. Local number, S15048.1

LOCATION.--Lat 41°00'35", long 72°09'48", Hydrologic Unit 02030201, at east side of Springs-Fireplace Road and Church Lane, East Hampton. Owner: Town of Easthampton.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel fire-protection well, diameter 6 in., depth 46 ft, screened 31 to 46 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

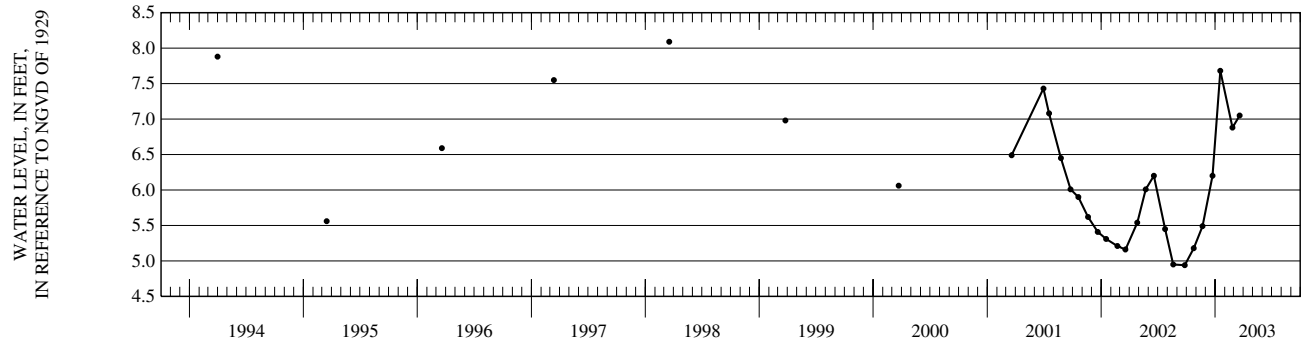
DATUM.--Land-surface datum is 20.0 ft above sea level. Measuring point: Top inside of outlet, 1.69 ft above land-surface datum.

PERIOD OF RECORD.--April 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.99 ft above sea level, June 22, 1982; lowest measured, 4.91 ft above sea level, September 18, 1981.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	5.18	NOV 21	5.49	DEC 23	6.20	JAN 17	7.68	FEB 25	6.88	MAR 20	7.05



405250073180801. Local number, S15622.1

LOCATION.--Lat 40°52'50", long 73°18'08", Hydrologic Unit 02030201, at north side of Pulaski Road, 17 ft east of Rowena Lane, Northport. Owner: Rottkamp.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel unused domestic supply well, diameter 10 in., depth 458 ft, screened 437 to 457 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

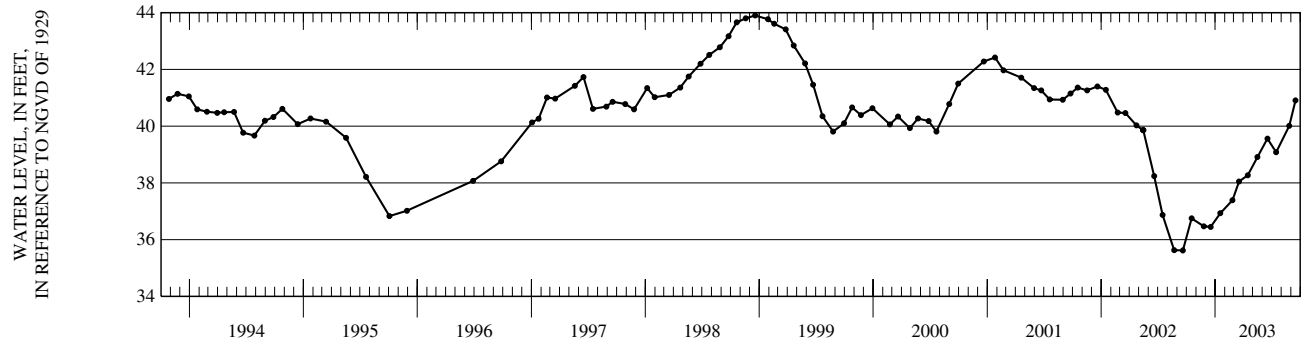
DATUM.--Land-surface datum is 205.0 ft above sea level. Measuring point: Top of hole in steel plate at yellow arrow, 0.19 ft below land-surface datum.

PERIOD OF RECORD.--January 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.09 ft above sea level, January 7, 1980; lowest measured, 34.33 ft above sea level, April 14, 1969.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	36.75	DEC 17	36.45	FEB 25	37.39	APR 15	38.27	JUN 17	39.56	AUG 26	40.01
NOV 25	36.47	JAN 17	36.93	MAR 18	38.05	MAY 16	38.91	JUL 15	39.08	SEP 15	40.91



SUFFOLK COUNTY—Continued

410634072223601. Local number, S16783.2

LOCATION.--Lat 41°06'34", long 72°22'36", Hydrologic Unit 02030201, at west side of Moore Lane, 61 ft south of North Road (State Route 25), Southold. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 28 ft, screened 20 to 24 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

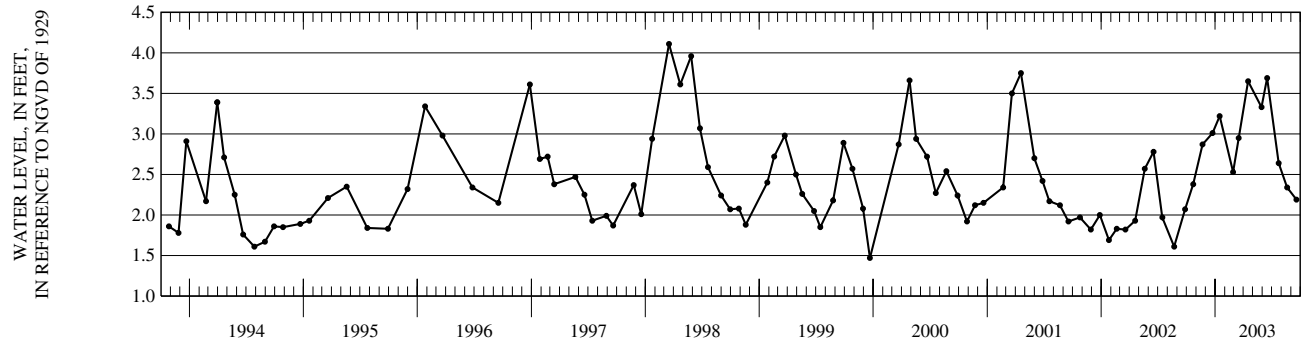
DATUM.--Land-surface datum is 16.0 ft above sea level. Measuring point: Top of coupling, 0.13 ft below land-surface datum.

PERIOD OF RECORD.--July 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.11 ft above sea level, March 17, 1998; lowest measured, 1.47 ft above sea level, December 21, 1999.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	2.38	DEC 23	3.01	FEB 27	2.53	APR 16	3.65	JUN 16	3.69	AUG 19	2.34
NOV 21	2.87	JAN 15	3.22	MAR 17	2.95	MAY 29	3.33	JUL 23	2.64	SEP 18	2.19



410858072171501. Local number, S16787.1

LOCATION.--Lat 41°08'58", long 72°17'15", Hydrologic Unit 02030201, at south side of State Route 25, east of Platt Road, Orient. Owner: Suffolk County Department of Public Works.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 $^{1}/_{4}$ in., depth 44 ft, screened 41 to 44 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

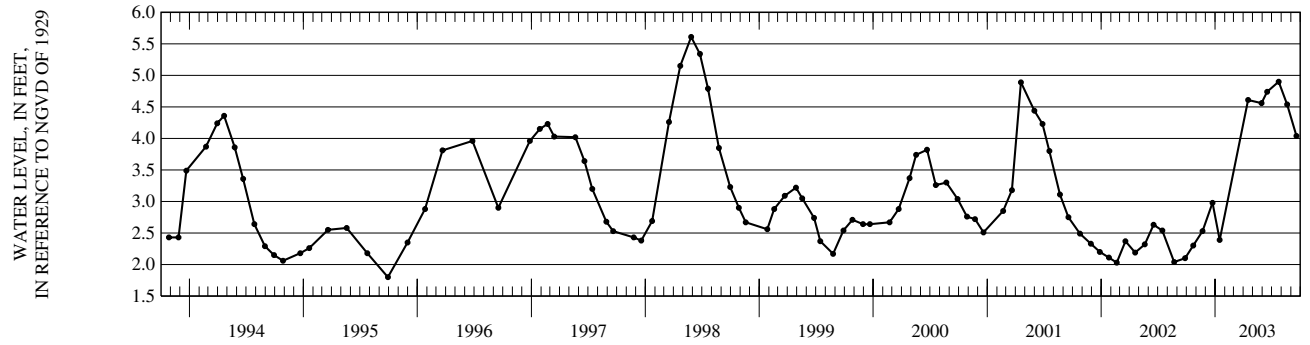
DATUM.--Land-surface datum is 22.3 ft above sea level. Measuring point: Top of casing, 0.14 ft above land-surface datum.

PERIOD OF RECORD.--August 1958 to current year. Unpublished records from August 1958 to September 1977 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.61 ft above sea level, May 27, 1998; lowest measured, 1.12 ft above sea level, August 8, 1966.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	2.30	DEC 23	2.98	APR 16	4.61	JUN 16	4.74	AUG 19	4.54		
NOV 21	2.53	JAN 15	2.39	MAY 29	4.56	JUL 23	4.90	SEP 18	4.04		



SUFFOLK COUNTY—Continued

405034073140401. Local number, S16881.1

LOCATION.--Lat 40°50'34", long 73°14'04", Hydrologic Unit 02030201, at east side of Old Willets Path, north of Bridge Branch Road, Commack. Owner: Town of Smithtown.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 47 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

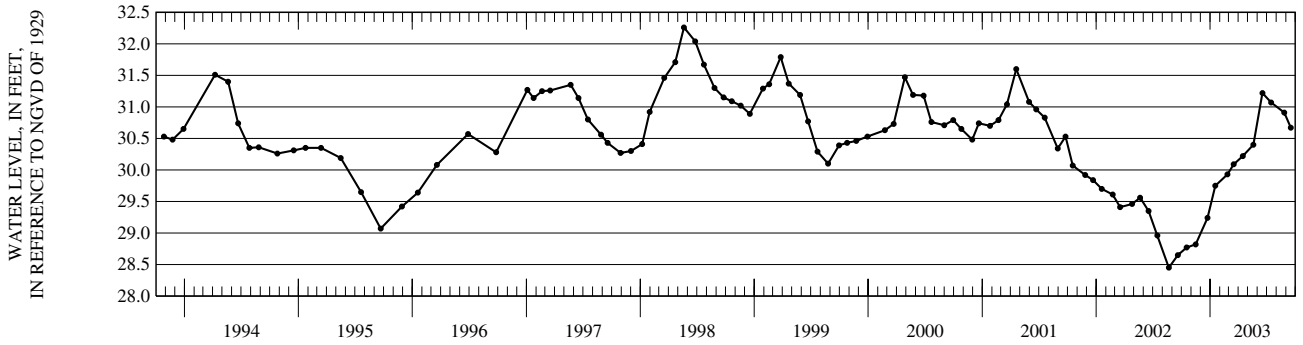
DATUM.--Land-surface datum is 58.0 ft above sea level. Measuring point: Top of casing, 0.34 ft below land-surface datum.

PERIOD OF RECORD.--July 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.05 ft above sea level, January 23, 1974; lowest measured, 28.45 ft above sea level, August 21, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	28.77	DEC 23	29.24	FEB 25	29.93	APR 15	30.22	JUN 17	31.22	AUG 26	30.91
NOV 15	28.82	JAN 17	29.75	MAR 17	30.09	MAY 19	30.40	JUL 15	31.07	SEP 16	30.67



404530073115104. Local number, S17987.4

LOCATION.--Lat 40°45'50", long 73°11'51", Hydrologic Unit 02030202, at northwest corner of Carleton Avenue and Court Drive, Central Islip. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 30 ft, screened 20 to 25 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 63.5 ft above sea level. Measuring point: Top of coupling, 0.35 ft below land-surface datum.

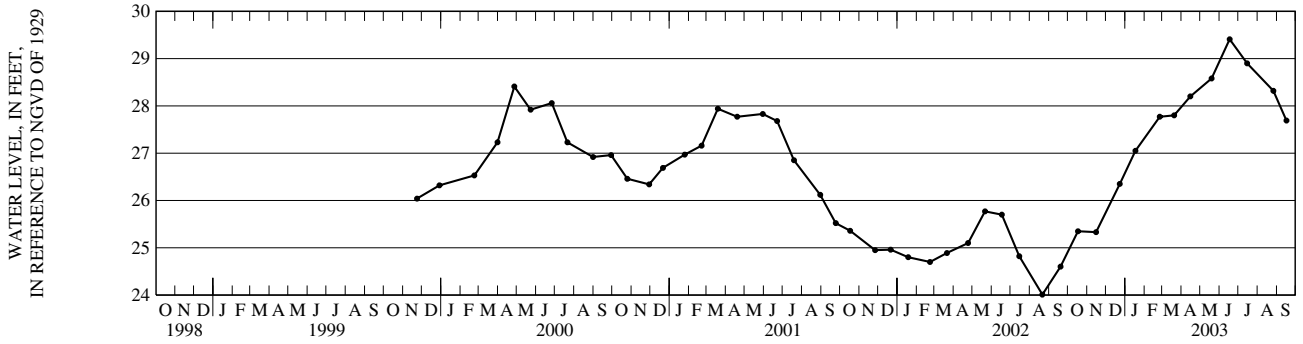
REMARKS.--Replaced well S17987.3 in August 1999 near same location.

PERIOD OF RECORD.--November 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.41 ft above sea level, June 17, 2003; lowest measured, 24.01 ft above sea level, August 21, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	25.35	DEC 23	26.35	FEB 25	27.77	APR 15	28.20	JUN 17	29.41	AUG 26	28.32
NOV 15	25.33	JAN 17	27.05	MAR 20	27.80	MAY 19	28.58	JUL 15	28.90	SEP 16	27.69



SUFFOLK COUNTY—Continued

403727073154601. Local number, S21091.1

LOCATION.--Lat 40°37'27", long 73°15'48", Hydrologic Unit 02030202, at Robert Moses State Park, in water treatment building, Fire Island. Owner: Long Island State Park Commission.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 1,921 ft, screened 1,918 to 1,921 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 10.0 ft above sea level. Measuring point: Top of casing, 13.68 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

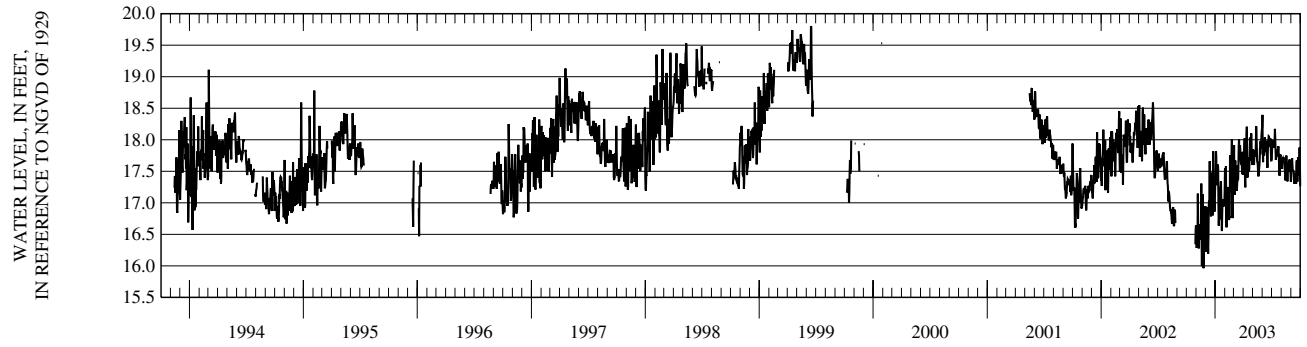
PERIOD OF RECORD.--September 1962 to current year. Unpublished records from September 1962 to September 1975 are available in files of the Long Island Subdistrict office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.10 ft above sea level, March 16, 1976; lowest measured, 15.13 ft above sea level, June 2, 1972.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	16.55	16.70	17.28	16.83	17.53	18.02	17.60	17.97	17.91	17.70	17.62
10	---	16.58	16.46	17.55	17.25	17.29	17.76	17.76	17.80	18.00	17.66	17.41
15	---	16.42	17.01	16.96	16.78	17.37	17.46	17.66	17.89	17.73	17.51	17.43
20	---	16.36	17.48	17.09	17.16	17.69	17.57	17.45	17.98	17.74	17.34	17.41
25	---	16.08	17.82	16.97	16.76	17.62	17.72	17.77	17.91	17.47	17.52	17.52
EOM	16.64	16.95	17.18	17.22	17.61	17.64	17.60	18.20	17.67	17.60	17.34	17.26
MEAN	---	16.53	16.87	17.14	17.19	17.58	17.71	17.79	17.88	17.80	17.57	17.51
MAX	---	17.31	17.82	17.82	18.01	18.01	18.21	18.21	18.39	18.17	17.75	17.88
MIN	---	15.96	16.19	16.55	16.61	17.13	17.25	17.42	17.56	17.43	17.34	17.26

WTR YR 2003 MEAN 17.41 MAX 18.39 MIN 15.96



SUFFOLK COUNTY—Continued

403727073154503. Local number, S21311.1

LOCATION.--Lat 40°37'28", long 73°15'48", Hydrologic Unit 02030202, at Robert Moses State Park, in water treatment building, Fire Island. Owner: Long Island State Park Commission.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 721 ft, screened 711 to 721 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 10.0 ft above sea level. Measuring point: Top of casing, 20.01 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

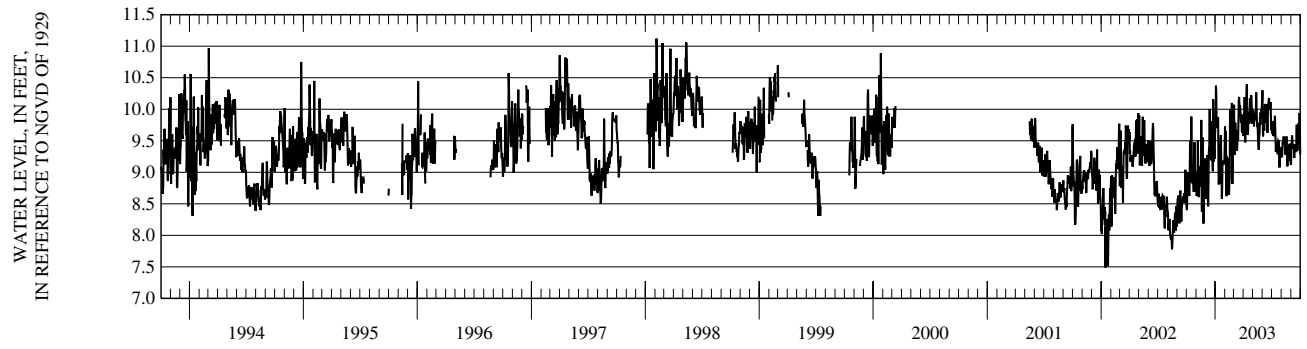
PERIOD OF RECORD.--November 1962 to current year. Unpublished records from November 1962 to September 1975 are available in files of the Long Island Subdistrict office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.04 ft above sea level, January 25, 1979; lowest measured, 5.35 ft above sea level, February 23, 1972.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.91	9.01	9.04	9.70	8.79	9.62	10.19	9.73	9.92	9.60	9.49	9.51
10	8.63	8.99	8.78	9.88	9.21	9.44	10.01	9.84	9.79	9.68	9.53	9.39
15	9.13	8.78	9.22	9.17	8.83	9.52	9.61	9.73	9.94	9.40	9.38	9.39
20	8.82	8.82	9.81	9.15	9.26	10.0	9.77	9.36	10.10	9.29	9.09	9.45
25	8.76	8.40	10.16	9.15	8.82	9.82	9.87	9.75	9.99	9.12	9.24	9.59
EOM	9.02	9.22	9.60	9.40	9.76	9.75	9.77	10.14	9.69	9.23	9.12	9.28
MEAN	8.93	8.92	9.20	9.36	9.25	9.74	9.89	9.83	9.92	9.48	9.36	9.48
MAX	9.88	9.83	10.16	10.37	10.10	10.20	10.39	10.27	10.30	9.90	9.57	9.94
MIN	8.40	8.19	8.46	8.58	8.62	9.28	9.47	9.36	9.57	9.08	9.09	9.17

WTR YR 2003 MEAN 9.45 MAX 10.39 MIN 8.19



SUFFOLK COUNTY—Continued

404813073101101. Local number, S24771.2

LOCATION.--Lat 40°48'13", long 73°10'11", Hydrologic Unit 02030202, at southwest corner of Wicks Road and Long Island Expressway service road, Brentwood. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 110 ft, screened 100 to 105 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 134.0 ft above sea level. Measuring point: Top of coupling, 0.60 ft below land-surface datum.

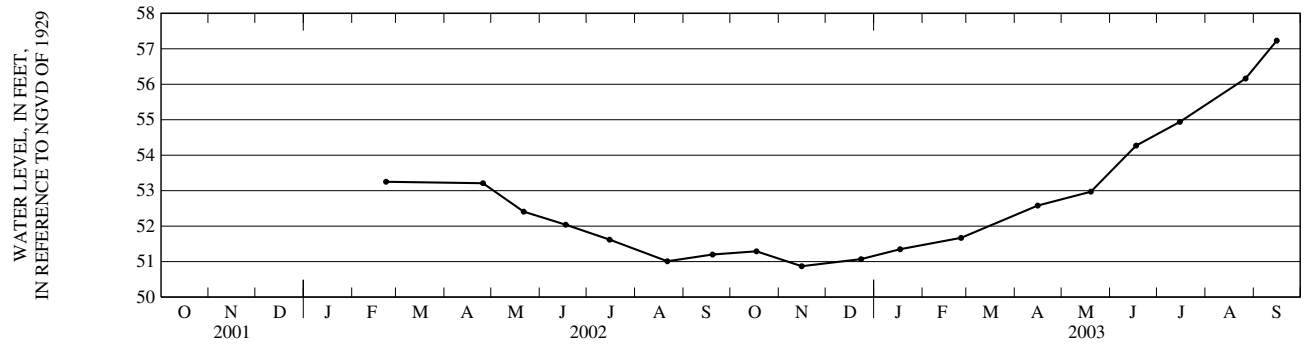
REMARKS.--Replaced well S24771.2 in October 2000 near same location.

PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.23 ft above sea level, September 15, 2003; lowest measured, 50.87 ft above sea level, November 15, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	51.29	DEC 23	51.07	FEB 25	51.67	MAY 19	52.97	JUL 15	54.94	SEP 15	57.23
NOV 15	50.87	JAN 17	51.35	APR 15	52.58	JUN 17	54.27	AUG 26	56.16		



SUFFOLK COUNTY—Continued

404935073055901. Local number, S33379.1

LOCATION.--Lat 40°49'32", long 73°05'59", Hydrologic Unit 02030202, at Duncan Avenue and Portion Road, in pumping center, in recorder shelter, Lake Ronkonkoma. Owner: Suffolk County Water Authority.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 1,305 ft, screened 1,290 to 1,300 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 134.0 ft above sea level. Measuring point: Top of casing, 2.34 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

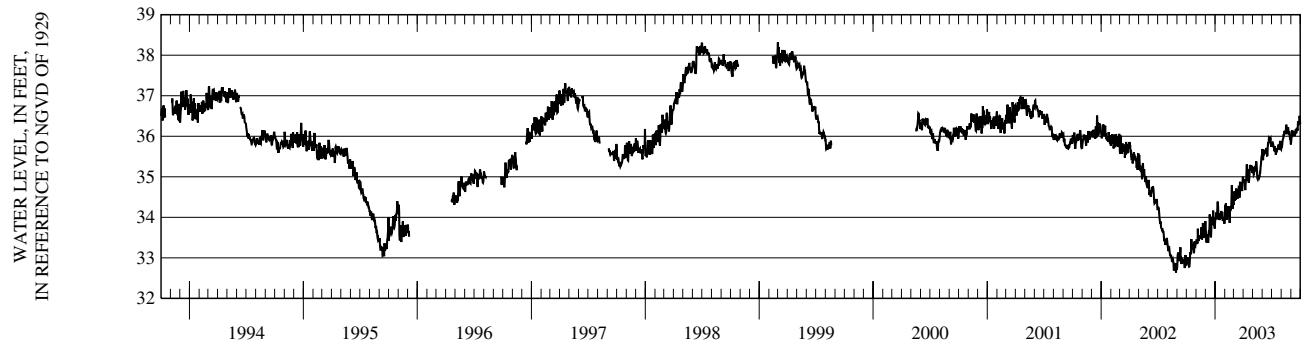
PERIOD OF RECORD.--October 1968 to current year. Unpublished records from October 1968 to September 1975 are available in files of the Long Island Subdistrict office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.92 ft above sea level, June 5, 1979; lowest recorded, 32.62 ft above sea level, August 28, 2002.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	33.00	33.35	33.54	33.96	34.13	34.64	34.94	35.07	35.65	35.82	35.91	36.13
10	32.79	33.51	33.49	34.24	34.26	34.55	34.95	35.22	35.56	35.63	36.10	36.03
15	33.13	33.51	33.91	33.96	33.99	34.51	35.06	35.05	35.67	35.59	36.15	36.13
20	33.33	33.48	34.01	34.16	34.20	34.57	34.98	34.99	35.83	35.67	36.10	36.19
25	33.14	33.54	34.17	33.92	34.27	34.73	35.16	35.11	35.90	35.67	36.09	36.32
EOM	33.38	33.91	33.86	33.95	34.35	34.98	35.09	35.51	35.77	35.68	35.80	36.30
MEAN	33.13	33.55	33.74	34.03	34.22	34.65	35.03	35.17	35.71	35.72	36.03	36.15
MAX	33.46	33.91	34.17	34.39	34.80	34.98	35.30	35.53	35.98	35.89	36.28	36.51
MIN	32.78	33.34	33.37	33.84	33.86	34.31	34.67	34.94	35.41	35.54	35.73	35.86

WTR YR 2003 MEAN 34.76 MAX 36.51 MIN 32.78



SUFFOLK COUNTY—Continued

404932073055902. Local number, S33380.1

LOCATION.--Lat 40°49'32", long 73°05'59", Hydrologic Unit 02030202, at Duncan Avenue and Portion Road, in pumping center, in recorder shelter, Lake Ronkonkoma. Owner: Suffolk County Water Authority.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 855 ft, screened 840 to 850 ft.

INSTRUMENTATION.--Digital water-level recorder.

DATUM.--Land-surface datum is 133.5 ft above sea level. Measuring point: Top of casing, 2.13 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

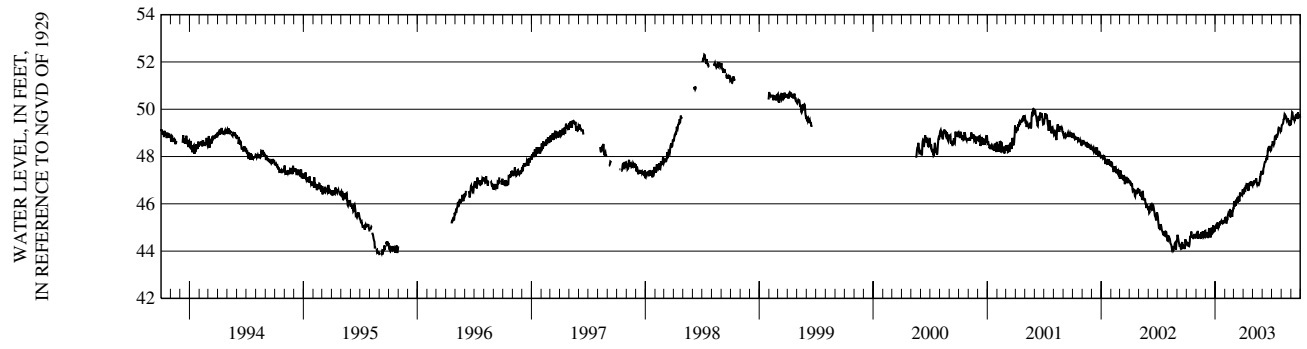
PERIOD OF RECORD.--October 1968 to current year. Unpublished records from October 1968 to September 1975 are available in files of the Long Island Subdistrict office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.30 ft above sea level, April 27, 1979; lowest recorded, 43.83 ft above sea level, September 1, 1995.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	44.36	44.64	44.80	44.95	45.20	46.12	46.68	46.84	47.53	48.58	49.38	49.86
10	44.26	44.64	44.70	45.06	45.51	46.06	46.71	46.99	47.74	48.73	49.68	49.66
15	44.64	44.55	44.67	45.15	45.53	46.17	46.85	46.81	47.91	48.81	49.71	49.72
20	44.62	44.66	44.99	45.28	45.60	46.23	46.78	46.78	48.27	48.94	49.58	49.70
25	44.55	44.60	45.09	45.23	45.64	46.37	46.78	47.05	48.37	49.20	49.46	49.71
EOM	44.64	44.86	44.99	45.31	45.82	46.56	46.77	47.23	48.37	49.09	49.33	49.65
MEAN	44.51	44.67	44.78	45.15	45.52	46.22	46.72	46.98	47.96	48.85	49.51	49.68
MAX	44.83	44.86	45.09	45.31	45.82	46.61	46.95	47.40	48.39	49.22	49.78	49.88
MIN	44.21	44.52	44.55	44.95	45.20	45.82	46.40	46.78	47.26	48.48	49.22	49.47

WTR YR 2003 MEAN 46.72 MAX 49.88 MIN 44.21



SUFFOLK COUNTY—Continued

405040072414801. Local number, S34743.1

LOCATION.--Lat 40°50'40", long 72°41'48", Hydrologic Unit 02030202, at north side of dirt road, 120 ft east of Speonk- Riverhead Road, 0.6 mi south of Sunrise Highway (State Route 27), northernmost well, Speonk. Owner: Suffolk County Water Authority.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, access pipe diameter 4 in., casing diameter 12 in., depth 1,226 ft, screened 1,077 to 1,117 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

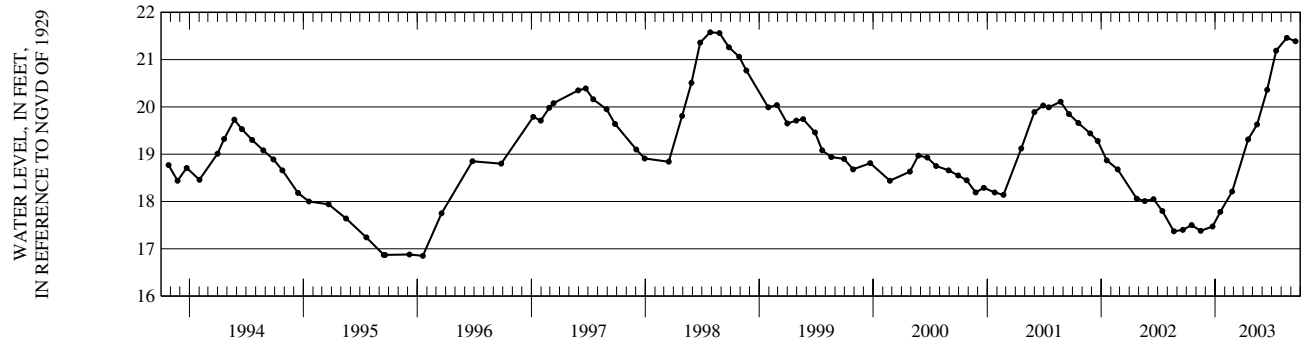
DATUM.--Land-surface datum is 64.0 ft above sea level. Measuring point: Top of coupling, 2.94 ft above land-surface datum.

PERIOD OF RECORD.--March 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.24 ft above sea level, April 2, 1979; lowest measured, 16.18 ft above sea level, March 18, 1982.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	17.50	DEC 23	17.47	FEB 24	18.21	MAY 15	19.63	JUL 15	21.19	SEP 15	21.39
NOV 15	17.38	JAN 17	17.78	APR 16	19.31	JUN 16	20.36	AUG 18	21.46		



405517072574902. Local number, S34892.1

LOCATION.--Lat 40°55'19", long 72°57'49", Hydrologic Unit 02030202, at east side of Radio Avenue, 1.3 mi south of Nesconset Road (State Route 25A), northernmost well, Rocky Point. Owner: Suffolk County Water Authority.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 138 ft, screened 124 to 138 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

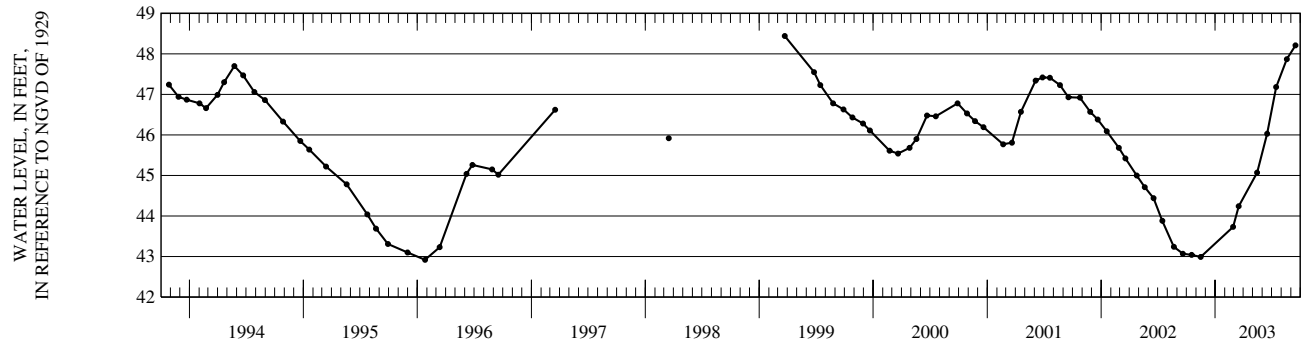
DATUM.--Land-surface datum is 122.4 ft above sea level. Measuring point: Top of casing, 0.78 ft above land-surface datum.

PERIOD OF RECORD.--July 1970 to current year. Unpublished records from July 1970 to September 1975 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 52.82 ft above sea level, September 15, 1984; lowest measured, 42.17 ft above sea level, March 21, 1972.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	43.04	FEB 27	43.73	MAY 15	45.07	JUL 15	47.18	SEP 15	48.21		
NOV 15	42.99	MAR 17	44.24	JUN 16	46.03	AUG 18	47.87				



SUFFOLK COUNTY—Continued

404640073050201. Local number, S36144.1

LOCATION.--Lat 40°46'40", long 73°05'02", Hydrologic Unit 02030202, at east side of Lincoln Avenue, south of Veterans Memorial Highway (State Route 454), Bohemia. Owner: Town of Islip.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 53 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

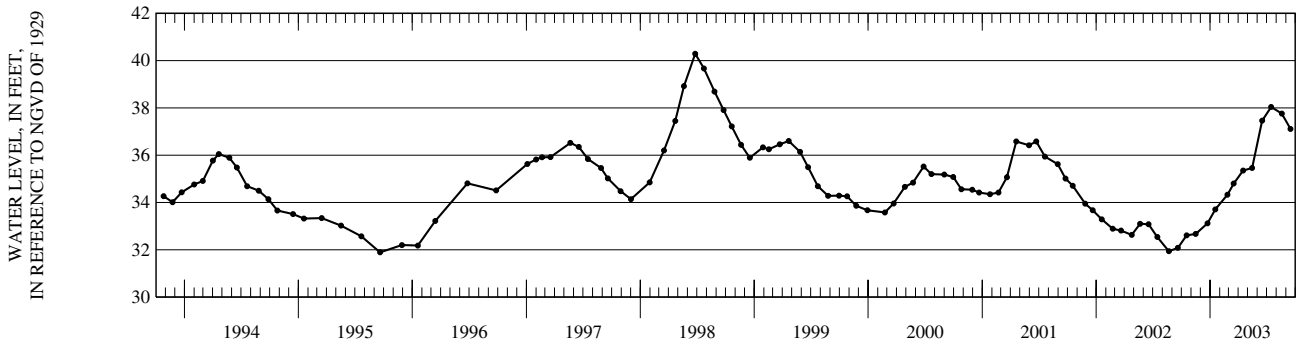
DATUM.--Land-surface datum is 54.0 ft above sea level. Measuring point: Top of casing, 1.84 ft above land-surface datum.

PERIOD OF RECORD.--October 1969 to current year. Unpublished records from October 1969 to September 1977 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.29 ft above sea level, June 25, 1998; lowest measured, 31.88 ft above sea level, December 15, 1981.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	32.61	DEC 23	33.12	FEB 25	34.33	APR 16	35.35	JUN 16	37.46	AUG 18	37.76
NOV 15	32.67	JAN 17	33.71	MAR 17	34.80	MAY 15	35.46	JUL 15	38.04	SEP 15	37.11



410400072195301. Local number, S38461.1

LOCATION.--Lat 41°04'00", long 72°19'53", Hydrologic Unit 02030202, at south side of Congdon Road and east side of Ram Island Road, Shelter Island. Owner: Shelter Island Fire Department.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel fire-protection well, diameter 6 in., depth not reported, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

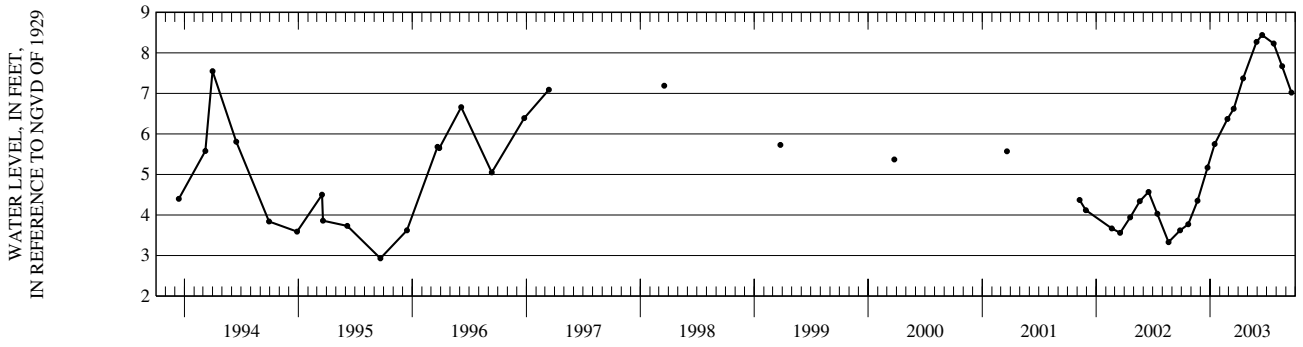
DATUM.--Land-surface datum is 12.0 ft above sea level. Measuring point: Top of coupling, 1.82 ft above land-surface datum.

PERIOD OF RECORD.--October 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.44 ft above sea level, June 16, 2003; lowest measured, 2.84 ft above sea level, January 26, 1981.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	3.77	DEC 23	5.17	FEB 25	6.37	APR 16	7.37	JUN 16	8.44	AUG 19	7.67
NOV 21	4.35	JAN 15	5.75	MAR 17	6.62	MAY 29	8.27	JUL 23	8.23	SEP 18	7.02



SUFFOLK COUNTY—Continued

405013073263601. Local number, S40840.1

LOCATION.--Lat 40°50'13", long 73°26'36", Hydrologic Unit 02030201, at intersection of Cold Spring Hill Road, Ledgewood Drive, and West Rogues Path, on grass island, Huntington. Owner: Town of Huntington.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 79 ft, screened 77 to 79 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

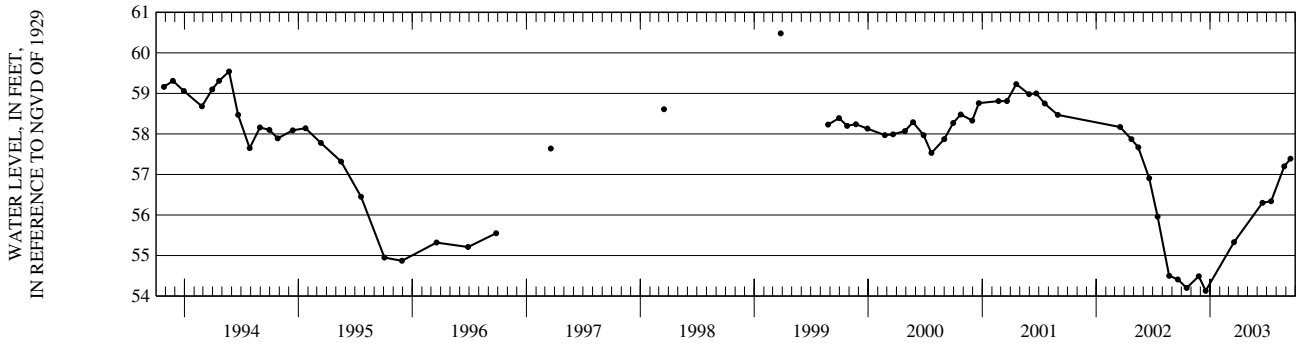
DATUM.--Land-surface datum is 131.5 ft above sea level. Measuring point: Top of coupling, 0.03 ft below land-surface datum.

PERIOD OF RECORD.--August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 67.02 ft above sea level, December 10, 1984; lowest measured, 54.13 ft above sea level, December 17, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	54.20	DEC 17	54.13	JUN 17	56.30	AUG 26	57.20				
NOV 25	54.49	MAR 18	55.33	JUL 15	56.34	SEP 15	57.39				



405124073111501. Local number, S40843.1

LOCATION.--Lat 40°51'24", long 73°11'15", Hydrologic Unit 02030201, at intersection of Nissequogue River Road and North Country Road (State Route 25A), just north of Middle Country Road (State Route 25), on grass island, Smithtown. Owner: Town of Smithtown.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 44 ft, screened 41 to 44 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

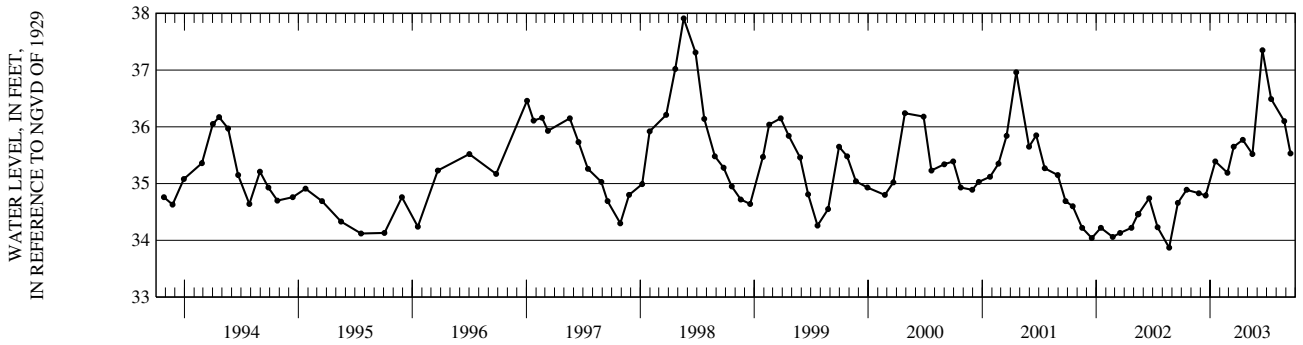
DATUM.--Land-surface datum is 66.0 ft above sea level. Measuring point: Top of coupling, 0.01 ft below land-surface datum.

PERIOD OF RECORD.--July 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.93 ft above sea level, March 27, 1979; lowest measured, 33.84 ft above sea level, July 9, 1971.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	34.89	DEC 17	34.79	FEB 25	35.19	APR 15	35.77	JUN 17	37.35	AUG 26	36.10
NOV 25	34.83	JAN 17	35.39	MAR 17	35.65	MAY 16	35.52	JUL 15	36.49	SEP 15	35.53



SUFFOLK COUNTY—Continued

405230073212101. Local number, S46517.1

LOCATION.--Lat 40°52'30", long 73°21'21", Hydrologic Unit 02030201, at southeast corner of Stony Hollow Road and Maple Road, Huntington. Owner: Town of Huntington.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 66 ft, screened 63 to 66 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

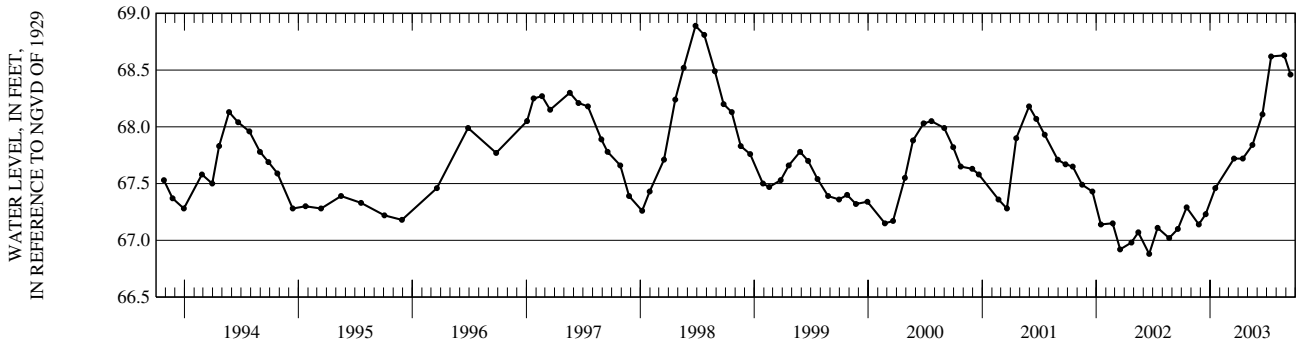
DATUM.--Land-surface datum is 123.5 ft above sea level. Measuring point: Top of casing, 0.03 ft above land-surface datum.

