Water Resources Data for New York

Water Year 1977

Volume 2. Long Island

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-77-2

Prepared in cooperation with the State of New York
and with other agencies

CALENDAR FOR WATER YEAR 1977

1976

OCTOBER

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1977

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AUGUST

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SEPTEMBER

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Water Resources Data for New York

Water Year 1977

Volume 2. Long Island

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-77-2

Prepared in cooperation with the State of New York and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

W. A. Radlinski, Acting Director

For information on the water program in New York write to
District Chief, Water Resources Division
U.S. Geological Survey
U.S. Post Office and Courthouse
P.O. Box 1350
Albany, New York 12201

or

For information on the water program in Long Island write to
Hydrologist-in-Charge, Long Island Program
Water Resources Division
U.S. Geological Survey
5 Aerial Way
Syosset, New York 11791

1978

PREFACE

This report was prepared by personnel of the New York district of the Water Resources Division of the U.S. Geological Survey under the supervision of R. J. Dingman, District Chief, and J. T. Callahan, Regional Hydrologist, succeeded by F. T. Schaefer, Acting Regional Hydrologist, Northeast Region. It was done in cooperation with the State of New York and with other agencies.

This report is one of a series issued by State. General direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, U.S. Geological Survey, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

Data for New York are in two volumes as follows:

Volume 1. New York excluding Long Island
Volume 2. Long Island

BIBLIOGRAPHIC DATA SHEET	1. Report No. USGS/WRD/HD-78/008	2.	3. Recipient's Accession No.
4. Title and Subtitle Water Resources Data for New York, Water Year 1977 Volume 2. Long Island			5. Report Date March 1978 6.
7. Author(s)			8. Performing Organization Rept. No. USGS-WDR-77-2
9. Performing Organization Name and Address U.S. Geological Survey, Water Resources Division U.S. Post Office and Courthouse P.O. Box 1350 Albany, New York 12201			10. Project/Task/Work Unit No. 11. Contract/Grant No.
12. Sponsoring Organization Name and Address U.S. Geological Survey, Water Resources Division U.S. Post Office and Courthouse P.O. Box 1350 Albany, New York 12201			13. Type of Report & Period Covered Annual - Oct. 1, 1976 to Sept. 30, 1977 14.

15. Supplementary Notes
Prepared in cooperation with the State of New York and with other agencies.

16. Abstracts

Water resources data for the 1977 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; water quality of precipitation; and water levels and water quality of ground water. This report (Volume 2) contains discharge records for 15 gaging stations; water quality for 13 gaging stations, 4 partial-record stations, 78 wells, and 2 precipitation stations; and water levels for 117 observation wells. Also included are 93 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. These data represent that part of the National Water Data System collected by the U.S. Geological Survey in cooperation with State, Federal, and other agencies in New York.

17. Key Words and Document Analysis. 17a. Descriptors

*New York, *Hydrologic data, *Surface waters, *Groundwater, *Water quality, Flow rates, Gaging stations, Chemical analysis, Sediments, Water temperature, Water levels, Water analysis

17b. Identifiers/Open-Ended Terms
Sampling sites

17c. COSATI Field/Group

18. Availability Statement	19. Security Class (This Report)	21. No. of Pages
No restriction on distribution This report may be purchased from: National Technical Information Service Springfield, VA 22161	UNCLASSIFIED	150
	20. Security Class (This Page) UNCLASSIFIED	22. Price

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[*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*]

WATER RESOURCES DATA FOR NEW YORK, 1977
Volume 2.--Long Island

INTRODUCTION

Water resources data for the 1977 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; water quality of precipitation; and water levels and water quality of ground water. This report (Volume 2) contains discharge records for 15 gaging stations; water quality for 13 gaging stations, 4 partial-record stations, 78 wells, and 2 precipitation stations; and water levels for 117 observation wells. Also included are 93 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. These data represent that part of the National Water Data System collected by the U.S. Geological Survey in cooperation with State, Federal, and other agencies in New York.

Records of discharge or 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 Branch of Distribution, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released in separate reports. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an indentification number consisting of the two letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report (Volume 2) is identified as "U.S. Geological Survey Water-Data Report NY-77-2." (Volume 1.--New York excluding Long Island, is identified as "U.S. Geological Survey Water-Data Report NY-77-1.") Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

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

New York State Department of Environmental Conservation, Peter A. A. Berle, commissioner.
County of Nassau, Department of Public Works, M. R. Pender, commissioner.
County of Suffolk, Department of Environmental Control, J. M. Flynn, commissioner.
County of Suffolk, Water Authority, R. J. Flynn, chairman.

The following organizations aided in collecting records:

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

ACKNOWLEDGMENT

Preparation of the Long Island volume of the New York Water Resources Data Report was supervised by Anthony G. Spinello. Others who contributed significantly were James G. Carcaci, James H. Nakao, Juli B. Lindner, Stephanie A. Boyd, and Elizabeth A. Montano.

HYDROLOGIC CONDITIONS

As the water year began, streamflow at gaging stations and water levels in observation wells were near average. However, below average precipitation for the period October through July resulted in deficient streamflow and below average water levels for much of the year. Above average precipitation during August and September caused increased streamflow and a rise in water levels near the end of the water year. This resulted in near average streamflow at the end of the water year, although ground-water levels remained significantly lower than September 1976.

The most severe storm event occurred in March and caused the maximum daily discharge for the 1977 water year in most Long Island streams. Generally, streamflow throughout Long Island was below average during the water year, reaching maximum monthly mean discharge at most stations in March and April, and minimum monthly mean discharge during the months of July and August.

The chemical quality of precipitation and ground water showed no significant changes.

Ground-water levels for the water year were below average and showed an unusual pattern of annual fluctuations with maximum water levels occurring in October and lower levels occurring in the normally high months of February and March.

Hydrographs of daily discharge for two representative streams are shown in figures 2 and 3 and hydrographs of water levels for two representative wells are shown in figure 4.

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting U.S. Customary units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-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.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

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 as stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, 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.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or faculative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms which produce colonies within 24 hours when incubated at 35°C ± 1.0°C on M-Endo median (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 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.

Fecal streptococcal bacteria are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on KF Streptococcus agar (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

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 the mass per unit area or volume of habitat.

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

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, 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.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which 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, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

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 natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

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

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.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, 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 salt water.

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

Cubic foot per second (FT^3/S, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

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

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to the amount of substance present in true chemical solution. In practice, however, the term includes all forms of substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (coloidal) suspended particles. Analyses are performed on filtered samples.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

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

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

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

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.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram (µg/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

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

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

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 meters (m^2), acres, or hectares. 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 milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) 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 used in this report agrees with recommendations 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.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material 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.

Percent composition 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, mass or volume.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 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.

Phytoplankton is the plant part of the plankton. They are usually 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 are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green-algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often 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.

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.

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 by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg C/(m^2·time) for periphyton and macrophytes and mg C/(m^3·time)] for phytoplankton are units for expressing primary productivity. They define 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 in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O_2/(m^2·time) for periphyton and macrophytes and mg O_2/(m^3·time)] for phytoplankton are the units for expressing primary productivity. They define 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.

Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment in solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it 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 influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

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 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended sediment load is the quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). 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.

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

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 lived.

Natural substrates refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lived.

Artificial substrate is a device which is purposely 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 taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as a boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

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

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45-micrometer filter.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical 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.....Arthropoda
Class.....Insecta
Order.....Ephemeroptera
Family.....Ephemeridae
Genus.....Hexageria
Species.....Hexagenia limbata

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 that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

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.

WRD is used as an abbreviation for "Water Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1976.

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

DOWNSTREAM ORDER AND STATION NUMBERS

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a 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 that enters between two main-stream stations is listed between them. 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 situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station, partial-record station, and miscellaneous site has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations, miscellaneous sites, and other stations; therefore, the station number for a partial-record station or a miscellaneous site indicates downstream-order position in a list made up of all types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 01300500 includes the 2-digit part number "01" plus the 6-digit downstream order number "300500". (In a few instances where no gaps were left in the 8-digit numbering sequence it was necessary to add one or two digits for identification; hence, there are a few stations or miscellaneous sites with 9- or 10-digit numbers.) (If random water-quality samples are taken at a miscellaneous site where a 9- or a 10-digit downstream order identification number is used, that site is assigned a latitude-longitude number.)