PERIOD OF RECORD.--September 1979 to current year. Unpublished records from September 1979 to September 1982 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.61 ft above sea level, June 11, 1984; lowest measured, 66.87 ft above sea level, August 23, 1988.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	67.29	DEC 17	67.23	MAR 18	67.72	MAY 16	67.84	JUL 15	68.62	SEP 15	68.46
NOV 25	67.14	JAN 17	67.46	APR 15	67.72	JUN 17	68.11	AUG 26	68.63		



405602072221802. Local number, S46529.2

LOCATION.--Lat 40°56'02", long 72°22'48", Hydrologic Unit 02030202, at intersection of Water Mill Road and Edge of Woods Road, at grass triangle, 43 ft east of Water Mill Road and 36 ft west of Edge of Woods Road, Deerfield. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 81 ft, screened 77 to 81 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

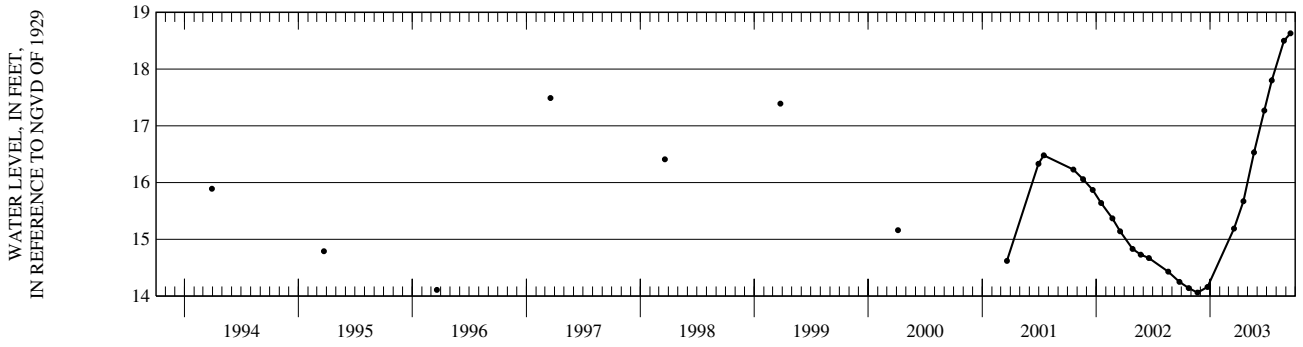
DATUM.--Land-surface datum is 70.0 ft above sea level. Measuring point: Top of coupling, 0.75 ft below land-surface datum.

PERIOD OF RECORD.--March 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.97 ft above sea level, October 3, 1984; lowest measured, 13.39 ft above sea level, December 2, 1986.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	14.14	DEC 23	14.16	APR 17	15.67	JUN 23	17.27	AUG 25	18.50		
NOV 21	14.06	MAR 18	15.19	MAY 21	16.53	JUL 17	17.80	SEP 15	18.63		



SUFFOLK COUNTY—Continued

405536072375303. Local number, S47231.2

LOCATION.--Lat 40°55'36", long 72°37'53", Hydrologic Unit 02030202, at Indian Island County Park, north side of main entrance road, 41 ft south of restroom facilities, Riverhead. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 41 ft, screened 39 to 41 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 21.0 ft above sea level. Measuring point: Top of coupling, 0.64 ft below land-surface datum.

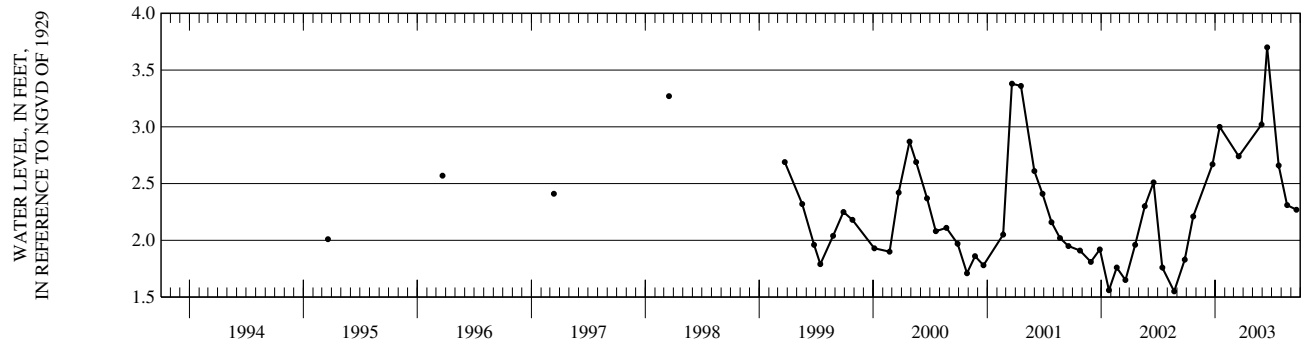
REMARKS.--Replaced well S47231.1 in March 1995 near same location.

PERIOD OF RECORD.--March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.70 ft above sea level, June 16, 2003; lowest measured, 1.55 ft above sea level, August 22, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	2.21	JAN 15	3.00	MAY 29	3.02	JUL 23	2.66	SEP 18	2.27		
DEC 23	2.67	MAR 17	2.74	JUN 16	3.70	AUG 19	2.31				



405604073064301. Local number, S47973.1

LOCATION.--Lat 40°56'04", long 73°06'43", Hydrologic Unit 02030201, at north side of State Route 25A, 189 ft west of Ridgeway Avenue, Setauket. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 90 ft, screened 78 to 88 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

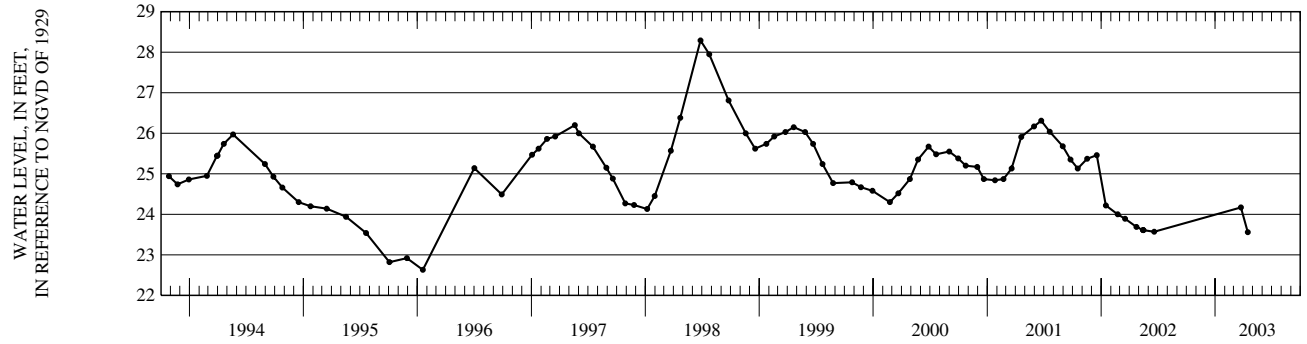
DATUM.--Land-surface datum is 94.0 ft above sea level. Measuring point: Top of 6-in steel flange, 2.43 ft below land-surface datum.

PERIOD OF RECORD.--January 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.29 ft above sea level, June 26, 1998; lowest measured, 20.83 ft above sea level, March 5, 1980.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 24	24.17	APR 15	23.56



SUFFOLK COUNTY—Continued

410149071583201. Local number, S48577.1

LOCATION.--Lat 41°01'49", long 71°58'32", Hydrologic Unit 02030202, at north side of Montauk Point State Parkway (State Route 27), 19 ft east of entrance to East Hampton Disposal and Recycling Center, Montauk. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 189 ft, screened 173 to 183 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

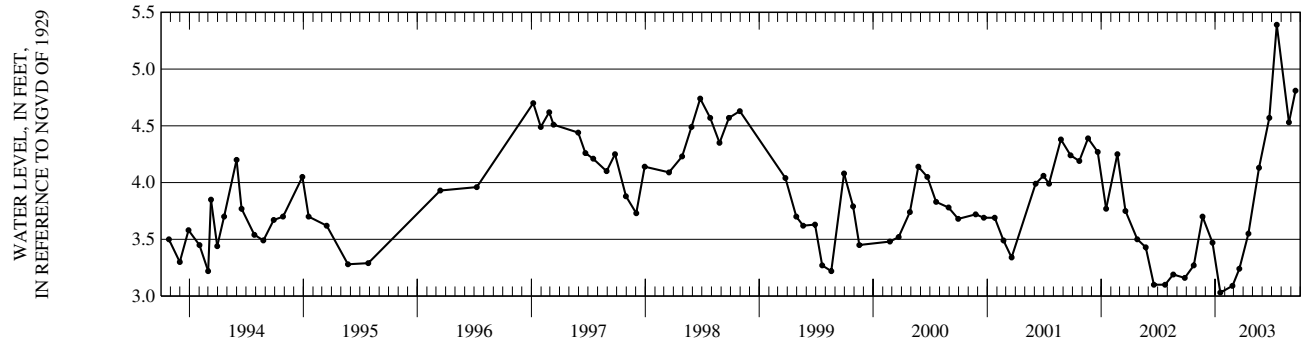
DATUM.--Land-surface datum is 168.1 ft above sea level. Measuring point: Top of 6-in steel flange, 1.61 ft below land-surface datum.

PERIOD OF RECORD.--January 1974 to current year. Unpublished records from January 1974 to September 1983 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.39 ft above sea level, July 17, 2003; lowest measured, 0.54 ft below sea level, May 5, 1981.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.27	DEC 23	3.47	FEB 25	3.09	APR 17	3.55	JUN 23	4.57	AUG 25	4.53
NOV 21	3.70	JAN 17	3.03	MAR 19	3.24	MAY 21	4.13	JUL 17	5.39	SEP 15	4.81



410316071535501. Local number, S48579.1

LOCATION.--Lat 41°03'16", long 71°53'54", Hydrologic Unit 02030202, at north side of Montauk Point State Parkway (State Route 27), adjacent to intersection with Old Montauk Highway, Montauk. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 66 ft, screened 53 to 56 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

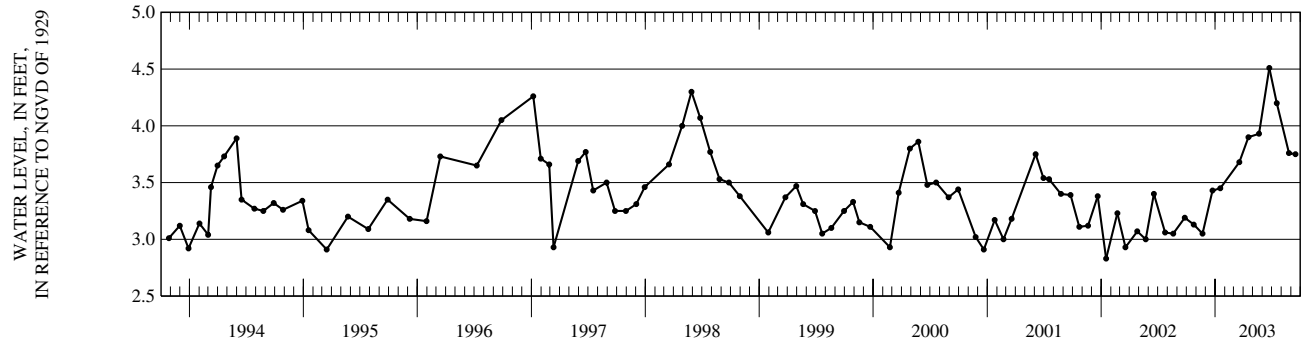
DATUM.--Land-surface datum is 38.6 ft above sea level. Measuring point: Top of 6-in steel flange, 1.55 ft below land-surface datum.

PERIOD OF RECORD.--January 1974 to current year. Unpublished records from January 1974 to September 1983 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.51 ft above sea level, June 23, 2003; lowest measured, 2.46 ft above sea level, December 22, 1976.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.13	DEC 23	3.43	MAR 19	3.68	MAY 21	3.93	JUL 17	4.20	SEP 15	3.75
NOV 21	3.05	JAN 17	3.45	APR 17	3.90	JUN 23	4.51	AUG 25	3.76		



SUFFOLK COUNTY—Continued

405309073125401. Local number, S50507.1

LOCATION.--Lat 40°53'09", long 73°12'54", Hydrologic Unit 02030201, at east side of Landing Avenue, 1.5 mi north of Spruce Street, San Remo. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 80 ft, screened 76 to 80 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

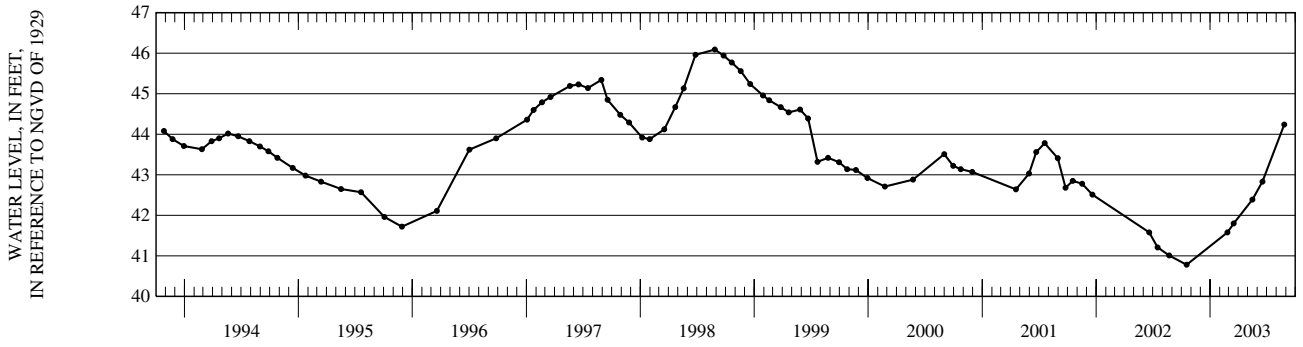
DATUM.--Land-surface datum is 90.3 ft above sea level. Measuring point: Top of coupling, 0.01 ft above land-surface datum.

PERIOD OF RECORD.--December 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.23 ft above sea level, September 19, 1984; lowest measured, 40.78 ft above sea level, October 17, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	40.78	FEB 25	41.58	MAR 17	41.80	MAY 16	42.39	JUN 17	42.83	AUG 26	44.24



410349072222201. Local number, S51169.1

LOCATION.--Lat 41°03'49", long 72°22'23", Hydrologic Unit 02030202, at west side of Rocky Point Avenue, 400 ft south of Belvedere Avenue, West Neck, Shelter Island. Owner: Suffolk County Department of Environmental Conservation.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 56 ft, screened 44 to 54 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

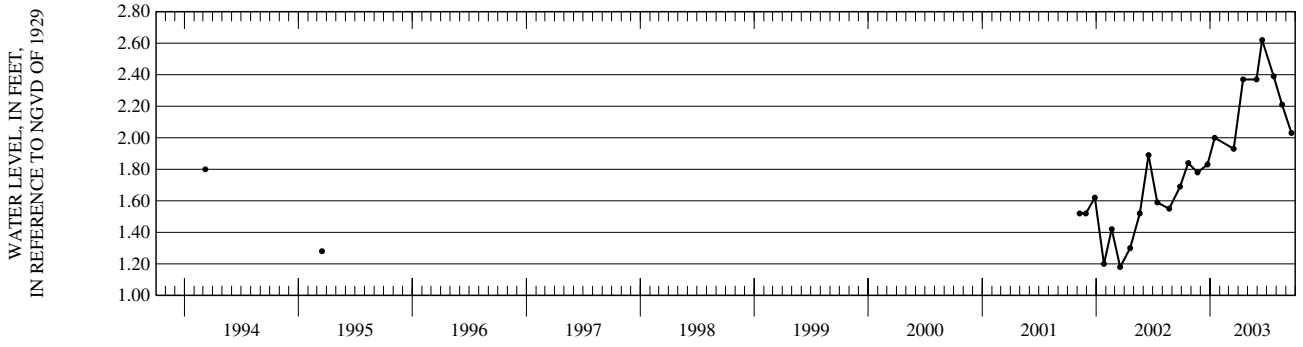
DATUM.--Land-surface datum is 32.3 ft above sea level. Measuring point: Top of flange in manhole, 1.82 ft below land-surface datum.

PERIOD OF RECORD.--June 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.61 ft above sea level, June 11, 1982; lowest measured, 0.98 ft above sea level, December 21, 1976.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	1.84	DEC 23	1.83	MAR 17	1.93	MAY 29	2.37	JUL 23	2.39	SEP 18	2.03
NOV 21	1.78	JAN 15	2.00	APR 16	2.37	JUN 16	2.62	AUG 19	2.21		



SUFFOLK COUNTY—Continued

410311072215501. Local number, S51170.1

LOCATION.--Lat 41°03'11", long 72°21'55", Hydrologic Unit 02030202, at west side of Nostrand (Brander) Parkway, 100 ft south of Lilliput Lane, West Neck, Shelter Island. Owner: Suffolk County Department of Environmental Conservation.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 33 ft, screened 21 to 31 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

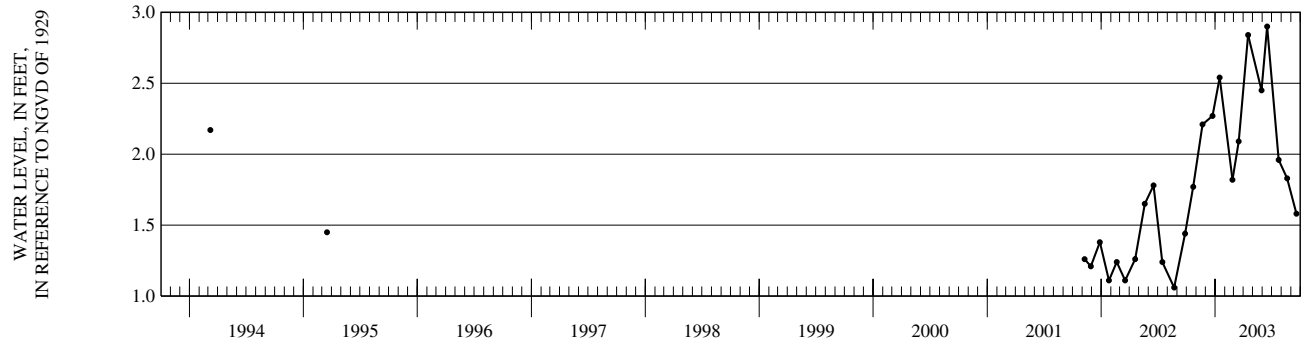
DATUM.--Land-surface datum is 8.8 ft above sea level. Measuring point: Top of flange in manhole, 1.76 ft below land-surface datum.

PERIOD OF RECORD.--June 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.72 ft above sea level, June 11, 1982; lowest measured, 0.84 ft above sea level, September 13, 1980.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	1.77	DEC 23	2.27	FEB 25	1.82	APR 16	2.84	JUN 16	2.90	AUG 19	1.83
NOV 21	2.21	JAN 15	2.54	MAR 17	2.09	MAY 29	2.45	JUL 23	1.96	SEP 18	1.58



410430072202301. Local number, S51176.1

LOCATION.--Lat 41°04'30", long 72°20'23", Hydrologic Unit 02030202, at southeast corner of Ferry Road (Route 114) and Manwaring Road, Shelter Island. Owner: Suffolk County Department of Environmental Conservation.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 60 ft, screened 47 to 57 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

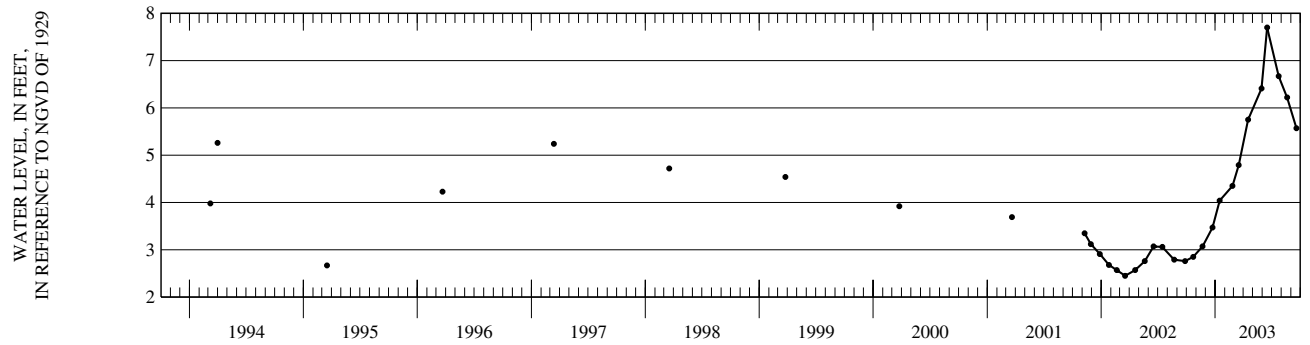
DATUM.--Land-surface datum is 39.6 ft above sea level. Measuring point: Top of flange in manhole, 1.88 ft below land-surface datum.

PERIOD OF RECORD.--June 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.70 ft above sea level, June 16, 2003; lowest measured, 2.42 ft above sea level, December 12, 1981.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	2.85	DEC 23	3.47	FEB 25	4.35	APR 16	5.75	JUN 16	7.70	AUG 19	6.22
NOV 21	3.07	JAN 15	4.04	MAR 17	4.79	MAY 29	6.41	JUL 23	6.67	SEP 18	5.57



SUFFOLK COUNTY—Continued

410316072192901. Local number, S51177.1

LOCATION.--Lat 41°03'16", long 72°19'29", Hydrologic Unit 02030202, at east side of Route 114, 58 ft north of Valley Road, Shelter Island. Owner: Suffolk County Department of Environmental Conservation.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 60 ft, screened 27 to 37 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

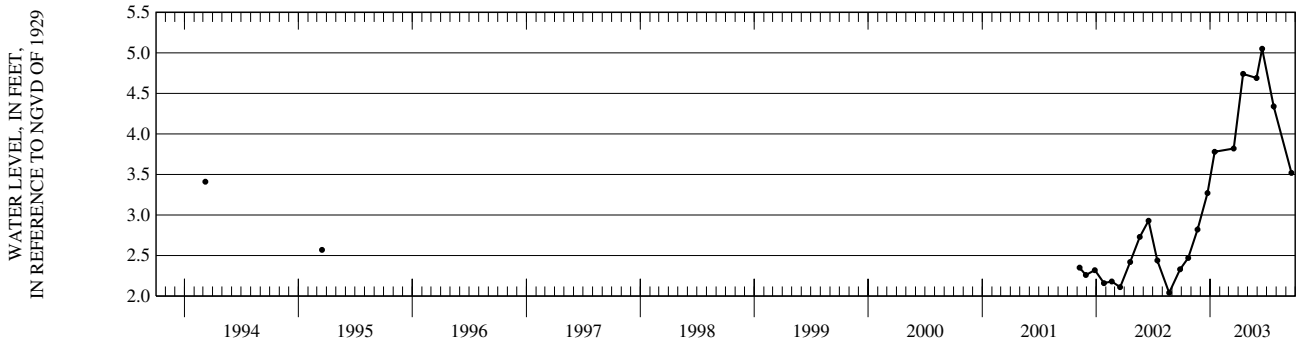
DATUM.--Land-surface datum is 17.5 ft above sea level. Measuring point: Top of flange in manhole, 1.58 ft below land-surface datum.

PERIOD OF RECORD.--June 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.22 ft above sea level, June 11, 1982; lowest measured, 1.90 ft above sea level, December 10, 1980.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	2.47	DEC 23	3.27	MAR 17	3.82	MAY 29	4.69	JUL 23	4.34		
NOV 21	2.82	JAN 15	3.78	APR 16	4.74	JUN 16	5.05	SEP 18	3.52		



410334072172701. Local number, S51183.1

LOCATION.--Lat 41°03'32", long 72°17'29", Hydrologic Unit 02030202, at west side of main trail in Mashomack Preserve, Shelter Island. Owner: Suffolk County Department of Environmental Conservation.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 51 ft, screened 39 to 49 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

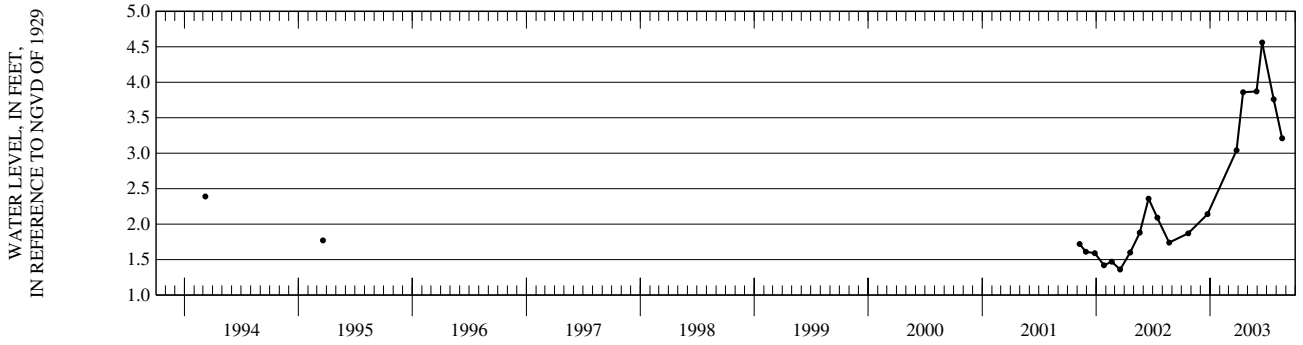
DATUM.--Land-surface datum is 41 ft above sea level. Measuring point: Top of flange in manhole, 8.03 ft below land-surface datum.

PERIOD OF RECORD.--June 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.56 ft above sea level, June 16, 2003; lowest measured, 1.28 ft above sea level, December 10, 1980.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	1.87	MAR 26	3.04	MAY 29	3.87	JUL 23	3.76				
DEC 23	2.14	APR 16	3.86	JUN 16	4.56	AUG 19	3.21				



SUFFOLK COUNTY—Continued

410516072200901. Local number, S52084.1

LOCATION.--Lat 41°05'16", long 72°20'09", Hydrologic Unit 02030202, at east side of Manhanset Road, 143 ft north of Cobbets Lane, Shelter Island. Owner: Suffolk County Department of Environmental Conservation.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 74 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

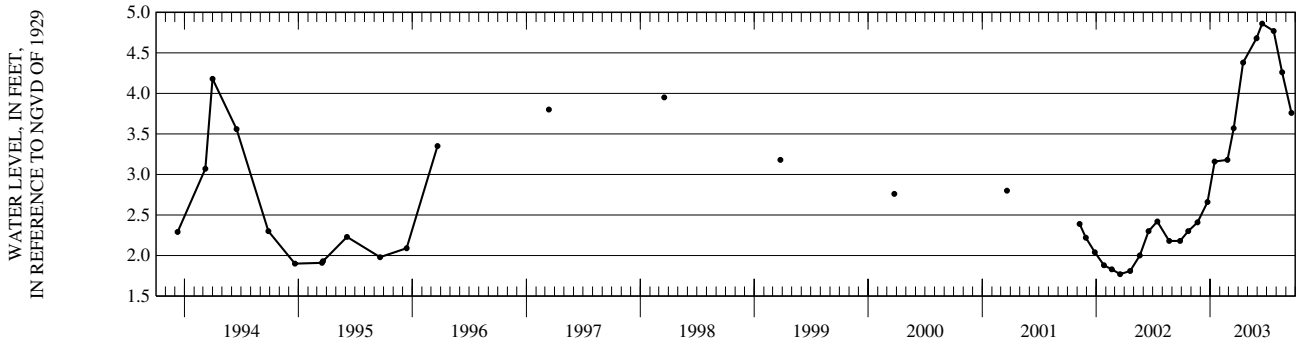
DATUM.--Land-surface datum is 28.4 ft above sea level. Measuring point: Top of casing, 1.45 ft below land-surface datum.

PERIOD OF RECORD.--July 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.21 ft above sea level, March 5, 1979; lowest measured, 1.71 ft above sea level, March 9, 1981.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	2.30	DEC 23	2.66	FEB 25	3.18	APR 16	4.38	JUN 16	4.86	AUG 19	4.26
NOV 21	2.41	JAN 15	3.16	MAR 17	3.57	MAY 29	4.68	JUL 23	4.77	SEP 18	3.76



404357072515701. Local number, S52162.1

LOCATION.--Lat 40°43'57", long 72°51'57", Hydrologic Unit 02030202, at Smith Point County Park, 50 ft south of traffic circle, easternmost well. Owner: Suffolk County Department of Health Services.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel private supply well, diameter 4 in., depth 1,695 ft, screened 1,670 to 1,690 ft.

INSTRUMENTATION.--Measurement with clear plastic tube extension and stadia rod by United States Geological Survey personnel.

DATUM.--Land-surface datum is 18.0 ft above sea level. Measuring point: Top of coupling, 1.19 ft above land-surface datum.

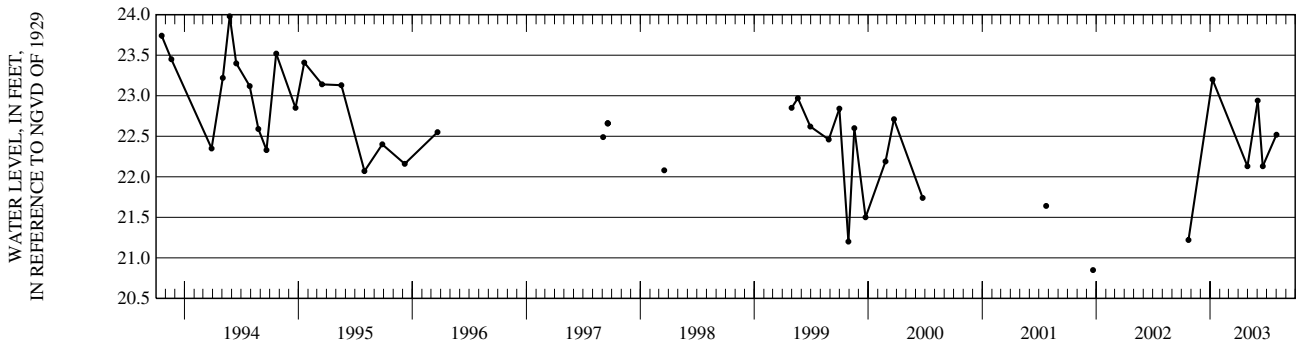
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--September 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.66 ft above sea level, January 17, 1985; lowest measured, 19.96 ft above sea level, March 8, 1988.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	21.22	JAN 08	23.20	APR 30	22.13	JUN 02	22.94	JUN 18	22.13	AUG 01	22.52



SUFFOLK COUNTY—Continued

404357072515702. Local number, S52163.1

LOCATION.--Lat 40°43'57", long 72°51'57", Hydrologic Unit 02030202, at Smith Point County Park, 50 ft south of traffic circle, middle well. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 1,305 ft, screened 1,279 to 1,300 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 17.0 ft above sea level. Measuring point: Top of casing, 4.01 ft above land-surface datum.

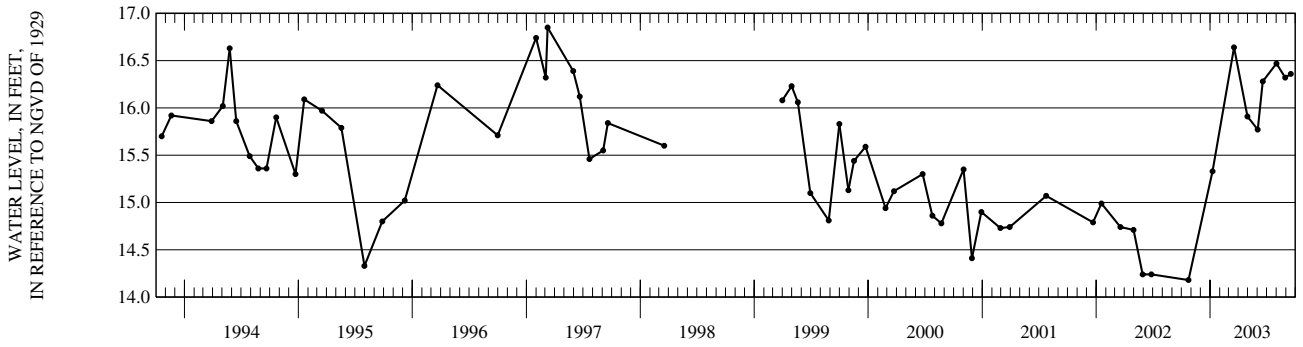
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--December 1974 to December 1982 and September 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.10 ft above sea level, July 25, 1978; lowest measured, 14.18 ft above sea level, October 23, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	14.18	MAR 18	16.64	JUN 02	15.77	AUG 01	16.47	SEP 16	16.36		
JAN 08	15.33	APR 30	15.91	18	16.28	29	16.32				



404357072515703. Local number, S52164.1

LOCATION.--Lat 40°43'57", long 72°51'57", Hydrologic Unit 02030202, at Smith Point County Park, 50 ft south of traffic circle, westernnmost well. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 735 ft, screened 709 to 730 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

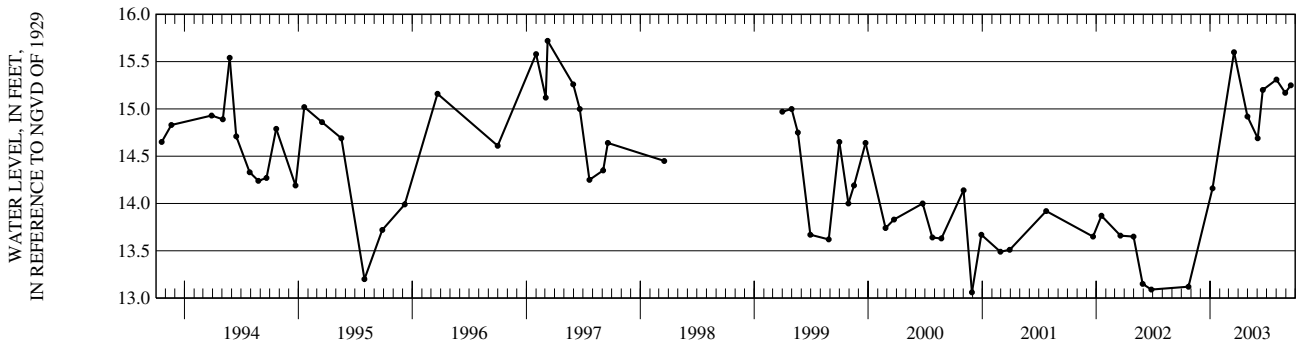
DATUM.--Land-surface datum is 17.0 ft above sea level. Measuring point: Top of coupling, 4.14 ft above land-surface datum.

PERIOD OF RECORD.--December 1974 to March 1978, October 1980 to July 1986, and March 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.57 ft above sea level, October 1, 1976; lowest measured, 13.06 ft above sea level, November 28, 2000.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	13.12	MAR 18	15.60	JUN 02	14.69	AUG 01	15.31	SEP 16	15.25		
JAN 08	14.16	APR 30	14.92	18	15.20	29	15.17				



SUFFOLK COUNTY—Continued

410104072303301. Local number, S53324.1

LOCATION.--Lat 41°01'04", long 72°30'33", Hydrologic Unit 02030202, at east side of Alvahs Lane, 200 ft north of Middle Road (State Route 27), Southold. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 62 ft, screened 49 to 59 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

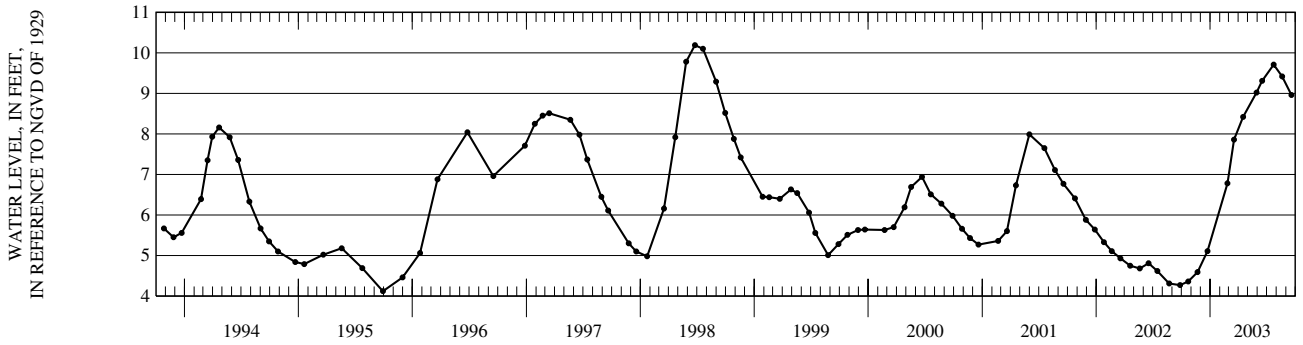
DATUM.--Land-surface datum is 42.0 ft above sea level. Measuring point: Top of 6-in steel flange, 0.51 ft above land-surface datum.

PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.32 ft above sea level, September 28, 1989; lowest measured, 3.52 ft above sea level, November 20, 1981.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	4.36	DEC 23	5.11	MAR 18	7.86	MAY 29	9.02	JUL 23	9.71	SEP 18	8.96
NOV 21	4.59	FEB 25	6.78	APR 16	8.42	JUN 16	9.31	AUG 19	9.42		



404642072520001. Local number, S54882.1

LOCATION.--Lat 40°46'42", long 72°52'00", Hydrologic Unit 02030202, at grassy divide between Margin Drive West and William Floyd Parkway, 156 ft south of Ranch Avenue, Shirley. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 34 ft, screened 30 to 34 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

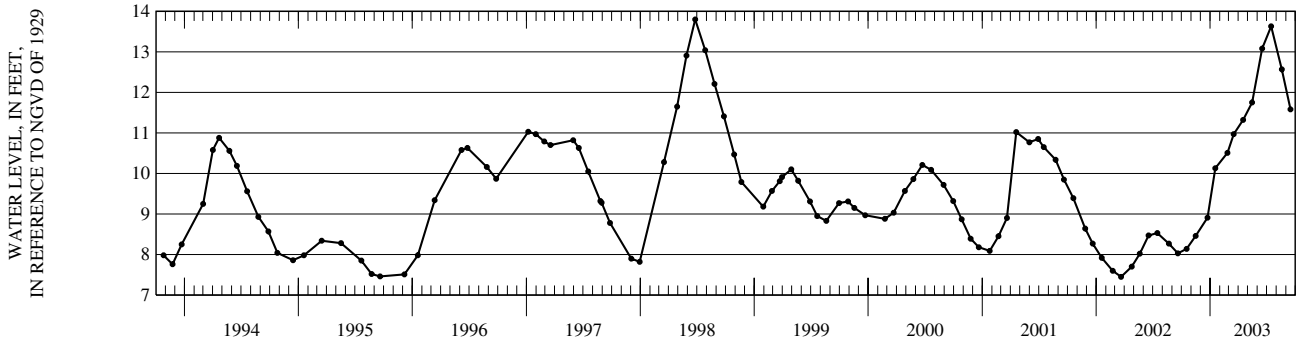
DATUM.--Land-surface datum is 33.0 ft above sea level. Measuring point: Top of coupling, 0.43 ft below land-surface datum.

PERIOD OF RECORD.--July 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.80 ft above sea level, June 25, 1998; lowest measured, 6.48 ft above sea level, December 15, 1981.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	8.14	DEC 23	8.91	FEB 25	10.51	APR 16	11.32	JUN 16	13.08	AUG 18	12.57
NOV 15	8.46	JAN 17	10.13	MAR 17	10.97	MAY 15	11.75	JUL 15	13.63	SEP 15	11.58



SUFFOLK COUNTY—Continued

410052072134001. Local number, S57371.1

LOCATION.--Lat 41°00'55", long 72°13'42", Hydrologic Unit 02030202, at west side of Old Northwest Road, 0.9 mi south of Alewive Brook Road, Grassy Hollow. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 62 ft, screened 58 to 62 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

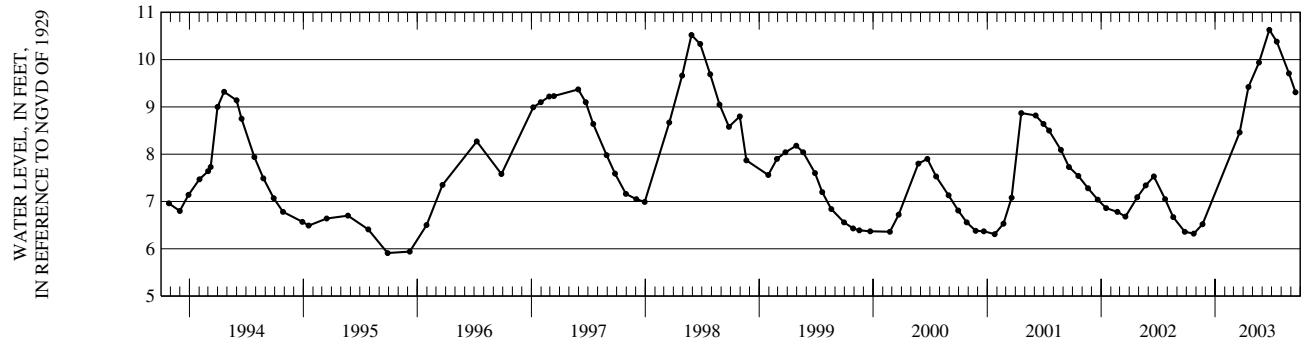
DATUM.--Land-surface datum is 24.0 ft above sea level. Measuring point: Top of coupling, 0.30 ft below land-surface datum.

PERIOD OF RECORD.--November 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.63 ft above sea level, June 23, 2003; lowest measured, 5.80 ft above sea level, December 17, 1981.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	6.32	MAR 20	8.46	MAY 21	9.94	JUL 17	10.38	SEP 15	9.31		
NOV 21	6.52	APR 17	9.42	JUN 23	10.63	AUG 25	9.71				



405927072041901. Local number, S57372.1

LOCATION.--Lat 40°59'27", long 72°04'19", Hydrologic Unit 02030202, at south side of Montauk Highway (State Route 27), 2.4 miles east of Bluff Road, Napeague State Park. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 12 ft, screened 8 to 12 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

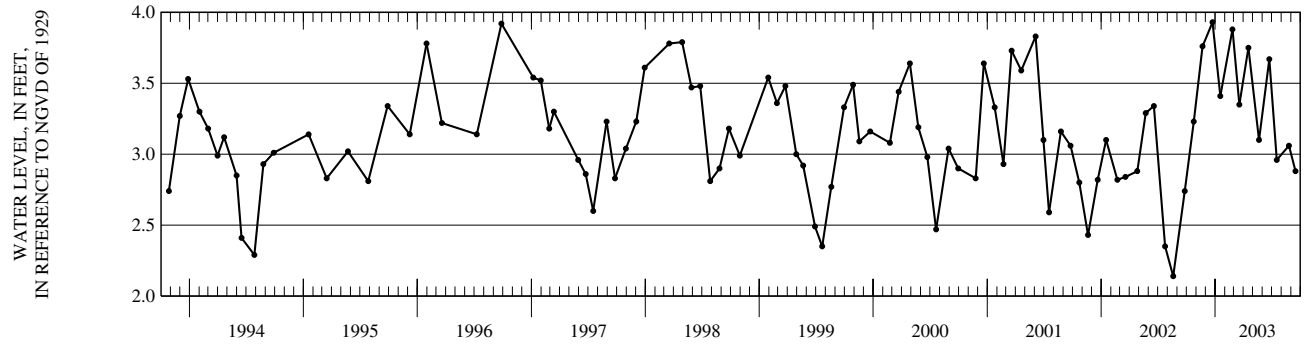
DATUM.--Land-surface datum is 8.0 ft above sea level. Measuring point: Top of coupling, 0.15 ft above land-surface datum.

PERIOD OF RECORD.--January 1976 to current year. Unpublished records from January 1976 to September 1983 are available in files of the Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.23 ft above sea level, July 18, 1989; lowest measured, 2.14 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.23	DEC 23	3.93	FEB 25	3.88	APR 17	3.75	JUN 23	3.67	AUG 25	3.06
NOV 21	3.76	JAN 17	3.41	MAR 19	3.35	MAY 21	3.10	JUL 17	2.96	SEP 15	2.88



SUFFOLK COUNTY—Continued

405559072145901. Local number, S60123.1

LOCATION.--Lat 40°56'00", long 72°15'00", Hydrologic Unit 02030202, at southwest corner of Wainscott Hollow Road and Wainscott Main Street, northern middle well, Wainscott. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 280 ft, screened 270 to 280 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

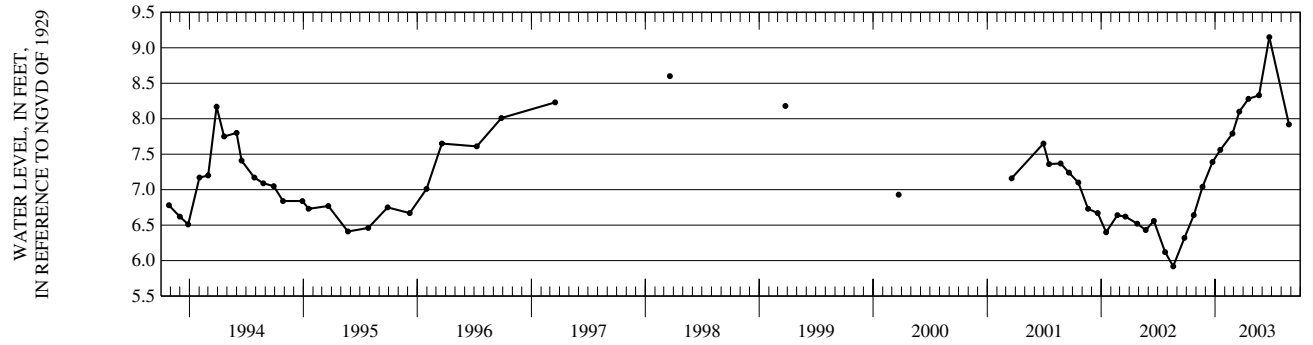
DATUM.--Land-surface datum is 12.0 ft above sea level. Measuring point: Top of casing, 0.02 ft above land-surface datum.

PERIOD OF RECORD.--March 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.15 ft above sea level, June 23, 2003; lowest measured, 5.92 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	6.64	DEC 23	7.39	FEB 25	7.79	APR 17	8.28	JUN 23	9.15		
NOV 21	7.04	JAN 17	7.56	MAR 19	8.10	MAY 21	8.33	AUG 25	7.92		



405600072150002. Local number, S62395.1

LOCATION.--Lat 40°56'00", long 72°15'00", Hydrologic Unit 02030202, at southwest corner of Wainscott Hollow Road and Wainscott Main Street, southernmost well, Wainscott. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Driven PVC observation well, diameter 2 in., depth 14 ft, screened 10 to 14 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

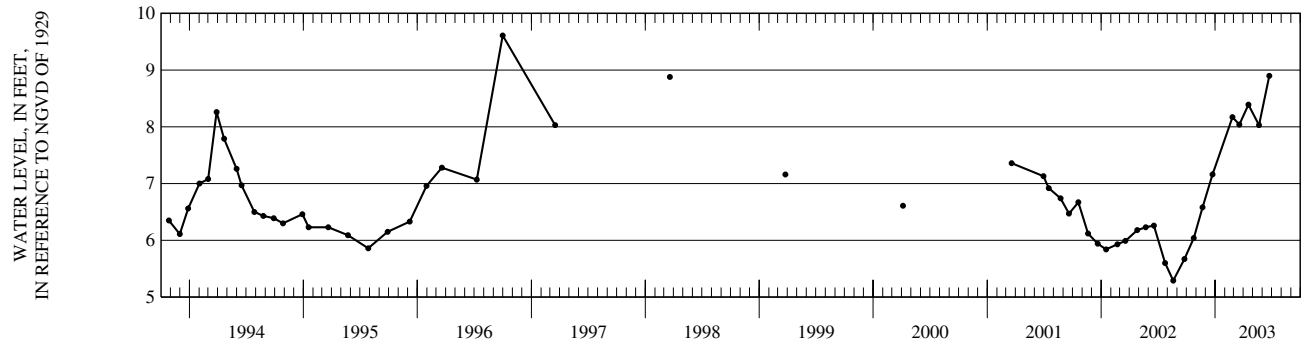
DATUM.--Land-surface datum is 12.0 ft above sea level. Measuring point: Top of coupling, 0.51 ft below land-surface datum.

PERIOD OF RECORD.--March 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.61 ft above sea level, September 30, 1996; lowest measured, 5.29 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	6.04	DEC 23	7.16	MAR 19	8.04	MAY 21	8.03				
NOV 21	6.58	FEB 25	8.17	APR 17	8.39	JUN 23	8.90				



SUFFOLK COUNTY—Continued

415843072213401. Local number, S62402.1

LOCATION.--Lat 40°58'58", long 72°21'36", Hydrologic Unit 02030202, at south end of Club Lane, 587 ft east of Wildwood Road, Noyack. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 84 ft, screened 80 to 84 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

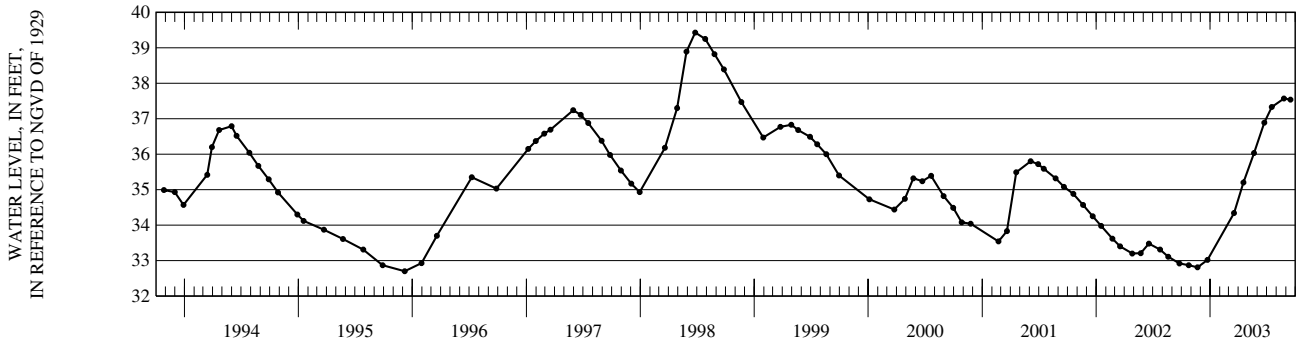
DATUM.--Land-surface datum is 99.3 ft above sea level. Measuring point: Top of coupling, 0.22 ft below land-surface datum.

PERIOD OF RECORD.--May 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.43 ft above sea level, June 25, 1998; lowest measured, 32.58 ft above sea level, December 5, 1986

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	32.87	DEC 23	33.02	APR 17	35.20	JUN 23	36.89	AUG 25	37.57		
NOV 21	32.81	MAR 18	34.34	MAY 21	36.03	JUL 17	37.33	SEP 15	37.54		



403935073235001. Local number, S66136.1

LOCATION.--Lat 40°39'37", long 73°23'50", Hydrologic Unit 02030202, at Tanner Park, south side of Kerrigan Road across from Harding Road, easternmost well, Copiague. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, casing diameter 6 in., screen diameter 4 in., depth 134 ft, screened 124 to 134 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 5.0 ft above sea level. Measuring point: Top of casing, 2.43 ft above land-surface datum.

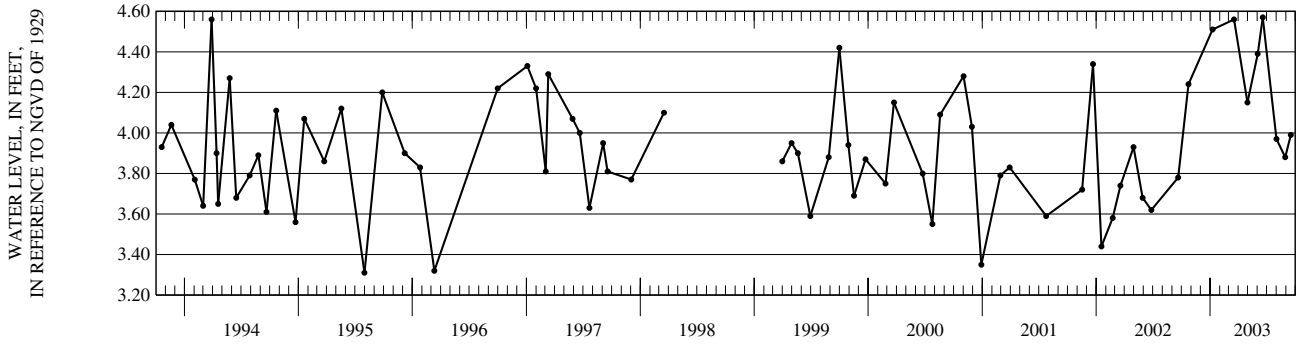
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.79 ft above sea level, March 4, 1991; lowest measured, 3.31 ft above sea level, July 31, 1995.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	4.24	MAR 18	4.56	JUN 02	4.39	AUG 01	3.97	SEP 16	3.99		
JAN 08	4.51	APR 30	4.15	18	4.57	29	3.88				



SUFFOLK COUNTY—Continued

403935073235002. Local number, S67537.1

LOCATION.--Lat 40°39'37", long 73°23'50", Hydrologic Unit 02030202, at Tanner Park, south side of Kerrigan Road, across from Harding Road, eastern middle well, Copiague. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 61 ft, screened 56 to 61 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 7.8 ft above sea level. Measuring point: Top of casing, 0.28 ft below land-surface datum.

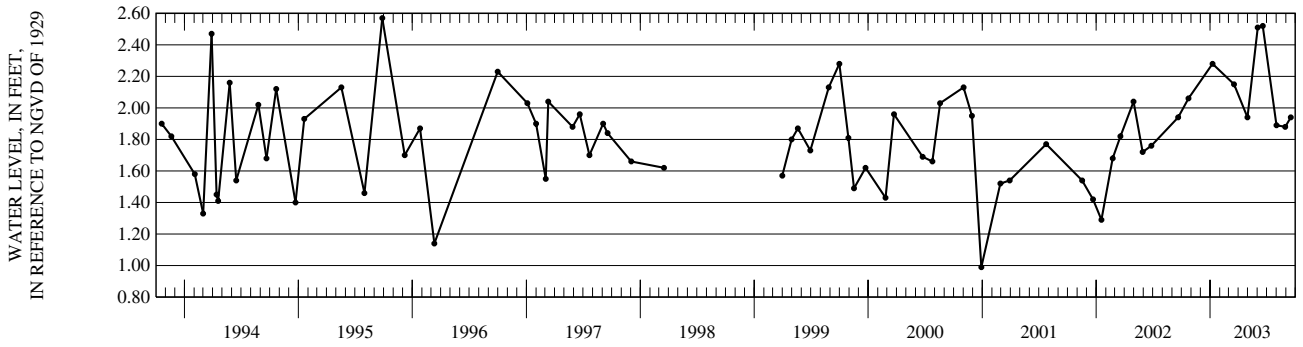
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.57 ft above sea level, September 26, 1995; lowest measured, 0.99 ft above sea level, October 28, 2000.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	2.06	MAR 18	2.15	JUN 02	2.51	AUG 01	1.89	SEP 16	1.94		
JAN 08	2.28	APR 30	1.94	18	2.52	29	1.88				



405529073272901. Local number, S69781.1

LOCATION.--Lat 40°55'29", long 73°27'29", Hydrologic Unit 02030201, at Caumsett State Park, 1.0 mi northeast of parking field, on park service road, Lloyd Neck. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 155 ft, screened 139 to 149 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

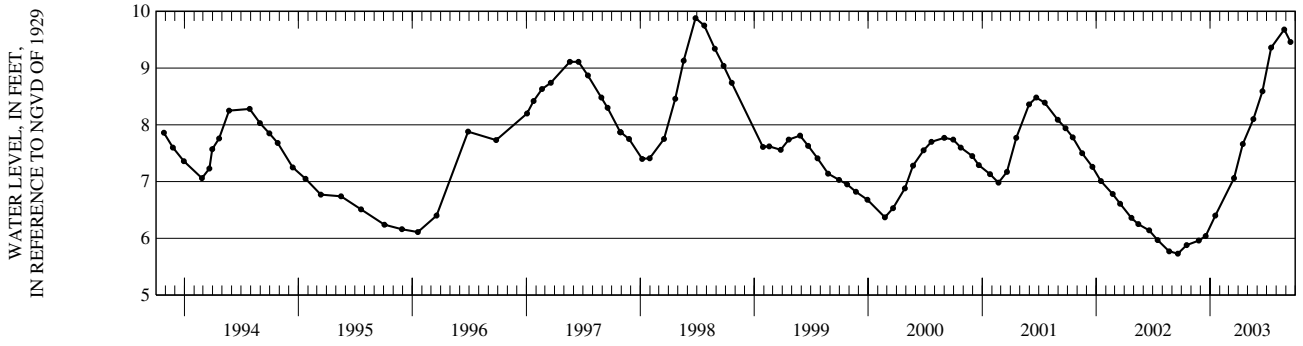
DATUM.--Land-surface datum is 109.0 ft above sea level. Measuring point: Top of coupling, 0.66 ft below land-surface datum.

PERIOD OF RECORD.--April 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.88 ft above sea level, June 26, 1998; lowest measured, 5.73 ft above sea level, September 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	5.88	DEC 17	6.04	MAR 18	7.06	MAY 19	8.10	JUL 15	9.36	SEP 15	9.46
NOV 25	5.96	JAN 17	6.40	APR 15	7.66	JUN 17	8.59	AUG 26	9.68		



SUFFOLK COUNTY—Continued

405801072354401. Local number, S71576.1

LOCATION.--Lat 40°58'01", long 72°35'44", Hydrologic Unit 02030202, at east side of Manor Lane, 1.6 mi north of Main Road (State Route 25), southern middle well, Jamesport. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 453 ft, screened 443 to 448 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

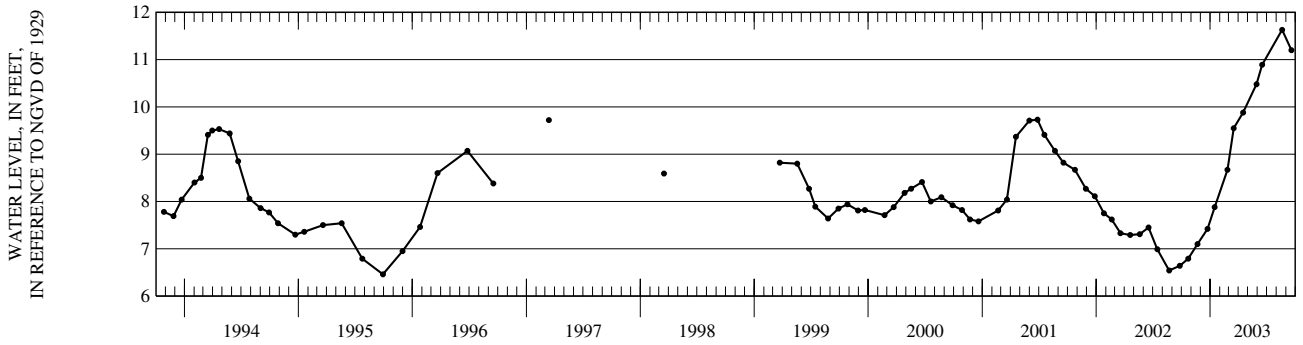
DATUM.--Land-surface datum is 53.0 ft above sea level. Measuring point: Top of coupling, 1.16 ft below land-surface datum.

PERIOD OF RECORD.--February 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.02 ft above sea level, September 27, 1984; lowest measured, 6.46 ft above sea level, September 28, 1995.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	6.79	DEC 23	7.42	FEB 25	8.67	APR 16	9.88	JUN 16	10.89	SEP 18	11.20
NOV 21	7.10	JAN 15	7.88	MAR 17	9.55	MAY 29	10.48	AUG 19	11.63		



410438072213201. Local number, S73974.1

LOCATION.--Lat 41°04'38", long 72°21'32", Hydrologic Unit 02030202, at Shelter Island Country Club and Golf Course, west side of fairway to 6th green, at edge of woods, 3000 ft north of West Neck Road, Shelter Island. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 42 ft, screened 40 to 42 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

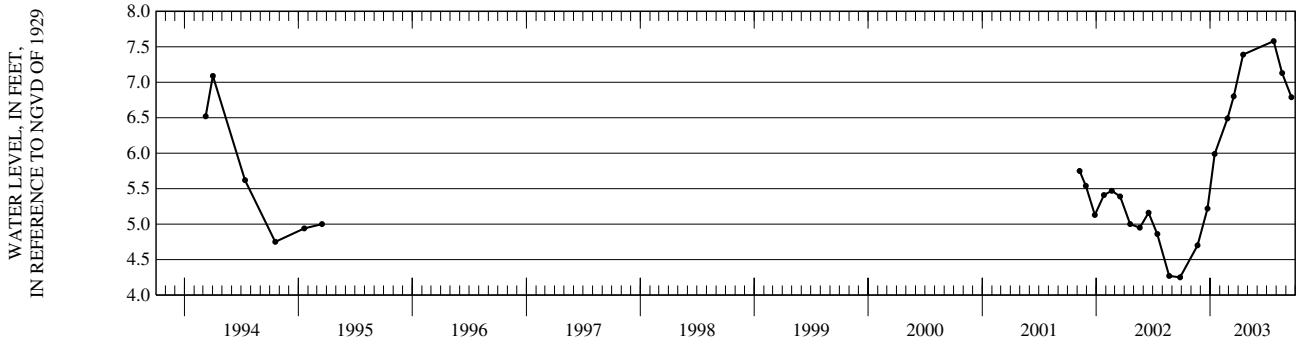
DATUM.--Land-surface datum is 38.5 ft above sea level. Measuring point: Top of casing, 0.53 ft above land-surface datum.

PERIOD OF RECORD.--March 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.87 ft above sea level, March 19, 1990; lowest measured, 4.25 ft above sea level, September 26, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 21	4.70	JAN 15	5.99	MAR 17	6.80	JUL 23	7.58	SEP 18	6.79		
DEC 23	5.22	FEB 25	6.49	APR 16	7.39	AUG 19	7.13				



SUFFOLK COUNTY—Continued

405858072213601. Local number, S73998.1

LOCATION.--Lat 40°58'58", long 72°21'35", Hydrologic Unit 02030202, at south end of Club Lane, 624 ft west of Wildwood Road, near Highway Department entrance, southernmost well, Noyack. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 1 $^1/_4$ in., depth 803 ft, screened 795 to 800 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

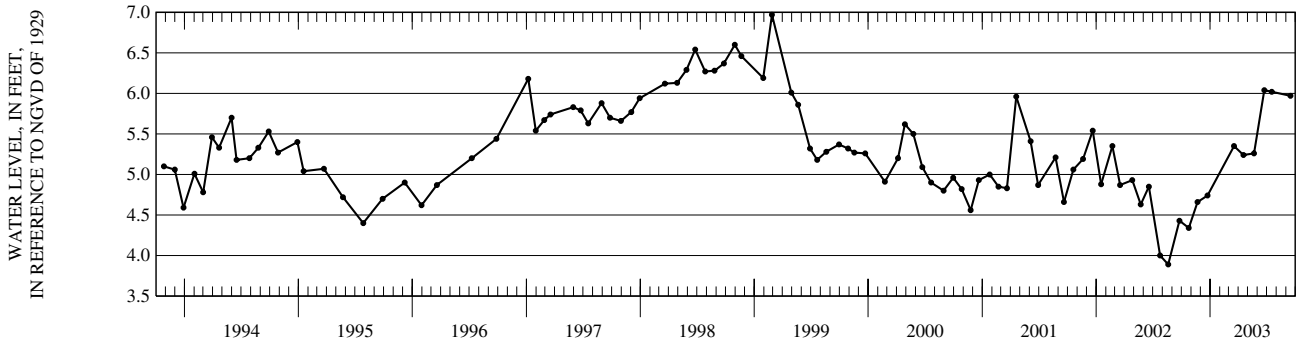
DATUM.--Land-surface datum is 99.7 ft above sea level. Measuring point: Top of casing, 0.20 ft below land-surface datum.

PERIOD OF RECORD.--April 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.97 ft above sea level, February 26, 1999; lowest measured, 3.89 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	4.34	DEC 23	4.74	APR 17	5.24	JUN 23	6.04	SEP 15	5.97		
NOV 21	4.66	MAR 18	5.35	MAY 21	5.26	JUL 17	6.02				



405322072454101. Local number, S74292.1

LOCATION.--Lat 40°53'23", long 72°45'43", Hydrologic Unit 02030202, at south side of Mill Road, opposite Primrose Path, Brookhaven. Owner: United States Geological Survey.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 56 ft, screened 52 to 56 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

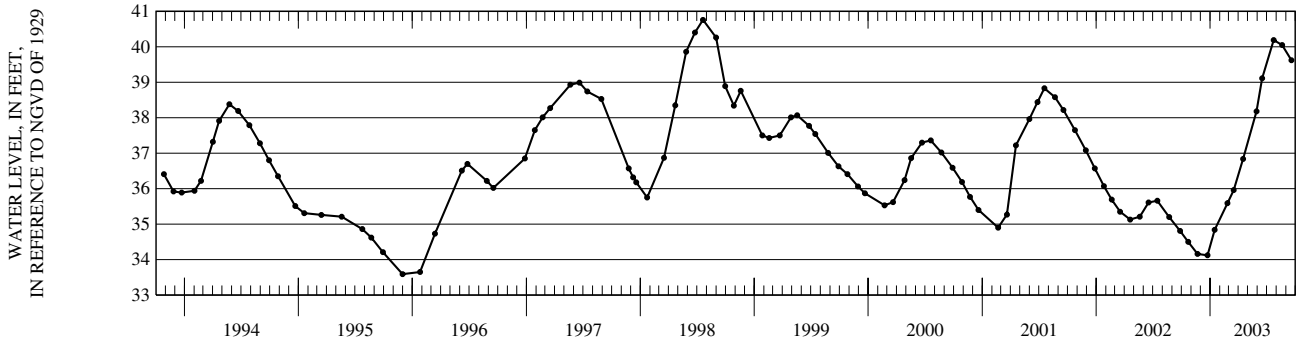
DATUM.--Land-surface datum is 73.0 ft above sea level. Measuring point: Top of coupling, 1.20 ft above land-surface datum.

PERIOD OF RECORD.--May 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.22 ft above sea level, June 21, 1984; lowest measured, 33.59 ft above sea level, November 30, 1995.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	34.50	DEC 23	34.12	FEB 25	35.59	APR 16	36.84	JUN 16	39.11	AUG 19	40.05
NOV 21	34.16	JAN 15	34.84	MAR 17	35.96	MAY 29	38.18	JUL 23	40.19	SEP 18	39.62



SUFFOLK COUNTY—Continued

410439072173501. Local number, S75432.2

LOCATION.--Lat 41°04'39", long 72°17'35", Hydrologic Unit 02030202, at south side of South Ram Island Drive and east side of Tuthill Drive, Shelter Island. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 29 ft, screened 24 to 29 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

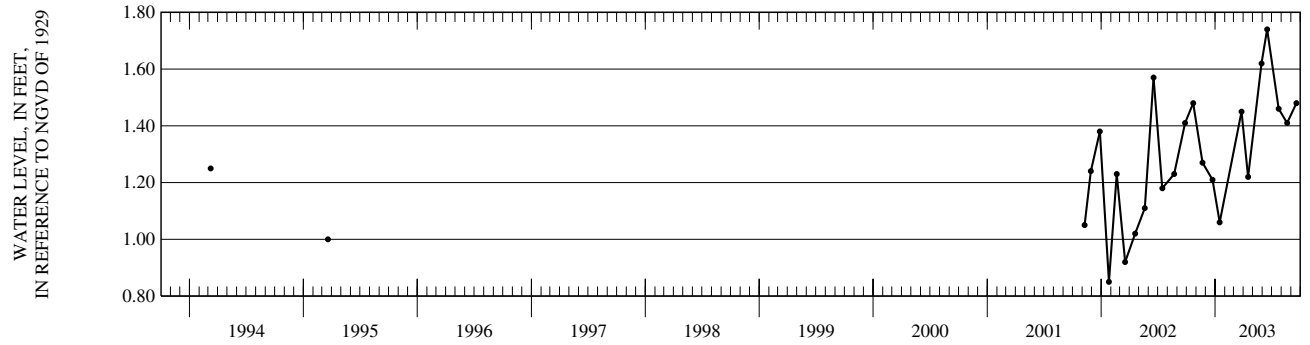
DATUM.--Land-surface datum is 21.0 ft above sea level. Measuring point: Top of casing, 0.45 ft below land-surface datum.

PERIOD OF RECORD.--March 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.74 ft above sea level, June 16, 2003; lowest measured, 0.85 ft above sea level, January 25, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	1.48	DEC 23	1.21	MAR 26	1.45	MAY 29	1.62	JUL 23	1.46	SEP 18	1.48
NOV 21	1.27	JAN 15	1.06	APR 16	1.22	JUN 16	1.74	AUG 19	1.41		



410309072205601. Local number, S75438.1

LOCATION.--Lat 41°03'19", long 72°20'55", Hydrologic Unit 02030202, at east side of Menantic Road, 140 ft south of Conrad Road, and 244 ft north of Evans Road, Shelter Island. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 23 ft, screened 18 to 23 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

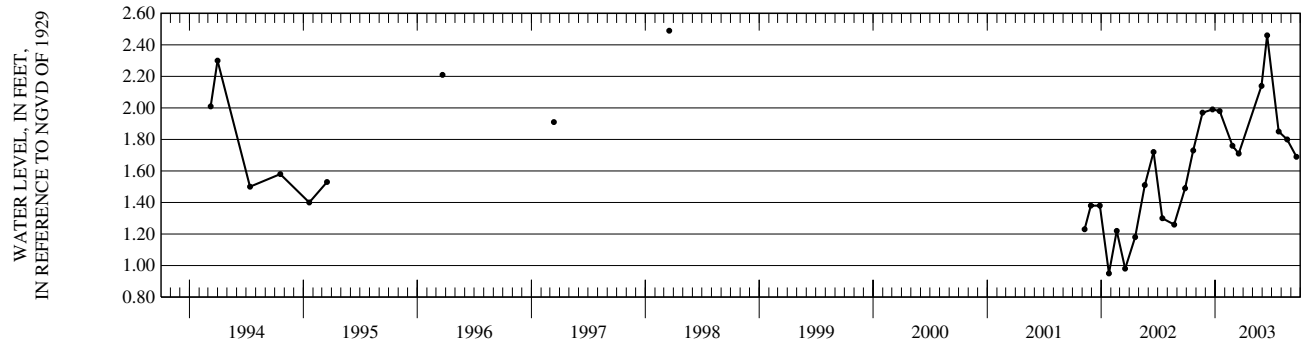
DATUM.--Land-surface datum is 11.0 ft above sea level. Measuring point: Top of casing, 0.16 ft below land-surface datum.

PERIOD OF RECORD.--February 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.49 ft above sea level, March 18, 1998; lowest measured, 0.95 ft above sea level, January 25, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	1.73	DEC 23	1.99	FEB 25	1.76	MAY 29	2.14	JUL 23	1.85	SEP 18	1.69
NOV 21	1.97	JAN 15	1.98	MAR 17	1.71	JUN 16	2.46	AUG 19	1.80		



SUFFOLK COUNTY—Continued

404859073194002. Local number, S75454.2

LOCATION.--Lat 40°48'59", long 73°19'40", Hydrologic Unit 02030202, at Dix Hills Park and Golf Course, 180 ft west of DeForest Road, 154 ft north of parking lot, northernmost well, Dix Hills. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 740 ft, screened 730 to 735 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

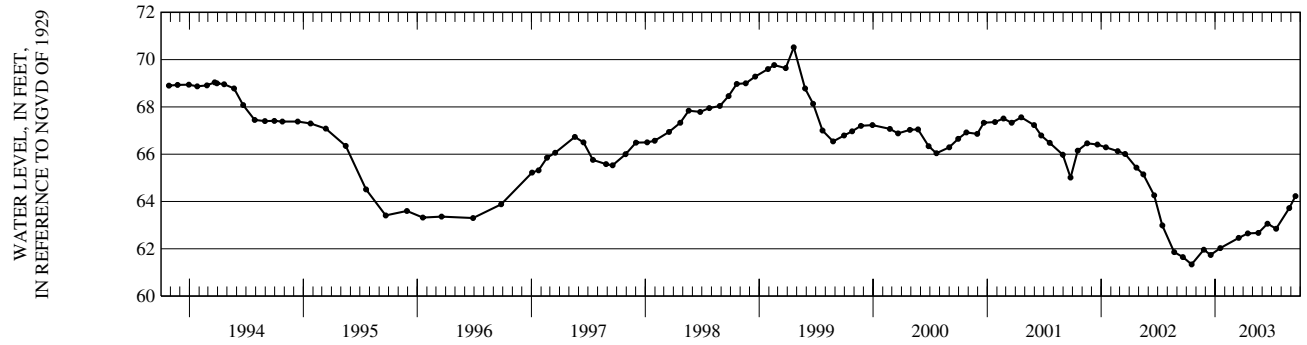
DATUM.--Land-surface datum is 230.7 ft above sea level. Measuring point: Top of casing, 0.14 ft below land-surface datum.

PERIOD OF RECORD.--March 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.05 ft above sea level, March 21, 1991; lowest measured, 61.34 ft above sea level, October 17, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	61.34	DEC 17	61.74	MAR 17	62.46	MAY 19	62.67	JUL 15	62.85	SEP 15	64.23
NOV 25	61.96	JAN 17	62.03	APR 15	62.65	JUN 17	63.06	AUG 26	63.72		



404859073194004. Local number, S75456.1

LOCATION.--Lat 40°48'59", long 73°19'40", Hydrologic Unit 02030202, at Dix Hills Park and Golf Course, 180 ft west of DeForest Road, 134 ft north of parking lot, southernmost well, Dix Hills. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 203 ft, screened 195 to 200 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

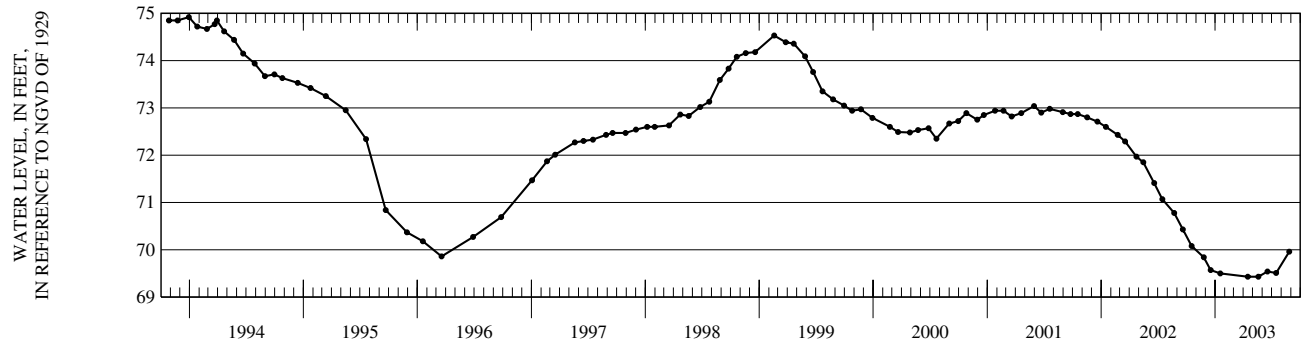
DATUM.--Land-surface datum is 230.5 ft above sea level. Measuring point: Top of coupling, 0.98 ft below land-surface datum.

PERIOD OF RECORD.--March 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 78.96 ft above sea level, November 20, 1991; lowest measured, 69.43 ft above sea level, April 15 and May 19, 2003.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	70.08	DEC 17	69.57	APR 15	69.43	JUN 17	69.54	AUG 26	69.96		
NOV 25	69.84	JAN 17	69.50	MAY 19	69.43	JUL 15	69.51				



SUFFOLK COUNTY—Continued

405317072331902. Local number, S77435.1

LOCATION.--Lat 40°53'17", long 72°33'18", Hydrologic Unit 02030202, at south side of dirt road, 145 ft east of Riverhead- Hampton Bays Road (State Route 24), 195 ft south of Bellows Pond Road, easternmost well, Rampasture. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 27 ft, screened 25 to 27 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

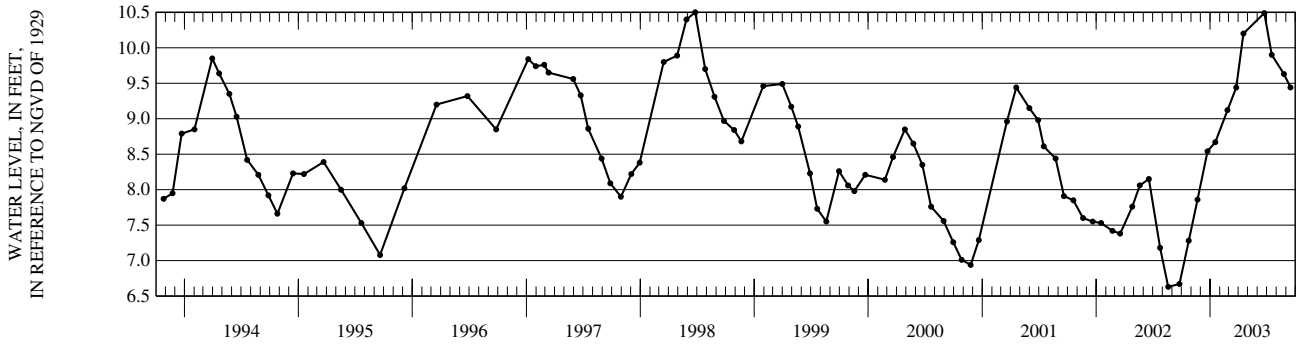
DATUM.--Land-surface datum is 18.8 ft above sea level. Measuring point: Top of coupling, 0.36 ft below land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.50 ft above sea level, June 25, 1998; lowest measured, 6.63 ft above sea level, August 19, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	7.28	DEC 23	8.54	FEB 25	9.12	APR 17	10.20	JUL 17	9.90	SEP 15	9.44
NOV 21	7.86	JAN 17	8.67	MAR 25	9.44	JUN 23	10.49	AUG 25	9.63		



405317072331903. Local number, S77436.2

LOCATION.--Lat 40°53'17", long 72°33'18", Hydrologic Unit 02030202, at south side of dirt road, 138 ft east of Riverhead- Hampton Bays Road (State Route 24), 195 ft south of Bellows Pond Road, westernmost well, Rampasture. Owner: Suffolk County Department of Health Services.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 508 ft, screened 500 to 505 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

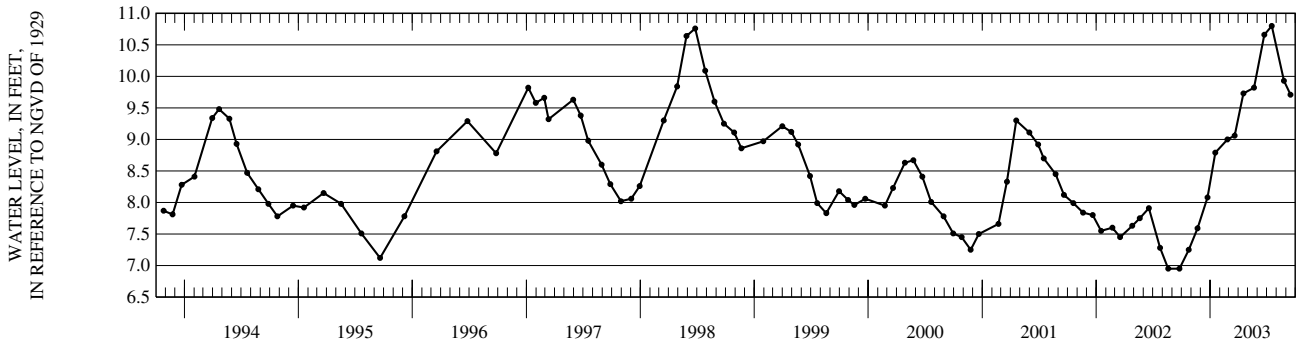
DATUM.--Land-surface datum is 18.7 ft above sea level. Measuring point: Top of coupling, 0.41 ft below land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.80 ft above sea level, July 17, 2003; lowest measured, 6.94 ft above sea level, September 22, 1986.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	7.25	DEC 23	8.08	FEB 25	9.00	APR 17	9.73	JUN 23	10.66	AUG 25	9.93
NOV 21	7.59	JAN 17	8.79	MAR 20	9.06	MAY 21	9.82	JUL 17	10.80	SEP 15	9.71



SUFFOLK COUNTY—Continued

403935073235003. Local number, S79407.1

LOCATION.--Lat 40°39'37", long 73°23'50", Hydrologic Unit 02030202, at Tanner Park, south side of Kerrigan Road, across from Harding Road, western middle well, Copiague. Owner: Suffolk County Department of Health Services.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 1,219 ft, screened 1,192 to 1,214 ft.

INSTRUMENTATION.--Measurement with clear plastic tube extension and stadia rod by United States Geological Survey personnel.

DATUM.--Land-surface datum is 7.8 ft above sea level. Measuring point: Top of valve stem, 0.38 ft below land-surface datum.

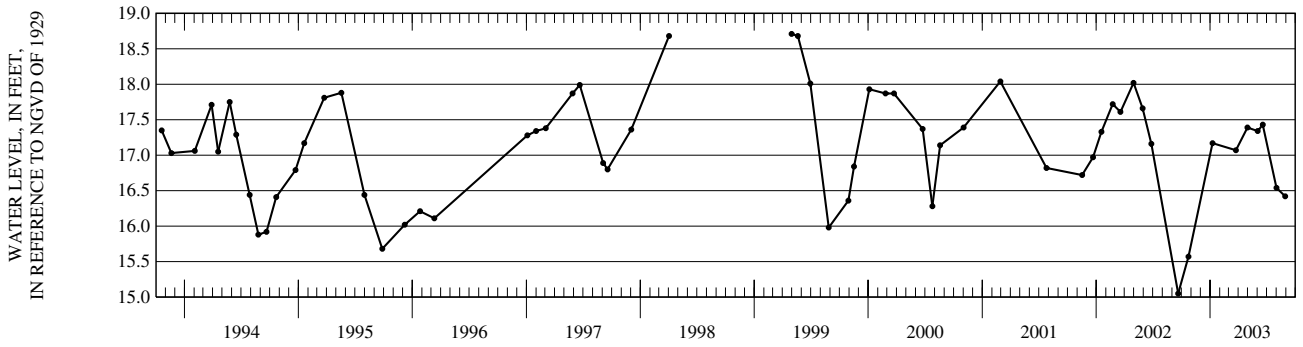
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.71 ft above sea level, April 30, 1999; lowest measured, 14.07 ft above sea level, September 30, 1988.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	15.57	MAR 24	17.07	JUN 02	17.34	AUG 01	16.54				
JAN 08	17.17	APR 30	17.39	18	17.43	29	16.42				



403935073235004. Local number, S79408.1

LOCATION.--Lat 40°39'37", long 73°23'50", Hydrologic Unit 02030202, at Tanner Park, south side of Kerrigan Road, across from Harding Road, westernmost well, Copiague. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 680 ft, screened 670 to 675 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

DATUM.--Land-surface datum is 7.8 ft above sea level. Measuring point: Top of coupling, 0.58 ft below land-surface datum.

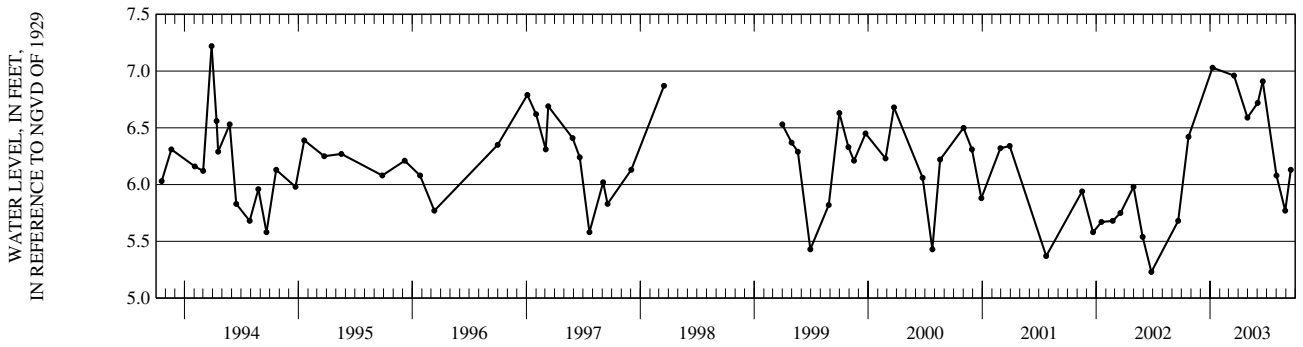
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.22 ft above sea level, March 4, 1991; lowest measured, 5.23 ft above sea level, June 26, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	6.42	MAR 18	6.96	JUN 02	6.72	AUG 01	6.08	SEP 16	6.13		
JAN 08	7.03	APR 30	6.59	18	6.91	29	5.77				



SUFFOLK COUNTY—Continued

405604073064302. Local number, S81831.1

LOCATION.--Lat 40°56'04", long 73°06'43", Hydrologic Unit 02030201, at north side of North Country Road (State Route 25A), 199 ft west of Ridgeway Avenue, East Setauket. Owner: Suffolk County Department of Environmental Conservation.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 470 ft, screened 462 to 467 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

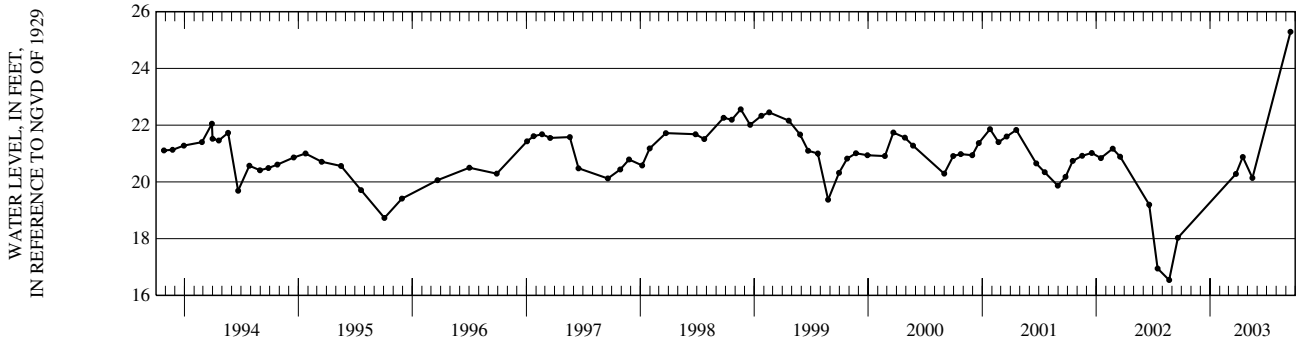
DATUM.--Land-surface datum is 94.0 ft above sea level. Measuring point: Top of coupling, 0.96 ft below land-surface datum.

PERIOD OF RECORD.--March 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.29 ft above sea level, September 15, 2003; lowest measured, 16.54 ft above sea level, August 22, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 24	20.28	APR 15	20.88	MAY 16	20.14	SEP 15	25.29



405536072375301. Local number, S82938.1

LOCATION.--Lat 40°55'36", long 72°37'53", Hydrologic Unit 02030202, at Indian Island County Park, north side of main entrance road, 107 ft east of restroom facilities, Riverhead. Owner: Suffolk County Department of Health Services.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 1,022 ft, screened 1,010 to 1,022 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

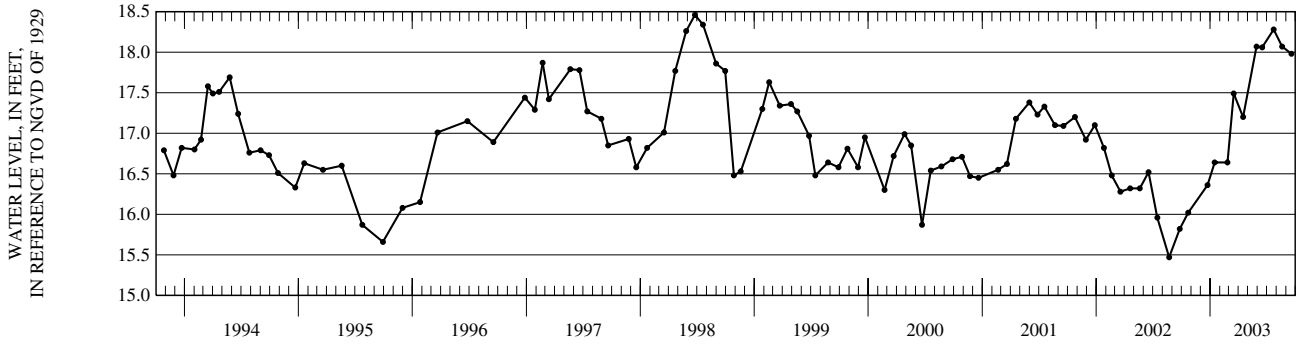
DATUM.--Land-surface datum is 21.0 ft above sea level. Measuring point: Top of coupling, 0.14 ft below land-surface datum.