NUMBERING SYSTEM FOR WELLS

The 8-digit downstream order station numbers are not assigned to wells. The well-numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well 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, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells within a 1-second grid. See figure 1 below.

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.

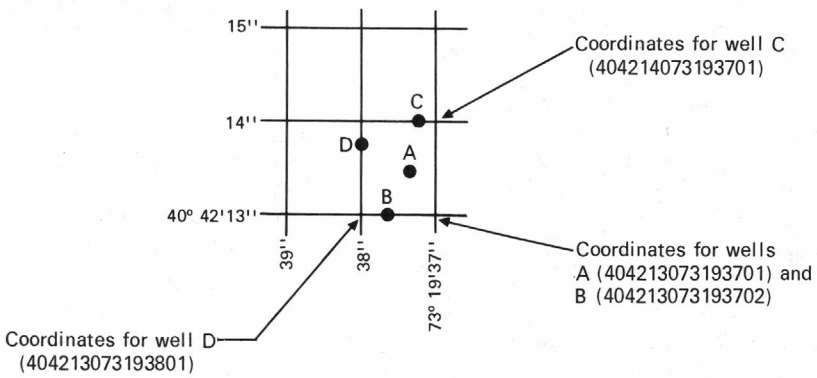

Figure 1. System for numbering wells (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consulation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents 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 either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or 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 figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, 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 in 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 control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This 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 set at some distance from the

base gage. At some stations the 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 the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. 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 for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the 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 change in contents is 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 gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, 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 for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with "EXTREMES FOR THE CURRENT YEAR"; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

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 is a table of discharge measurements at low-flow partial-record stations, and the second is

a table of annual maximum stage and discharge at crest-stage 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. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

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 station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures 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 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 figure. The same rounding rules apply to discharge figures 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, figures 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 Available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most 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.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Where surface-water samples for analyses are collected at or near 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, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

The descriptive heading for precipitation-quality records gives period of record, description of equipment, and general remarks.

Water Analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

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 through several vertical sections 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, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water Temperatures

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at 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 and/or maximum and minimum temperatures for each day are published.

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 sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been 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 loads 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 were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent

conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

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

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of Data

Only ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

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 provided for local needs. See figure 1.

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.

Water-level measurements in this report are given in feet with reference to mean sea level. Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean 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 to 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 to a tenth of a foot.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material 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) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office). Prices are subject to change.

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

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, Chapter D1. 1975. 65 pages. $1.60.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents,* by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages. $0.85.

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, Chapter D1. 1974. 116 pages. $1.90.

2-E1. *Application of borehole geophysics to water-resources investigations,* by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. $1.75.

3-A1. *General field and office procedures for indirect discharge measurements,* by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. $1.00.

3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. $0.20.

3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. $0.40.

3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H.F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. $0.35.

3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. $0.30.

3-A6. *General procedure for gaging streams,* by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages. $0.20.

3-A7. *Stage measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. $0.45.

3-A8. *Discharge measurements at gaging stations,* T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. $1.25.

3-A11. *Measurement of discharge by moving-boat method,* G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. $1.20.

3-A12. *Fluorometric procedures for dye tracing,* by J. F. Wilson Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. $0.35. Not currently available.

3-B1. *Aquifer-test design, observation, and data analysis,* by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. $0.70.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages. $2.50.

3-C1. *Fluvial sediment concepts,* by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. $0.65.

3-C2. *Field methods for measurement of fluvial sediment,* by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages. $2.50.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. $1.15.

4-A1. *Some statistical tools in hydrology,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. $0.30.

4-A2. *Frequency curves,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. $0.20.

4-B1. *Low-flow investigations,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. $0.65.

4-B2. *Storage analyses for water supply,* by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. $0.75.

4-B3. *Regional analyses of streamflow characteristics,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. $0.65.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

4-D1. *Computation of rate and volume of stream depletion by wells,* by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. $0.65.

5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases,* by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. $2.40.

5-A2. *Determination of minor elements in water by emission spectroscopy,* by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. $0.80.

5-A3. *Methods for analysis of organic substances in water,* by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. $0.90.

5-A4.* *Methods for collection and analysis of aquatic biological and microbiological samples,* edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages. $30.00.

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, Chapter A5. 1977. 95 pages. $16.00.