PERIOD OF RECORD.--June 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.46 ft above sea level, June 24, 1998; lowest measured, 15.47 ft above sea level, August 22, 2002.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	16.02	JAN 15	16.64	MAR 17	17.49	MAY 29	18.07	JUL 23	18.28	SEP 18	17.98
DEC 23	16.36	FEB 25	16.64	APR 16	17.20	JUN 16	18.06	AUG 19	18.07		



SUFFOLK COUNTY—Continued

405536072375302. Local number, S82939.1

LOCATION.--Lat 40°55'36", long 72°37'53", Hydrologic Unit 02030202, at Indian Island County Park, north side of main entrance road, 107 ft east of restroom facilities, Riverhead. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 162 ft, screened 155 to 162 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

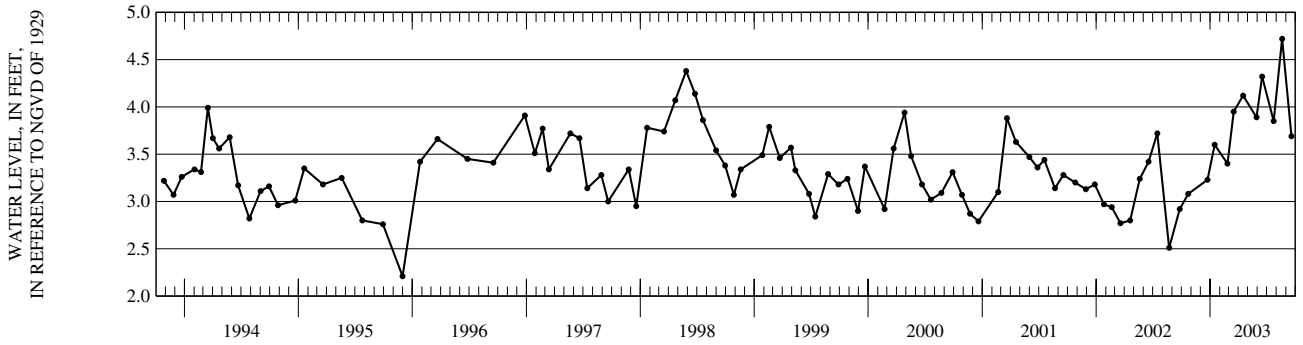
DATUM.--Land-surface datum is 21.0 ft above sea level. Measuring point: Top of coupling, 0.03 ft below land-surface datum.

PERIOD OF RECORD.--June 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.72 ft above sea level, August 19, 2003; lowest measured, 2.21 ft above sea level, November 30, 1995.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	3.08	JAN 15	3.60	MAR 17	3.95	MAY 29	3.89	JUL 23	3.85	SEP 18	3.69
DEC 23	3.23	FEB 25	3.40	APR 16	4.12	JUN 16	4.32	AUG 19	4.72		



410038072284202. Local number, S91814.1

LOCATION.--Lat 40°58'01", long 72°35'44", Hydrologic Unit 02030202, at east side of Manor Lane, south of Sound Avenue, 155 ft north of power lines, southernmost well, Jamesport. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper glacial (water table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 77 ft, screened 67 to 72 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by United States Geological Survey personnel.

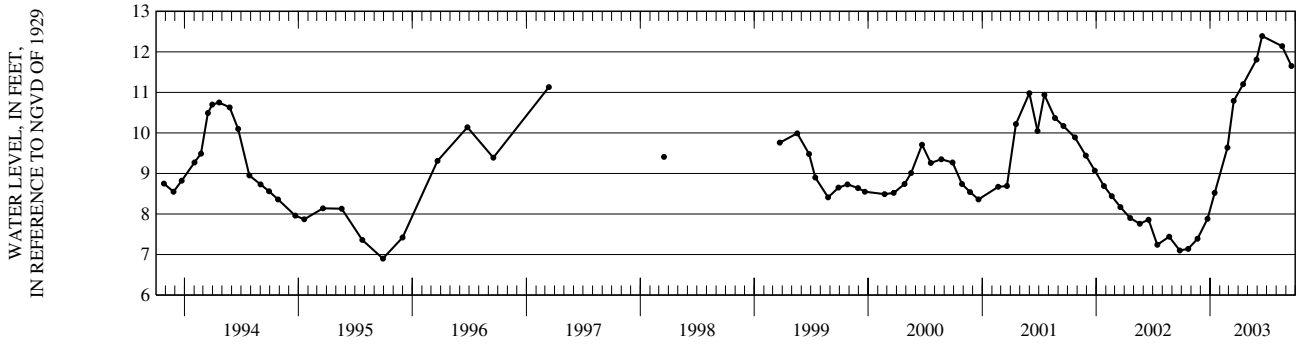
DATUM.--Land-surface datum is 53.0 ft above sea level. Measuring point: Top of coupling, 0.04 ft above land-surface datum.

PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.69 ft above sea level, June 18, 1990; lowest measured, 5.77 ft above sea level, October 31 and November 4, 1988.

WATER SURFACE ELEVATION IN FEET (NGVD1929), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	7.14	DEC 23	7.88	FEB 25	9.64	APR 16	11.20	JUN 16	12.39	SEP 18	11.65
NOV 21	7.39	JAN 15	8.52	MAR 17	10.79	MAY 29	11.81	AUG 19	12.14		



MISCELLANEOUS SITES

Station number	Local number	Lat-itude	Long-itude	Aquifer unit code	Start of record	Altitude of land surface (ft, msl)	Screen interval (feet below land surface) Top	Bottom	Date	Water level (ft, msl)
404057073583701	K19. 1	404058	0735840	112JMCO	07-29-1954	46.9	--	--	03-17-2003	8.15
403503073525101	K1057. 1	403503	0735251	211LLYD	06-03-1944	13.0	--	--	03-18-2003	4.97
403750073571701	K3132. 1	403750	0735717	112JMCO	03-17-1982	31.0	259	300	03-16-2003	5.77
403748073422603	N1115. 3	403748	0734226	112GLCLU	03-28-1990	22.0	--	--	03-18-2003	11.50
403637073434502	N1422. 2	403637	0734345	112GLCLU	12-28-1964	16.0	--	--	03-18-2003	7.86
404052073414201	N1613. 1	404052	0734142	211MGTY	01-29-1968	25.0	--	--	03-27-2003	15.60
404532073420901	N1802. 2	404512	0734210	211LLYD	02-26-1946	131.0	641	691	03-26-2003	7.66
403621073441801	N3862. 2	403621	0734418	211MGTY	02-01-1968	8.0	295	306	03-17-2003	4.04
403621073441702	N4062. 1	403621	0734418	112JMCO	02-01-1968	8.0	137	142	03-18-2003	3.65
403642073433201	N6510. 1	403642	0734332	211MGTY	07-25-1958	8.0	455	461	03-18-2003	4.38
405018073395301	N7244. 1	405018	0733954	112PGQF	12-04-1981	13.9	292	302	03-19-2003	14.00
404544073265502	N7397. 2	404544	0732655	112GLCLU	04-27-1984	154.0	96	101	03-28-2003	65.28
404345073411901	N7650. 1	404344	0734121	211MGTY	12-15-1967	97.0	400	440	03-27-2003	37.29
404730073423101	N8877. 1	404730	0734231	112GLCLU	09-13-1972	12.0	71	76	03-17-2003	9.89
405055073430701	N8891. 1	405047	0734314	112GLCLU	11-16-1972	60.0	67	72	03-19-2003	9.17
404606073434101	N8970. 1	404606	0734341	112GLCLU	07-11-1973	154.0	188	193	03-19-2003	28.33
405131073405802	N9116. 1	405131	0734058	112GLCLU	04-20-1976	15.0	26	31	03-19-2003	8.62
405144073432902	N9118. 1	405144	0734329	112GLCLU	04-14-1976	51.0	95	100	03-19-2003	5.18
404748073385705	N9313. 1	404748	0733857	112GLCLU	07-06-1977	58.0	--	--	03-19-2003	43.76
404347073260702	N9662. 1	404347	0732607	112GLCLU	03-12-1981	68.8	52	57	03-27-2003	47.66
404103073373306	N9694. 1	404936	0734044	112GLCLU	08-23-1995	154.0	178	189	03-19-2003	113.40
404713073445401	N9892. 1	404713	0734454	112GLCLU	03-18-1983	32.0	35	45	03-17-2003	11.72
404827073422301	N9899. 1	404827	0734223	112GLCLU	11-07-1991	43.0	25	35	03-17-2003	14.98
404817073413501	N9902. 1	404817	0734135	112GLCLU	04-01-1994	133.0	80	100	03-28-2003	75.99
404805073401001	N9906. 1	404805	0734010	112GLCLU	11-05-1991	168.0	95	125	03-19-2003	85.61
404404073420201	N9983. 1	404404	0734202	211MGTY	12-17-1982	108.0	91	96	03-17-2003	39.62
403959073434301	N 10001. 1	403959	0734343	112GLCLU	03-20-1990	16.0	--	--	03-17-2003	9.34
404821073430501	N 10192. 1	404821	0734305	211LLYD	01-14-1985	24.0	343	348	03-17-2003	9.52
404823073265901	N 10607. 1	404823	0732659	211MGTY	03-27-1990	260.5	--	--	03-17-2003	69.55
404910073271601	N 10608. 1	404910	0732716	--	03-26-1990	249.0	--	--	03-27-2003	64.07
403511073450901	N 10620. 1	403511	0734509	211LLYD	11-23-1987	4.0	1140	1150	04-03-2003	6.84
403732073443402	N 11573. 1	403731	0734441	211LLYD	03-20-1991	8.0	775	795	04-16-2003	5.24
404324073414401	N 11577. 1	404324	0734144	211LLYD	03-21-1991	45.5	700	720	04-02-2003	9.24
404323073414401	N 11580. 1	404323	0734144	211MGTY	03-21-1991	44.5	430	450	04-03-2003	18.85
403732073443403	N 11634. 1	403733	0734443	211MGTY	03-20-1991	8.5	535	555	04-16-2003	-2.02
405030073282101	N 12075. 1	405030	0732821	211LLYD	04-14-1993	198.0	830	850	04-02-2003	34.51
405146073420701	N 12151. 1	405146	0734207	112PGQF	03-26-1993	73.0	333	348	03-19-2003	6.84
404708073433301	N 12154. 1	404708	0734333	211LLYD	03-25-1993	--	495	515	03-19-2003	11.88
405048073431401	N 12190. 1	405048	0734314	112PGQF	06-24-1993	--	215	235	04-02-2003	5.13
405010073415009	N 12232. 1	405010	0734150	211LLYD	07-30-1993	--	364	384	03-07-2003	9.06
404310073260201	N 12239. 1	404310	0732602	112GLCLU	04-01-1994	--	30.6	40.6	03-17-2003	42.58
405036073412403	N 12240. 1	405036	0734124	112GLCLU	06-24-1993	--	50	60	03-19-2003	28.68
405036073412402	N 12241. 1	405036	0734124	--	06-24-1993	--	97	117	03-19-2003	30.61
404135073254101	N 12249. 1	404135	0732541	112GLCLU	04-07-1994	--	14.8	24.8	03-19-2003	23.82
405010073415011	N 12264. 1	405010	0734150	112GLCLU	07-30-1993	--	5	20	03-17-2003	10.44
405123073404402	N 12319. 1	405123	0734044	--	12-29-1993	--	365	385	04-02-2003	12.26
404715073395501	N 12523. 1	404715	0733955	211LLYD	06-13-1995	--	748	768	03-19-2003	13.30
404921073415401	N 12793. 1	404921	0734154	211LLYD	03-15-2002	--	390	410	03-28-2003	2.69
404550073500802	Q34. 2	404553	0735008	211LLYD	02-12-1946	36.0	--	--	03-21-2003	8.79
404257073493701	Q273. 1	404257	0734937	211LLYD	06-27-1952	26.0	308	438	04-24-2003	13.17
404141073471702	Q562. 2	404140	0734716	211LLYD	02-26-1946	29.0	499	589	03-19-2003	8.20
404224073450301	Q2300. 1	404224	0734503	211MGTY	03-22-1983	63.7	240	275	03-19-2003	22.12
404504073501801	Q2418. 1	404504	0735018	112GLCLU	05-09-1967	6.4	48	60	03-20-2003	-0.63
404135073440102	Q2443. 1	404135	0734402	211MGTY	04-10-1984	55.6	320	360	03-19-2003	17.24
404040073445001	Q2955. 1	404040	0734450	211MGTY	01-17-1967	25.0	405	445	03-19-2003	12.04
404202073491704	Q3069. 2	404202	0734917	211LLYD	01-25-1977	65.0	510	550	03-19-2003	8.40
405410073281401	S9. 1	405418	0732816	211LLYD	04-21-1955	128.1	505	565	04-15-2003	14.63
405327073184301	S49. 1	405326	0731844	211LLYD	02-08-1946	132.0	747	762	04-17-2003	33.27
404957073073701	S1811. 2	404957	0730737	112GLCLU	03-23-1987	57.7	28	31	04-15-2003	54.46
404659073141801	S1815. 3	404659	0731418	112GLCLU	03-21-1984	72.5	50	54	03-20-2003	45.48
405109072513001	S2485. 1	405109	0725130	112GLCLU	07-28-1948	69.0	65	75	03-25-2003	34.19
404509073152301	S3516. 1	404509	0731523	112GLCLU	04-14-1942	60.0	--	--	03-27-2003	36.11
404918072560301	S3530. 1	404918	0725603	112GLCLU	03-08-1907	65.6	--	--	03-25-2003	32.40
405121072415601	S3539. 1	405121	0724156	112GLCLU	04-14-1942	79.0	--	--	03-24-2003	23.30
405607072393502	S4523. 2	405607	0723935	112GLCLU	09-14-1981	17.4	--	--	03-17-2003	10.65
405220072493101	S6441. 2	405220	0724931	--	02-22-1991	49.5	--	--	03-17-2003	37.41
405347072494001	S6443. 1	405347	0724940	112GLCLU	02-02-1949	55.0	--	--	03-17-2003	42.39
405307072323503	S8835. 2	405307	0723235	112GLCLU	09-18-1981	30.5	--	--	03-25-2003	9.46
404915072531801	S9129. 1	404914	0725317	112GLCLU	07-08-1982	34.0	--	--	03-17-2003	14.48
404831072530501	S9130. 1	404829	0725305	112GLCLU	06-23-1952	26.0	25	28	03-17-2003	11.35
404446073191801	S9646. 1	404446	0731918	112GLCLU	02-25-1958	51.0	--	--	03-20-2003	40.24
404225073234201	S 10314. 1	404225	0732342	112GLCLU	01-29-1958	48.0	--	--	03-20-2003	31.80
404347073195501	S 10370. 1	404347	0731955	--	03-11-1958	38.0	--	--	03-20-2003	26.87
404433073212701	S 11204. 1	404433	0732127	--	01-29-1958	53.0	--	--	03-20-2003	42.60
404540073211001	S 11240. 1	404540	0732110	112GLCLU	01-29-1958	61.0	--	--	03-20-2003	52.27

MISCELLANEOUS SITES--Continued

Station number	Local number	Lat-itude	Long-itude	Aquifer unit code	Start of record	Altitude of land surface (ft, msl)	Screen interval (feet below land surface) Top	Bottom	Date	Water level (ft, msl)
405308073175101	S 15514. 1	405308	0731751	211MGTY	05-15-1984	200.0	533	593	03-20-2003	34.21
404200073252701	S 16480. 1	404200	0732527	112GLCLU	01-30-1958	39.0	35	45	03-20-2003	28.97
405843072352902	S 16756. 2	405843	0723529	112GLCLU	12-10-1975	61.0	59	62	03-18-2003	8.92
410356072260301	S 16780. 1	410356	0722603	112GLCLU	09-30-1958	43.0	47	50	03-17-2003	3.15
405355073174801	S 16883. 1	405355	0731748	112GLCLU	07-16-1958	56.8	--	--	03-18-2003	27.37
405446073180701	S 16884. 1	405446	0731807	112GLCLU	07-16-1958	34.0	40	43	03-18-2003	18.77
405040073175801	S 19057. 1	405040	0731758	211MGTY	04-15-1970	150.0	604	676	03-25-2003	52.68
404902073094001	S 22577. 1	404902	0730940	211MGTY	08-18-1964	60.0	724	734	03-17-2003	40.43
404902073094002	S 22578. 1	404902	0730940	211MGTY	08-18-1964	60.0	392	402	03-17-2003	40.40
404902073094003	S 22579. 1	404902	0730940	112GLCLU	08-18-1964	60.0	200	210	03-17-2003	40.14
405047073120601	S 23631. 1	405047	0731207	211MGTY	03-29-1977	40.0	494	595	03-25-2003	32.04
404818073135904	S 24773. 1	404813	0731356	211MGTY	03-07-1966	118.4	412	422	03-17-2003	43.43
405716072505701	S 26780. 1	405716	0725057	112GLCLU	02-25-1970	21.7	--	--	03-17-2003	18.91
405124072353701	S 30230. 1	405124	0723537	211MGTY	03-12-1970	45.0	805	825	03-25-2003	11.94
405411072232901	S 31037. 1	405411	0722329	211MGTY	03-13-1980	36.0	--	--	04-01-2003	9.47
405838072114201	S 31653. 1	405837	0721137	211MGTY	03-27-1974	68.0	420	460	04-01-2003	11.01
410056072302601	S 32390. 1	410056	0723026	112GLCLU	11-17-1981	36.0	--	--	03-17-2003	7.15
405725072362801	S 33073. 1	405725	0723628	211MGTY	03-12-1970	47.0	440	460	03-17-2003	12.26
405336073073601	S 33500. 1	405340	0730735	211MGTY	03-12-1970	148.0	485	548	03-25-2003	39.84
405715072193701	S 33921. 1	405715	0721937	112GLCLU	01-22-1973	110.0	159	174	03-18-2003	17.26
405246073142801	S 34460. 1	405250	0731429	211MGTY	03-12-1970	153.0	531	596	03-27-2003	34.05
405505072432201	S 36013. 1	405505	0724322	112GLCLU	10-29-1970	47.0	--	--	03-17-2003	22.32
404930073120002	S 36142. 2	404930	0731200	112GLCLU	07-30-1980	81.0	--	--	03-24-2003	43.14
404656073081401	S 36143. 1	404656	0730814	112GLCLU	10-29-1969	72.0	59	62	03-17-2003	32.09
405259072465601	S 36147. 1	405259	0724656	112GLCLU	03-10-1970	47.8	--	--	03-17-2003	35.95
405117072490301	S 36150. 1	405117	0724903	112GLCLU	06-23-1951	50.0	--	--	03-17-2003	33.26
404236073225001	S 37681. 1	404232	0732256	211MGTY	03-21-1977	42.0	--	--	03-20-2003	27.75
404921073122703	S 38491. 1	404920	0731225	211MGTY	05-11-1984	61.0	320	383	03-20-2003	37.62
405924072321501	S 39269. 1	405924	0723215	112GLCLU	03-30-1983	13.6	--	--	03-17-2003	4.10
405206073153002	S 40842. 2	405206	0731530	--	12-09-1975	91.6	60	63	03-17-2003	46.68
405510073063401	S 40849. 1	405510	0730634	112GLCLU	09-29-1971	80.5	--	--	03-24-2003	39.29
405646072564301	S 40852. 1	405656	0725643	112GLCLU	07-07-1971	114.6	95	97	03-17-2003	28.75
405610072562501	S 40853. 2	405610	0725625	112GLCLU	10-04-1985	100.2	74	78	03-17-2003	35.34
405223073021301	S 41050. 1	405222	0730213	112GLCLU	02-14-1972	89.4	67	69	03-18-2003	66.00
405357073194802	S 42681. 2	405354	0731948	112GLCLU	06-22-1983	83.5	75	80	03-18-2003	30.88
405335073073201	S 42683. 1	405335	0730732	112GLCLU	08-23-1972	145.7	--	--	03-17-2003	55.58
404305073161401	S 42762. 1	404305	0731615	211MGTY	03-14-1978	26.0	650	710	03-20-2003	18.83
404820073073402	S 43641. 1	404820	0730734	211MGTY	04-19-1984	99.9	--	--	03-20-2003	40.04
404124073241601	S 43809. 1	404124	0732416	112GLCLU	02-01-1974	34.0	24	34	03-20-2003	20.99
405132073181401	S 45207. 1	405132	0731814	112GLCLU	01-31-1974	165.0	134	144	03-18-2003	60.49
405005073233701	S 45208. 1	405005	0732337	112GLCLU	01-31-1974	185.3	123	133	03-19-2003	72.63
404945073174501	S 45210. 1	404945	0731745	112GLCLU	01-31-1974	130.2	97	107	03-17-2003	58.76
404508073080902	S 45636. 1	404508	0730809	112GLCLU	06-24-1974	14.1	17	27	03-25-2003	9.23
404804073204401	S 45638. 1	404804	0732044	211MGTY	03-19-1976	163.6	658	720	03-25-2003	63.45
405231073250500	S 46281. 1	405231	0732505	112GLCLU	01-31-1974	34.0	38	50	03-18-2003	20.51
404823073211800	S 46283. 1	404823	0732118	112GLCLU	01-31-1974	275.0	225	235	03-17-2003	64.65
405746072175901	S 46527. 1	405747	0721800	112GLCLU	11-21-1972	75.0	--	--	03-17-2003	22.42
405842072211401	S 46528. 1	405843	0722115	112GLCLU	11-22-1972	125.5	99	102	03-18-2003	36.79
405147072305001	S 46532. 1	405147	0723050	112GLCLU	12-01-1972	24.0	--	--	03-20-2003	4.66
405302072313501	S 46533. 1	405302	0723135	112GLCLU	12-01-1972	84.7	--	--	03-25-2003	7.00
405230072341901	S 46534. 1	405230	0723419	112GLCLU	01-09-1973	82.0	81	84	03-20-2003	11.49
405324072352101	S 46536. 1	405324	0723521	112GLCLU	09-24-1976	24.7	--	--	03-20-2003	12.33
405130072353101	S 46537. 1	405130	0723531	112GLCLU	12-08-1972	56.2	--	--	03-25-2003	12.76
405348072370401	S 46538. 1	405340	0723709	112GLCLU	12-01-1972	61.3	--	--	03-20-2003	14.05
405301072415101	S 46542. 1	405301	0724151	112GLCLU	12-08-1972	163.0	--	--	03-19-2003	24.06
405131072455701	S 46546. 1	405131	0724557	112GLCLU	12-11-1972	127.0	--	--	03-19-2003	26.88
405620073022001	S 46549. 1	405624	0730221	112GLCLU	12-20-1972	97.0	97	101	03-18-2003	22.79
404804072484101	S 46713. 1	404804	0724841	211MGTY	03-24-1977	20.0	385	440	03-27-2003	13.10
405230073164400	S 46965. 1	405230	0731644	112GLCLU	01-31-1974	166.0	138	148	03-17-2003	41.16
404952073470501	S 46966. 1	404952	0724705	112GLCLU	01-02-1974	89.0	72	82	03-24-2003	23.53
405417072402300	S 47230. 1	405417	0724023	112GLCLU	05-07-1974	22.0	20	32	03-25-2003	13.19
405407073001101	S 47310. 1	405407	0730011	211MGTY	03-30-1977	135.0	623	693	04-01-2003	48.62
404804073051300	S 47453. 1	404804	0730513	211MGTY	03-15-1978	100.0	380	440	03-25-2003	41.55
404829072463101	S 47489. 1	404829	0724631	112GLCLU	03-20-1973	--	25	31	03-17-2003	11.54
405004072515400	S 47750. 1	405004	0725154	112GLCLU	03-01-1974	95.0	83	93	03-17-2003	27.69
404607072594701	S 47752. 1	404607	0725947	112GLCLU	01-02-1974	24.0	88	98	03-17-2003	8.37
405412072441401	S 47753. 1	405405	0724427	112GLCLU	01-07-1974	45.0	90	100	03-17-2003	25.51
405412072441402	S 47754. 1	405405	0724427	112GLCLU	01-07-1974	45.0	29	39	03-17-2003	25.51
404941072414801	S 48442. 1	404941	0724148	112GLCLU	01-02-1974	44.0	42	52	03-19-2003	12.06

MISCELLANEOUS SITES--Continued

Station number	Local number	Lat-itude	Long-itude	Aquifer unit code	Start of record	Altitude of land surface (ft, msl)	Screen interval (feet below land surface) Top	Bottom	Date	Water level (ft, msl)
410243071560101	S 48519. 1	410242	0715605	112GLCLU	01-08-1974	63.5	68	78	03-20-2003	3.41
405335072562903	S 49606. 1	405337	0725629	211MGTY	03-29-1983	75.0	307	367	04-01-2003	47.56
405120073085101	S 50500. 1	405120	0730851	112GLCLU	04-08-1974	118.0	81	85	03-17-2003	69.54
405059073085601	S 50501. 1	405059	0730757	112GLCLU	04-08-1974	73.6	60	64	03-17-2003	70.99
405010073103101	S 50505. 1	405010	0731031	112GLCLU	12-17-1973	50.0	6	10	03-17-2003	46.59
405146073141001	S 50512. 1	405146	0731410	112GLCLU	12-17-1973	84.5	--	--	03-25-2003	36.26
405100073152601	S 50513. 1	405100	0731526	112GLCLU	04-15-1974	93.0	57	61	03-17-2003	43.94
404432073151303	S 50546. 1	404432	0731513	211MGTY	03-14-1978	39.0	604	665	03-25-2003	26.90
410047072184701	S 51186. 1	410047	0721847	112GLCLU	05-20-1974	24.1	30	40	03-26-2003	2.68
404353073215801	S 51298. 1	404353	0732158	211MGTY	04-29-1984	54.3	--	--	03-27-2003	35.75
405808072385401	S 51568. 1	405808	0723854	112GLCLU	09-20-1974	56.0	58	68	03-18-2003	10.70
405805072403701	S 51571. 1	405805	0724037	112GLCLU	08-06-1974	88.0	95	105	03-18-2003	9.11
405630072442001	S 51577. 1	405630	0724420	112GLCLU	08-05-1974	80.0	83	93	03-18-2003	19.22
405542072463001	S 51579. 1	405542	0724630	112GLCLU	07-17-1974	78.0	75	85	03-17-2003	28.34
405722072342001	S 51581. 1	405722	0723420	112GLCLU	08-13-1974	32.0	32	42	03-17-2003	9.41
405642072491901	S 51586. 1	405642	0724919	112GLCLU	09-30-1974	97.7	88	98	03-17-2003	23.46
405634072380501	S 51588. 1	405634	0723805	112GLCLU	08-13-1974	38.0	47	57	03-17-2003	10.53
405512072395202	S 52449. 1	405512	0723952	112GLCLU	08-06-1974	23.0	28	38	03-18-2003	7.94
405354073021202	S 52490. 1	405355	0730212	211MGTY	03-22-1978	137.0	480	554	03-27-2003	46.78
404944072380901	S 52551. 1	404944	0723809	112GLCLU	09-09-1974	27.8	20	25	03-20-2003	10.29
405924072342301	S 53333. 1	405924	0723423	112GLCLU	03-04-1975	51.0	62	72	03-18-2003	7.19
405032073162802	S 53360. 1	405034	0731618	211MGTY	05-15-1984	141.0	551	667	03-25-2003	45.72
404950073085002	S 53498. 1	404948	0730847	211MGTY	03-30-1977	90.0	663	718	03-20-2003	42.04
405123072533701	S 54883. 1	405049	0725310	112GLCLU	10-16-1975	79.9	--	--	03-24-2003	32.95
405706072345601	S 54885. 1	405706	0723456	112GLCLU	10-29-1975	11.1	16	20	03-17-2003	10.77
405242072381801	S 54886. 1	405241	0723818	112GLCLU	10-16-1975	59.4	51	55	03-24-2003	17.41
405120073231801	S 55049. 1	405120	0732318	112GLCLU	06-19-1975	207.0	175	179	03-18-2003	53.92
404500073062101	S 56030. 1	404500	0730621	112GLCLU	05-03-1994	--	26	31	03-17-2003	19.46
405326072275601	S 57366. 1	405326	0722756	112GLCLU	11-26-1975	55.4	60	64	03-17-2003	4.21
405900072192901	S 57369. 1	405855	0721926	112GLCLU	11-26-1975	76.0	93	97	03-17-2003	13.50
404722073093401	S 57458. 1	404722	0730934	--	01-15-1976	47.4	--	--	03-17-2003	31.87
404651073095701	S 57470. 1	404651	0730957	--	01-15-1976	28.0	--	--	03-17-2003	24.59
405123073125101	S 57484. 1	405123	0731251	112GLCLU	11-17-1975	15.5	15	19	03-24-2003	11.33
405048073122801	S 57488. 1	405048	0731228	112GLCLU	12-05-1975	30.0	--	--	03-17-2003	28.09
405514073050103	S 57980. 1	405514	0730501	211MGTY	03-30-1977	187.0	630	700	03-25-2003	36.07
410040072002501	S 58921. 1	410040	0720024	112GLCLU	10-05-1976	48.0	67	72	03-19-2003	3.42
410356071544201	S 58922. 1	410355	0715444	112GLCLU	10-05-1976	47.8	51	56	03-19-2003	2.55
410404071565901	S 58923. 1	410401	0715701	112GLCLU	10-05-1976	57.3	65	70	03-19-2003	8.20
405933072093401	S 58924. 1	405934	0720932	112GLCLU	10-05-1976	110.3	132	137	03-20-2003	9.43
405950072124501	S 58925. 1	405952	0721245	112GLCLU	10-05-1976	72.0	85	90	03-20-2003	10.13
405737072215801	S 58958. 1	405738	0722159	112GLCLU	09-20-1976	190.0	203	208	03-18-2003	24.85
405816072162801	S 58959. 1	405808	0722035	112GLCLU	11-03-1976	187.5	195	200	03-18-2003	15.44
405827072190501	S 58960. 1	405827	0721905	112GLCLU	10-05-1976	134.2	150	155	03-17-2003	20.77
405615072182301	S 59793. 1	405616	0721823	211MGTY	03-21-1984	34.0	512	522	03-17-2003	11.37
405642072240001	S 59992. 1	405642	0722400	211MGTY	11-09-1977	24.2	268	278	03-18-2003	5.51
404524073044801	S 60812. 1	404524	0730448	211MGTY	04-20-1984	38.0	404	484	03-25-2003	24.42
405616072182301	S 62393. 1	405616	0721823	112GLCLU	03-21-1984	34.0	30	34	03-17-2003	15.38
410111072010101	S 62397. 1	410111	0720101	112GLCLU	12-17-1980	57.2	61	65	03-19-2003	4.07
405604073080001	S 62407. 1	405604	0730800	112GLCLU	10-25-1977	40.0	41	45	03-24-2003	13.72
404415073114001	S 63618. 1	404416	0731137	211MGTY	04-24-1984	20.0	490	550	03-25-2003	20.30
404520073102001	S 63814. 1	404520	0731020	--	03-23-1978	38.0	--	--	03-27-2003	18.49
404345073124001	S 63835. 1	404345	0731240	--	04-21-1978	13.5	--	--	03-20-2003	8.39
405652072590003	S 64023. 1	405643	0725859	211MGTY	04-21-1984	160.0	709	791	03-27-2003	23.15
404210073182501	S 64192. 1	404210	0731825	--	05-04-1978	17.6	--	--	03-20-2003	9.88
404659073202001	S 64313. 1	404659	0732020	112GLCLU	03-21-1979	89.4	25	30	03-20-2003	72.79
404746073221901	S 64316. 1	404746	0732219	112GLCLU	03-22-1979	160.1	58	63	03-17-2003	108.52
404900073242801	S 64317. 1	404900	0732428	112GLCLU	06-15-1978	149.6	78	83	03-19-2003	70.35
404813073084102	S 65601. 1	404813	0730841	112GLCLU	09-07-1978	62.6	38	41	03-17-2003	38.56
405030073180601	S 65602. 1	405030	0731806	112GLCLU	09-29-1978	146.0	91	96	03-17-2003	70.95
404713072575701	S 65603. 1	404718	0725749	112GLCLU	10-06-1978	54.0	65	70	03-17-2003	25.74
405003073155201	S 65607. 1	405003	0731552	112GLCLU	09-12-1978	138.0	97	102	03-17-2003	47.53
405245072573702	S 66506. 1	405245	0725737	112GLCLU	01-30-1979	83.0	55	60	03-17-2003	49.90
405345072591101	S 66507. 1	405345	0725911	112GLCLU	01-30-1979	100.0	68	72	03-17-2003	50.89
405014072564001	S 66508. 1	405013	0725640	112GLCLU	01-30-1979	66.0	55	60	03-17-2003	37.77
405002073043501	S 66509. 1	405002	0730435	112GLCLU	01-30-1979	139.7	109	114	03-17-2003	49.84
405644073051201	S 66511. 1	405644	0730512	112GLCLU	01-30-1979	105.0	--	--	03-17-2003	12.11
405504073011201	S 66512. 1	405504	0730112	112GLCLU	01-30-1979	120.6	99	104	03-18-2003	47.35
404949073215101	S 66847. 1	404949	0732151	112GLCLU	12-13-1978	170.8	97	102	03-17-2003	72.79
404632073070802	S 67074. 1	404632	0730706	211MGTY	04-19-1984	70.0	765	825	03-20-2003	36.95

MISCELLANEOUS SITES--Continued

Station number	Local number	Lat-itude	Long-itude	Aquifer unit code	Start of record	Altitude of land surface (ft, msl)	Screen interval (feet below land surface) Top	Bottom	Date	Water level (ft, msl)
404652073120301	S 67197. 1	404652	0731203	211MGTY	04-24-1984	65.0	--	--	03-20-2003	33.07
405255073044301	S 67564. 1	405255	0730443	112GLCLU	03-27-1980	103.0	80	85	03-17-2003	54.80
405551072561601	S 69364. 1	404551	0725616	211MGTY	03-23-1983	32.8	--	--	03-27-2003	19.72
410343071533101	S 70262. 1	410343	0715331	112GLCLU	06-01-1981	50.5	158	163	03-19-2003	3.84
410213071572202	S 70263. 1	410213	0715722	112GLCLU	05-05-1981	27.8	40	45	03-19-2003	3.97
405155073045203	S 70488. 1	405158	0730448	211MGTY	04-21-1984	95.6	344	437	03-25-2003	52.71
410219071591101	S 70614. 1	410219	0715911	112GLCLU	05-05-1981	86.0	90	95	03-19-2003	3.75
410320071570601	S 70617. 1	410320	0715706	112GLCLU	03-09-1982	72.7	93	97	03-19-2003	7.20
410330071563901	S 70618. 1	410330	0715639	112GLCLU	05-05-1981	85.6	100	105	03-19-2003	3.55
410414071515901	S 70627. 1	410414	0715159	112GLCLU	12-08-1981	90.1	90	95	03-19-2003	12.47
404807072590801	S 71785. 1	404807	0725908	211MGTY	04-14-1984	71.9	--	--	04-01-2003	34.05
404750073225302	S 74284. 2	404750	0732253	211MGTY	03-27-1984	154.0	699	704	03-17-2003	66.10
404750073225303	S 74285. 1	404750	0732253	211MGTY	03-27-1984	154.3	440	445	03-17-2003	66.67
404750073225304	S 74286. 1	404750	0732253	211MGTY	03-27-1984	154.6	107	112	03-17-2003	67.99
405418072511201	S 74289. 1	405417	0725116	112GLCLU	05-10-1983	76.8	40	44	03-17-2003	44.82
405421072474501	S 74291. 1	405421	0724745	112GLCLU	05-10-1983	44.4	15	19	03-17-2003	39.64
405115072370501	S 74300. 1	405127	0723643	112GLCLU	05-10-1983	75.0	68	72	03-20-2003	14.94
405419072381201	S 74304. 1	405417	0723810	112GLCLU	05-11-1983	25.3	25	29	03-20-2003	9.51
404849073261201	S 74585. 1	404849	0732612	211MGTY	04-02-1984	365.0	452	455	03-20-2003	62.89
404859073194003	S 75455. 1	404859	0731940	211MGTY	03-27-1984	230.2	500	505	03-17-2003	62.67
404530073181102	S 76016. 2	404530	0731811	211MGTY	06-19-1984	63.5	752	757	03-20-2003	41.24
404530073181103	S 76017. 1	404530	0731811	211MGTY	06-19-1984	63.2	495	500	03-20-2003	40.92
404530073181104	S 76018. 1	404530	0731811	211MGTY	06-19-1984	63.0	186	191	03-20-2003	41.40
404530073181105	S 76019. 1	404530	0731811	112GLCLU	09-11-1984	63.0	57	62	03-20-2003	51.38
404852073024202	S 76478. 1	404852	0730242	112GLCLU	04-06-1984	104.8	70	75	03-17-2003	45.07
404942073175502	S 76673. 2	404942	0731755	211MGTY	08-15-1984	130.0	625	630	03-17-2003	57.05
404942073175503	S 76674. 1	404942	0731755	211MGTY	08-15-1984	130.0	455	460	03-17-2003	57.32
404942073175504	S 76675. 1	404942	0731755	211MGTY	08-15-1984	130.0	245	250	03-17-2003	58.30
405446072524801	S 76834. 1	405446	0725248	112GLCLU	06-22-1984	87.9	44	48	03-17-2003	47.54
405004072515402	S 78323. 1	405004	0725154	211MGTY	03-05-1985	95.0	331	336	03-17-2003	27.32
404846072533204	S 84806. 1	404846	0725332	211MGTY	03-23-1987	17.6	839	849	03-26-2003	23.63
404846072533201	S 84807. 1	404846	0725332	211MGTY	03-23-1987	17.7	545	556	03-26-2003	21.09
404846072533203	S 84808. 1	404846	0725332	211MGTY	03-23-1987	17.5	101	106	03-17-2003	11.27
404846072533202	S 85712. 1	404846	0725332	112GLCLU	03-23-1987	17.5	21	22	03-17-2003	11.04
405405072442701	S 89534. 1	405405	0724427	211MGTY	03-22-1994	44.0	782	792	03-17-2003	24.37
405405072442702	S 89535. 1	405405	0724427	211MGTY	03-14-1990	44.0	510	520	03-17-2003	25.34
405405072442703	S 89536. 1	405405	0724427	211MGTY	03-14-1990	44.0	260	270	03-17-2003	25.51
405038072431104	S 94489. 1	405038	0724311	211MGTY	03-22-1990	46.0	824	834	03-24-2003	15.40
404759073251701	S 95963. 1	404759	0732517	112GLCLU	03-21-1994	170.0	180	190	03-20-2003	68.12
404759073251702	S 95964. 1	404759	0732517	211MGTY	03-21-1994	170.5	396	406	03-18-2003	67.73
405914072190803	S105710. 1	405914	0721908	211MGTY	01-23-1995	44.1	437	447	03-17-2003	10.32
405844072191702	S105711. 1	405844	0721917	211MGTY	01-23-1995	114.5	372	382	03-17-2003	11.63
405914072190802	S106182. 1	405914	0721908	112GLCLU	09-26-1994	43.8	45	55	03-17-2003	18.01
405844072191701	S106185. 1	405844	0721917	112GLCLU	09-20-1994	114.2	115	125	03-18-2003	67.05
405741072161801	S106189. 1	405741	0721618	112GLCLU	09-15-1994	70.3	77	87	03-20-2003	14.32

Aquifer unit code	Description
112GLCLU	Upper glacial aquifer, Pleistocene age.
112PLSC	Pleistocene deposit, undifferentiated
112PGFG	Port Washington confining unit, Pleistocene age.
112PGQF	Port Washington aquifer, Pleistocene age.
112GRDR	Gardiners Clay, Pleistocene age.
112JMCO	Jameco Gravel, Pleistocene age.
211MGTY	Magothy aquifer, Cretaceous age.
211RCNF	Raritan confining unit, Cretaceous age.
211LLYD	Lloyd aquifer, Cretaceous age.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

NASSAU AND QUEENS COUNTIES

The following wells were sampled for water quality during the 2003 water year by the agency listed below. For further information, contact:

Nassau County Department of Public Works
Water Supply Unit
170 Cantiague Rock Road
Hicksville, NY 11801

Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier
N129	N8052	N9419	N9942	N11962	N12646
N180	N8204	N9469	N9945	N12082	N12665
N1147	N8414	N9472	N9964	N12102	N12697
N1102	N8646	N9647	N10000	N12151	N12711
N1139	N8669	N9648	N10001	N12153	N12733
N1194	N8831	N9651	N10007	N12164	N12747
N1231	N8832	N9653	N10084	N12232	N12755
N2790	N8838	N9655	N10130	N12240	N12771
N3498	N8849	N9664	N10133	N12250	N12772
N3554	N8857	N9669	N10134	N12253	N12774
N3861	N8863	N9703	N10202	N12256	N12775
N3862	N8876	N9712	N10245	N12257	N12790
N3865	N8984	N9713	N10252	N12263	N12791
N3867	N9054	N9776	N10291	N12274	N12793
N4062	N9117	N9802	N10425	N12275	N12870
N4213	N9154	N9898	N10430	N12318	N12894
N4547	N9313	N9902	N10620	N12320	N12895
N5129	N9356	N9906	N10667	N12483	N12921
N6657	N9371	N9917	N10979	N12507	N12946
N6701	N9372	N9921	N11490	N12508	Q287
N6704	N9396	N9924	N11671	N12571	Q1187
N6928	N9408	N9927	N11780	N12613	Q3109
N7161	N9409	N9936	N11832	N12614	
N8046	N9410	N9938	N11961	N12618	

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

NASSAU COUNTY

The following wells were sampled for water quality during the 2001 water year by the agency listed below. For further information, contact:

Nassau County Department of Health
240 Old Country Road
Mineola, NY 11501

Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier
N69	N3935	N5792	N7157	N8218	N8956	N10211	N12796
N81	N3953	N6077	N7353	N8246	N9173	N10286	N12918
N1601	N4082	N6087	N7421	N8248	N9210	N10408	N12981
N2602	N4245	N6190	N7548	N8251	N9211	N10557	N12999
N2748	N5152	N6744	N7664	N8279	N9334	N10889	N13000
N3443	N5153	N6866	N7772	N8474	N9446	N11107	N13119
N3475	N5155	N6867	N7773	N8475	N9591	N11295	N13192
N3704	N5304	N6915	N7855	N8497	N9613	N12217	N13268
N3742	N5322	N7104	N8010	N8818	N9846	N12560	N13303
N3761	N5653	N7117	N8196	N8881	N10103	N12639	N13367
							N13383

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

SUFFOLK COUNTY

The following wells were sampled for water quality during the 2003 water year by the agency listed below. For further information, contact:

Suffolk County Department of Health Services
Office of Water Resources
220 Rabro Drive East
Hauppauge, NY 11788

Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier
S44914	S45720	S47225	S47753	S48720	S66508
S45053	S45721	S47675	S47754	S48759	S66511
S45208	S45722	S47718	S47755	S49233	S66513
S45210	S46281	S47743	S47756	S52162	S75455
S45212	S46284	S47746	S47757	S52163	S75456
S45447	S46287	S47747	S47788	S52164	S89534
S45636	S46502	S47748	S47945	S53323	S89535
S45637	S46962	S47749	S47973	S53335	S89536
S45718	S46966	S47751	S47974	S58924	
S45719	S47224	S47752	S48651	S66506	

SUFFOLK COUNTY

The following wells were sampled for water quality during the 2003 water year by the agency listed below. For further information, contact:

Suffolk County Water Authority
Sunrise Highway
Oakdale, NY 11769

Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier
S8	S21632	S30234	S37494	S46400	S53851	S66758	S83475	S107792	S115975
S75	S22048	S30506	S37681	S46713	S54305	S66881	S83707	S107894	S116835
S703	S22362	S31038	S37847	S46830	S54308	S67074	S84848	S108161	S117125
S1313	S22389	S31039	S37861	S46928	S54377	S67197	S88463	S108235	S117209
S2415	S22471	S31104	S37963	S47024	S54473	S67656	S89756	S108335	S117454
S7383	S22547	S31471	S38192	S47035	S54568	S67819	S90674	S108347	S117500
S10733	S22640	S31624	S38194	S47219	S55028	S67925	S93519	S108562	S117501
S11105	S22711	S31913	S38320	S47310	S55463	S68230	S93701	S108911	S117629
S11810	S22880	S32180	S38321	S47435	S55502	S68552	S93702	S109073	S117665
S12130	S23183	S32287	S38491	S47436	S55733	S68666	S93794	S109249	S117679
S14326	S23184	S32325	S38701	S47437	S56038	S68690	S94138	S109640	S117742
S14710	S23185	S32326	S38784	S47438	S56039	S68880	S94274	S109647	S117743
S14792	S23186	S32359	S38785	S47453	S56133	S69024	S94286	S109750	S117789
S15500	S23255	S32412	S38916	S47673	S56674	S69364	S96232	S110018	S117831
S15501	S23371	S32501	S38917	S47886	S57008	S69511	S96352	S110782	S117856
S15514	S23445	S32551	S39024	S47887	S57354	S70008	S96673	S111004	S117861
S15746	S23524	S32552	S39347	S48193	S57357	S70459	S97501	S111165	S117863
S15776	S23715	S33005	S39536	S48719	S57871	S70488	S97502	S111457	S118097
S15795	S23828	S33006	S40161	S49422	S57961	S70767	S98350	S111969	S118291
S16129	S23832	S33308	S40330	S49606	S57979	S71038	S98523	S112236	S118292
S16175	S24047	S33500	S40331	S50222	S57980	S71083	S98721	S112290	S118355
S16309	S24484	S33775	S40497	S50546	S58708	S71533	S99014	S112293	S118363
S16395	S24552	S33820	S40498	S50630	S58761	S71715	S99908	S112780	S118364
S16892	S24663	S33922	S40709	S51214	S59347	S71785	S99130	S113006	S118550
S17037	S24846	S33970	S40710	S51266	S59744	S71881	S99271	S113016	S118689
S17474	S24850	S34007	S40711	S51274	S60127	S71882	S99960	S113156	S118737
S17576	S24851	S34030	S40837	S51275	S60486	S71892	S100204	S113157	S118753
S17577	S25449	S34031	S40838	S51298	S60812	S72245	S100453	S113387	S118806
S17689	S25617	S34300	S40980	S51457	S61910	S72271	S100608	S113451	S118818
S18846	S25776	S34301	S42226	S51519	S61937	S72300	S100691	S113525	S118878
S19048	S26681	S34460	S42227	S51609	S62022	S72326	S101321	S113641	S118884
S19198	S27070	S34733	S42270	S51673	S62240	S72917	S101364	S113643	S118987
S19399	S27192	S34894	S42473	S51953	S62855	S73063	S101579	S113672	S119039
S19465	S27440	S35033	S42504	S52126	S63205	S73144	S101655	S113812	S119207
S19584	S27533	S35446	S42505	S52451	S63256	S73332	S101755	S114163	S119237
S20057	S27784	S35494	S42760	S52490	S63618	S73492	S102248	S114649	S119306
S20300	S28408	S35939	S42761	S52943	S63966	S73847	S102721	S115099	S119415
S20305	S28503	S36166	S42762	S52944	S64023	S74505	S103447	S115269	S119652
S20318	S28819	S36459	S42827	S52945	S64062	S74573	S103519	S115361	S119856
S20369	S28928	S36460	S43001	S53074	S64609	S74865	S103522	S115444	S119927
S20479	S29411	S36714	S43088	S53291	S64847	S76304	S103523	S115545	S119995
S20530	S29491	S36748	S43117	S53360	S65505	S76305	S105003	S115563	S120019
S20635	S29492	S36791A	S43641	S53361	S65766	S76772	S105300	S115663	S120243
S20687	S29732	S36791B	S44640	S53497	S66183	S77010	S105301	S115702	S120485
S20689	S30088	S36869	S44774	S53498	S66184	S78310	S105524	S115703	S120636
S20705	S30117	S36965	S44774B	S53522	S66366	S78612	S105669	S115704	S120830
S20839	S30118	S36976	S45610	S53593	S66429	S79293	S106416	S115706	S121041
S21121	S30207	S37140	S45839	S53697	S66496	S81473	S106565	S115776	S121048
S21244	S30227	S37141	S45840	S53747	S66657	S82174	S106977	S115899	
S21247	S30228	S37301	S46235	S53850	S66733	S83096	S106978	S115945	

Sample sites

All sites sampled as part of the Brooklyn and Queens Aquifer Study, New York State Pesticide Monitoring Program, Mosquito Insecticides in Surface Water Study, South Fork Evaluation Study, Manhasset Neck Peninsula Aquifer Study, Waste Water Coumpounds in Ground Water Study are reported in the water quality tables. Ground-water sites include observation wells, industrial-supply wells, and public-supply wells. Most surface-water and ground-water samples were analyzed in the U.S. Geological Survey Laboratory in Denver, Colorado. Samples collected as part of the Mosquito insecticides in Surface water Study were analyzed at the USGS Kansas Organic Water Quality Research Laboratory. All samples collected in accordance with the USGS field manual, available on line at http://water.usgs.gov/owq/FieldManual.

Analyses of pesticides in surface-water and ground-water samples (laboratory schedule 2001)

Selected surface-water and ground-water samples from New York State Pesticide Monitoring Program sites were analyzed for pesticides on laboratory schedule 2001 during the 2003 water year. This table lists the pesticides on the schedule, the National Water Information System parameter code, the unit of measure (micrograms per liter, µg/L), and the reporting level. **Only pesticides detected in at least one sample are listed in the organic water-quality tables.**

SCHEDULE DESCRIPTION.--Pesticides in filtered water extracted on C-18 Solid Phase Extraction (SPE) cartridge and analyzed by Gas Chromatography/Mass Spectrometry (GC/MS).

SAMPLE REQUIREMENTS.--1 liter of water filtered through 0.7-micron glass-fiber depth filter, processed by chilling at 4° C (packed in ice).

CONTAINER REQUIREMENTS.--1 liter baked amber glass bottle (GCC).

PCODE.--The National Water Information System parameter code.

COMPOUND NAME.--Pesticide name.

OTHER NAME.--Common or trade name(s) for constituent

MRL.--Minimum reporting level.

PCode	Compound name (other names)	MRL (µg/L)
49260	Acetochlor (Harness Plus, Surpass)	0.006
61029	Acetochlor ESA	0.05
61030	Acetochlor OA	0.05
62847	Acetochlor SAA	0.05
50009	Alachlor ESA	0.05
61031	Alachlor OA	0.05
62848	Alachlor SAA	0.05
46342	Alachlor (Lasso, Bullet)	0.004
39632	Atrazine (Atrex, Atred)	0.007
82673	Benfluralin (Benefin, Balan)	0.010
04028	Butylate (Genate Plus, Suntan+)	0.002
82680	Carbaryl (Sevin, Denapan)	0.041
82674	Carbofuran (Furandan, Curaterr)	0.020
38933	Chlorpyrifos (Brodan, Dursban)	0.005
04041	Cyanazine (Bledex, Fortrol)	0.018
82682	DCPA (Dacthal, Chlorthal-dimethyl)	0.003
62170	Desulfinyl fipronil	0.004
34653	*p,p´*-DDE	0.003
04040	Deethylatrazine (metabolite of Atrazine)	0.006
39572	Diazinon (Basudin, Diazatol)	0.005
39381	Dieldrin (Panoram D-31, Octalox)	0.005
82660	Diethylanaline (metabolite of Alachlor)	0.006
61951	Dimethenamid ESA	0.05
62482	Dimethenamid OA	0.05
82677	Disulfoton (Disyston, Frumin AL)	0.02
82668	EPTC (Eptam, Farmarox)	0.002
82663	Ethalfluralin (Sonalan, Curbit)	0.009
82672	Ethoprop (Mocap, Ethoprophos)	0.005
04095	Fonofos (Dyfonate, Capfos)	0.003
62169	Desulfinylfipronilamide	0.009
62167	Fipronil sulfide	0.005
62168	Fipronil sulfone	0.005
62166	Fipronil	0.007
61952	Flufenacet ESA	0.05
62483	Flufenacet OA	0.05
34253	α-HCH (α-BHC, α-lindane)	0.005
39341	γ-HCH (Lindane, γ-BHC)	0.004
82666	Linuron (Lorex, Linex)	0.035
39532	Malathion	0.027
82686	Methyl azinphos (Guthion, Gusathion)	0.050
39415	Metolachlor (Dual, Pennant)	0.013
61043	Metolachlor ESA	0.05
61044	Metolachlor OA	0.05
82630	Metribuzin (Lexon, Sencor)	0.006
82671	Molinate (Ordram)	0.002
82684	Napropamide (Devrinol)	0.007
39542	Ethyl-Parathion (Roethyl-P, Alkron)	0.010
82667	Methyl-Parathion (Penncap-M)	0.006
82669	Pebulate (Tillam, PEBL)	0.004
82683	Pendimethalin (Prowl, Stomp, Pre-M)	0.022
82687	*cis*-Permethrin (Ambush, Astro)	0.006
82664	Phorate (Thimet, Granutox)	0.011
04037	Prometon (Pramitol, Princep)	0.01
82676	Pronamide (Kerb) (Propyzamid)	0.004
62766	Propachlor ESA	0.05
62767	Propachlor OA	0.05
04024	Propachlor (Ramrod, Satecid)	0.010
82679	Propanil (Stampede, Stam)	0.011
82685	Propargite (Omite, Alkyl sulfite)	0.02
04035	Simazine (Princep, Caliber 91)	0.005
82670	Tebuthiuron (Spike, Tebusan)	0.02
82665	Terbacil (Sinbar)	0.034
82675	Terbufos (Counter, Contraven)	0.02
82681	Thiobencarb (Bolero, Saturn)	0.005
82678	Triallate (Avadex BW, Far-Go)	0.002
82661	Trifluralin (Treflan, Gowan)	0.009

Analyses of pesticides and degradates in surface-water and ground-water samples (laboratory schedule 2002)

Selected surface-water and ground-water samples from Brooklyn and Queens Aquifer Study, New York State Pesticide Monitoring Program, and South Fork Evaluation Study sites were analyzed for pesticides and degradates on

laboratory schedule 2002 during the 2003 water year. This table lists the pesticides on the schedule, the National Water Information System parameter code, the unit of measure (micrograms per liter, µg/L), and the reporting level. **Only pesticides and degradates detected in at least one sample are listed in the organic water-quality tables.**

SCHEDULE DESCRIPTION.--Pesticides and degradates in filtered water extracted on C-18 Solid Phase Extraction (SPE) cartridge and analyzed by Gas Chromatography/Mass Spectrometry (GC/MS).

SAMPLE REQUIREMENTS.--1 liter of water filtered through 0.7-micron glass-fiber depth filter, processed by chilling at 4° C (packed in ice).

CONTAINER REQUIREMENTS.--1 liter baked amber glass bottle (GCC).

PCODE.--The National Water Information System parameter code.

COMPOUND NAME.--Pesticide name.

OTHER NAME.--Common or trade name(s) for constituent

MRL.--Minimum reporting level.

PCode	Compound name (other names)	MRL (µg/L)
61611	1,4-Napthoquinone	0.0509
49295	1-Naphthol	0.0882
61614	2,5-Dichloroaniline	0.0261
61617	2-Amino-*N*-isopropylbenzamide	0.0049
61618	2-Chloro-2,6-diethylacetanilide	0.0050
61620	2-Ethyl-6-methylaniline	0.0045
61625	3,4-Dichloroaniline	0.0045
61627	3,5-Dichloroaniline	0.0047
61630	3-Trifluoromethylaniline	0.0108
61631	4,4´-Dichlorobenzophenone	0.0034
61633	4-Chloro-2-methylphenol	0.0056
61634	4-Chlorobenzylmethyl sulfone	0.0304
61635	Azinphos-methyl-oxon	0.016
61580	Bifenthrin	0.0053
38716	Sulprofos	0.0155
61636	Chlorpyrofos, oxygen analog	0.0562
79842	*cis*-Methyl-3-(2,2-dichlorovinyl)-2,2-dimethyl-(1-cyclopropane)-carboxylate	0.0393
79846	*cis*-Propiconazole	0.008
04031	Cycloate	0.0047
61637	2-(4-*tert*-butylphenoxy)-cyclohexanol	0.0108
61585	Cyfluthrin	0.008
61586	Cypermethrin	0.0086
38775	Dichlorvos	0.0118
38454	Dicrotophos	0.0843
82662	Dimethoate	0.0061
61640	Disulfoton sulfone	0.0159
61641	Disulfoton sulfoxide	0.0021
79844	e-Dimethomorph	0.0203
34362	alpha-Endosulfan	0.0047
34357	beta-Endosulfan	0.0142
61590	Endosulfan sulfate	0.0058
61642	Endosulfan ether	0.0041
82346	Ethion	0.0040
61615	Ethylmethylphenylamionpropanol (Tribufos)	0.126
61644	Ethion monoxon	0.0336
61591	Fenamiphos	0.0290
61645	Fenamiphos sulfone	0.0077
61646	Fenamiphos sulfoxide	0.031
38801	Fenthion	0.0154
61592	Flumetralin	0.004
61647	Fenthion sulfoxide	0.0079
61649	Fonofos, oxygen analog	0.0021
04025	Hexazinone	0.0129
61593	Iprodione	1.42
61594	Isofenphos	0.0034
61595	lambda-Cyhalothrin	0.0089
61652	Malaoxon	0.008
61596	Metalaxyl	0.0051
61598	Methidathion	0.0058
61599	Myclobutanil	0.008
61660	*O*-Ethyl-*O*-methyl-*S*-propylphosphorothioate	0.0083
61600	Oxyfluorfen	0.0073
61663	Paraoxon-ethyl	0.008
61664	Paraoxon-methyl	0.0299
61666	Phorate oxon	0.0973
61601	Phosmet	0.0079
61668	Phosmet oxon	0.0553
61602	Tebupirimphos	0.0055
61669	Tebupirimphos oxygen analogue	0.0063
61603	Profenofos	0.0059
04036	Prometryn	0.0054
61604	Propetamphos	0.0038
61605	Sulfotepp	0.0025
61606	Tefluthrin	0.0077
61607	Temephos (Abate)	0.267
61674	Terbufos-O-analogue sulfone	0.0676
04022	Terbuthylazine	0.0102
79843	*trans*-Methyl-3-(2,2-dichlorovinyl)-2,2-dimethyl-(1-cyclopropane)-carboxylate	0.0335
79847	*trans*-Propiconazole	0.0133
61610	Tribufos	0.0044
79845	z-Dimethomorph	0.0457

Analyses of pesticides and degradates in surface-water and ground-water samples (laboratory schedule 2003)

Selected surface-water and ground-water samples from Brooklyn and Queens Aquifer Study and South Fork Evaluation Study sites were analyzed for pesticides and degradates on laboratory schedule 2003 during the 2003 water year. This table lists the pesticides on the schedule, the National Water Information System parameter code, the unit of measure (micrograms per liter, µg/L), and the reporting level. **Only pesticides and degradates detected in at least one sample are listed in the organic water-quality tables.**

SCHEDULE DESCRIPTION.--Pesticides and degradates in filtered water extracted on C-18 Solid Phase Extraction (SPE) cartridge and analyzed by Gas Chromatography/Mass Spectrometry (GC/MS).

SAMPLE REQUIREMENTS.--1 liter of water filtered through 0.7-micron glass-fiber depth filter, processed by chilling at 4° C (packed in ice).

CONTAINER REQUIREMENTS.--1 liter baked amber glass bottle (GCC).

PCODE.--The National Water Information System parameter code.

COMPOUND NAME.--Pesticide name.

OTHER NAME.--Common or trade name(s) for constituent

MRL.--Minimum reporting level.

PCode	Compound name (other names)	MRL (µg/L)
49295	1-Naphthol	0.09
61618	2-Chloro-2,6-diethylacetanilide	0.005
61620	2-Ethyl-6-methylaniline	0.004
61625	3,4-Dichloroaniline	0.004
61633	4-Chloro-2-methylphenol	0.006
49260	Acetochlor	0.006
46342	Alachlor	0.004
82660	2,6-Diethylaniline	0.006
39632	Atrazine	0.007
82686	Azinphos-methyl	0.050
61635	Azinphos-methyl-oxon	0.02
82673	Benfluralin	0.010
82680	Carbaryl	0.041
38933	Chlorpyrifos	0.005
61636	Chlorpyrofos, oxygen analog	0.06
82687	cis-Permethrin	0.006
61585	Cyfluthrin	0.008
61586	Cypermethrin	0.009
82682	DCPA	0.003
04040	2-Chloro-4-isopropylamino-6-amino-s-triazine (CIAT)	0.006
39572	Diazinon	0.005
61638	Diazinon, oxygen analog	0.01
38775	Dichlorvos	0.01
38454	Dicrotophos	0.08
39381	Dieldrin	0.005
82662	Dimethoate	0.006
82346	Ethion	0.004
61644	Ethion monoxon	0.03
61591	Fenamiphos	0.03
61645	Fenamiphos sulfone	0.008
61646	Fenamiphos sulfoxide	0.03
62169	Desulfinylfipronil amide	0.009
62167	Fipronil sulfide	0.005
62168	Fipronil sulfone	0.005
62170	Desulfinylfipronil	0.004
62166	Fipronil	0.007
04095	Fonofos	0.003
61649	Fonofos, oxygen analog	0.002
04025	Hexazinone	0.013
61593	Iprodione	1
61594	Isofenphos	0.003
61652	Malaoxon	0.008
39532	Malathion	0.027
61596	Metalaxyl	0.005
61598	Methidathion	0.006
82667	Parathion-methyl	0.006
39415	Metolachlor	0.013
82630	Metribuzin	0.006
61599	Myclobutanil	0.008
61664	Paraoxon-methyl	0.03
82683	Pendimethalin	0.022
82664	Phorate	0.011
61666	Phorate oxon	0.10
61601	Phosmet	0.008
61668	Phosmet oxon	0.06
04037	Prometon	0.01
04036	Prometryn	0.005
82676	Propyzamide	0.004
04035	Simazine	0.005
82670	Tebuthiuron	0.02
82675	Terbufos	0.02
61674	Terbufos-O-analogue sulfone	0.07
04022	Terbuthylazine	0.01
82661	Trifluralin	0.009

Analyses of pesticides in surface-water and ground-water samples (laboratory schedule 2060)

Surface-water and ground-water samples from both Brooklyn and Queens Aquifer Study, and South Fork Evaluation Study sites were analyzed for pesticides on laboratory schedule 2060 during the 2003 water year. This table lists the pesticides on the schedule, the National Water Information System parameter code, the unit of measure (micrograms per liter, µg/L), and the reporting level. **Only pesticides detected in at least one sample are listed in the organic water-quality tables.**

SCHEDULE DESCRIPTION.--Pesticides in filtered water extracted using a 0.5-gram graphitized carbon-based solid phase cartridge, eluted from the cartridge into two analytical fractions, and analyzed using high-performance liquid chromatography with photo-array detection.

SAMPLE REQUIREMENTS.--1 liter of water filtered through a 0.7 micron glass-fiber depth filter, and chilled at 4°C (packed in ice).

CONTAINER REQUIREMENTS.--1 liter baked amber glass bottle (GCC).

PCODE.--The National Water Information System parameter code.

COMPOUND NAME.--Pesticide or metabolite name.

OTHER NAME.--Common or trade name(s) for constituent

MRL.--Minimum reporting level.

PCode	Compound name (other names)	MRL (µg/L)
49315	Acifluorfen (Blazer, Tackle 2S)	0.007
49312	Aldicarb (Temik, Ambush)	0.04
49313	Aldicarb sulfone (Standak, Aldoxycad)	0.02
49314	Aldicarb sulfoxide	0.008
39632	Atrazine	0.007
50299	Bendiocarb	0.03
50300	Benomyl	0.004
61693	Bensulfuron-methyl	0.02
38711	Bentazon (Basagran, Bentazone)	0.01
04029	Bromacil (Bromax, Urox B)	0.03
49311	Bromoxynil (Torch, Buctril)	0.02
50305	Caffeine	0.010
49310	Carbaryl (Sevin, Denapan)	0.03

PCode	Compound name (other names)	MRL (µg/L)
49309	Carbofuran (Furandan, Curaterr)	0.006
61188	Chloramben, methyl ester	0.02
50306	Chlorimuron-ethyl	0.010
49306	Chlorothalonil (Bravo, Daconil 2787)	0.04
49305	Clopyralid (Stringer)	0.01
04031	Cycloate	0.01
49304	Dacthal monoacid	0.01
04040	Deethylatrazine	0.006
04039	Deethyldeisopropylatrazine	0.01
04038	Deisopropylatrazine	0.04
38442	Dicamba (Banval, Dianat)	0.01
39732	2,4-Dichlorophenoxyacetic acid (2,4-D, AquaKleen)	0.02
50470	2,4-D methyl ester	0.009
38746	2,4-Dichlorophenoxybutyric acid (2,4-DB, Butyrac)	0.02
49302	Dichlorprop (2,4-DP, Seritux 50)	0.01
49301	Dinoseb (DNPB, Dinosebe)	0.01
04033	Diphenamid	0.03
49300	Diuron (DCMU, Crisuron)	0.01
49297	Fenuron (Beet-Klean, Fenulon)	0.03
61694	Flumetsulam	0.01
38811	Fluometuron (Flo-Met, Cotoron)	0.03
50355	2-Hydroxyatrazine	0.008
49308	3-Hydroxycarbofuran	0.006
50356	Imazaquin	0.02
50407	Imazethapyr	0.02
61695	Imidacloprid	0.007
50295	3-Ketocarbofuran	2
38478	Linuron (Linurex, Lorex)	0.01
50359	Metalaxyl	0.02
38501	Methiocarb (Mesurol, Slug-Geta)	0.008
49296	Methomyl (Lannate, Lanox)	0.004
38482	4-(4-Chloro-2-methylphenoxy) acetic acid (MCPA)	0.02
38487	4-(4-Chloro-2-methylphenoxy) butyric acid (MCPB, Tropotox)	0.01
61697	Metsulfuron methyl	0.03
61692	*N*-(4-Chlorophenyl)- *N′*-methylurea	0.02
49294	Neburon (Neburea, Neburyl)	0.01
50364	Nicosulfuron	0.01
49293	Norflurazon (Euitol, Predict)	0.02
49292	Oryzalin (Surflan, Dirimal)	0.02
38866	Oxyamyl (Vydate, Pratt)	0.01
49291	Picloram (Grazon, Tordon)	0.02
49236	Propham (Tuberite)	0.010
50471	Propiconazole	0.02
38538	Propoxur (Baygon, Blattanex)	0.008
38548	Siduron	0.02
50337	Sulfometuron-methyl	0.009
82670	Tebuthiuron	0.006
04032	Terbacil	0.010
49235	Triclopyr (Garlon, Grandstand)	0.02

Analyses of volatile organic compounds in surface-water and ground-water samples (laboratory schedule 2020)

Surface-water and ground-water samples from Brooklyn and Queens Aquifer Study sites were analyzed for volatile organic compounds (VOC's) in 2003. The National Water Quality Laboratory (NWQL) created a method for accurate determination of VOC's in water in the nanogram per liter range (laboratory schedules 2020). The method described in USGS Open-File Report 97-829, Connor and others, (1997) is similar to USEPA method 524-2 (Mund, 1995), and the method described by Rose and Schroeder (1995). This table lists the volitile organic compounds on the schedule, the National Water Information System parameter code, the unit of measure (micrograms per liter, µg/L), and the reporting level. **Only VOC's detected by the laboratory in at least one sample are listed in the organic water-quality tables.**

SCHEDULE DESCRIPTION.--The sample water is actively purged with helium to extract the volatile organic compounds. The volatile compounds are trapped onto a sorbent trap, thermally desorbed, separated by a megabore gas chromatographic capillary column, and finally determined by a full scan quadropole mass spectrometer. Compound identification is confirmed by the gas chromatographic retention time and by the resultant mass spectrum, typically identified by three unique ions.

SAMPLE REQUIREMENTS.--Water collected in three 40 milliliter vials. Hydrochloric acid is added for preservation. Chilled at 4°C (packed in ice).

CONTAINER REQUIREMENTS.--40 milliliter baked amber septum glass vial.

PCODE.--The National Water Information System parameter code.

COMPOUND NAME.--Chemical name.

OTHER NAME.--Common or trade name(s).

NDV.--Non-detection value.

PCode	Compound name	Other name(s)	NDV (µg/L)
77353	(1,1-Dimethylethyl)benzene	*tert*-butylbenzene	0.10
77223	(1-Methylethyl)benzene	Isopropylbenzene	0.06
77350	(1-Methylpropyl)benzene	*sec*-butylbenzene	0.06
34396	Hexachloroethane		0.2
77562	1,1,1,2-Tetrachloroethane		0.03
34506	1,1,1-Trichloroethane	TCA	0.03
34516	1,1,2,2-Tetrachloroethane		0.09
77652	1,1,2-Trichloro-1,2,2-trifluoroethane	Freon-113	0.06
34511	1,1,2-Trichloroethane		0.06
34496	1,1-Dichloroethane		0.04
34501	1,1-Dichloroethene		0.04
77168	1,1-Dichloropropene		0.05
49999	1,2,3,4-Tetramethylbenzene	Prehnitene	0.2
50000	1,2,3,5-Tetramethylbenzene	Isodurene	0.2
77613	1,2,3-Trichlorobenzene		0.3
77443	1,2,3-Trichloropropane		0.16
77221	1,2,3-Trimethylbenzene		0.1
34551	1,2,4-Trichlorobenzene		0.1
77222	1,2,4-Trimethylbenzene		0.06
82625	1,2-Dibromo-3-chloropropane	DBCP	0.5
77651	1,2-Dibromoethane		0.04

PCode	Compound name	Other name(s)	NDV (µg/L)
34536	1,2-Dichlorobenzene		0.03
32103	1,2-Dichloroethane		0.1
34541	1,2-Dichloropropane		0.03
77135	1,2-Dimethylbenzene	*o*-xylene	0.07
85795	1,3- & 1,4-Dimethylbenzene	*m & p*-xylene	0.06
77226	1,3,5-Trimethylbenzene		0.04
34566	1,3-Dichlorobenzene		0.03
77173	1,3-Dichloropropane		0.1
34571	1,4-Dichlorobenzene		0.05
77275	1-Chloro-2-methylbenzene	2-chlorotoluene	0.04
77277	1-Chloro-4-methylbenzene	4-chlorotoluene	0.05
77356	1-Isopropyl-4-methylbenzene	*p*-Isopropyltoluene	0.12
77170	2,2-Dichloropropane		0.05
81595	2-Butanone	Methyl ethyl ketone, MEK	5.0
77220	2-Ethyltoluene		0.06
77103	2-Hexanone		0.7
34215	2-Propenenitrile	Acrylonitrile	1
78109	3-Chloro-1-propene		0.12
78133	4-Methyl-2-pentanone	Methyl isobutyl ketone	0.4
81552	Acetone		7
34030	Benzene		0.04
81555	Bromobenzene		0.04
77297	Bromochloromethane		0.12
32101	Bromodichloromethane		0.05
50002	Bromoethene	Vinyl Bromide	0.1
34413	Bromomethane	Methyl bromide	0.3
77041	Carbon disulfide		0.07
34301	Chlorobenzene		0.03
34311	Chloroethane		0.1
39175	Chloroethene	Vinyl Chloride	0.1
34418	Chloromethane	Methyl chloride	0.2
77093	*cis*-1,2-Dichloroethene		0.04
34704	*cis*-1,3-Dichloropropene		0.09
32105	Dibromochloromethane		0.2
30217	Dibromomethane		0.05
34668	Dichlorodifluoromethane	Freon-12	0.18
34423	Dichloromethane	Methylene Chloride	0.2
81576	Diethyl ether		0.2
81577	Diisopropyl ether		0.10
77128	Ethenylbenzene	Styrene	0.04
73570	Ethyl methacrylate		0.2
50004	Ethyl *tert*-butyl ether	Ethyl-*t*-butyl ether, ETBE	0.05
34371	Ethylbenzene		0.03
39702	Hexachlorobutadiene		0.1
77424	Iodomethane	Methyl iodide	0.35
49991	Methyl acrylate		2.0
81593	Methyl acrylonitrile		0.6
81597	Methyl methacrylate		0.3
78032	Methyl *tert*-butyl ether	Methyl-*t*-butyl ether, MTBE	0.2
34010	Methylbenzene	Toluene	0.05
77342	*n*-Butylbenzene		0.2
77224	*n*-Propylbenzene		0.04
34696	Naphthalene		0.5
50005	*tert*-Amyl methyl ether	*t*-Amyl methyl ether, TAME	0.08
34475	Tetrachloroethene	PCE	0.03
32102	Tetrachloromethane	Carbon tetrachloride	0.06
81607	Tetrahydrofuran	THF	2
34546	*trans*-1,2-Dichloroethene		0.03
34699	*trans*-1,3-Dichloropropene		0.09
73547	*trans*-1,4-Dichloro-2-butene		0.7
32104	Tribromomethane	Bromoform	0.10
39180	Trichloroethene	Trichloroethylene,TCE	0.04
34488	Trichlorofluoromethane	Freon-11	0.09
32106	Trichloromethane	Chloroform	0.02

Analysis of organochlorine pesticides, gross polychlorinated biphenyls and polychlorinated napthalenes in surface-water and ground-water samples (laboratory schedule 1324)

Surface-water and ground-water samples from Brooklyn and Queens Aquifer Study sites were analyzed for pesticides, gross polychlorinated biphenyls (PCB) and napthalenes (PCN) on laboratory schedule 1324 during the 2002 water year. This table lists the pesticides, PCB's, and PCN's on the schedule, the National Water Information System parameter code, the unit of measure (micrograms per liter, µg/L), and the reporting level. **Only pesticides residues, gross PCB, or PCN measured at or above the minimum reporting level in at least one sample are listed in the organic water-quality tables.**

SCHEDULE DESCRIPTION.--Organochlorine pesticides with PCB's and PCN's, recoverable from whole water samples, analyzed by GC/ECD. A description of the methods for determination of organic substances in water can be found in USGS TWRI Book 5, Chapter A3 (Wershaw and other, 1987).

SAMPLE REQUIREMENTS.--800 milliliter of raw water, chilled at 4°C (packed in ice).

CONTAINER REQUIREMENTS.--1 liter baked amber glass bottle (GCC).

PCODE.--The National Water Information System parameter code.

COMPOUND NAME.--Chemical name.

MRL.--Minimum reporting level.

PCode	Compound name	MRL (µg/L)
39330	Aldrin	0.01
39350	Chlordane, technical mix	0.1
39380	Dieldrin	0.017
39390	Endrin	0.02
39410	Heptachlor	0.01
39420	Heptachlor epoxide	0.009
39340	Lindane	0.006
39755	Mirex	0.012
39516	Polychlorinated biphenyls (PCB's)	0.1
39400	Toxaphene	1
39388	alpha-Endosulfan	0.01
39360	*p,p´*-DDD	0.016
39365	*p,p´*-DDE	0.014
39370	*p,p´*-DDT	0.009
39480	*p,p´*-Methoxychlor	0.015

Analysis of semivolatile organic compounds in surface-water and ground-water samples (laboratory schedule 1383)

Surface-water and ground-water samples from Brooklyn and Queens Aquifer Study sites were analyzed for semivolatile organic compounds (SVOC) on laboratory schedule 1383 during the 2002 water year. The method is referred to as base/neutral and acid extractable compounds, with analysis by gas chromatography/mass spectrometry. The reference for schedule 1383 is USGS Open-File Report 93-125", Fishman, ed. (1993). Although it is not referenced in the report, the method is derived from EPA method 625. This table lists the SVOC on the schedule, the National Water Information System parameter code, the unit of measure (micrograms per liter, µg/L), and the reporting level. **Only SVOC measured at or above the minimum reporting level in at least one sample are listed in the organic water-quality tables.**

SCHEDULE DESCRIPTION.--Acid and base/neutral extractable organic compounds from whole water samples, analyzed using GCMS technology.

SAMPLE REQUIREMENTS.--1 liter of raw water, chilled at 4°C (packed in ice).

CONTAINER REQUIREMENTS.--1 liter baked amber glass bottle (GCC).

PCODE.--The National Water Information System parameter code.

COMPOUND NAME.--Chemical name.

MRL.--Minimum reporting level.

PCode	Compound name	MRL (µg/L)
34551	1,2,4-Trichlorobenzene	0.1
34536	1,2-Dichlorobenzene	0.3
82626	1,2-Diphenylhydrazine	1
34566	1,3-Dichlorobenzene	0.03
34571	1,4-Dichlorobenzene	0.05
34621	2,4,6-Trichlorophenol	3
34601	2,4-Dichlorophenol	2
34606	2,4-Dimethylphenol	2.0
34616	2,4-Dinitrophenol	3
34611	2,4-Dinitrotoluene	3
34626	2,6-Dinitrotoluene	2
34581	2-Chloronaphthalene	2
34586	2-Chlorophenol	2
34591	2-Nitrophenol	1
34631	3,3´-Dichlorobenzidine	0.9
34657	4,6-Dinitro-2-methylphenol	2
34636	4-Bromophenyl phenyl ether	2
34452	4-Chloro-3-methylphenol	3
34641	4-Chlorophenyl phenyl ether	2
34646	4-Nitrophenol	4
34205	Acenaphthene	2
34200	Acenaphthylene	2
34220	Anthracene	2
34526	Benzo[*a*]anthracene	2
39120	Benzidine	1000
34247	Benzo[*a*]pyrene	1
34230	Benzo[*b*]fluoranthene	2
34521	Benzo[*g,h,i*]perylene	2
34242	Benzo[*k*]fluoranthene	1
34292	*n*-Butyl benzyl phthalate	2
34320	Chrysene	3
39110	Di-*n*-butyl phthalate	2
34596	Di-*n*-octyl phthalate	2
34556	Dibenzo[*a,h*]anthracene	1
34336	Diethyl phthalate	2
34341	Dimethyl phthalate	1
34376	Fluoranthene	2
34381	Fluorene	2
39700	Hexachlorobenzene	2
39702	Hexachlorobutadiene	0.1
34396	Hexachloroethane	0.2
34403	Indeno[1,2,3-*cd*]pyrene	3
34408	Isophorone	2
34428	*N*-Nitrosodi-*n*-propylamine	2
34438	*N*-Nitrosodimethylamine	3
34433	*N*-Nitrosodiphenylamine	2
34696	Naphthalene	0.5
34447	Nitrobenzene	1
39032	Pentachlorophenol	2
34461	Phenanthrene	2
34694	Phenol	3.4
34469	Pyrene	2
34278	Bis(2-chloroethoxy) methane	3
34273	Bis(2-chloroethyl) ether	2
39100	Bis(2-ethylhexyl) phthalate	2
34283	Bis(2-chloroisopropyl) ether	2

Analysis of semivolatile organic compounds in surface-water and ground-water samples (laboratory schedule 1433)

Surface-water and ground-water samples from Wastewater Compounds in Suffolk County Study and the South Fork Evaluation Study sites were analyzed for waste water compounds on laboratory schedule 1433 during the 2003 water year. The method focuses on the determination of alkylphenolethoxylate surfactant compounds and their alkylphenol degradates that are persistent indicators of wastewater. Other method compounds are representative of food additives, fragrances, antioxidants, flame retardants, plasticizers, industrial solvents, disinfectants, fecal sterols, polycyclic aromatic hydrocarbons, and high-use domestic pesticides. The reference for schedule 1433 is USGS Open-File Report 01-4186, Zaugg and others (2002). This table lists the waste water compounds on the schedule, the National Water Information System parameter code, the unit of measure (micrograms per liter, µg/L), and the reporting level. **Only waste water compounds measured at or above the minimum reporting level in at least one sample are listed in the organic water-quality tables.**

SCHEDULE DESCRIPTION.--Solid phase extraction of waste water compounds in filtered water, analyzed using GCMS technology.

SAMPLE REQUIREMENTS.--1 liter of raw water, chilled at 4°C (packed in ice).

CONTAINER REQUIREMENTS.--1 liter of water filtered through a 0.7 micron glass-fiber depth filter, and chilled at 4°C (packed in ice) in a baked amber glass bottle (GCC).

PCODE.--The National Water Information System parameter code.

COMPOUND NAME.--Chemical name.

MRL.--Minimum reporting level.

PCode	Compound name	MRL (µg/L)
34572	1,4-Dichlorobenzene	0.5
62054	1-Methylnaphthalene	0.5
62055	2,6-Dimethylnaphthalene	0.5
62056	2-Methylnaphthalene	0.5
62057	3-beta-Coprostanol	2
62058	3-Methyl-1(*H*)-indole (Skatole)	1
62059	3-*tert*-Butyl-4-hydroxy anisole (BHA)	5
62060	4-Cumylphenol	1
62085	4-Nonylphenol	5
62061	4-*n*-Octylphenol	1
62062	4-*tert*-Octylphenol	1
62063	5-Methyl-1*H*-benzotriazole	2
62064	Acetophenone	0.5
62065	Acetyl hexamethyl tetrahydronaphthalene (AHTN)	0.5
34221	Anthracene	0.5
62066	Anthraquinone	0.5
34248	Benzo[*a*]pyrene	0.5
62067	Benzophenone	0.5
62068	beta-Sitosterol	2
62086	beta-Stigmastanol	2
62069	Bisphenol A	1
04029	Bromacil	0.5
50305	Caffeine	0.5
62070	Camphor	0.5
82680	Carbaryl	1
62071	Carbazole	0.5
38933	Chlorpyrifos	0.5
62072	Cholesterol	2
62005	Cotinine	1
62073	d-Limonene	0.5
39572	Diazinon	0.5
38775	Dichlorvos	1
34377	Fluoranthene	0.5
62075	Hexadydrohexamethylcyclopentabenzopyran (HHCB)	0.5
62076	Indole	0.5
62077	Isoborneol	0.5
34409	Isophorone	0.5
62078	Isopropylbenzene	0.5
62079	Isoquinoline	0.5
62080	Menthol	0.5
50359	Metalaxyl	0.5
62081	Methyl salicylate	0.5
39415	Metolachlor	0.5
62082	*N,N*-diethyl-meta-toluamide (DEET)	0.5
34443	Naphthalene	0.5
62083	Nonylphenol, Diethoxy- (total)	5
61705	Octylphenol, Diethoxy-	1
61706	Octylphenol, Ethoxy-	1
62084	*p*-Cresol	1
34459	Pentachlorophenol	2
34462	Phenanthrene	0.5
34466	Phenol	0.5
04037	Prometon	0.5
34470	Pyrene	0.5
34288	Tribromomethane	0.5
34476	Tetrachloroethylene	0.5
62093	Tri(2-butoxyethyl)phosphate	0.5
62087	Tri(2-chloroethyl)phosphate	0.5
62089	Tributyl phosphate	0.5
62090	Triclosan	1
62091	Triethyl citrate (ethyl citrate)	0.5
62092	Triphenyl phosphate	0.5
62088	Tris(dichlorisopropyl)phosphate	0.5

Analyses of mosquito insecticides and a synergist in surface-water samples (laboratory schedule GCM)

Selected surface-water and ground-water samples from the Mosquito Insecticides in Surface-water Study sites were analyzed for pesticides on laboratory schedule GCM during the 2003 water year. The method uses liquid-liquid extraction and gas chromatography/mass spectrometry. The method was developed and preformed at the USGS Organic Geochemistry Research Laboratory in Lawrence, Kansas. The reference for the method is U.S. Geological Survey Open-File Report 01-273, Zimmerman and others (2001). This table lists the compounds on the schedule, the National Water Information System parameter code, the unit of measure (micrograms per liter, µg/L), and the reporting level. **Only compounds detected in at least one sample are listed in the water-quality tables.**

SCHEDULE DESCRIPTION.--Four inesticides and a synergist in filtered water are isolated using liquid-liquid extraction. Gas chromatography/mass spectrometry are used to identify and quantify these compounds.

SAMPLE REQUIREMENTS.--1 liter of water filtered through 0.7-micron glass-fiber depth filter, processed by chilling at 4° C (packed in ice).

CONTAINER REQUIREMENTS.--1 liter baked amber glass bottle (GCC).

PCODE.--The National Water Information System parameter code.

COMPOUND NAME.--Pesticide name.

OTHER NAME.--Common or trade name(s) for constituent

MRL.--Minimum reporting level.

PCode	Compound name (other names)	MRL (µg/L)
61757	Methoprene, (Altosid)	0.005
62765	Piperonyl Butoxide	0.005
62768	Resmethrin, (Scourge)	0.005
62763	Phenothrin, (Anvil)	0.005
39523	Malathion	0.005

Analysis of inorganic substances: major ions and trace metals, cyanide and isotopes in surface-water and ground-water samples (laboratory schedules 2701, 2702, 1294, 1087, 101, and 1142)

Surface-water and ground-water samples from Brooklyn and Queens Aquifer Study, South Fork Evaluation Study, and Manhasset Neck Study sites were analyzed for inorganic substances on laboratory schedules 2701, 2702, 1294, 1087 and 101 during the 2003 water year. All of these schedules contain similar constituents. Specific methods of analysis for each constituent can be found in the reference cited in the table below. This table lists the National Water Information System parameter code, the bottle type, the constituent, the reporting level (MRL), the unit of measure (micrograms per liter, µg/L, or milligrams per liter, mg/L), and the USGS reference for the method of analysis of the constituent. **Only constituents measured at or above the minimum reporting level in at least one sample are listed in the inorganic water-quality table.**

SAMPLE REQUIREMENTS.--500 milliliters of water filtered through a 0.45 micron cellulose filter (FU, FCC), 250 milliliters of raw water acidified (RA), 250 milliliters of filtered water through a 0.45 micron cellulose filter then acidified (RU), 250 milliliters of raw water fixed with 2 milliliters of 50% hydrochloric acid (RAM), 250 milliliters of raw water fixed with 5 milliliters of sodium hydroxide, and 250 milliliters of raw water (MBAS), 125 milliliters raw water acidified with sulfuric acid (WCA), 125 milliliters acidified with 1 ml of 4.5N sulfuric acid (DOC), all chilled at 4°C (packed in ice).

CONTAINER REQUIREMENTS.--One 500-ml clear poly bottle (FU), one 125-ml brown poly bottle (FCC), two 250-ml acid rinsed clear poly bottle (RA, FA), three 250-ml clear poly bottles (RU, MBAS, RCN), 125-ml clear poly bottle (WCA), 250-ml glass bottle (RAM), and one 125-ml brown glass baked bottle (DOC) all from Ocala Quality Water Service Unit.

PCODE.--The National Water Information System parameter code.

PCode	Bottle type	Constituent	MRL	Report unit	Reference
00929	FA	Sodium	0.5	mg/L	OFR 98-165
38260	MBAS	MBAS	0.50	mg/L	OFR 95-189
01002	RA	Arsenic	2	ug/L	OFR 99-464
90410	RU	Acid Neutralizing Capacity (ANC), laboratory	2	mg/L	TWRI B5-A1/89
01092	RA	Zinc	2	ug/L	OFR 98-165
01034	RA	Chromium	0.8	ug/L	OFR 93-449
01007	RA	Barium	0.16	ug/L	OFR 98-165
01042	RA	Copper	0.6	ug/L	OFR 98-165
00945	RU	Sulfate	0.2	mg/L	TWRI B5-A1/89
01027	RA	Cadmium	0.04	ug/L	OFR 98-165
00950	FU	Fluoride	0.17	mg/L	TWRI B1-A1/89
01045	RA	Iron	6	ug/L	OFR 98-165
01055	RA	Manganese	0.8	ug/L	OFR 98-165
01051	RA	Lead	0.06	ug/L	OFR 98-165
01147	RA	Selenium	0.5	ug/L	OFR 98-165
71900	RAM	Mercury	0.02	ug/L	WRI 01-4132
00927	RA	Magnesium	0.008	mg/L	OFR 98-165
00720	RCN	Cyanide	0.01	mg/L	TWRI B5-A1/89
00916	RA	Calcium	0.010	mg/L	OFR 98-165
01077	RA	Silver	0.16	ug/L	OFR 98-165
00937	RA	Potassium	0.1	mg/L	TWRI B5-A1/89
00955	FU	Silica	0.04	mg/L	TWRI B5-A1/89
00940	FU	Chloride	0.20	mg/L	TWRI B5-A1/89
70300	FU	Residue, 180 degrees Celsius	10	mg/L	TWRI B5-A1/89
00915	FA	Calcium	0.010	mg/L	OFR 98-165
01046	FA	Iron	6.4	mg/L	OFR 98-165
00925	FA	Magnesium	0.008	mg/L	OFR 98-165
01056	FA	Manganese	0.8	mg/L	OFR 98-165
00935	FA	Potassium	0.16	mg/L	OFR 98-165
82082	RUS	Deuterium/Protium		per ml	WRI 01-4222
82085	RUS	Oxygen-18/Oxygen-16		per ml	WRI 01-4222
00625	FCC	Ammonia + organic nitrogen, as nitrogen	0.1	mg/L	OFR 93-125
00671	FCC	Orthophosphate, as phosphorous	0.02	mg/L	OFR 93-125
00631	FCC	Nitrite + Nitrate, as nitrogen	0.06	mg/L	OFR 93-125
00613	FCC	Nitrite, as nitrogen	0.008	mg/L	OFR 93-125
00608	FCC	Ammonia, as nitrogen	0.04	mg/L	OFR 93-125
00623	WCA	Ammonia + organic nitrogen, as nitrogen	0.1	mg/L	OFR 92-146
00665	WCA	Phosphorus	0.004	mg/L	EPA 365.1
00666	FCC	Phosphorus	0.004	mg/L	EPA 365.1
00681	DOC	Organic carbon (dissolved)	0.33	mg/L	OFR92-480

Data qualifiers

Values in the analysis of samples collected at water-quality miscellaneous sites are sometimes preceded by remark codes. Values for analytes in the tables are preceded by an "M" indicate the compound was detected but not quantified. The minimum reporting limit (MRL) is a statistically defined reporting limit designed to limit false positives and false negatives to less than 1 percent. Positive detections measured at less than MRL are reported as estimated concentrations (E) to alert the data user to decreased confidence in accurate quantitation. Values for analytes in the tables are preceded by an "E" in the following situations:

1. When the calculated concentration is less than the lowest calibration standard. The analyte meets all identification criteria to be positively identified, but the amount detected is below where it can be reliably quantified.