5-C1. *Laboratory theory and methods for sediment analysis,* by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. $0.65.

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, Chapter C1. 1976. 116 pages. $2.30.

8-A1. *Methods of measuring water levels in deep wells,* by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages. $0.70.

8-B2. *Calibration and maintenance of vertical-axis type current meters,* by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. $0.40.

*These publications are available ONLY from Superintendent of Documents, Government Printing Office, Washington, D. C. 20402. They are in looseleaf format and are subscription items. Additional supplements will be issued to subscribers at no extra cost. Checks should be made payable to Superintendent of Documents. Requester should emphasize to Superintendent of Documents that this is a subscription item.

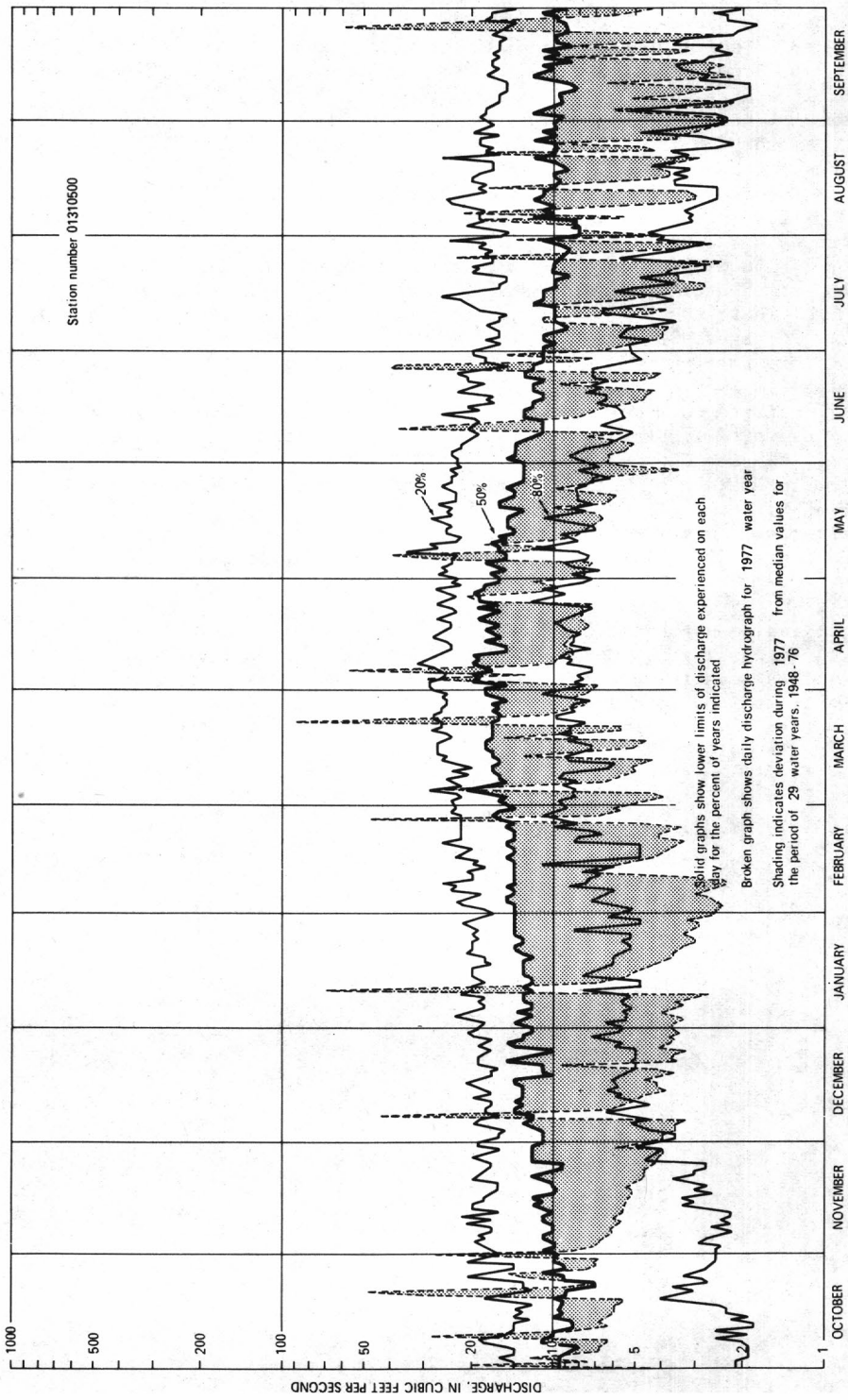

Figure 2.--Hydrographic Comparisons, East Meadow Brook at Freeport.