2. If a sample is diluted for any reason. The method reporting level is multiplied by the dilution factor to obtain the adjusted method reporting level. Values below the lowest calibration standard, multiplied by the dilution factor are qualified with an "E". For example, a value of 0.19 from a 1:2 dilution is reported as E0.4.

3. If the set spike has recoveries out of the specified range (60-140%).

4. If the analyte is also detected in the set blank. If the value in the sample is less than five times the blank value and greater than the blank value plus the long term method detection limit, the value is preceded by an "E" to indicate that the analyte is positively identified but not positively quantified because the analyte was also detected in the blank.

References

Brenton, R., W., and Arnett, T., L., 1993, Methods of Analysis by the U.S. Geological Survey National Water Quality Laboratory--Determination of Dissolved Organic Carbon by UV-Promoted Persulfate Oxidation and Infrared Spectroscopy: U.S. Geological Survey Open-File Report 92-480, 12 p.

Burkhardt, M., R., Cinotto, P., J., Frahm, G., W., Woodworth, M., T., and Pritt, J., W., 1995, Methods of Analysis by the U.S. Geological Survey National Water Quality Laboratory--Determination of Methylene Blue Active Substances by Spectrophotometry: U.S. Geological Survey Open-File Report 95-189, 16 p.

Connor, B., F., Rose, Donna L., Noriega, M., C., Murtagh, L., K., and Abney, S., R., 1998, Methods of Analysis by the U.S. Geological Survey National Water Quality Laboratory--Determination of 86 Volatile Organic Compounds in Water by Gas Chromatography/Mass spectrometry, Including Detections Less Than Reporting Limits: U.S. Geological Survey Open-File Report 97-829, 78 p.

Fishman, M.J., ed., 1993, Methods of Analysis by the U.S. Geological Survey National Water Quality Laboratory--Determination of Inorganic and Organic Constituents in Water and Fluvial Sediments: U.S. Geological Survey Open-File Report 93-125, 217 p.

Garbarino, J., R., and Struzeski, T., M., 1998, Methods of Analysis by the U.S. Geological Survey National Water Quality Laboratory--Determination of Elements in Whole-Water Digests Using Inductively Coupled Plasma-Optical Emission Spectrometry and Inductively Coupled Plasma-Mass Spectrometry: U.S. Geological Survey Open-File Report 98-165, 101 p.

Patton, C., J., and Truitt, E., P., 1992, Methods of Analysis by the U.S. Geological Survey National Water Quality Laboratory--Determination of Total Phosphorous by a Kjeldahl Digestion Method and an Automated Colorimetric Finish That Includes Dialysis: U.S. Geological Survey Open-File Report 92-146, 39 p.

Rose, D., L., and Schroeder, M., P., 1995, Methods of Analysis by the U.S. Geological Survey National Water Quality Laboratory--Determination of Volatile Organic Compounds in Water by Purge and Trap Capillary Gas Chromatography/Mass Spectrometry: U.S. Geological Survey Open-File Report 94-708, 26 p.

Wershaw, R.L., Fishman, M.J., Grabbe, R.R., and Lowe, L.E., eds., 1987, Methods for the determination of organic substances in water and fluvial sediments (2d ed.): U.S. Geological Survey Techniques of Water-Resources Investigations, book 5, chap. A3, 80 p.

Zaugg, S., D., Smith, S., G., Schroeder, M., P., Barber, L., B., and Burkhardt, M., R., 2002, Methods of Analysis by the U.S. Geological Survey National Water Quality Laboratory--Determination of Wastewater Compounds by Polystyrene-Divinylbenzene Solid-Phase Extraction and Capillary-Column Gas Chromatography/Mass Spectrometry: U.S. Geological Survey Open-File Report 01-4186, 37 p.

Zimmerman, L.R., Strahan, A.P., and Thurman, E.M., 2001, “Method of analysis and quality-assurance practices by the U.S. Geological Survey Organic Geochemistry Research Group--Determination of four selected mosquito insecticides and a synergist in water using liquid-liquid extraction and gas chromatography/mass spectrometry”: U.S. Geological Survey Open-File Report 01-273, 11 p

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES
Mosquito Insecticides in Surface Water, Suffolk County

MULTIPLE STATION ANALYSES

Local identifier	Lat-i-tude	Long-i-tude	Date	Time	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)
			SUFFOLK COUNTY					
PATTERSQUASH CREEK AT MASTIC BEACH, NY	40 45 49 N	072 51 06 W	06-25-03	1920	5.2	5.9	230	14.8
	40 45 49 N	*072 51 06 W*	*06-25-03*	*1921*	*5.2*	*5.9*	*230*	*14.8*
	40 45 49 N	072 51 06 W	06-25-03	2205	5.6	6.1	233	14.5
	40 45 49 N	*072 51 06 W*	*06-25-03*	*2206*	*5.6*	*6.1*	*233*	*14.5*
BEAVERDAM CREEK AT FIREPLACE NECK, NY	40 45 51 N	072 55 07 W	06-03-03	1230	12.2	6.4	19,600	19.9
	40 45 51 N	072 55 07 W	06-03-03	1250	12.2	6.4	19,600	19.9
CONNETQUOT RIVER AT MOUTH AT GREAT RIVER, NY	40 43 18 N	073 08 23 W	06-10-03	0850	6.4	6.8	26,200	17.9
	40 43 18 N	073 08 23 W	06-24-03	0730	8.7	7.8	30,100	21.6
	40 43 18 N	073 08 23 W	06-24-03	0750	8.7	7.8	30,100	21.6
SHIRLEY BASIN AT SHIRLEY, NY	40 44 38 N	072 52 28 W	06-10-03	1630	12.9	8.1	31,300	22.5
CARMANS RIVER AT BROOKHAVEN, NY	40 46 18 N	072 53 37 W	06-17-03	1336	8.8	6.9	10,700	23.5
	40 46 18 N	072 53 37 W	06-17-03	1515	9.3	6.9	10,900	24.9
	40 46 18 N	072 53 37 W	06-17-03	1600	8.9	7.0	10,300	23.6
	40 46 18 N	072 53 37 W	06-17-03	1718	8.0	6.7	9,830	23.6
	40 46 18 N	072 53 37 W	07-29-03	1840	--	--	--	--
HEDGES CREEK AT MOUTH AT BELLPORT, NY	40 44 40 N	072 57 59 W	07-15-03	1825	6.9	6.8	12,700	29.7
	40 44 40 N	072 57 59 W	07-16-03	0600	5.8	6.7	17,700	22.5
DUNTON LAKE AT BELLPORT, NY	40 45 07 N	072 57 55 W	07-15-03	1915	11.4	6.7	216	24.3
	40 45 07 N	072 57 55 W	07-15-03	2300	--	--	--	--
BEAVERDAM CREEK NEAR FIREPLACE NECK, NY	40 45 56 N	072 55 06 W	08-20-03	2315	14.4	7.9	1,120	24.8
NEW MILL POND NEAR HAUPPAUGE	40 49 51 N	073 13 23 W	08-26-03	2020	--	--	--	--
VAIL POND AT SMITHTOWN, NY	40 50 54 N	073 13 38 W	08-26-03	2030	--	--	--	--
NISSEQUOGUE RIVER NEAR SMITHTOWN, NY	40 50 58 N	073 13 29 W	08-26-03	1816	8.7	7.0	193	20.9
	40 50 58 N	073 13 29 W	08-26-03	2030	--	--	--	--
NEW MILL POND NEAR SMITHTOWN, NY	40 50 30 N	073 13 43 W	08-26-03	2025	--	--	--	--
GOOSE CREEK AT MOUTH AT BAYVIEW, NY	41 03 05 N	072 24 50 W	08-27-03	1610	9.3	7.8	43,800	25.7
	41 03 05 N	072 24 50 W	08-27-03	2025	--	--	--	--
CEDAR BEACH CREEK AT BAYVIEW, NY	41 02 13 N	072 23 41 W	08-27-03	1850	6.5	6.7	42,300	27.5

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Metho-prene, water, fltrd, ug/L (61757)	Piper-onyl but-oxide, wat flt gf 0.7u ug/L (62765)	Res-methrin water fltrd 0.7u GF ug/L (62768)
SUFFOLK COUNTY				
PATTERSQUASH CREEK AT MASTIC BEACH, NY	06-25-03	<0.005	0.008	<0.005
	06-25-03	*<0.005*	*0.007*	*<0.005*
	06-25-03	<0.005	0.017	<0.005
	06-25-03	*<0.005*	*0.011*	*<0.005*
BEAVERDAM CREEK AT FIREPLACE NECK, NY	06-03-03	<0.005	<0.005	<0.005
	06-03-03	<0.005	<0.005	<0.005
CONNETQUOT RIVER AT MOUTH AT GREAT RIVER, NY	06-10-03	<0.005	<0.005	<0.005
	06-24-03	<0.005	<0.005	<0.005
	06-24-03	<0.005	<0.005	<0.005
SHIRLEY BASIN AT SHIRLEY, NY	06-10-03	<0.005	<0.005	<0.005
CARMANS RIVER AT BROOKHAVEN, NY	06-17-03	<0.005	<0.005	<0.005
	06-17-03	9.026	<0.005	<0.005
	06-17-03	0.039	<0.005	<0.005
	06-17-03	0.846	<0.005	<0.005
	07-29-03	<0.005	<0.005	<0.005
HEDGES CREEK AT MOUTH AT BELLPORT, NY	07-15-03	<0.005	<0.005	<0.005
	07-16-03	<0.005	<0.005	<0.005
DUNTON LAKE AT BELLPORT, NY	07-15-03	<0.005	<0.005	<0.005
	07-15-03	<0.005	<0.005	<0.005
BEAVERDAM CREEK NEAR FIREPLACE NECK, NY	08-20-03	<0.005	0.506	<0.005
NEW MILL POND NEAR HAUPPAU	08-26-03	<0.005	0.020	<0.005
VAIL POND AT SMITHTOWN, NY	08-26-03	<0.005	0.774	<0.005
NISSEQUOGUE RIVER NEAR SMITHTOWN, NY	08-26-03	<0.005	<0.005	<0.005
	08-26-03	<0.005	0.153	0.006
NEW MILL POND NEAR SMITHTOWN, NY	08-26-03	<0.005	0.691	<0.005
GOOSE CREEK AT MOUTH AT BAYVIEW, NY	08-27-03	<0.005	<0.005	<0.005
	08-27-03	<0.005	<0.005	<0.005
CEDAR BEACH CREEK AT BAYVIEW, NY	08-27-03	<0.005	0.040	<0.005

Remark codes used in this table:
< -- Less than

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES
South Fork Hydrologic Evaluation Study, Pond Sites

MULTIPLE STATION ANALYSES

Local identifier	Lat-i-tude	Long-i-tude	Date	Time	Sam-pling depth, feet (00003)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)
			SUFFOLK COUNTY						
BIG FRESH POND NEAR NORTH SEA, NY	40 55 19 N	072 25 18 W	09-18-03	0815	0.00	8.5	6.2	130	22.4
	40 55 19 N	072 25 18 W	09-18-03	0816	1.00	8.4	6.2	130	22.4
	40 55 19 N	072 25 18 W	09-18-03	0817	2.00	8.4	6.3	130	22.4
	40 55 19 N	072 25 18 W	09-18-03	0818	3.00	8.4	6.3	130	22.4
	40 55 19 N	072 25 18 W	09-18-03	0819	4.00	8.4	6.3	130	22.4
	40 55 19 N	072 25 18 W	09-18-03	0820	5.00	8.4	6.4	130	22.4
	40 55 19 N	072 25 18 W	09-18-03	0821	6.00	8.3	6.4	130	22.4
	40 55 19 N	072 25 18 W	09-18-03	0822	7.00	8.3	6.4	130	22.4
	40 55 19 N	072 25 18 W	09-18-03	0823	8.00	8.3	6.4	130	22.4
	40 55 19 N	072 25 18 W	09-18-03	0824	9.00	8.2	6.4	130	22.4
	40 55 19 N	072 25 18 W	09-18-03	0825	10.0	8.2	6.4	130	22.4
	40 55 19 N	072 25 18 W	09-18-03	0826	11.0	8.2	6.4	130	22.4
	40 55 19 N	072 25 18 W	09-18-03	0827	12.0	8.2	6.3	130	22.3
	40 55 19 N	072 25 18 W	09-18-03	0828	13.0	8.2	6.4	130	22.3
	40 55 19 N	072 25 18 W	09-18-03	0829	14.0	5.8	6.1	130	21.3
	40 55 19 N	072 25 18 W	09-18-03	0830	15.0	3.6	6.0	130	20.3
	40 55 19 N	072 25 18 W	09-18-03	0831	16.0	2.6	5.9	130	19.8
	40 55 19 N	072 25 18 W	09-18-03	0832	17.0	0.8	6.1	149	17.3
	40 55 19 N	072 25 18 W	09-18-03	0833	18.0	0.3	6.2	156	15.8
	40 55 19 N	072 25 18 W	09-18-03	0834	18.5	0.3	6.3	160	15.1
FORT POND AT MONTAUK, NY	41 02 11 N	071 56 49 W	09-15-03	1000	0.00	9.4	7.7	289	22.6
	41 02 11 N	071 56 49 W	09-15-03	1001	1.00	9.6	7.8	288	22.6
	41 02 11 N	071 56 49 W	09-15-03	1002	2.00	9.6	7.8	288	22.6
	41 02 11 N	071 56 49 W	09-15-03	1003	3.00	9.6	7.8	288	22.6
	41 02 11 N	071 56 49 W	09-15-03	1004	4.00	9.5	7.8	288	22.6
	41 02 11 N	071 56 49 W	09-15-03	1005	5.00	9.5	7.8	288	22.6
	41 02 11 N	071 56 49 W	09-15-03	1006	6.00	9.5	7.9	288	22.5
	41 02 11 N	071 56 49 W	09-15-03	1007	7.00	9.5	7.9	288	22.5
	41 02 11 N	071 56 49 W	09-15-03	1008	8.00	9.5	7.8	288	22.4
	41 02 11 N	071 56 49 W	09-15-03	1009	9.00	9.4	7.8	288	22.3
	41 02 11 N	071 56 49 W	09-15-03	1010	10.0	9.4	7.8	288	22.0
	41 02 11 N	071 56 49 W	09-15-03	1011	11.0	9.4	7.8	288	21.8
	41 02 11 N	071 56 49 W	09-15-03	1012	12.0	9.2	7.7	288	21.7
	41 02 11 N	071 56 49 W	09-15-03	1013	13.0	9.1	7.7	288	21.7
	41 02 11 N	071 56 49 W	09-15-03	1014	14.0	8.9	7.6	288	21.6
	41 02 11 N	071 56 49 W	09-15-03	1015	15.0	8.8	7.5	288	21.6
	41 02 11 N	071 56 49 W	09-15-03	1016	16.0	8.7	7.5	288	21.5
	41 02 11 N	071 56 49 W	09-15-03	1017	17.0	8.5	7.4	288	21.4
	41 02 11 N	071 56 49 W	09-15-03	1018	18.0	8.4	7.4	288	21.4
	41 02 11 N	071 56 49 W	09-15-03	1019	19.0	8.2	7.3	288	21.4
	41 02 11 N	071 56 49 W	09-15-03	1020	20.0	8.1	7.3	288	21.4
	41 02 11 N	071 56 49 W	09-15-03	1021	21.0	8.0	7.2	288	21.3
	41 02 11 N	071 56 49 W	09-15-03	1022	22.0	7.8	7.2	289	21.3
	41 02 11 N	071 56 49 W	09-15-03	1023	23.0	7.6	7.2	289	21.2
	41 02 11 N	071 56 49 W	09-15-03	1024	24.0	7.2	7.1	289	21.1
	41 02 11 N	071 56 49 W	09-15-03	1025	25.0	5.3	7.0	292	20.9
	41 02 11 N	071 56 49 W	09-15-03	1026	25.5	3.6	6.8	293	20.7
TROUT POND AT NOYACK, NY	40 59 34 N	072 21 00 W	09-18-03	1015	0.00	10.4	6.3	78	18.9
	40 59 34 N	072 21 00 W	09-18-03	1016	1.00	10.4	6.2	78	18.8
	40 59 34 N	072 21 00 W	09-18-03	1017	2.00	10.4	6.2	78	18.9
	40 59 34 N	072 21 00 W	09-18-03	1018	3.00	10.8	6.2	78	18.3
	40 59 34 N	072 21 00 W	09-18-03	1019	4.00	11.5	6.2	75	17.1
	40 59 34 N	072 21 00 W	09-18-03	1020	5.00	10.4	6.0	75	16.3
	40 59 34 N	072 21 00 W	09-18-03	1021	6.00	8.7	5.8	76	16.0
	40 59 34 N	072 21 00 W	09-18-03	1022	7.00	5.7	5.7	78	15.8
	40 59 34 N	072 21 00 W	09-18-03	1023	7.50	3.3	5.7	80	15.6
HOOK POND AT EAST HAMPTON, NY	40 57 18 N	072 10 42 W	09-16-03	1100	0.00	11.0	8.5	250	23.3
	40 57 18 N	072 10 42 W	09-16-03	1101	1.00	10.9	8.6	250	23.3
	40 57 18 N	072 10 42 W	09-16-03	1102	2.00	10.9	8.6	250	23.3
	40 57 18 N	072 10 42 W	09-16-03	1103	3.00	10.8	8.6	250	23.3
	40 57 18 N	072 10 42 W	09-16-03	1104	4.00	2.3	6.7	250	22.8
LONG POND NEAR SAG HARBOR, NY	40 58 20 N	072 17 39 W	07-29-03	0851	0.00	7.7	6.3	94	25.4
	40 58 20 N	072 17 39 W	07-29-03	0852	1.00	7.7	6.6	94	25.3
	40 58 20 N	072 17 39 W	07-29-03	0853	2.00	7.8	6.7	94	25.1
	40 58 20 N	072 17 39 W	07-29-03	0854	3.00	5.5	6.5	97	24.3
	40 58 20 N	072 17 39 W	07-29-03	0855	4.00	1.3	6.2	121	22.5
	40 58 20 N	072 17 39 W	07-29-03	0856	5.00	0.4	6.5	202	20.7
	40 58 20 N	072 17 39 W	07-29-03	0857	6.00	0.3	6.8	340	19.2
	40 58 20 N	072 17 39 W	07-29-03	0858	7.00	0.2	7.0	392	18.5
	40 58 20 N	072 17 39 W	07-29-03	0900	7.50	0.2	6.9	406	18.7

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Lat-i-tude	Long-i-tude	Date	Time	Sam-pling depth, feet (00003)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)
SUFFOLK COUNTY									
MILL POND AT WATER MILL, NY	40 54 35 N	072 21 47 W	07-28-03	1032	0.00	12.6	9.8	205	26.1
	40 54 35 N	072 21 47 W	07-28-03	1035	1.00	12.4	9.8	205	25.8
	40 54 35 N	072 21 47 W	07-28-03	1036	2.00	10.7	9.6	198	25.1
	40 54 35 N	072 21 47 W	07-28-03	1037	3.00	10.2	9.5	197	25.0
	40 54 35 N	072 21 47 W	07-28-03	1038	4.00	8.8	9.3	195	24.9
	40 54 35 N	072 21 47 W	07-28-03	1039	5.00	8.8	9.3	194	24.7
	40 54 35 N	072 21 47 W	07-28-03	1040	6.00	7.9	9.0	193	24.6
	40 54 35 N	072 21 47 W	07-28-03	1041	7.00	6.4	8.4	194	24.6
	40 54 35 N	072 21 47 W	07-28-03	1042	8.00	3.1	7.2	199	24.5

MULTIPLE STATION ANALYSES

Local identifier	Lat-i-tude	Long-i-tude	Date	Time	Depth of well, feet below LSD (72008)	Alti-tude of land surface feet (72000)	Drain-age area, mi2 (81024)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)
SUFFOLK COUNTY										
BIG FRESH POND NEAR NORTH SEA, NY	40 55 19 N	072 25 18 W	07-11-03	0900	--	10	0.86	8.4	6.4	--
	40 55 19 N	072 25 18 W	07-23-03	2000	--	10	0.86	9.2	7.4	--
	40 55 19 N	072 25 18 W	09-18-03	0835	--	10	0.86	8.4	6.3	7.7
FORT POND AT MONTAUK, NY	41 02 11 N	071 56 49 W	07-19-03	1900	--	10	1.00	--	--	--
	41 02 11 N	071 56 49 W	09-15-03	1000	--	10	1.00	9.4	7.7	--
	41 02 11 N	071 56 49 W	09-15-03	1030	--	10	1.00	9.6	7.8	8.1
TROUT POND AT NOYACK, NY	40 59 34 N	072 21 00 W	07-19-03	1600	--	18	1.07	--	--	--
	40 59 34 N	072 21 00 W	09-18-03	1025	--	18	1.07	10.4	6.2	7.7
HOOK POND AT EAST HAMPTON, NY	40 57 18 N	072 10 42 W	07-19-03	1800	--	5	4.06	--	--	--
	40 57 18 N	072 10 42 W	09-16-03	1110	--	5	4.06	10.9	8.6	9.1
LONG POND NEAR SAG HARBOR, NY	40 58 20 N	072 17 39 W	07-19-03	1700	--	20	2.31	--	--	--
	40 58 20 N	072 17 39 W	07-29-03	0910	--	20	2.31	1.3	6.2	6.5
MILL POND AT WATER MILL, NY	40 54 35 N	072 21 47 W	07-11-03	0820	--	10	4.02	7.6	6.1	--
	40 54 35 N	072 21 47 W	07-23-03	1905	--	10	4.02	10.8	7.0	--
	40 54 35 N	072 21 47 W	07-28-03	1100	--	10	4.02	8.8	9.3	9.6
S115135. 1	40 57 20 N	072 10 30 W	08-28-03	1050	60.5	--	--	6.4	5.6	7.3
	40 57 20 N	072 10 30 W	09-08-03	0845	60.5	--	--	5.8	5.5	--
S 48430. 1	40 55 01 N	072 21 55 W	09-08-03	0945	43.	28.1	--	--	5.3	E6.2
S 8843. 2	40 59 06 N	072 11 01 W	09-25-03	0945	35.0	--	--	--	5.4	--
S 15048. 1	41 00 35 N	072 09 48 W	09-25-03	1040	46.	20.0	--	--	5.7	--
S 98635. 1	40 59 22 N	072 10 16 W	09-25-03	1130	--	--	--	4.5	6.3	--

MULTIPLE STATION ANALYSES

Local identifier	Date	Specif. conduc-tance, wat unf lab, uS/cm 25 degC (90095)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)
SUFFOLK COUNTY											
BIG FRESH POND NEAR NORTH SEA, NY	07-11-03	--	124	24.1	--	--	--	--	--	--	--
	07-23-03	--	127	22.3	--	--	--	--	--	--	--
	09-18-03	127	130	22.4	4.50	2.39	1.09	15.9	23.4	<0.2	4.36
FORT POND AT MONTAUK, NY	07-19-03	--	--	--	--	--	--	--	--	--	--
	09-15-03	--	289	22.6	--	--	--	--	--	--	--
	09-15-03	281	288	22.6	6.03	4.08	2.21	39.6	65.6	<0.2	0.32
TROUT POND AT NOYACK, NY	07-19-03	--	--	--	--	--	--	--	--	--	--
	09-18-03	77	78	18.9	3.42	2.08	0.49	8.16	10.8	<0.2	9.99
HOOK POND AT EAST HAMPTON, NY	07-19-03	--	--	--	--	--	--	--	--	--	--
	09-16-03	237	250	23.3	13.6	4.57	2.93	25.2	39.7	<0.2	3.37
LONG POND NEAR SAG HARBOR, NY	07-19-03	--	--	--	--	--	--	--	--	--	--
	07-29-03	94	121	22.5	7.46	2.80	1.11	9.51	13.6	<0.2	11.0
MILL POND AT WATER MILL, NY	07-11-03	--	191	23.6	--	--	--	--	--	--	--
	07-23-03	--	201	20.8	--	--	--	--	--	--	--
	07-28-03	184	195	24.9	16.2	5.01	2.35	10.2	19.9	<0.2	7.00
S115135. 1	08-28-03	212	224	12.9	15.3	3.15	3.11	15.1	26.2	<0.2	10.3
	09-08-03	--	222	13.5	--	--	--	--	--	--	--
S 48430. 1	09-08-03	83	85	11.1	1.99	2.58	1.22	7.98	12.4	<0.2	10.6
S 8843. 2	09-25-03	--	388	13.1	--	--	--	--	--	--	--
S 15048. 1	09-25-03	--	676	12.2	--	--	--	--	--	--	--
S 98635. 1	09-25-03	--	1,500	16.8	--	--	--	--	--	--	--

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)
SUFFOLK COUNTY											
BIG FRESH POND	07-11-03	--	--	--	--	--	--	--	--	--	--
NEAR NORTH SEA,	07-23-03	--	--	0.40	0.38	E.03	<0.06	<0.008	<0.02	0.008	0.016
NY	09-18-03	8.1	80	0.22	0.34	<0.04	<0.06	<0.008	<0.02	0.006	<0.04
FORT POND AT	07-19-03	--	--	0.52	0.85	<0.04	<0.06	<0.008	<0.02	0.009	0.027
MONTAUK, NY	09-15-03	--	--	--	--	--	--	--	--	--	--
	09-15-03	10.8	164	0.55	0.71	<0.04	<0.06	<0.008	<0.18	0.008	0.018
TROUT POND AT	07-19-03	--	--	0.12	0.21	E.02	<0.06	<0.008	<0.02	E.004	0.011
NOYACK, NY	09-18-03	6.7	60	E.10	0.14	<0.04	E.04	<0.008	<0.02	E.002	<0.04
HOOK POND AT EAST	07-19-03	--	--	0.70	1.4	0.24	1.98	0.037	E.01	0.028	0.097
HAMPTON, NY	09-16-03	19.0	145	0.49	1.8	<0.04	0.07	E.006	<0.18	0.010	0.13
LONG POND NEAR	07-19-03	--	--	0.26	0.39	<0.04	<0.06	<0.008	<0.02	0.011	0.023
SAG HARBOR, NY	07-29-03	5.3	86	0.38	0.57	<0.04	<0.30	<0.008	<0.09	0.016	0.032
MILL POND AT	07-11-03	--	--	--	--	--	--	--	--	--	--
WATER MILL, NY	07-23-03	--	--	0.95	1.7	0.16	0.79	E.006	0.04	0.086	0.080
	07-28-03	28.3	121	0.79	0.69	<0.04	<0.06	E.005	E.02	0.043	<0.004
S115135. 1	08-28-03	20.4	133	<0.10	E.09	<0.04	5.85	<0.008	<0.02	<0.004	<0.004
	09-08-03	--	--	--	--	--	--	--	--	--	--
S 48430. 1	09-08-03	5.5	47	E.09	E.09	<0.04	1.10	<0.008	<0.18	<0.004	<0.004
S 8843. 2	09-25-03	--	--	--	--	--	--	--	--	--	--
S 15048. 1	09-25-03	--	--	--	--	--	--	--	--	--	--
S 98635. 1	09-25-03	--	--	--	--	--	--	--	--	--	--

MULTIPLE STATION ANALYSES

Local identifier	Date	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	1,4-Di-chloro-benzene water, fltrd, ug/L (34572)	3-Methyl-1H-indole, water, fltrd, ug/L (62058)	4,4-Di' chloro-benzo-phen-one, wat flt ug/L (61631)	Aceto-phenone water, fltrd, ug/L (62064)	Benzo-phenone water, fltrd, ug/L (62067)	beta-Sitos-terol, water, fltrd, ug/L (62068)	beta-Stigma-stanol, water, fltrd, ug/L (62086)	Bisphe-nol A, water, fltrd, ug/L (62069)
SUFFOLK COUNTY											
BIG FRESH POND	07-11-03	--	--	<0.5	<1	--	<0.5	<0.5	<2	<2	M
NEAR NORTH SEA,	07-23-03	--	--	--	--	--	--	--	--	--	--
NY	09-18-03	8	0.7	--	--	<0.003	--	--	--	--	--
FORT POND AT	07-19-03	--	--	<0.5	<1	--	0.9	E.1	E3	E3	M
MONTAUK, NY	09-15-03	--	--	--	--	--	--	--	--	--	--
	09-15-03	45	0.4	--	--	<0.003	--	--	--	--	--
TROUT POND AT	07-19-03	--	--	<0.5	M	--	E.3	E.1	<2	<2	M
NOYACK, NY	09-18-03	79	3.4	--	--	<0.003	--	--	--	--	--
HOOK POND AT EAST	07-19-03	--	--	<0.5	<1	--	E.2	E.1	<2	<2	M
HAMPTON, NY	09-16-03	101	1.0	--	--	E.003	--	--	--	--	--
LONG POND NEAR	07-19-03	--	--	<0.5	M	--	2.9	E.1	E3	E3	M
SAG HARBOR, NY	07-29-03	6,310	379	--	--	<0.003	--	--	--	--	--
MILL POND AT	07-11-03	--	--	<0.5	M	--	<0.5	<0.5	<2	M	<1
WATER MILL, NY	07-23-03	--	--	--	--	--	--	--	--	--	--
	07-28-03	55	4.8	--	--	E.004	--	--	--	--	--
S115135. 1	08-28-03	<8	1.7	--	--	<0.003	--	--	--	--	--
	09-08-03	--	--	E.1	<1	--	<0.5	<0.5	<2	<2	<1
S 48430. 1	09-08-03	174	16.7	<0.5	<1	--	<0.5	M	<2	<2	<1
S 8843. 2	09-25-03	--	--	<0.5	<1	--	<0.5	<0.5	<2	<2	<1
S 15048. 1	09-25-03	--	--	<0.5	<1	--	<0.5	<0.5	<2	<2	<1
S 98635. 1	09-25-03	--	--	<0.5	<1	--	<0.5	<0.5	<2	<2	<1

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Caffeine, water, fltrd, ug/L (50305)	Camphor water, fltrd, ug/L (62070)	Carbazole, water, fltrd, ug/L (62071)	Cholesterol, water, fltrd, ug/L (62072)	Cotinine, water, fltrd, ug/L (62005)	DEET, water, fltrd, ug/L (62082)	Diethoxyoctylphenol, water, fltrd ug/L (61705)	HHCB, water, fltrd, ug/L (62075)	Indole, water, fltrd, ug/L (62076)	Menthol water, fltrd, ug/L (62080)
SUFFOLK COUNTY											
BIG FRESH POND	07-11-03	<0.5	<0.5	<0.5	<2	<1.00	E.1	<1	<0.5	<0.5	<0.5
NEAR NORTH SEA,	07-23-03	--	--	--	--	--	--	--	--	--	--
NY	09-18-03	--	--	--	--	--	--	--	--	--	--
FORT POND AT	07-19-03	E.1	<0.5	<0.5	E2	E.2700	E.1	M	<0.5	<0.5	<0.5
MONTAUK, NY	09-15-03	--	--	--	--	--	--	--	--	--	--
	09-15-03	--	--	--	--	--	--	--	--	--	--
TROUT POND AT	07-19-03	E.1	<0.5	<0.5	<2	<1.00	E.2	<1	<0.5	<0.5	<0.5
NOYACK, NY	09-18-03	--	--	--	--	--	--	--	--	--	--
HOOK POND AT EAST	07-19-03	0.6	M	E.1	<2	<1.00	E.2	<1	<0.5	M	E.1
HAMPTON, NY	09-16-03	--	--	--	--	--	--	--	--	--	--
LONG POND NEAR	07-19-03	E.1	<0.5	<0.5	E2	<1.00	E.2	<1	<0.5	<0.5	<0.5
SAG HARBOR, NY	07-29-03	--	--	--	--	--	--	--	--	--	--
MILL POND AT	07-11-03	<0.5	<0.5	<0.5	E1	<1.00	M	<1	<0.5	<0.5	<0.5
WATER MILL, NY	07-23-03	--	--	--	--	--	--	--	--	--	--
	07-28-03	--	--	--	--	--	--	--	--	--	--
S115135. 1	08-28-03	--	--	--	--	--	--	--	--	--	--
	09-08-03	M	<0.5	<0.5	<2	<1.00	M	<1	<0.5	<0.5	<0.5
S 48430. 1	09-08-03	M	<0.5	<0.5	<2	<1.00	E.1	<1	<0.5	<0.5	<0.5
S 8843. 2	09-25-03	<0.5	<0.5	<0.5	<2	<1.00	<0.5	<1	<0.5	<0.5	<0.5
S 15048. 1	09-25-03	<0.5	<0.5	<0.5	<2	<1.00	<0.5	<1	<0.5	<0.5	<0.5
S 98635. 1	09-25-03	M	<0.5	<0.5	<2	<1.00	E.1	<1	E.1	<0.5	<0.5

MULTIPLE STATION ANALYSES

Local identifier	Date	Methyl salicylate, water, fltrd, ug/L (62081)	p-Cresol, water, fltrd, ug/L (62084)	Phenanthrene, water, fltrd, ug/L (34462)	Phenol, water, fltrd, ug/L (34466)	Prometon, water, fltrd, ug/L (04037)	Tetrachloroethene, water, fltrd, ug/L (34476)	Tribromomethane water, fltrd, ug/L (34288)	Tributyl phosphate, water, fltrd, ug/L (62089)	Triclosan, water, fltrd, ug/L (62090)	Triphenyl phosphate, water, fltrd, ug/L (62092)
SUFFOLK COUNTY											
BIG FRESH POND	07-11-03	<0.5	<1	<0.5	E.3	<0.5	<0.5	<0.5	<0.5	<1	<0.5
NEAR NORTH SEA,	07-23-03	--	--	--	--	--	--	--	--	--	--
NY	09-18-03	--	--	--	--	--	--	--	--	--	--
FORT POND AT	07-19-03	<0.5	M	<0.5	4.8	<0.5	<0.5	<0.5	<0.5	<1	<0.5
MONTAUK, NY	09-15-03	--	--	--	--	--	--	--	--	--	--
	09-15-03	--	--	--	--	--	--	--	--	--	--
TROUT POND AT	07-19-03	M	M	<0.5	2.1	<0.5	<0.5	M	<0.5	<1	E.1
NOYACK, NY	09-18-03	--	--	--	--	--	--	--	--	--	--
HOOK POND AT EAST	07-19-03	M	M	M	0.7	<0.5	E4.4	<0.5	<0.5	<1	<0.5
HAMPTON, NY	09-16-03	--	--	--	--	--	--	--	--	--	--
LONG POND NEAR	07-19-03	M	M	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	M	E.1
SAG HARBOR, NY	07-29-03	--	--	--	--	--	--	--	--	--	--
MILL POND AT	07-11-03	<0.5	<1	<0.5	E.3	<0.5	<0.5	<0.5	<0.5	<1	<0.5
WATER MILL, NY	07-23-03	--	--	--	--	--	--	--	--	--	--
	07-28-03	--	--	--	--	--	--	--	--	--	--
S115135. 1	08-28-03	--	--	--	--	--	--	--	--	--	--
	09-08-03	<0.5	<1	<0.5	E.2	<0.5	M	<0.5	M	<1	<0.5
S 48430. 1	09-08-03	<0.5	M	<0.5	1.0	<0.5	<0.5	<0.5	M	<1	<0.5
S 8843. 2	09-25-03	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5
S 15048. 1	09-25-03	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5
S 98635. 1	09-25-03	<0.5	<1	<0.5	<0.5	E.1	<0.5	<0.5	<0.5	<1	<0.5

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Tris(2-butoxy-ethyl) phos-phate, wat flt ug/L (62093)	Tris(2-chloro-ethyl) phos-phate, wat flt ug/L (62087)	Tris(di chloro-i-Pr) phos-phate, wat flt ug/L (62088)
	SUFFOLK COUNTY			
BIG FRESH POND	07-11-03	<0.5	<0.5	<0.5
NEAR NORTH SEA,	07-23-03	--	--	--
NY	09-18-03	--	--	--
FORT POND AT	07-19-03	E.3	E.1	<0.5
MONTAUK, NY	09-15-03	--	--	--
	09-15-03	--	--	--
TROUT POND AT	07-19-03	E.2	E.1	<0.5
NOYACK, NY	09-18-03	--	--	--
HOOK POND AT EAST	07-19-03	3.2	E.1	E.1
HAMPTON, NY	09-16-03	--	--	--
LONG POND NEAR	07-19-03	E.2	E.1	<0.5
SAG HARBOR, NY	07-29-03	--	--	--
MILL POND AT	07-11-03	<0.5	<0.5	<0.5
WATER MILL, NY	07-23-03	--	--	--
	07-28-03	--	--	--
S115135. 1	08-28-03	--	--	--
	09-08-03	<0.5	<0.5	<0.5
S 48430. 1	09-08-03	<0.5	M	<0.5
S 8843. 2	09-25-03	<0.5	<0.5	<0.5
S 15048. 1	09-25-03	<0.5	<0.5	<0.5
S 98635. 1	09-25-03	<0.5	E.2	E.1

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES
Brooklyn and Queens Aquifer Study, Inorganic Data

MULTIPLE STATION ANALYSES

Local identifier	Lat-i-tude	Long-i-tude	Date	Time	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc-tance, wat unf lab, uS/cm 25 degC (90095)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)
KINGS COUNTY										
K 1265. 2	40 39 39 N	073 54 29 W	06-26-03	1200	1.0	6.2	6.8	1,140	1,180	17.2
K 2510. 1	40 34 26 N	073 58 32 W	08-26-03	0900	4.6	7.2	7.8	--	43,700	19.5
K 2582. 1	40 37 32 N	073 57 37 W	07-14-03	1145	--	7.4	7.8	888	960	16.2
K 3133. 1	40 41 58 N	073 56 58 W	08-20-03	0830	--	7.2	7.8	1,460	1,490	14.6
K 3246. 2	40 39 02 N	073 55 28 W	06-24-03	1025	6.3	6.0	7.5	530	549	17.4
K 3248. 1	40 37 12 N	074 00 16 W	08-08-03	0900	6.6	6.7	7.1	546	566	18.8
K 3251. 1	40 35 20 N	073 57 55 W	08-07-03	1115	3.3	6.9	7.2	409	444	20.2
K 3255. 2	40 38 27 N	073 53 52 W	06-26-03	1100	2.9	6.6	6.5	941	971	15.5
K 3256. 2	40 39 49 N	073 53 21 W	07-01-03	1055	--	6.5	6.9	702	745	16.7
K 3260. 2	40 43 25 N	073 56 35 W	08-01-03	0850	3.4	7.0	7.1	1,970	1,920	19.9
K 3405. 1	40 37 19 N	073 57 33 W	07-14-03	1100	6.2	7.8	7.8	506	544	15.4
K 3406. 1	40 38 06 N	074 02 19 W	07-10-03	0940	2.2	7.8	7.8	1,700	1,780	14.7
K 3407. 1	40 35 20 N	073 57 57 W	07-31-03	1040	3.9	6.6	--	E35500	44,100	14.8
K 3410. 1	40 40 39 N	073 55 50 W	06-25-03	1100	0.2	7.5	7.5	333	368	14.2
K 3414. 1	40 34 31 N	073 58 11 W	08-26-03	0800	--	6.6	6.7	--	44,600	14.6
K 3425. 1	40 40 39 N	073 55 50 W	06-25-03	1125	3.4	6.8	7.1	1,410	1,530	17.2
K 3430. 1	40 39 41 N	073 57 43 W	07-01-03	0930	--	7.4	7.5	624	633	14.3
QUEENS COUNTY										
Q 273. 1	40 42 57 N	073 49 37 W	09-11-03	1200	--	6.8	7.5	142	167	13.5
Q 277. 1	40 45 19 N	073 44 38 W	08-19-03	0900	--	6.2	6.7	327	338	11.9
Q 470. 1	40 45 41 N	073 45 26 W	09-16-03	1230	--	6.5	7.3	167	181	14.1
Q 1189. 1	40 39 58 N	073 44 58 W	08-13-03	0910	0.3	6.1	6.1	325	351	16.9
Q 1472. 1	40 44 15 N	073 46 56 W	08-20-03	1000	--	6.4	6.9	469	501	27.4
Q 2418. 1	40 45 04 N	073 50 18 W	08-18-03	0915	1.6	7.1	--	--	1,930	14.0
Q 2419. 1	40 45 03 N	073 50 19 W	08-18-03	0925	0.4	7.0	7.5	142	160	13.6
Q 2420. 1	40 45 03 N	073 50 20 W	08-18-03	0935	0.4	6.9	7.1	148	162	13.6
Q 2791. 1	40 46 24 N	073 48 35 W	08-25-03	0845	5.6	6.7	7.2	685	712	17.4
Q 2814. 1	40 45 11 N	073 48 52 W	07-08-03	0930	4.9	5.9	6.6	594	677	15.9
Q 2978. 1	40 47 03 N	073 48 35 W	08-25-03	1000	2.8	6.1	6.5	476	499	15.6
Q 2994. 2	40 39 39 N	073 44 35 W	08-27-03	0900	4.7	5.9	6.6	887	906	15.0
Q 3036. 1	40 43 54 N	073 52 00 W	08-13-03	1110	--	6.7	6.3	167	192	18.8
Q 3112. 1	40 39 39 N	073 47 28 W	07-09-03	0830	0.1	7.9	7.7	393	412	15.4
Q 3117. 1	40 39 39 N	073 47 28 W	07-09-03	0925	4.2	6.3	6.9	720	523	15.4
Q 3162. 2	40 41 19 N	073 46 36 W	06-12-03	0925	0.5	6.2	6.5	722	742	15.3
Q 3587. 1	40 41 38 N	073 53 51 W	08-05-03	0945	6.4	7.2	7.5	970	990	15.6
Q 3589. 1	40 40 26 N	073 47 21 W	06-09-03	1115	0.3	7.5	7.8	333	351	14.9
Q 3593. 1	40 47 33 N	073 48 29 W	07-30-03	1010	0.3	6.6	7.3	190	214	14.4
Q 3604. 1	40 47 32 N	073 48 29 W	07-30-03	0835	0.2	7.0	E7.1	837	893	15.5
Q 3627. 1	40 42 39 N	073 49 30 W	08-12-03	1010	2.4	6.9	6.6	171	176	13.5
Q 3628. 1	40 42 39 N	073 49 29 W	08-12-03	1220	2.2	7.1	E6.8	213	222	13.2
Q 3629. 1	40 42 39 N	073 49 28 W	08-12-03	1300	2.4	5.7	5.9	272	296	15.2
Q 3649. 1	40 41 38 N	073 53 51 W	08-05-03	1030	--	7.3	7.5	937	962	15.7
Q 3658. 1	40 40 27 N	073 46 45 W	09-29-03	0925	--	5.7	6.1	703	750	16.8
Q 3659. 1	40 43 13 N	073 47 52 W	09-29-03	1050	3.7	6.2	6.3	701	748	15.3
Q 3804. 1	40 44 59 N	073 42 24 W	05-27-03	0915	--	5.6	6.0	382	402	16.1
Q 3806. 1	40 45 39 N	073 46 53 W	05-27-03	1055	--	6.0	6.1	762	799	15.8
Q 3815. 1	40 46 17 N	073 48 32 W	06-23-03	1231	6.4	5.7	6.5	422	429	14.0
Q 3816. 1	40 46 53 N	073 48 53 W	06-23-03	1328	4.4	5.7	6.5	E632	632	15.9
ALLEY CREEK NEAR OAKLAND GARDENS, NY	40 45 45 N	073 45 05 W	08-04-03	1005	7.1	7.5	7.5	829	865	17.7
ALLEY POND SPRING NEAR OAKLAND GARDENS, NY	40 45 23 N	073 44 40 W	09-16-03	1100	7.9	6.2	7.0	214	223	12.0
GABBLERS CREEK AT LITTLE NECK, NY	40 46 25 N	073 44 39 W	08-04-03	0850	6.6	6.5	7.1	204	205	22.4

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Calcium water unfltrd recover -able, mg/L (00916)	Magnes- ium, water, unfltrd recover -able, mg/L (00927)	Potas- sium, water, unfltrd recover -able, mg/L (00937)	Sodium, water, unfltrd recover -able, mg/L (00929)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor ide, water fltrd mg/L (00940	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)
KINGS COUNTY												
K 1265. 2	06-26-03	91.5	21.3	11.0	85.0	123	203	203	<0.2	20.5	94.7	675
K 2510. 1	08-26-03	333	961	314	7,850	131	15300	15,300	0.8	10.0	2,060	29,700
K 2582. 1	07-14-03	58.2	38.2	2.1	59.6	143	136	136	<0.2	27.0	90.6	539
K 3133. 1	08-20-03	95.3	39.3	4.2	121	177	295	295	<0.2	20.5	107	831
K 3246. 2	06-24-03	44.2	10.5	1.4	39.0	33	76.4	76.4	<0.2	19.3	52.7	346
K 3248. 1	08-08-03	15.6	29.6	2.7	35.9	91	76.2	76.2	<0.2	27.9	34.1	322
K 3251. 1	08-07-03	57.5	6.71	7.6	10.8	152	21.8	21.8	<0.2	10.8	12.1	256
K 3255. 2	06-26-03	59.9	11.0	5.4	98.6	94	185	185	<0.2	11.5	59.7	547
K 3256. 2	07-01-03	31.6	11.3	1.2	86.4	44	114	114	<0.2	19.5	54.4	426
K 3260. 2	08-01-03	124	42.8	4.2	210	269	385	385	<0.2	22.3	167	1,220
K 3405. 1	07-14-03	35.5	25.5	1.6	26.8	117	38.9	38.9	<0.2	30.0	70.7	334
K 3406. 1	07-10-03	69.5	27.3	5.2	241	134	380	380	<0.2	22.3	111	1,000
K 3407. 1	07-31-03	--	--	--	--	--	--	--	<0.2	--	--	--
K 3410. 1	06-25-03	21.6	5.75	2.6	40.6	150	17.9	17.9	0.2	17.4	2.6	192
K 3414. 1	08-26-03	416	1,060	303	8,180	41	15500	15,500	<0.2	8.3	2,110	29,900
K 3425. 1	06-25-03	185	47.3	4.0	56.0	359	154	154	<0.2	34.2	182	919
K 3430. 1	07-01-03	55.1	29.2	1.9	25.1	196	49.8	49.8	<0.2	28.9	56.5	377
QUEENS COUNTY												
Q 273. 1	09-11-03	12.6	6.06	1.3	4.2	68	4.94	4.94	<0.2	7.5	E.1	89
Q 277. 1	08-19-03	25.0	15.7	1.3	12.1	58	27.8	27.8	<0.2	15.7	47.0	202
Q 470. 1	09-16-03	18.0	3.94	3.0	7.7	53	9.34	9.34	<0.2	7.5	6.8	111
Q 1189. 1	08-13-03	19.1	7.43	3.1	23.3	34	33.2	33.2	<0.2	20.1	57.2	208
Q 1472. 1	08-20-03	33.4	19.3	2.1	24.4	74	66.6	66.6	<0.2	32.3	41.4	294
Q 2418. 1	08-18-03	--	--	--	--	--	--	--	--	--	--	--
Q 2419. 1	08-18-03	13.1	5.51	1.2	6.9	67	4.65	4.65	<0.2	15.1	3.3	99
Q 2420. 1	08-18-03	13.7	5.71	1.3	7.2	68	4.96	4.96	<0.2	15.6	4.0	89
Q 2791. 1	08-25-03	52.8	28.8	1.7	35.4	164	79.5	79.5	<0.2	34.9	49.3	434
Q 2814. 1	07-08-03	37.1	18.6	2.1	52.5	50	110	110	<0.2	18.9	65.1	411
Q 2978. 1	08-25-03	40.0	24.0	1.6	18.1	120	38.6	38.6	<0.2	42.6	69.3	329
Q 2994. 2	08-27-03	24.2	7.63	3.5	396	47	199	199	<0.2	7.5	54.0	498
Q 3036. 1	08-13-03	6.57	3.09	2.2	22.6	70	10.7	10.7	<0.2	5.3	E.1	100
Q 3112. 1	07-09-03	32.4	11.4	2.5	21.9	60	80.9	80.9	<0.2	20.7	9.5	264
Q 3117. 1	07-09-03	116	15.1	8.9	27.2	230	25.1	25.1	<0.2	9.3	152	537
Q 3162. 2	06-12-03	77.8	17.1	2.9	39.4	198	45.8	45.8	<0.2	12.6	107	402
Q 3587. 1	08-05-03	88.2	37.4	2.2	33.9	179	139	139	<0.2	27.3	77.4	627
Q 3589. 1	06-09-03	27.8	12.2	2.1	12.0	51	63.6	63.6	<0.2	17.9	13.9	257
Q 3593. 1	07-30-03	14.9	8.26	1.8	9.9	56	13.5	13.5	<0.2	9.7	18.2	118
Q 3604. 1	07-30-03	71.1	44.6	2.6	32.0	227	82.0	82.0	<0.2	29.5	109	551
Q 3627. 1	08-12-03	16.5	7.57	1.4	4.2	59	7.10	7.10	<0.2	15.3	12.4	116
Q 3628. 1	08-12-03	21.4	7.93	2.0	6.7	81	9.52	9.52	<0.2	16.4	12.3	141
Q 3629. 1	08-12-03	23.1	12.9	2.8	8.7	63	10.0	10.0	<0.2	21.8	51.9	202
Q 3649. 1	08-05-03	85.8	36.1	2.2	34.0	188	128	128	<0.2	30.9	63.3	643
Q 3658. 1	09-29-03	74.9	8.24	3.8	44.3	32	128	128	<0.2	13.6	107	488
Q 3659. 1	09-29-03	65.2	28.9	3.2	17.8	104	112	112	<0.2	26.2	79.3	433
Q 3804. 1	05-27-03	18.7	7.47	1.9	38.0	25	70.8	70.8	<0.2	16.9	31.4	232
Q 3806. 1	05-27-03	52.1	30.1	1.8	41.5	215	138	138	<0.2	24.4	71.3	464
Q 3815. 1	06-23-03	32.0	18.6	1.0	17.1	49	58.2	58.2	<0.2	25.5	49.4	264
Q 3816. 1	06-23-03	40.5	23.6	1.9	43.8	68	106	106	<0.2	32.2	49.5	397
ALLEY CREEK	08-04-03	47.1	15.7	3.4	95.5	128	162	162	<0.2	22.1	32.3	492
ALLEY POND SPRING	09-16-03	14.5	10.4	1.1	9.2	31	15.2	15.2	<0.2	16.5	30.0	140
GABBLERS CREEK	08-04-03	14.7	4.62	2.4	17.4	36	33.3	33.3	<0.2	7.2	11.9	153

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water unfltrd ug/L (01002)	Barium, water, unfltrd recover -able, ug/L (01007)	Cadmium water, unfltrd ug/L (01027)	Chrom-ium, water, unfltrd recover -able, ug/L (01034)	Copper, water, unfltrd recover -able, ug/L (01042)
KINGS COUNTY											
K 1265. 2	06-26-03	0.08	11.1	<0.008	E.01	--	<2	97	0.14	0.9	1.7
K 2510. 1	08-26-03	1.15	<0.06	<0.008	E.01	--	<2	36	<0.63	4.3	15.1
K 2582. 1	07-14-03	<0.04	7.57	<0.008	0.02	--	<2	63	E.03	1.2	5.5
K 3133. 1	08-20-03	0.67	E.06	<0.008	0.03	--	<2	23	<0.04	<0.8	7.5
K 3246. 2	06-24-03	<0.04	9.18	<0.008	<0.02	--	<2	44	E.02	0.9	1.4
K 3248. 1	08-08-03	<0.04	9.39	0.013	<0.02	--	<2	33	0.30	7.8	171
K 3251. 1	08-07-03	0.12	4.92	0.011	<0.02	--	<2	15	0.14	1.5	57.9
K 3255. 2	06-26-03	0.62	6.43	0.009	E.01	--	<2	62	0.34	E.7	3.7
K 3256. 2	07-01-03	<0.04	15.8	<0.008	<0.02	--	<2	35	<0.04	1.0	0.8
K 3260. 2	08-01-03	0.06	1.81	E.005	0.02	--	<2	59	0.20	1.4	5.2
K 3405. 1	07-14-03	<0.04	5.38	<0.008	E.01	--	<2	36	0.04	1.0	1.2
K 3406. 1	07-10-03	<0.04	10.8	<0.008	0.06	--	<2	5	<0.04	2.2	1.0
K 3407. 1	07-31-03	0.83	<0.06	<0.008	<0.02	--	--	--	--	--	--
K 3410. 1	06-25-03	1.50	<0.06	<0.008	0.41	35.9	<2	60	<0.04	<0.8	<0.6
K 3414. 1	08-26-03	0.81	<0.06	<0.008	<0.02	--	<10	34	<0.63	<3.2	12.2
K 3425. 1	06-25-03	<0.04	6.44	<0.008	<0.02	--	<2	40	0.04	1.8	2.0
K 3430. 1	07-01-03	<0.04	1.60	<0.008	0.02	--	<2	105	<0.04	1.7	1.0
QUEENS COUNTY											
Q 273. 1	09-11-03	<0.04	<0.06	<0.008	<0.02	--	<2	8	<0.04	<0.8	<0.6
Q 277. 1	08-19-03	<0.04	3.62	<0.008	<0.02	--	<2	24	<0.04	5.7	E.5
Q 470. 1	09-16-03	0.14	1.48	0.010	<0.02	--	4	36	0.83	5.4	145
Q 1189. 1	08-13-03	0.06	<0.06	<0.008	<0.02	--	4	43	<0.04	<0.8	33.5
Q 1472. 1	08-20-03	<0.04	4.49	<0.008	<0.02	--	E1	40	E.03	<0.8	16.2
Q 2418. 1	08-18-03	4.17	<0.06	<0.008	<0.02	--	--	--	--	--	--
Q 2419. 1	08-18-03	0.05	<0.06	<0.008	<0.02	--	E2	29	<0.04	<0.8	1.3
Q 2420. 1	08-18-03	0.06	<0.06	<0.008	<0.02	--	<2	28	<0.04	<0.8	0.6
Q 2791. 1	08-25-03	0.19	6.54	<0.008	<0.18	--	<2	56	<0.04	3.1	1.6
Q 2814. 1	07-08-03	<0.04	8.01	0.012	<0.02	--	<2	60	0.05	1.4	25.4
Q 2978. 1	08-25-03	E.03	<0.06	<0.008	<0.18	--	<2	47	0.07	<0.8	5.6
Q 2994. 2	08-27-03	<0.04	4.89	<0.008	<0.02	--	3	79	0.13	8.1	11.3
Q 3036. 1	08-13-03	0.72	<0.06	<0.008	<0.02	--	<2	63	7.19	<0.8	40.5
Q 3112. 1	07-09-03	0.78	<0.06	<0.008	0.31	--	<2	49	<0.04	<0.8	E.4
Q 3117. 1	07-09-03	0.79	0.70	<0.008	<0.02	--	<2	43	0.04	<0.8	2.1
Q 3162. 2	06-12-03	<0.04	3.30	<0.008	E.01	--	<2	67	0.04	E.6	1.8
Q 3587. 1	08-05-03	<0.04	9.43	<0.008	E.01	--	<2	71	<0.04	2.7	1.7
Q 3589. 1	06-09-03	0.10	<0.06	<0.008	E.02	--	<2	36	<0.04	<0.8	E.5
Q 3593. 1	07-30-03	0.05	E.05	<0.008	<0.02	--	2	43	<0.04	8.4	7.6
Q 3604. 1	07-30-03	<0.04	3.22	<0.008	0.05	--	<2	67	<0.04	1.2	0.7
Q 3627. 1	08-12-03	<0.04	1.50	<0.008	<0.18	--	<2	30	E.03	4.6	10.5
Q 3628. 1	08-12-03	E.02	0.76	<0.008	E.01	--	E1	26	E.03	3.6	6.8
Q 3629. 1	08-12-03	0.07	<0.06	<0.008	<0.18	--	E1	92	0.23	13.4	20.8
Q 3649. 1	08-05-03	<0.04	10.4	<0.008	<0.02	--	<2	120	<0.04	4.7	4.2
Q 3658. 1	09-29-03	<0.04	4.63	<0.008	E.01	--	7	60	0.07	E.6	1.4
Q 3659. 1	09-29-03	<0.04	4.37	<0.008	E.01	--	<2	133	0.08	1.5	1.7
Q 3804. 1	05-27-03	<0.04	4.15	<0.008	<0.02	--	<2	65	<0.04	3.0	2.1
Q 3806. 1	05-27-03	<0.04	6.71	<0.008	<0.02	--	<2	99	<0.04	1.7	1.9
Q 3815. 1	06-23-03	<0.04	4.13	<0.008	<0.02	--	<2	24	E.02	5.2	0.8
Q 3816. 1	06-23-03	<0.04	8.88	<0.008	0.04	--	<2	60	E.02	1.7	1.2
ALLEY CREEK	08-04-03	0.17	1.96	0.027	E.01	--	E1	54	E.03	0.9	2.2
ALLEY POND SPRING	09-16-03	<0.04	4.51	<0.008	E.01	--	<2	24	<0.04	0.9	0.7
GABBLERS CREEK	08-04-03	0.12	1.04	0.030	0.09	--	<2	22	0.07	1.1	9.9

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Cyanide water unfltrd mg/L (00720)	Iron, water, unfltrd recover -able, ug/L (01045)	Lead, water, unfltrd recover -able, ug/L (01051)	Mangan- ese, water, unfltrd recover -able, ug/L (01055)	Mercury water, unfltrd recover -able, ug/L (71900)	Selen- ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover -able, ug/L (01077)	Zinc, water, unfltrd recover -able, ug/L (01092)	MBAS, water, unfltrd mg/L (38260)
				KINGS COUNTY						
K 1265. 2	06-26-03	<0.01	520	0.35	739	<0.02	3.1	<0.16	2	<0.10
K 2510. 1	08-26-03	0.13	130	<1.08	3,730	<0.02	65.7	<2.88	<36	E.10
K 2582. 1	07-14-03	<0.01	10	0.72	M	<0.02	2.6	<0.16	8	<0.10
K 3133. 1	08-20-03	<0.01	840	5.21	423	<0.02	<0.5	<0.16	5	<0.10
K 3246. 2	06-24-03	<0.01	360	0.36	54	<0.02	2.7	<0.16	E2	<0.10
K 3248. 1	08-08-03	E.01	23,900	73.3	605	0.03	2.6	E.09	585	<0.40
K 3251. 1	08-07-03	<0.01	10,600	9.15	166	<0.02	3.7	<0.16	775	<0.20
K 3255. 2	06-26-03	<0.01	260	0.17	6,650	<0.02	1.5	<0.16	3	<0.10
K 3256. 2	07-01-03	<0.01	150	0.08	12	<0.02	1.9	<0.16	E1	E.06
K 3260. 2	08-01-03	<0.01	1,710	1.93	2,210	<0.02	1.6	<0.16	10	E.15
K 3405. 1	07-14-03	<0.01	M	<0.06	7	<0.02	2.7	<0.16	<2	<0.10
K 3406. 1	07-10-03	<0.01	M	<0.06	3	<0.02	1.4	<0.16	E1	<0.10
K 3407. 1	07-31-03	--	--	--	--	--	--	--	--	E.67
K 3410. 1	06-25-03	<0.01	1,110	0.07	105	<0.02	<0.5	<0.16	<2	<0.10
K 3414. 1	08-26-03	0.12	43,900	<1.08	3,360	<0.02	72.4	<2.88	<36	<0.80
K 3425. 1	06-25-03	<0.01	190	0.30	9	<0.02	4.1	<0.16	E2	<0.10
K 3430. 1	07-01-03	<0.01	30	0.17	M	<0.02	1.4	<0.16	2	<0.10
				QUEENS COUNTY						
Q 273. 1	09-11-03	<0.01	8,710	0.60	443	<0.02	<0.5	<0.16	5	<0.80
Q 277. 1	08-19-03	<0.01	M	<0.06	M	<0.02	1.5	<0.16	E1	<0.10
Q 470. 1	09-16-03	<0.01	17,000	104	77	0.32	E.4	<0.16	394	<0.80
Q 1189. 1	08-13-03	<0.01	14,000	1.74	807	<0.02	E.4	<0.16	7	<0.20
Q 1472. 1	08-20-03	<0.01	70	1.19	3	<0.02	0.8	<0.16	121	<0.10
Q 2418. 1	08-18-03	--	--	--	--	--	--	--	--	<0.80
Q 2419. 1	08-18-03	<0.01	3,250	0.08	143	<0.02	<0.5	<0.16	8	<0.20
Q 2420. 1	08-18-03	<0.01	2,770	<0.06	148	<0.02	<0.5	<0.16	3	<0.20
Q 2791. 1	08-25-03	<0.01	M	0.22	M	<0.02	1.3	<0.16	49	<0.10
Q 2814. 1	07-08-03	<0.01	1,860	1.91	10	E.01	2.6	<0.16	58	<0.10
Q 2978. 1	08-25-03	<0.01	1,120	0.22	546	<0.02	0.5	<0.16	25	E.05
Q 2994. 2	08-27-03	<0.01	20,000	9.02	654	E.02	1.1	<0.16	20	<0.80
Q 3036. 1	08-13-03	<0.01	17,900	8.17	367	<0.02	E.4	<0.16	541	<0.80
Q 3112. 1	07-09-03	<0.01	290	0.19	104	<0.02	<0.5	<0.16	<2	<0.10
Q 3117. 1	07-09-03	<0.01	320	2.65	3,550	<0.02	E.4	<0.16	4	<0.10
Q 3162. 2	06-12-03	<0.01	140	E.05	5	<0.02	0.6	<0.16	E1	<0.10
Q 3587. 1	08-05-03	<0.01	320	0.29	143	<0.02	2.9	<0.16	5	<0.10
Q 3589. 1	06-09-03	<0.01	330	<0.06	243	<0.02	E.3	<0.16	E2	<0.10
Q 3593. 1	07-30-03	<0.01	8,390	4.41	322	<0.02	<0.5	<0.16	37	<0.40
Q 3604. 1	07-30-03	<0.01	80	<0.06	4	0.02	0.8	<0.16	<2	E.05
Q 3627. 1	08-12-03	<0.01	4,380	21.2	170	0.04	0.6	<0.16	28	<0.80
Q 3628. 1	08-12-03	<0.01	3,950	13.1	273	0.02	E.4	<0.16	26	<0.40
Q 3629. 1	08-12-03	<0.01	130,000	50.2	3,360	0.09	0.6	0.32	50	<0.80
Q 3649. 1	08-05-03	<0.01	1,380	1.40	146	<0.02	3.9	<0.16	4	<0.10
Q 3658. 1	09-29-03	<0.01	80	E.05	68	<0.02	2.4	<0.16	--	<0.10
Q 3659. 1	09-29-03	<0.01	220	0.40	13	E.01	0.8	<0.16	4	E.05
Q 3804. 1	05-27-03	<0.01	50	0.10	4	<0.02	0.9	<0.16	E1	<0.10
Q 3806. 1	05-27-03	<0.01	120	0.14	8	<0.02	1.3	<0.16	E1	<0.10
Q 3815. 1	06-23-03	<0.01	230	0.12	47	<0.02	0.8	<0.16	3	<0.10
Q 3816. 1	06-23-03	<0.01	540	0.49	34	<0.02	2.1	<0.16	E2	<0.10
ALLEY CREEK	08-04-03	<0.01	1,290	1.65	244	<0.02	0.5	<0.16	5	E.12
ALLEY POND SPRING	09-16-03	<0.01	10	E.05	1	<0.02	1.4	<0.16	E1	<0.40
GABBLERS CREEK	08-04-03	<0.01	610	4.69	150	E.01	E.4	<0.16	25	E.32

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES
Brooklyn and Queens Aquifer Study, Organic Data

MULTIPLE STATION ANALYSES

Local identifier	Lat-i-tude	Long-i-tude	Date	Time	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295)	2,4-D water, fltrd, ug/L (39732)	2,4-Di-methyl-phenol, water, unfltrd ug/L (34606)	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)	2-Chloro-naphth-alene, water, unfltrd ug/L (34581)
KINGS COUNTY										
K 1265. 2	40 39 39 N	073 54 29 W	06-26-03	1200	<0.09	<0.02	<2.0	<0.006	<0.04	<2
K 2510. 1	40 34 26 N	073 58 32 W	08-26-03	0900	<0.09	<0.02	<2.0	<0.006	E.23	<2
K 2582. 1	40 37 32 N	073 57 37 W	07-14-03	1145	<0.09	<0.02	<2.0	<0.006	<0.04	<2
K 3133. 1	40 41 58 N	073 56 58 W	08-20-03	0830	<0.09	<0.02	<2.0	<0.006	<0.04	<2
K 3246. 2	40 39 02 N	073 55 28 W	06-24-03	1025	<0.09	<0.02	<2.0	<0.006	<0.04	<2
K 3248. 1	40 37 12 N	074 00 16 W	08-08-03	0900	<0.09	<0.02	<2.0	<0.006	<0.04	<2
K 3251. 1	40 35 20 N	073 57 55 W	08-07-03	1115	<0.09	<0.02	<2.0	<0.006	<0.04	<2
K 3255. 2	40 38 27 N	073 53 52 W	06-26-03	1100	<0.09	<0.02	<2.0	<0.006	<0.04	<2
K 3256. 2	40 39 49 N	073 53 21 W	07-01-03	1055	<0.09	<0.02	<2.0	<0.006	<0.04	<2
K 3260. 2	40 43 25 N	073 56 35 W	08-01-03	0850	<0.09	<0.02	<2.0	<0.006	<0.04	<2
K 3405. 1	40 37 19 N	073 57 33 W	07-14-03	1100	<0.09	<0.02	<2.0	<0.006	<0.04	<2
K 3406. 1	40 38 06 N	074 02 19 W	07-10-03	0940	<0.09	<0.02	<2.0	<0.006	<0.04	<2
K 3407. 1	40 35 20 N	073 57 57 W	07-31-03	1040	<0.09	<0.02	<2.0	<0.006	<0.04	<2
K 3410. 1	40 40 39 N	073 55 50 W	06-25-03	1100	<0.09	<0.02	<2.0	<0.006	<0.04	<2
K 3414. 1	40 34 31 N	073 58 11 W	08-26-03	0800	<0.09	<0.02	<2.0	<0.006	<0.04	<2
K 3425. 1	40 40 39 N	073 55 50 W	06-25-03	1125	<0.09	<0.02	<2.0	<0.006	<0.04	<2
K 3430. 1	40 39 41 N	073 57 43 W	07-01-03	0930	<0.09	<0.02	<2.0	<0.006	<0.04	<2
QUEENS COUNTY										
Q 273. 1	40 42 57 N	073 49 37 W	09-11-03	1200	<0.09	<0.02	<2.0	<0.006	<0.04	M
Q 277. 1	40 45 19 N	073 44 38 W	08-19-03	0900	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 470. 1	40 45 41 N	073 45 26 W	09-16-03	1230	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 1189. 1	40 39 58 N	073 44 58 W	08-13-03	0910	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 1472. 1	40 44 15 N	073 46 56 W	08-20-03	1000	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 2418. 1	40 45 04 N	073 50 18 W	08-18-03	0915	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 2419. 1	40 45 03 N	073 50 19 W	08-18-03	0925	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 2420. 1	40 45 03 N	073 50 20 W	08-18-03	0935	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 2791. 1	40 46 24 N	073 48 35 W	08-25-03	0845	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 2814. 1	40 45 11 N	073 48 52 W	07-08-03	0930	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 2978. 1	40 47 03 N	073 48 35 W	08-25-03	1000	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 2994. 2	40 39 39 N	073 44 35 W	08-27-03	0900	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 3036. 1	40 43 54 N	073 52 00 W	08-13-03	1110	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 3112. 1	40 39 39 N	073 47 28 W	07-09-03	0830	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 3117. 1	40 39 39 N	073 47 28 W	07-09-03	0925	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 3162. 2	40 41 19 N	073 46 36 W	06-12-03	0925	<0.09	<0.02	<2.0	E.004	E.02	<2
Q 3587. 1	40 41 38 N	073 53 51 W	08-05-03	0945	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 3589. 1	40 40 26 N	073 47 21 W	06-09-03	1115	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 3593. 1	40 47 33 N	073 48 29 W	07-30-03	1010	--	<0.02	--	--	<0.04	--
Q 3604. 1	40 47 32 N	073 48 29 W	07-30-03	0835	--	<0.02	--	--	<0.04	--
Q 3627. 1	40 42 39 N	073 49 30 W	08-12-03	1010	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 3628. 1	40 42 39 N	073 49 29 W	08-12-03	1220	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 3629. 1	40 42 39 N	073 49 28 W	08-12-03	1300	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 3649. 1	40 41 38 N	073 53 51 W	08-05-03	1030	<0.09	<0.02	--	<0.006	<0.04	--
Q 3658. 1	40 40 27 N	073 46 45 W	09-29-03	0925	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 3659. 1	40 43 13 N	073 47 52 W	09-29-03	1050	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 3804. 1	40 44 59 N	073 42 24 W	05-27-03	0915	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 3806. 1	40 45 39 N	073 46 53 W	05-27-03	1055	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 3815. 1	40 46 17 N	073 48 32 W	06-23-03	1231	<0.09	<0.02	<2.0	<0.006	<0.04	<2
Q 3816. 1	40 46 53 N	073 48 53 W	06-23-03	1328	<0.09	<0.02	--	<0.006	<0.04	--
ALLEY CREEK NEAR OAKLAND GARDENS, NY	40 45 45 N	073 45 05 W	08-04-03	1005	E.01	<0.02	E.3	<0.006	<0.04	<2
ALLEY POND SPRING NEAR OAKLAND GARDENS, NY	40 45 23 N	073 44 40 W	09-16-03	1100	<0.09	<0.02	<2.0	<0.006	<0.04	<2
GABBLERS CREEK AT LITTLE NECK, NY	40 46 25 N	073 44 39 W	08-04-03	0850	E.13	0.11	<2.0	<0.006	<0.04	<2

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	2-nitrophenol, water unfltrd ug/L (34591)	4-Bromophenyl phenyl ether, wat unf ug/L (34636)	4-Chlorophenyl phenyl ether, wat unf ug/L (34641)	9H-Fluorene, water, unfltrd ug/L (34381)	Acenaphthene, water, unfltrd ug/L (34205)	Acenaphthylene, water, unfltrd ug/L (34200)	Anthracene, water, unfltrd ug/L (34220)	Atrazine, water, fltrd, ug/L (39632)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Bentazon, water, fltrd 0.7u GF ug/L (38711)
KINGS COUNTY											
K 1265. 2	06-26-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
K 2510. 1	08-26-03	<1	<2	<2	<2	<2	<2	<2	0.007	<0.010	<0.01
K 2582. 1	07-14-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
K 3133. 1	08-20-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
K 3246. 2	06-24-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
K 3248. 1	08-08-03	<1	<2	<2	<2	<2	<2	M	<0.007	<0.010	<0.01
K 3251. 1	08-07-03	<1	<2	<2	<2	<2	<2	M	<0.007	<0.010	<0.01
K 3255. 2	06-26-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
K 3256. 2	07-01-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
K 3260. 2	08-01-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
K 3405. 1	07-14-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
K 3406. 1	07-10-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
K 3407. 1	07-31-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
K 3410. 1	06-25-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
K 3414. 1	08-26-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
K 3425. 1	06-25-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
K 3430. 1	07-01-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
QUEENS COUNTY											
Q 273. 1	09-11-03	<1	M	M	M	M	M	M	<0.007	<0.010	<0.01
Q 277. 1	08-19-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 470. 1	09-16-03	<1	<2	<2	M	M	M	M	<0.007	<0.010	<0.01
Q 1189. 1	08-13-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 1472. 1	08-20-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 2418. 1	08-18-03	<1	<2	<2	<2	M	<2	<2	<0.007	<0.010	<0.01
Q 2419. 1	08-18-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 2420. 1	08-18-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 2791. 1	08-25-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	E.01
Q 2814. 1	07-08-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 2978. 1	08-25-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 2994. 2	08-27-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 3036. 1	08-13-03	M	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.02
Q 3112. 1	07-09-03	<1	<2	<2	<2	<2	<2	<2	<0.007	E.007	<0.01
Q 3117. 1	07-09-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 3162. 2	06-12-03	<1	<2	<2	<2	<2	<2	M	E.005	<0.010	<0.01
Q 3587. 1	08-05-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 3589. 1	06-09-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 3593. 1	07-30-03	--	--	--	--	--	--	--	--	--	<0.01
Q 3604. 1	07-30-03	--	--	--	--	--	--	--	--	--	<0.01
Q 3627. 1	08-12-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 3628. 1	08-12-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 3629. 1	08-12-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 3649. 1	08-05-03	--	--	--	--	--	--	--	<0.007	<0.010	<0.01
Q 3658. 1	09-29-03	<1	<2	<2	<2	<2	<2	<2	E.001	<0.010	<0.01
Q 3659. 1	09-29-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 3804. 1	05-27-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 3806. 1	05-27-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 3815. 1	06-23-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
Q 3816. 1	06-23-03	--	--	--	--	--	--	--	<0.007	<0.010	<0.01
ALLEY CREEK	08-04-03	<1	<2	<2	M	M	<2	M	<0.007	<0.010	<0.01
ALLEY POND SPRING	09-16-03	<1	<2	<2	<2	<2	<2	<2	<0.007	<0.010	<0.01
GABBLERS CREEK	08-04-03	<1	<2	<2	<2	<2	<2	M	<0.007	0.010	<0.01

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Benzo-[a]-anthra-cene, water, unfltrd ug/L (34526)	Benzo-[a]-pyrene, water, unfltrd ug/L (34247)	Benzo-[b]-fluor-anthene water unfltrd ug/L (34230)	Benzo-[g,h,i]-per-ylene, water, unfltrd ug/L (34521)	Benzo-[k]-fluor-anthene water unfltrd ug/L (34242)	Benzyl n-butyl phthal-ate, water, unfltrd ug/L (34292)	Bis(2-ethyl-hexyl) phthal-ate, wat unf ug/L (39100)	Broma-cil, water, fltrd, ug/L (04029)	Car-baryl, water, fltrd 0.7u GF ug/L (49310)	Car-baryl, water, fltrd 0.7u GF ug/L (82680)
KINGS COUNTY											
K 1265. 2	06-26-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
K 2510. 1	08-26-03	<2	<1	<2	<2	<1	M	M	<0.03	<0.03	<0.041
K 2582. 1	07-14-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
K 3133. 1	08-20-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
K 3246. 2	06-24-03	<2	<1	<2	<2	<1	M	E3	<0.03	<0.03	<0.041
K 3248. 1	08-08-03	<2	<1	<2	<2	<1	<2	E2	<0.03	<0.03	<0.041
K 3251. 1	08-07-03	<2	M	M	<2	M	<2	<2	<0.03	<0.03	<0.041
K 3255. 2	06-26-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
K 3256. 2	07-01-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
K 3260. 2	08-01-03	<2	<1	<2	<2	<1	<2	E1	<0.03	<0.03	<0.041
K 3405. 1	07-14-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
K 3406. 1	07-10-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
K 3407. 1	07-31-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
K 3410. 1	06-25-03	<2	<1	<2	<2	<1	<2	E5	<0.03	<0.03	<0.041
K 3414. 1	08-26-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
K 3425. 1	06-25-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
K 3430. 1	07-01-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
QUEENS COUNTY											
Q 273. 1	09-11-03	<2	M	M	M	M	<2	<2	<0.03	<0.03	<0.041
Q 277. 1	08-19-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 470. 1	09-16-03	M	M	M	M	M	<2	<2	<0.03	<0.03	<0.041
Q 1189. 1	08-13-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 1472. 1	08-20-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 2418. 1	08-18-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 2419. 1	08-18-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 2420. 1	08-18-03	<2	<1	M	<2	M	<2	<2	<0.03	<0.03	<0.041
Q 2791. 1	08-25-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 2814. 1	07-08-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 2978. 1	08-25-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 2994. 2	08-27-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 3036. 1	08-13-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 3112. 1	07-09-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 3117. 1	07-09-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 3162. 2	06-12-03	<2	<1	<2	<2	<1	<2	M	<0.03	<0.03	<0.041
Q 3587. 1	08-05-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 3589. 1	06-09-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 3593. 1	07-30-03	--	--	--	--	--	--	--	<0.03	<0.03	--
Q 3604. 1	07-30-03	--	--	--	--	--	--	--	E.04	<0.03	--
Q 3627. 1	08-12-03	<2	M	M	<2	M	<2	<2	<0.03	<0.03	<0.041
Q 3628. 1	08-12-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 3629. 1	08-12-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 3649. 1	08-05-03	--	--	--	--	--	--	--	<0.03	<0.03	<0.041
Q 3658. 1	09-29-03	<2	<1	<2	<2	<1	M	<2	<0.03	<0.03	<0.041
Q 3659. 1	09-29-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 3804. 1	05-27-03	<2	<1	<2	<2	<1	<2	<2	E.01	<0.03	<0.041
Q 3806. 1	05-27-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
Q 3815. 1	06-23-03	<2	<1	<2	<2	<1	<2	E1	<0.03	<0.03	<0.041
Q 3816. 1	06-23-03	--	--	--	--	--	--	--	<0.03	<0.03	<0.041
ALLEY CREEK	08-04-03	<2	<1	<2	<2	<1	M	<2	<0.03	<0.03	<0.041
ALLEY POND SPRING	09-16-03	<2	<1	<2	<2	<1	<2	<2	<0.03	<0.03	<0.041
GABBLERS CREEK	08-04-03	<2	M	M	<2	M	<2	E2	<0.03	E.05	E.147

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Chlordane, technical, water, unfltrd ug/L (39350)	Chloro-di-amino-s-tri-azine, wat flt ug/L (04039)	Chrysene, water, unfltrd ug/L (34320)	Diazinon oxon, water, fltrd, ug/L (61638)	Diazinon, water, fltrd, ug/L (39572)	Dicamba water fltrd 0.7u GF ug/L (38442)	Dieldrin, water, fltrd, ug/L (39381)	Dieldrin, water, unfltrd ug/L (39380)	Diethyl phthalate, water, unfltrd ug/L (34336)	Dimethyl phthalate, water, unfltrd ug/L (34341)
KINGS COUNTY											
K 1265. 2	06-26-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	E.003	<2	<1
K 2510. 1	08-26-03	<0.1	M	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
K 2582. 1	07-14-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
K 3133. 1	08-20-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
K 3246. 2	06-24-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
K 3248. 1	08-08-03	<0.1	<0.01	<3	<0.01	<0.005	0.07	<0.005	<0.017	<2	M
K 3251. 1	08-07-03	<0.1	<0.01	M	<0.01	<0.005	<0.01	0.025	0.021	<2	<1
K 3255. 2	06-26-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
K 3256. 2	07-01-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
K 3260. 2	08-01-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	M	<1
K 3405. 1	07-14-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
K 3406. 1	07-10-03	<0.1	--	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
K 3407. 1	07-31-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
K 3410. 1	06-25-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	26	<1
K 3414. 1	08-26-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
K 3425. 1	06-25-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
K 3430. 1	07-01-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
QUEENS COUNTY											
Q 273. 1	09-11-03	<0.1	<0.01	M	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 277. 1	08-19-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 470. 1	09-16-03	<0.1	<0.01	M	<0.01	<0.005	<0.01	<0.005	<0.017	<2	M
Q 1189. 1	08-13-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 1472. 1	08-20-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 2418. 1	08-18-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 2419. 1	08-18-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	M	<1
Q 2420. 1	08-18-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 2791. 1	08-25-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 2814. 1	07-08-03	<0.1	--	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 2978. 1	08-25-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 2994. 2	08-27-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 3036. 1	08-13-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 3112. 1	07-09-03	<0.1	--	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 3117. 1	07-09-03	<0.1	--	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 3162. 2	06-12-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	0.011	E.014	<2	<1
Q 3587. 1	08-05-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 3589. 1	06-09-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 3593. 1	07-30-03	<0.1	<0.01	--	--	--	<0.01	--	<0.017	--	--
Q 3604. 1	07-30-03	<0.1	<0.01	--	--	--	<0.01	--	<0.017	--	--
Q 3627. 1	08-12-03	<0.1	<0.01	M	<0.01	<0.005	<0.01	<0.005	<0.017	M	<1
Q 3628. 1	08-12-03	E.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 3629. 1	08-12-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 3649. 1	08-05-03	<0.1	<0.01	--	<0.01	<0.005	<0.01	<0.005	<0.017	--	--
Q 3658. 1	09-29-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 3659. 1	09-29-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
Q 3804. 1	05-27-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	0.028	0.028	<2	<1
Q 3806. 1	05-27-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	0.006	<0.017	<2	<1
Q 3815. 1	06-23-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	0.057	0.036	<2	<1
Q 3816. 1	06-23-03	<0.1	<0.01	--	<0.01	<0.005	<0.01	<0.005	<0.017	--	--
ALLEY CREEK	08-04-03	<0.1	<0.01	<3	<0.01	0.062	<0.01	<0.005	<0.017	M	<1
ALLEY POND SPRING	09-16-03	<0.1	<0.01	<3	<0.01	<0.005	<0.01	<0.005	<0.017	<2	<1
GABBLERS CREEK	08-04-03	<0.1	<0.01	<3	0.01	0.104	<0.01	<0.005	<0.017	M	<1

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Di-n-butyl phthalate, water, unfltrd ug/L (39110)	Di-n-octyl phthalate, water, unfltrd ug/L (34596)	Fipronil, water, fltrd, ug/L (62166)	Fluoranthene water unfltrd ug/L (34376)	Heptachlor epoxide water unfltrd ug/L (39420)	Hexachlorobenzene water unfltrd ug/L (39700)	Indeno-[1,2,-3-cd]-pyrene, water, unfltrd ug/L (34403)	Isophorone water unfltrd ug/L (34408)	Malathion, water, fltrd, ug/L (39532)	N-(4-Chlorophenyl)-N-'methylurea, ug/L (61692)
KINGS COUNTY											
K 1265. 2	06-26-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
K 2510. 1	08-26-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
K 2582. 1	07-14-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
K 3133. 1	08-20-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
K 3246. 2	06-24-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
K 3248. 1	08-08-03	<2	<2	E.006	M	<0.009	<2	<3	M	<0.027	<0.02
K 3251. 1	08-07-03	<2	M	<0.007	M	<0.009	M	<3	<2	<0.027	<0.02
K 3255. 2	06-26-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
K 3256. 2	07-01-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
K 3260. 2	08-01-03	<2	M	<0.007	M	<0.009	<2	<3	<2	<0.027	<0.02
K 3405. 1	07-14-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
K 3406. 1	07-10-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
K 3407. 1	07-31-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
K 3410. 1	06-25-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
K 3414. 1	08-26-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
K 3425. 1	06-25-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
K 3430. 1	07-01-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
QUEENS COUNTY											
Q 273. 1	09-11-03	<2	<2	<0.007	M	<0.009	M	M	<2	<0.027	<0.02
Q 277. 1	08-19-03	M	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 470. 1	09-16-03	<2	<2	<0.007	M	<0.009	<2	M	<2	<0.027	<0.02
Q 1189. 1	08-13-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 1472. 1	08-20-03	<2	M	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 2418. 1	08-18-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 2419. 1	08-18-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 2420. 1	08-18-03	<2	<2	<0.007	M	<0.009	<2	<3	<2	<0.027	<0.02
Q 2791. 1	08-25-03	<2	<2	<0.007	<2	E.006	<2	<3	<2	<0.027	<0.02
Q 2814. 1	07-08-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 2978. 1	08-25-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 2994. 2	08-27-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 3036. 1	08-13-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 3112. 1	07-09-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 3117. 1	07-09-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 3162. 2	06-12-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 3587. 1	08-05-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 3589. 1	06-09-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 3593. 1	07-30-03	--	--	--	--	<0.009	--	--	--	--	<0.02
Q 3604. 1	07-30-03	--	--	--	--	<0.009	--	--	--	--	<0.02
Q 3627. 1	08-12-03	<2	<2	<0.007	M	<0.009	<2	<3	<2	<0.027	<0.02
Q 3628. 1	08-12-03	<2	<2	<0.007	M	<0.009	<2	<3	<2	<0.027	<0.02
Q 3629. 1	08-12-03	<2	<2	<0.007	M	<0.009	<2	<3	<2	<0.027	<0.02
Q 3649. 1	08-05-03	--	--	<0.007	--	<0.009	--	--	--	<0.027	<0.02
Q 3658. 1	09-29-03	M	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	E.01
Q 3659. 1	09-29-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 3804. 1	05-27-03	<2	<2	<0.007	<2	0.013	<2	<3	<2	<0.027	<0.02
Q 3806. 1	05-27-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 3815. 1	06-23-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
Q 3816. 1	06-23-03	--	--	<0.007	--	<0.009	--	--	--	<0.027	<0.02
ALLEY CREEK	08-04-03	M	<2	<0.007	M	<0.009	<2	<3	<2	<0.027	<0.02
ALLEY POND SPRING	09-16-03	<2	<2	<0.007	<2	<0.009	<2	<3	<2	<0.027	<0.02
GABBLERS CREEK	08-04-03	M	M	E.052	M	<0.009	<2	<3	<2	0.030	<0.02

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	N-NItroso-di-methyl-amine, wat unf ug/L (34438)	N-NItroso-di-phenyl-amine, wat unf ug/L (34433)	Penta-chloro-phenol, water, unfltrd ug/L (39032)	Phenan-threne, water, unfltrd ug/L (34461)	Pic-loram, water, fltrd 0.7u GF ug/L (49291)	Prome-ton, water, fltrd, ug/L (04037)	Pyrene, water, unfltrd ug/L (34469)	Siduron water, fltrd, ug/L (38548)	Sima-zine, water, fltrd, ug/L (04035)	Ter-buthyl-azine, water, fltrd, ug/L (04022)
KINGS COUNTY											
K 1265. 2	06-26-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
K 2510. 1	08-26-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	0.758	M
K 2582. 1	07-14-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
K 3133. 1	08-20-03	M	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
K 3246. 2	06-24-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
K 3248. 1	08-08-03	<3	M	M	M	<0.02	<0.01	M	<0.02	<0.005	<0.01
K 3251. 1	08-07-03	<3	M	<2	M	<0.02	E.01	M	<0.02	<0.005	<0.01
K 3255. 2	06-26-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.080	<0.01
K 3256. 2	07-01-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
K 3260. 2	08-01-03	<3	<2	<2	<2	<0.02	<0.01	M	<0.02	<0.005	<0.01
K 3405. 1	07-14-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
K 3406. 1	07-10-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
K 3407. 1	07-31-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
K 3410. 1	06-25-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
K 3414. 1	08-26-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
K 3425. 1	06-25-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
K 3430. 1	07-01-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
QUEENS COUNTY											
Q 273. 1	09-11-03	<3	M	<2	M	<0.02	<0.01	M	<0.02	<0.005	<0.01
Q 277. 1	08-19-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 470. 1	09-16-03	<3	M	<2	M	<0.02	<0.01	M	<0.02	<0.005	<0.01
Q 1189. 1	08-13-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 1472. 1	08-20-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 2418. 1	08-18-03	<3	<2	<2	<2	<0.02	<0.01	<2	E.01	<0.005	<0.01
Q 2419. 1	08-18-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 2420. 1	08-18-03	<3	<2	<2	<2	<0.02	<0.01	M	<0.02	<0.005	<0.01
Q 2791. 1	08-25-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 2814. 1	07-08-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 2978. 1	08-25-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 2994. 2	08-27-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 3036. 1	08-13-03	<3	M	<2	M	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 3112. 1	07-09-03	<3	<2	<2	<2	<0.02	<0.01	<2	M	<0.005	<0.01
Q 3117. 1	07-09-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 3162. 2	06-12-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 3587. 1	08-05-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 3589. 1	06-09-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 3593. 1	07-30-03	--	--	--	--	<0.02	--	--	<0.02	--	--
Q 3604. 1	07-30-03	--	--	--	--	<0.02	--	--	<0.02	--	--
Q 3627. 1	08-12-03	<3	<2	<2	M	<0.02	<0.01	M	<0.02	<0.005	<0.01
Q 3628. 1	08-12-03	<3	<2	<2	<2	<0.02	<0.01	M	<0.02	<0.005	<0.01
Q 3629. 1	08-12-03	<3	<2	<2	<2	<0.02	<0.01	M	<0.02	<0.005	<0.01
Q 3649. 1	08-05-03	--	--	--	--	<0.02	<0.01	--	<0.02	<0.005	<0.01
Q 3658. 1	09-29-03	<3	<2	<2	<2	0.46	<0.01	<2	<0.02	<0.005	<0.01
Q 3659. 1	09-29-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 3804. 1	05-27-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	0.055	<0.01
Q 3806. 1	05-27-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 3815. 1	06-23-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
Q 3816. 1	06-23-03	--	--	--	--	<0.02	<0.01	--	<0.02	<0.005	<0.01
ALLEY CREEK	08-04-03	<3	<2	M	M	<0.02	E.01	M	<0.02	0.006	M
ALLEY POND SPRING	09-16-03	<3	<2	<2	<2	<0.02	<0.01	<2	<0.02	<0.005	<0.01
GABBLERS CREEK	08-04-03	<3	<2	M	M	<0.02	<0.01	M	<0.02	<0.005	<0.01

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Tri-flur-alin, water, fltrd 0.7u GF ug/L (82661)	1,1,1,2 -Tetra-chloro-ethane, water, unfltrd ug/L (77562)	1,1,1- Tri-chloro-ethane, water, unfltrd ug/L (34506)	CFC-113 water unfltrd ug/L (77652)	1,1,2- Tri-chloro-ethane, water, unfltrd ug/L (34511)	1,1-Di-chloro-ethane, water unfltrd ug/L (34496)	1,1-Di-chloro-ethene, water, unfltrd ug/L (34501)	1,2,3,5 Tetra-methyl-benzene water unfltrd ug/L (50000)	1,2,3- Tri-chloro-benzene water unfltrd ug/L (77613)	1,2,3- Tri-chloro-propane water unfltrd ug/L (77443)
KINGS COUNTY											
K 1265. 2	06-26-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
K 2510. 1	08-26-03	<0.009	<0.03	<0.03	<0.06	<0.06	0.12	<0.04	<0.2	<0.3	<0.16
K 2582. 1	07-14-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
K 3133. 1	08-20-03	<0.009	<0.03	<0.03	<0.06	<0.06	E.03	<0.04	<0.2	<0.3	<0.16
K 3246. 2	06-24-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
K 3248. 1	08-08-03	<0.009	<0.03	E.01	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
K 3251. 1	08-07-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
K 3255. 2	06-26-03	<0.009	<0.03	E.01	<0.06	<0.06	E.03	E.02	<0.2	<0.3	<0.16
K 3256. 2	07-01-03	<0.009	<0.03	0.10	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
K 3260. 2	08-01-03	<0.009	<0.03	0.47	<0.06	E.06	1.16	1.13	<0.2	<0.3	<0.16
K 3405. 1	07-14-03	<0.009	<0.03	E.02	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
K 3406. 1	07-10-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
K 3407. 1	07-31-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
K 3410. 1	06-25-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
K 3414. 1	08-26-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
K 3425. 1	06-25-03	<0.009	E.02	E.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
K 3430. 1	07-01-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
QUEENS COUNTY											
Q 273. 1	09-11-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 277. 1	08-19-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 470. 1	09-16-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 1189. 1	08-13-03	<0.009	<0.03	<0.03	<0.06	<0.06	E.02	<0.04	<0.2	<0.3	<0.16
Q 1472. 1	08-20-03	<0.009	<0.03	<0.03	<0.06	<0.06	E.04	<0.04	<0.2	<0.3	<0.16
Q 2418. 1	08-18-03	<0.009	--	--	--	--	--	--	--	--	--
Q 2419. 1	08-18-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 2420. 1	08-18-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 2791. 1	08-25-03	<0.009	--	--	--	--	--	--	--	--	--
Q 2814. 1	07-08-03	<0.009	<0.03	E.06	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 2978. 1	08-25-03	<0.009	--	--	--	--	--	--	--	--	--
Q 2994. 2	08-27-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 3036. 1	08-13-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 3112. 1	07-09-03	E.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 3117. 1	07-09-03	<0.009	<0.03	<0.03	<0.06	<0.06	E.05	<0.04	<0.2	E.1	<0.16
Q 3162. 2	06-12-03	<0.009	<0.03	E.04	<0.06	<0.06	0.15	<0.04	<0.2	E.1	<0.16
Q 3587. 1	08-05-03	<0.009	<0.03	E.02	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 3589. 1	06-09-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 3593. 1	07-30-03	--	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 3604. 1	07-30-03	--	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 3627. 1	08-12-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 3628. 1	08-12-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 3629. 1	08-12-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 3649. 1	08-05-03	<0.009	<0.03	E.04	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 3658. 1	09-29-03	<0.009	<0.03	E.02	<0.06	<0.06	E.03	<0.04	<0.2	<0.3	<0.16
Q 3659. 1	09-29-03	<0.009	<0.03	0.20	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 3804. 1	05-27-03	<0.009	<0.03	E.03	0.29	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
Q 3806. 1	05-27-03	<0.009	<0.03	E.09	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	0.21
Q 3815. 1	06-23-03	<0.009	<0.03	0.21	<0.06	<0.06	<0.04	E.05	<0.2	<0.3	<0.16
Q 3816. 1	06-23-03	<0.009	<0.03	E.07	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
ALLEY CREEK	08-04-03	<0.009	<0.03	E.02	<0.06	<0.06	<0.04	<0.04	E.1	<0.3	<0.16
ALLEY POND SPRING	09-16-03	<0.009	<0.03	<0.03	<0.06	<0.06	<0.04	<0.04	<0.2	<0.3	<0.16
GABBLERS CREEK	08-04-03	0.010	<0.03	E.01	<0.06	<0.06	E.04	<0.04	<0.2	<0.3	<0.16

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	1,2,3-Trimethylbenzene water unfltrd ug/L (77221)	1,2,4-Trichlorobenzene water unfltrd ug/L (34551)	1,2,4-Trimethylbenzene water unfltrd ug/L (77222)	1,2-Dichlorobenzene water unfltrd ug/L (34536)	1,2-Dichloroethane, water, unfltrd ug/L (32103)	1,2-Dichloropropane water unfltrd ug/L (34541)	1,3,5-Trimethylbenzene water unfltrd ug/L (77226)	1,3-Dichlorobenzene water unfltrd ug/L (34566)	1,4-Dichlorobenzene water unfltrd ug/L (34571)	2-Chlorotoluene water unfltrd ug/L (77275)
KINGS COUNTY											
K 1265. 2	06-26-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
K 2510. 1	08-26-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
K 2582. 1	07-14-03	M	<0.1	0.11	<0.03	<0.1	<0.03	E.04	<0.03	<0.05	<0.04
K 3133. 1	08-20-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
K 3246. 2	06-24-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
K 3248. 1	08-08-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
K 3251. 1	08-07-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
K 3255. 2	06-26-03	<0.1	<0.1	<0.06	3.68	<0.1	<0.03	<0.04	0.47	0.93	<0.04
K 3256. 2	07-01-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
K 3260. 2	08-01-03	<0.1	<0.1	<0.06	<0.03	E.1	<0.03	<0.04	<0.03	<0.05	<0.04
K 3405. 1	07-14-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
K 3406. 1	07-10-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
K 3407. 1	07-31-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
K 3410. 1	06-25-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
K 3414. 1	08-26-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
K 3425. 1	06-25-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
K 3430. 1	07-01-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
QUEENS COUNTY											
Q 273. 1	09-11-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 277. 1	08-19-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 470. 1	09-16-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 1189. 1	08-13-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 1472. 1	08-20-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 2418. 1	08-18-03	--	--	--	--	--	--	--	--	--	--
Q 2419. 1	08-18-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 2420. 1	08-18-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 2791. 1	08-25-03	--	--	--	--	--	--	--	--	--	--
Q 2814. 1	07-08-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 2978. 1	08-25-03	--	--	--	--	--	--	--	--	--	--
Q 2994. 2	08-27-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	E.02	<0.04
Q 3036. 1	08-13-03	<0.1	<0.1	E.05	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	1.01
Q 3112. 1	07-09-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 3117. 1	07-09-03	<0.1	0.5	<0.06	0.25	<0.1	<0.03	<0.04	E.08	0.28	<0.04
Q 3162. 2	06-12-03	<0.1	E.1	<0.06	E.04	<0.1	<0.03	<0.04	<0.03	E.02	<0.04
Q 3587. 1	08-05-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 3589. 1	06-09-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 3593. 1	07-30-03	<0.1	<0.1	<0.06	<0.03	E.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 3604. 1	07-30-03	<0.1	<0.1	<0.06	<0.03	1.7	<0.03	<0.04	<0.03	<0.05	<0.04
Q 3627. 1	08-12-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 3628. 1	08-12-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 3629. 1	08-12-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 3649. 1	08-05-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 3658. 1	09-29-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	E.02	<0.04
Q 3659. 1	09-29-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 3804. 1	05-27-03	<0.1	<0.1	<0.06	<0.03	<0.1	E.02	<0.04	<0.03	<0.05	<0.04
Q 3806. 1	05-27-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 3815. 1	06-23-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
Q 3816. 1	06-23-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
ALLEY CREEK	08-04-03	0.2	<0.1	0.30	<0.03	<0.1	<0.03	0.18	<0.03	<0.05	<0.04
ALLEY POND SPRING	09-16-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04
GABBLERS CREEK	08-04-03	<0.1	<0.1	<0.06	<0.03	<0.1	<0.03	<0.04	<0.03	<0.05	<0.04

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	2-Ethyltoluene water unfltrd ug/L (77220)	4-Chlorotoluene water unfltrd ug/L (77277)	4-Isopropyltoluene water unfltrd ug/L (77356)	Acetone water unfltrd ug/L (81552)	Benzene water unfltrd ug/L (34030)	Bromodichloromethane water unfltrd ug/L (32101)	Carbon disulfide water unfltrd ug/L (77041)	Chlorobenzene water unfltrd ug/L (34301)	cis-1,2-Dichloroethene, water, unfltrd ug/L (77093)	Dichlorodifluoromethane wat unf ug/L (34668)
KINGS COUNTY											
K 1265. 2	06-26-03	<0.06	<0.05	<0.12	<7	E.07	<0.05	<0.07	<0.03	10.8	<0.18
K 2510. 1	08-26-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
K 2582. 1	07-14-03	E.03	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
K 3133. 1	08-20-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	0.11	<0.18
K 3246. 2	06-24-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
K 3248. 1	08-08-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
K 3251. 1	08-07-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
K 3255. 2	06-26-03	<0.06	<0.05	<0.12	<7	E.02	<0.05	<0.07	E.04	0.17	<0.18
K 3256. 2	07-01-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
K 3260. 2	08-01-03	<0.06	<0.05	<0.12	<7	E.02	<0.05	<0.07	<0.03	25.5	<0.18
K 3405. 1	07-14-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
K 3406. 1	07-10-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	E.90
K 3407. 1	07-31-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
K 3410. 1	06-25-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
K 3414. 1	08-26-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
K 3425. 1	06-25-03	<0.06	<0.05	<0.12	<7	E.01	E.06	<0.07	<0.03	1.37	E.04
K 3430. 1	07-01-03	<0.06	<0.05	<0.12	<7	<0.04	E.04	<0.07	<0.03	<0.04	<0.18
QUEENS COUNTY											
Q 273. 1	09-11-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 277. 1	08-19-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 470. 1	09-16-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	0.56	<0.03	<0.04	<0.18
Q 1189. 1	08-13-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	0.14	E.09
Q 1472. 1	08-20-03	<0.06	<0.05	<0.12	<7	<0.04	E.05	<0.07	<0.03	1.36	E.49
Q 2418. 1	08-18-03	--	--	--	--	--	--	--	--	--	--
Q 2419. 1	08-18-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	E2.98
Q 2420. 1	08-18-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	E2.07
Q 2791. 1	08-25-03	--	--	--	--	--	--	--	--	--	--
Q 2814. 1	07-08-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	E.03	<0.18
Q 2978. 1	08-25-03	--	--	--	--	--	--	--	--	--	--
Q 2994. 2	08-27-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 3036. 1	08-13-03	<0.06	0.12	<0.12	M	E.02	<0.05	E.09	0.70	E.09	<0.18
Q 3112. 1	07-09-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 3117. 1	07-09-03	<0.06	<0.05	<0.12	<7	0.24	<0.05	<0.07	0.33	E.03	<0.18
Q 3162. 2	06-12-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 3587. 1	08-05-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 3589. 1	06-09-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 3593. 1	07-30-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	E.02	<0.03	<0.04	<0.18
Q 3604. 1	07-30-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 3627. 1	08-12-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 3628. 1	08-12-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 3629. 1	08-12-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 3649. 1	08-05-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 3658. 1	09-29-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 3659. 1	09-29-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 3804. 1	05-27-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	0.90	<0.18
Q 3806. 1	05-27-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 3815. 1	06-23-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
Q 3816. 1	06-23-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
ALLEY CREEK	08-04-03	0.19	<0.05	E.02	E3	0.18	<0.05	<0.07	<0.03	<0.04	<0.18
ALLEY POND SPRING	09-16-03	<0.06	<0.05	<0.12	<7	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18
GABBLERS CREEK	08-04-03	<0.06	<0.05	E.04	E4	<0.04	<0.05	<0.07	<0.03	<0.04	<0.18

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Di-chloro-methane water unfltrd ug/L (34423)	Di-ethyl ether, water, unfltrd ug/L (81576)	Diiso-propyl ether, water, unfltrd ug/L (81577)	Ethyl-benzene water unfltrd ug/L (34371)	Iso-butyl methyl ketone, water, unfltrd ug/L (78133)	Methyl tert-pentyl ether, water, unfltrd ug/L (50005)	meta- + para-Xylene, water, unfltrd ug/L (85795)	n-propyl-benzene water unfltrd ug/L (77224)	o-Xylene, water, unfltrd ug/L (77135)	Methyl t-butyl ether, water, unfltrd ug/L (78032)
KINGS COUNTY											
K 1265. 2	06-26-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	E.1
K 2510. 1	08-26-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	0.3
K 2582. 1	07-14-03	<0.2	<0.2	<0.10	E.04	<0.4	<0.08	E.14	E.01	E.08	E.1
K 3133. 1	08-20-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	E.1
K 3246. 2	06-24-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	<0.2
K 3248. 1	08-08-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	0.5
K 3251. 1	08-07-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	E.1
K 3255. 2	06-26-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	7.5
K 3256. 2	07-01-03	M	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	0.4
K 3260. 2	08-01-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	0.3
K 3405. 1	07-14-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	M
K 3406. 1	07-10-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	0.6
K 3407. 1	07-31-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	E.1
K 3410. 1	06-25-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	<0.2
K 3414. 1	08-26-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	<0.2
K 3425. 1	06-25-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	0.2
K 3430. 1	07-01-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	<0.2
QUEENS COUNTY											
Q 273. 1	09-11-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	<0.2
Q 277. 1	08-19-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	<0.2
Q 470. 1	09-16-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	<0.2
Q 1189. 1	08-13-03	<0.2	0.8	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	0.2
Q 1472. 1	08-20-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	0.3
Q 2418. 1	08-18-03	--	--	--	--	--	--	--	--	--	--
Q 2419. 1	08-18-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	E.1
Q 2420. 1	08-18-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	<0.2
Q 2791. 1	08-25-03	--	--	--	--	--	--	--	--	--	--
Q 2814. 1	07-08-03	<0.2	<0.2	<0.10	<0.03	<0.4	E.05	<0.06	<0.04	<0.07	3.6
Q 2978. 1	08-25-03	--	--	--	--	--	--	--	--	--	--
Q 2994. 2	08-27-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	1.4
Q 3036. 1	08-13-03	<0.2	<0.2	<0.10	0.16	<0.4	<0.08	1.70	<0.04	0.58	E.1
Q 3112. 1	07-09-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	<0.2
Q 3117. 1	07-09-03	<0.2	<0.2	E.04	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	E.1
Q 3162. 2	06-12-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	2.9
Q 3587. 1	08-05-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	E.1
Q 3589. 1	06-09-03	<0.2	<0.2	<0.13	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	M
Q 3593. 1	07-30-03	<0.2	E.1	1.11	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	<0.2
Q 3604. 1	07-30-03	<0.2	0.9	19.6	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	E.1
Q 3627. 1	08-12-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	E.1
Q 3628. 1	08-12-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	E.1
Q 3629. 1	08-12-03	<0.2	<0.2	<0.10	<0.03	<0.4	E.04	<0.06	<0.04	<0.07	6.7
Q 3649. 1	08-05-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	0.4
Q 3658. 1	09-29-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	0.2
Q 3659. 1	09-29-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	E.1
Q 3804. 1	05-27-03	<0.2	<0.2	<0.10	<0.03	<0.4	E.03	<0.06	<0.04	<0.07	2.3
Q 3806. 1	05-27-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	1.1
Q 3815. 1	06-23-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	E.1
Q 3816. 1	06-23-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	0.6
ALLEY CREEK	08-04-03	<0.2	<0.2	<0.10	E.08	<0.4	<0.08	1.48	<0.04	1.21	0.2
ALLEY POND SPRING	09-16-03	<0.2	<0.2	<0.10	<0.03	<0.4	<0.08	<0.06	<0.04	<0.07	<0.2
GABBLERS CREEK	08-04-03	<0.2	<0.2	<0.10	<0.03	E.5	0.11	<0.06	<0.04	<0.07	0.8

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Tetra-chloro-ethene, water, unfltrd ug/L (34475)	Tetra-chloro-methane water unfltrd ug/L (32102)	Tetra-hydro-furan, water, unfltrd ug/L (81607)	trans-1,2-Di-chloro-ethene, water, unfltrd ug/L (34546)	Tri-chloro-ethene, water, unfltrd ug/L (39180)	Tri-chloro-fluoro-methane water unfltrd ug/L (34488)	Tri-chloro-methane water unfltrd ug/L (32106)	Deu-terium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)
					KINGS COUNTY					
K 1265. 2	06-26-03	39.5	<0.06	<2	E.07	13.6	<0.09	0.17	--	--
K 2510. 1	08-26-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	<0.02	--	--
K 2582. 1	07-14-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	0.72	--	--
K 3133. 1	08-20-03	0.14	<0.06	<2	E.05	E.09	<0.09	<0.02	--	--
K 3246. 2	06-24-03	0.27	<0.06	<2	<0.03	E.02	<0.09	5.74	--	--
K 3248. 1	08-08-03	0.25	<0.06	<2	<0.03	<0.04	<0.09	0.73	--	--
K 3251. 1	08-07-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	0.26	--	--
K 3255. 2	06-26-03	0.41	<0.06	<2	<0.03	0.51	<0.09	E.03	--	--
K 3256. 2	07-01-03	1.02	<0.06	<2	<0.03	0.36	<0.09	12.6	--	--
K 3260. 2	08-01-03	11.2	<0.06	<2	0.11	28.9	<0.09	0.56	--	--
K 3405. 1	07-14-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	E.05	--	--
K 3406. 1	07-10-03	<0.03	E.03	<2	<0.03	<0.04	<0.09	E.07	--	--
K 3407. 1	07-31-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	<0.02	--	--
K 3410. 1	06-25-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	<0.02	-43.30	-7.29
K 3414. 1	08-26-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	<0.02	--	--
K 3425. 1	06-25-03	18.0	0.37	<2	E.01	18.5	E.02	1.88	--	--
K 3430. 1	07-01-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	0.47	--	--
					QUEENS COUNTY					
Q 273. 1	09-11-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	<0.02	--	--
Q 277. 1	08-19-03	E.06	E.02	<2	<0.03	<0.04	<0.09	E.03	--	--
Q 470. 1	09-16-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	E.04	--	--
Q 1189. 1	08-13-03	E.07	<0.06	<2	<0.03	E.04	<0.09	<0.02	--	--
Q 1472. 1	08-20-03	3.39	E.02	<2	<0.03	0.24	1.62	0.73	--	--
Q 2418. 1	08-18-03	--	--	--	--	--	--	--	--	--
Q 2419. 1	08-18-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	<0.02	--	--
Q 2420. 1	08-18-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	<0.02	--	--
Q 2791. 1	08-25-03	--	--	--	--	--	--	--	--	--
Q 2814. 1	07-08-03	2.86	<0.06	<2	<0.03	E.06	<0.09	0.11	--	--
Q 2978. 1	08-25-03	--	--	--	--	--	--	--	--	--
Q 2994. 2	08-27-03	E.08	<0.06	<2	<0.03	<0.04	<0.09	18.1	--	--
Q 3036. 1	08-13-03	E.03	<0.06	<2	<0.03	<0.04	<0.09	<0.02	--	--
Q 3112. 1	07-09-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	<0.02	--	--
Q 3117. 1	07-09-03	<0.03	<0.06	M	<0.03	E.08	<0.09	<0.02	--	--
Q 3162. 2	06-12-03	0.16	<0.06	<2	<0.03	E.02	<0.09	E.08	--	--
Q 3587. 1	08-05-03	<0.03	0.31	<2	<0.03	<0.04	<0.09	4.90	--	--
Q 3589. 1	06-09-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	<0.02	--	--
Q 3593. 1	07-30-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	<0.02	--	--
Q 3604. 1	07-30-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	<0.02	--	--
Q 3627. 1	08-12-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	<0.02	--	--
Q 3628. 1	08-12-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	<0.02	--	--
Q 3629. 1	08-12-03	<0.03	<0.06	<2	<0.03	<0.04	<0.09	E.02	--	--
Q 3649. 1	08-05-03	<0.03	0.31	<2	<0.03	<0.04	<0.09	5.34	--	--
Q 3658. 1	09-29-03	E.04	<0.06	<2	<0.03	<0.04	E.08	0.13	--	--
Q 3659. 1	09-29-03	4.71	E.02	<2	<0.03	0.20	<0.09	E.03	--	--
Q 3804. 1	05-27-03	0.55	<0.06	<2	<0.03	0.52	<0.09	0.36	--	--
Q 3806. 1	05-27-03	0.55	E.04	<2	<0.03	0.95	<0.09	0.22	--	--
Q 3815. 1	06-23-03	0.11	1.18	<2	<0.03	E.03	<0.09	0.35	--	--
Q 3816. 1	06-23-03	0.63	<0.06	<2	<0.03	<0.04	<0.09	0.21	--	--
ALLEY CREEK	08-04-03	0.13	<0.06	<2	<0.03	0.50	<0.09	E.08	--	--
ALLEY POND SPRING	09-16-03	<0.03	0.13	<2	<0.03	E.08	<0.09	E.05	--	--
GABBLERS CREEK	08-04-03	0.64	<0.06	<2	<0.03	<0.04	<0.09	E.06	--	--

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES
Manhasset Neck Peninsula Aquifer Study

MULTIPLE STATION ANALYSES

Local identifier	Lat-i-tude	Long-i-tude	Date	Time	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf lab, uS/cm 25 degC (90095)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Chlor-ide, water, fltrd, mg/L (00940)
NASSAU COUNTY										
N 12232. 1	40 50 10 N	073 41 50 W	05-02-03	1145	3.8	6.7	677	671	13.6	165
N 12318. 1	40 51 21 N	073 43 21 W	04-29-03	1120	4.0	7.7	664	668	12.6	161
N 12508. 1	40 49 43 N	073 41 47 W	05-06-03	1110	3.3	5.9	2,740	2,950	13.5	814
N 12522. 1	40 49 43 N	073 39 26 W	05-08-03	0915	6.6	5.9	E24200	25,800	13.5	9,440
N 12793. 1	40 49 21 N	073 41 54 W	05-01-03	1200	6.7	6.4	427	442	13.4	114

MULTIPLE STATION ANALYSES

Local identifier	Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)
NASSAU COUNTY				
N 12232. 1	05-02-03	<0.04	<0.06	<0.02
N 12318. 1	04-29-03	0.07	E.03	0.12
N 12508. 1	05-06-03	<0.04	0.13	<0.02
N 12522. 1	05-08-03	<0.04	0.96	<0.02
N 12793. 1	05-01-03	0.04	0.14	<0.02

Remark codes used in this table:
< -- Less than
E -- Estimated value

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES
New York State Pesticide Monitoring Program

MULTIPLE STATION ANALYSES

Local identifier	Lat-i-tude	Long-i-tude	Date	Time	Depth of well, feet below LSD (72008)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	CEAT, water, fltrd, ug/L (04038)	Atra-zine, water, fltrd, ug/L (39632)
				NASSAU COUNTY						
N 5155. 1	40 42 38 N	073 42 03 W	01-15-03	0830	90.	5.8	117	13.9	--	0.009
	40 42 38 N	073 42 03 W	01-15-03	0831	90.	5.8	117	13.9	M	E.004
	40 42 38 N	073 42 03 W	07-07-03	0900	90.	5.8	210	15.2	--	E.010
	40 42 38 N	073 42 03 W	07-07-03	0901	90.	5.8	210	15.2	M	E.005
	40 42 38 N	073 42 03 W	07-16-03	1100	90.	5.9	218	15.3	E.01	0.009

MULTIPLE STATION ANALYSES

Local identifier	Date	Diel-drin, water, fltrd, ug/L (39381)	Sima-zine, water, fltrd, ug/L (04035)
	NASSAU COUNTY		
N 5155. 1	01-15-03	0.064	0.059
	01-15-03	--	--
	07-07-03	E.067	E.032
	07-07-03	--	--
	07-16-03	0.048	0.027

Remark codes used in this table:
E -- Estimated value
M -- Presence verified, not quantified

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS WATER-QUALITY SITES
Wastewater Compounds in Ground Water, Suffolk County

MULTIPLE STATION ANALYSES

Local identifier	Lat-i-tude	Long-i-tude	Date	Time	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	1,4-Di-chloro-benzene water, fltrd, ug/L (34572)	Meta-laxyl, water, fltrd, ug/L (50359)
SUFFOLK COUNTY										
S 11810. 1	40 50 46 N	073 12 02 W	01-14-03	0910	2.5	6.0	51	10.9	<0.5	<0.5
S 14710. 1	40 45 53 N	072 56 18 W	10-10-02	0940	7.2	5.6	164	11.8	<0.5	<0.5
S 16175. 1	40 45 34 N	073 16 31 W	11-26-02	1005	7.9	5.0	205	12.2	<0.5	<0.5
S 16892. 1	40 49 47 N	072 40 59 W	11-14-02	1025	10.2	5.6	112	11.9	<0.5	<0.5
S 17037. 1	40 49 52 N	072 58 36 W	01-30-03	0945	--	5.7	150	11.6	<0.5	<0.5
S 22362. 1	40 49 57 N	073 17 04 W	11-26-02	0915	9.2	5.9	153	11.3	<0.5	<0.5
S 27070. 1	40 51 34 N	073 23 58 W	12-10-02	0920	--	6.3	118	10.3	<0.5	<0.5
S 29492. 1	40 49 16 N	073 03 32 W	10-29-02	1055	9.4	5.5	176	12.1	<0.5	<0.5
S 30117. 1	40 49 12 N	073 10 01 W	10-29-02	1020	6.4	5.7	186	12.0	M	<0.5
S 31913. 1	40 46 17 N	073 03 55 W	10-01-02	1040	7.9	5.6	216	12.8	<0.5	<0.5
S 37963. 1	40 44 27 N	073 07 32 W	10-01-02	0950	5.1	6.1	58	12.7	<0.5	<0.5
S 52126. 1	40 46 12 N	073 05 50 W	01-06-03	0900	5.0	6.0	211	12.8	M	<0.5
S 53074. 1	40 47 57 N	073 02 44 W	10-10-02	1050	--	5.7	178	11.9	<0.5	<0.5
S 63256. 1	40 49 50 N	073 00 15 W	11-07-02	1025	9.7	5.9	180	11.8	<0.5	E.1
S 66184. 1	40 47 22 N	073 03 05 W	12-10-02	1040	2.2	5.9	70	10.4	<0.5	<0.5
S 69364. 1	40 45 51 N	072 56 16 W	01-23-03	0930	2.2	6.7	104	11.2	<0.5	<0.5
S 73492. 1	40 45 24 N	073 04 48 W	10-01-02	0950	4.4	6.1	49	12.0	<0.5	<0.5
S103519. 1	40 51 27 N	073 07 21 W	01-16-03	0930	6.1	5.5	188	11.7	<0.5	<0.5
S107894. 1	40 47 38 N	072 56 28 W	11-07-02	0945	10.0	5.7	196	12.0	<0.5	<0.5

MULTIPLE STATION ANALYSES

Local identifier	Date	Tetra-chloro-ethene, water, fltrd, ug/L (34476)	Tri-bromo-methane water, fltrd, ug/L (34288)	Tri-phenyl phos-phate, water, fltrd, ug/L (62092)	Tris(2-chloro-ethyl) phos-phate, wat flt ug/L (62087)	Tris(di chloro-i-Pr) phos-phate, wat flt ug/L (62088)
SUFFOLK COUNTY						
S 11810. 1	01-14-03	<0.5	<0.5	<0.5	<0.5	<0.5
S 14710. 1	10-10-02	E.1	<0.5	<0.5	<0.5	<0.5
S 16175. 1	11-26-02	E.1	<0.5	<0.5	<0.5	M
S 16892. 1	11-14-02	M	M	<0.5	<0.5	<0.5
S 17037. 1	01-30-03	<0.5	<0.5	<0.5	<0.5	<0.5
S 22362. 1	11-26-02	E1.7	<0.5	<0.5	<0.5	<0.5
S 27070. 1	12-10-02	E.2	<0.5	<0.5	<0.5	<0.5
S 29492. 1	10-29-02	<0.5	<0.5	<0.5	M	<0.5
S 30117. 1	10-29-02	E.1	<0.5	<0.5	<0.5	<0.5
S 31913. 1	10-01-02	E.2	<0.5	M	<0.5	<0.5
S 37963. 1	10-01-02	<0.5	<0.5	<0.5	<0.5	<0.5
S 52126. 1	01-06-03	E.3	<0.5	<0.5	M	<0.5
S 53074. 1	10-10-02	E.1	<0.5	<0.5	<0.5	<0.5
S 63256. 1	11-07-02	<0.5	<0.5	<0.5	M	<0.5
S 66184. 1	12-10-02	<0.5	<0.5	<0.5	<0.5	<0.5
S 69364. 1	01-23-03	<0.5	E.1	<0.5	<0.5	<0.5
S 73492. 1	10-01-02	<0.5	<0.5	<0.5	<0.5	<0.5
S103519. 1	01-16-03	E.1	<0.5	<0.5	M	<0.5
S107894. 1	11-07-02	<0.5	<0.5	<0.5	M	<0.5

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

Page

Access to USGS water data 26
Accuracy of field data and computed results 15
Accuracy of the records (stage and water-discharge records) 17
Acid neurtalizing capacity, definition of 27
Acre-foot, definition of 27
Adenosine triphosphate, definition of 27
Adjusted discharge, defintion of 27
Algae, definition of 27
Algal growth potential, definition of 27
Alkalinity, definition of 27
Alley Creek, near Oakland Gardens 56-57
Analysis of samples collected at water-quality miscellaneous sites 255-288
Annual runoff, definition of 27
Annual 7-day minimum, definition of 27
Apaquogue, Georgica Pond near 73-74
Aroclor, definition of 27
Arrangement of records (water quality) 17
Artificial substrate, definition of 27
Ash mass, definition of 27
Aspect, definition of 27
Atlantic Beach, East Rockway Inlet at 108-112

Babylon, Carlls River at 88-89
Sampawams Creek at 86-87
Bacteria, definition of 27
Bankfull stage,definition of 27
Base discharge, definition of 28
Base flow, definition of 28
Bed load, definition of 28
Bed load discharge, definition of 28
Bed material, definition of 28
Benthic organisms, definition of 28
Big Fresh Pond, near North sea 66, 266-270
Big Fresh Pond Outlet, at North Sea 127
Biochemical oxygen demand, definition of 28
Biomass, definition of 28
Biomass pigment ratio, definition of 28
Blank samples, (water quality) 20
Blue-green algae, definition of 28
Bottom material, definition of 28
Bulk electrical conductivity, definition of 28

Calendar (2003 water year) ..... inside of front cover
Canadian Geodetic Vertical Datum 1928, defintion of 28
Carlls River, at Babylon 88-89
Carmans River, at Yaphank 76-77
Cells/volume, definition of 28
Cell volume, definition of 28
Central Islip, Connetquot Brook at 80-81
Connetquot Brook near 82-83
Cfs-day, definition of 28
Channel bars, definition of 29
Chemical oxygen demand, definition of 29
Chlorophyll, definition of 29
Classification of records (water quality) 16

Page

Clostridium perfringens, definition of 29
Cold Spring Brook, at Cold Spring Harbor 60-61
Coliphages, definition of 29
Collection and examination of data (water-quality records) 15
Color unit, definition of 29
Confined aquifer, definition of 29
Connetquot Brook, at Central Islip 80-81
near Central Islip 82-83
Connetquot River, near Oakdale 84-85
Conselyeas Pond Tributary, at Rosedale 115-116
Contents, definition of 29
Continuous-record station, definition of 29
Control, definition of 29
Control structure, definition of 29
Cooperation 1
Cubic foot per second, definition of 29
Cubic foot per second-day, definition of 29
Cubic feet per second per square mile, definition of 29

Daily mean suspended-sediment concentration, definition of 29
Daily-record station, definition of 29
Data collection and computation
(ground-water levels) 22-23
(ground-water quality) 24
(stage and water discharge) 9-10
Data collection platform, definition of 29
Data logger, definition of 29
Data presentation
(ground-water levels) 23-24
(stage and water discharge) 10-14
(surface-water quality) 18-20
Datum, definition of 29
Definition of terms 27-41
Diatoms, definition of 29
Diel, definition of 30
Discharge, definition of 30
Discontinued surface-water discharge stations ix
Discontinued low-flow partial record stations ..... ix-xi
Dissolved, definition of 30
Dissolved oxygen, definition of 30
Dissolved-solids concentration, definition of 30
Diversity index, definition of 30
Downstream order and station numbers 7
Drainage area, definition of 30
Drainage basin, definition of 30
Dry mass, definition of 30
Dry weight, definition of 30

East Patchogue, Swan River at 78-79
East Rockaway Inlet, at Atlantic Beach 108-112
Embeddedness, definition of 30
Enterococcus bacteria, definition of 30
EPT Index, definition of 30
Escherichia, definition of 31
Estimated (E) value, definition of 31
Euglenoids, definition of 31

Page

Extractable organic halides, definition of..... 31

Fecal coliform bacteria, definition of..... 31
Fecal streptococcal bacteria, definition of..... 31
Fire algae, definition of..... 31
Flow-duration percentiles, definition of..... 31
Floyd Bennett Field, Rockaway Inlet near.....122-126
Fort Pond, at Montauk..... 70, 266-270
Freeport, Hudson Bay at 95-100
Fresh Pond Tributary, at Barnes Hole 127

Gabblers Creek, at Little Neck..... 58-59
Gage datum, definition of..... 31
Gage height, definition of..... 31
Gage values, definition of 31
Gaging station, definition of..... 31
Gaging station records 56-127
Gaging stations, List of, in downstream order viii
Gas chromatography/flame ionization detector, definition of 31
Georgica Pond, at Midhampton 71-72
Georgica Pond, near Apaquoque..... 73-74
Georgica Pond Tributary No. 1, at Midhampton..... 127
Georgica Pond Tributary No. 2, at Midhampton..... 127
Geomorphic channel units 31
Great South Bay, at Lindenhurst 90-94
Green algae, definition of..... 32
Ground water, level data..... 128-250
quality of 251-254, 271-288
Ground-water levels, explanation of records 22-24
Ground-water quality, explanation..... 24

Habitat, definition of 32
Habitat quality index, definition of 32
Hardness, definition of..... 32
Hempstead Lake, at Hempstead..... 107
High tide, definition of..... 32
Hilsenhoff's Biotic Index, definition of 32
Hook Pond, at East Hampton..... 266-270
Hook Pond Tributary, at East Hampton 127
Horizontal datum, definition of..... 32
Hudson Bay, at Freeport.....95-100
Hydrograph, Connetquot Brook near Central Islip... 3
Nissequogue River near Smithtown 4
Well N1259 at Plainedge..... 6
Well S4271 at Riverhead..... 5
Hydrologic bench-mark network, definition of..... 8
Hydrologic index station, definition of 32
Hydrologic unit, definition of..... 32

Identifying estimated daily discharge 14
Inch (IN., in.), definition of..... 32
Inch-pound units to
International System units (SI), inside of
Factors for converting.....back cover
Instantaneous discharge, definition of..... 32
Introduction..... 1

Page

Island, definition of..... 32

Jamaica Bay, at Inwood 117-121
Kings County, ground-water levels in.....128-143, 247
quality of ground and surface water in 271-285

Laboratory measurements (ground-water-quality)..... 24
Laboratory measurements (surface-water-quality)..... 18
Laboratory Reporting Level, definition of..... 32
Land-surface datum, definition of..... 32
Latent heat flux, definition of..... 32
Latitude-longitude system, station identification numbers..... 7
Light-attenuation coefficient, definition of 32
Ligonee Brook, at Sag Harbor 127
Lindenhurst, Great South Bay at 90-94
Little Neck, Gabblers Creek at 58-59
Lipid, definition of 33
Location of data collection stations (maps) 47-55
Long Pond, near Sag Harbor..... 68-69, 266-270
Long-Term Method Detection Level, definition of... 33
Low-flow partial-record stations, discharge at..... 127
Low tide, definition of..... 33

Macrophytes, definition of..... 33
Mean concentration (sediment), definition of..... 33
Mean discharge, definition of 33
Mean high or low tide, definition of 33
Mean sea level, definition of..... 33
Measuring point, definition of 33
Megahertz, definition of 33
Membrane filter, definition of..... 33
Metamorphic stage, definition of..... 33
Method detection limit (MDL), definition of..... 33
Method of Cubatures, definition of 33
Methylene blue active substance, definition of..... 33
Micrograms per gram, definition of..... 33
Micrograms per kilogram, definition of..... 33
Micrograms per liter, definition of..... 33
Microsiemens per centimeter, definition of 34
Midhampton, Georgica Pond at 71-72
Mill Creek,at Noyack..... 127
Mill Creek, at Water Mill..... 127
Milligrams per liter, definition of..... 34
Mill Pond, at Water Mill 75, 266-270
Minimum reporting level, definition of..... 34
Miscellaneous site,definition of 34
Montauk, Fort Pond at 70
Most probable number, definition of..... 34
Multiple-plate samplers, definition of..... 34

Nanograms per liter, definition of..... 34
Nassau County, ground-water levels in.....144-168, 247
quality of ground water in 251-252, 286

	Page
National deposition program/national trends network, definition of	8
National Geodetic Vertical Datum of 1929, definition of	34
National stream-quality accounting network, definition of	8
National water-quality assessment program (NAWQA), definition of	8
Natural substrates, definition of	34
Nekton, definition of	34
Nephelometric turbidity unit, definition of	34
Nissequogue River, near Smithtown	62-63
North American Datum of 1927, defintion of	34
North American Datum of 1983, definition of	34
North American Vertical datum of 1988, definition of	34
North Sea, Big Fresh Pond at	66
Noyack, Trout Pond at	67
Numbering system for wells	7
Oakdale, Connetquot River near	84-85
Oakland Gardens, Alley Creek near	56-57
On-site measurements and sample collection (water quality)	17
Open or screened interval, definition of	34
Organic carbon, definition of	34
Organic mass, definition of	34
Organism, definition of	34
Organism count/area, definition of	34
Organism count/volume, definition of	35
Organochlorine compounds, definition of	35
Other data records available (stage and water-discharge records)	15
Parameter code, definition of	35
Partial-record station, definition of	35
Partial-record stations and miscellaneous sites, discharge at	127
Particle-size, definition of	35
Particle-size classification, definition of	35
Peak flow (peak stage), definition of	35
Peconic River, at Riverhead	64-65
Percent composition, definition of	35
Percent shading, definition of	35
Periodic-record station, definition of	35
Periphyton, definition of	35
Pesticides, definition of	35
pH, definition of	35
Phytoplankton, definition of	35
Picocurie, definition of	36
Plankton, definition of	36
Point Lookout, Reynolds Channel at	101-106
Polychlorinated biphenyls, definition of	36
Polychlorinated napthalenes, definition of	36
Pool, definition of	36
Poxabogue Pond Outlet, at Sagaponack	127
Preface	iv
Primary productivity, definition of	36
Primary productivity (carbon method), definition of	36
Primary productivity (oxygen method), definition of	36
Publications on techniques of water-resources investigations	42-46
Queens County, ground-water levels in	169-200, 247
quality of ground and surface water in	271-285
Radiochemical programs, definition of	8
Radioisotopes, definition of	36
Reach, definition of	36
Records, Explanation of	9-24
(ground-water level)	22-24
(ground-water quality)	15-16
(stage and water discharge)	9-15
Recoverable from bottom material, definition of	36
Recurrence interval, definition of	36
Reference samples (water-quality)	21
Remark codes (water quality)	20
Replicate samples, definition of	37
Replicate samples (water quality)	21
Return period, definition of	37
Revisions (water quality)	19
Reynolds Channel, at Point Lookout	101-106
Riffle, definition of	37
Riverhead, Peconic River at	64-65
River mileage, definition of	37
Rockaway Inlet, near Floyd Bennett Field	122-126
Rosedale, Conselyeas Pond Tributary at	115-116
Run, definition of	37
Runoff, definition of	37
Sag Harbor, Long Pond near	68-69
Sampawams Creek, at Babylon	86-87
Sea level, definition of	37
Sediment	18
Sediment, definition of	37
Selected recent U.S. Geological Survey publications relevant to Long Island, New York	24-26
Sensible heat flux, definition of	37
Seven-day, 10-year low flow, definition of	37
Shelves, definition of	37
Site identification numbers	22
Smithtown, Nissequogue River near	62-63
Sodium adsorption rate, definition of	37
Soil heat flux, definition of	37
Soil-water content, definition of	37

	Page
Special networks and programs	8
Specific electrical conductance, definition of	37
Spike samples (water-quality)	22
Stable isotope ratio, definition of	37
Stage, definition of	38
Stage and water-discharge records, explanation of	9-15
Stage-discharge relation, definition of	38
Streamflow, definition of	38
Substrate, definition of	38
Substrate Embeddedness Class, definition of	38
Suffolk County, ground-water levels in	201-246, 247-250
quality of ground water in	253-254, 288
quality of surface water in	264-270
Summary of hydrologic conditions	2
Surface area of a lake, definition of	38
Surface-water quality	264-285
Surface-water quality, explanation of records	16-22
Surface-water stations	viii
Surficial bed material, definition of	38
Suspended, definition of	38
Suspended, recoverable, definition of	38
Suspended sediment, definition of	38
Suspended-sediment concentration, definition of	38
Suspended-sediment discharge, definition of	38
Suspended-sediment load, definition of	38
Suspended solids, total residue, definition of	38
Suspended, total, definition of	38
Swan River, at East Patchogue	78-79
Synoptic studies, definition of	39
Tanbark Creek, at Three Mile Harbor	127
Taxa richness, definition of	39
Taxonomy, definition of	39
Thalweg, definition of	39
Thermograph, definition of	39
Time-weighted average, definition of	39
Tons per acre-foot, definition of	39
Tons per day, definition of	39
Total (as used in tables of chemical analyses), definition of	39
Total coliform bacteria, definition of	39
Total discharge, definition of	39
Total in bottom material, definition of	39
Total length, definition of	40
Total load, definition of	40
Total organism count, definition of	40
Total, recoverable, definition of	40
Total sediment discharge, definition of	40
Total sediment load, definition of	40
Transect, definition of	40
Trout Pond, at Noyack	67, 266-270
Turbidity, definition of	40
Ultraviolet (UV) absorbance, definition of	40
Unconfined aquifer, definition of	40
Valley Stream, at Valley Stream	113-114
Vertical datum, definition of	40
Volatile organic compounds, definition of	40
Water analysis (of water-quality records)	16
Water-discharge records, explanation of (see Stage and water-discharge records, explanation of)	9
Water Mill, Mill Pond at	75
Water table, definition of	40
Water-table aquifer, definition of	40
Water temperatures	17
Water-quality control data	20
Water-quality records, explanation	16-22
Water year, definition of	40
Watershed, definition of	40
WDR, definition of	40
Weighted average, definition of	41
Wells, system for numbering	7
Wet mass, definition of	41
Wet weight, definition of	41
WSP, definition of	41
Yaphank, Carmans River at	76-77
Zooplankton, definition of	41

CALENDAR FOR WATER YEAR 2003

2002

OCTOBER

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

NOVEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

DECEMBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

2003

JANUARY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

FEBRUARY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

MARCH

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

APRIL

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

MAY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

JUNE

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

JULY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

AUGUST

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

SEPTEMBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Conversion Factors

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter (mm)
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^{0}	kilometer (km)
	Area	
acre	4.047×10^{3}	square meter (m^2)
	4.047×10^{-1}	square hectometer (hm^2)
	4.047×10^{-3}	square kilometer (km^2)
square mile (mi^2)	2.590×10^{0}	square kilometer (km^2)
	Volume	
gallon (gal)	3.785×10^{0}	liter (L)
	3.785×10^{-3}	cubic meter (m^3)
	3.785×10^{0}	cubic decimeter (dm^3)
million gallons (Mgal)	3.785×10^{3}	cubic meter (m^3)
	3.785×10^{-3}	cubic hectometer (hm^3)
cubic foot (ft^3)	2.832×10^{-2}	cubic meter (m^3)
	2.832×10^{1}	cubic decimeter (dm^3)
cubic-foot-per-second-per-day [(ft^3/s/d]	2.447×10^{3}	cubic meter (m^3)
	2.447×10^{-3}	cubic hectometer (hm^3)
acre-foot (acre-ft)	1.223×10^{3}	cubic meter (m^3)
	1.223×10^{-3}	cubic hectometer (hm^3)
	1.223×10^{-6}	cubic kilometer (km^3)
	Flow rate	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter (L/s)
	2.832×10^{-2}	cubic meter per second (m^3/s)
	2.832×10^{1}	cubic decimeter per second (dm^3/s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m^3/s)
	6.309×10^{-2}	cubic decimeter per second (dm^3/s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second
	4.381×10^{1}	cubic decimeter per second (dm^3/s)
	Mass	
ton, short (2,000 lb)	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$°F = (1.8 \times °C) + 32$$