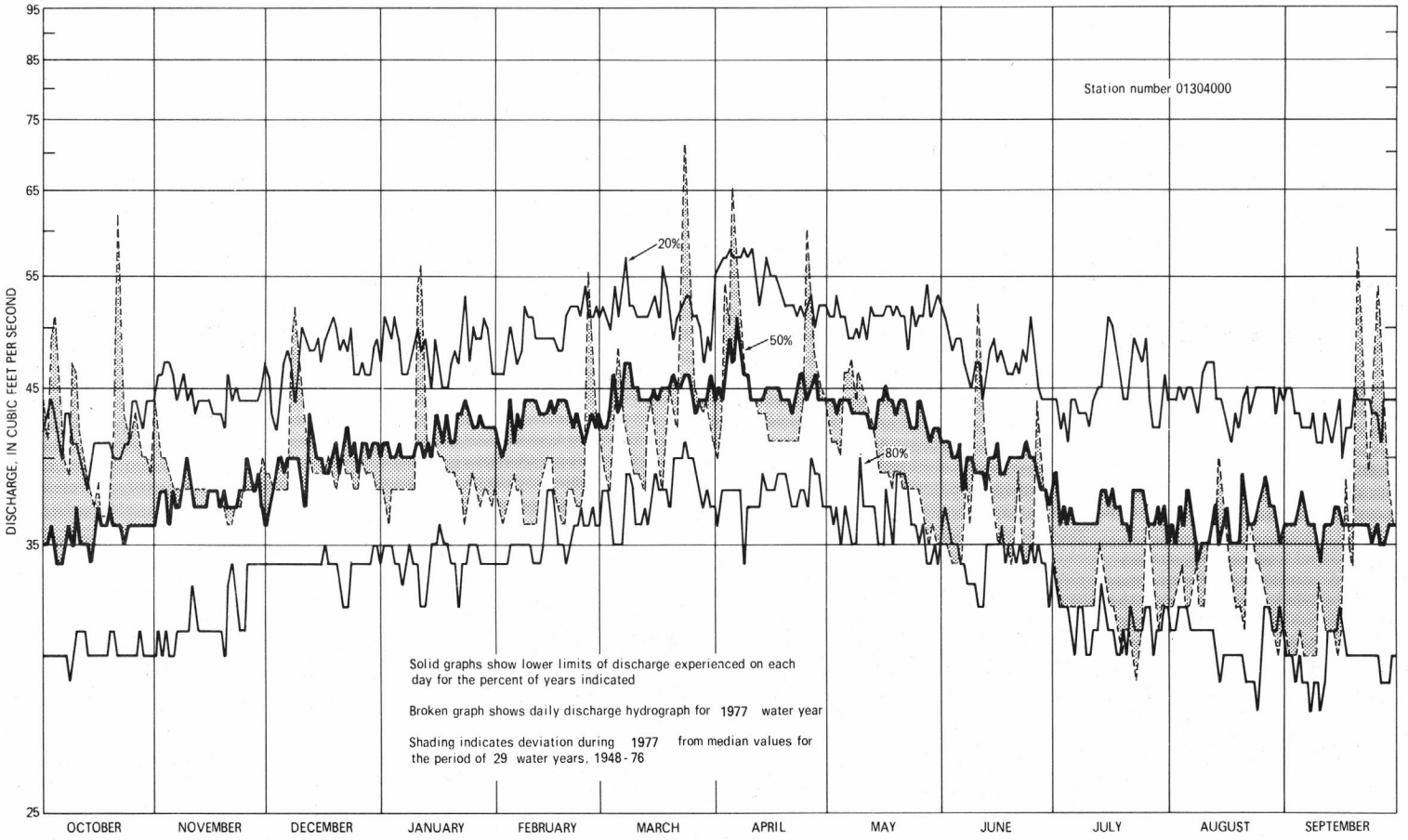

Figure 3.--Hydrographic Comparisons, Nissequogue River near Smithtown.

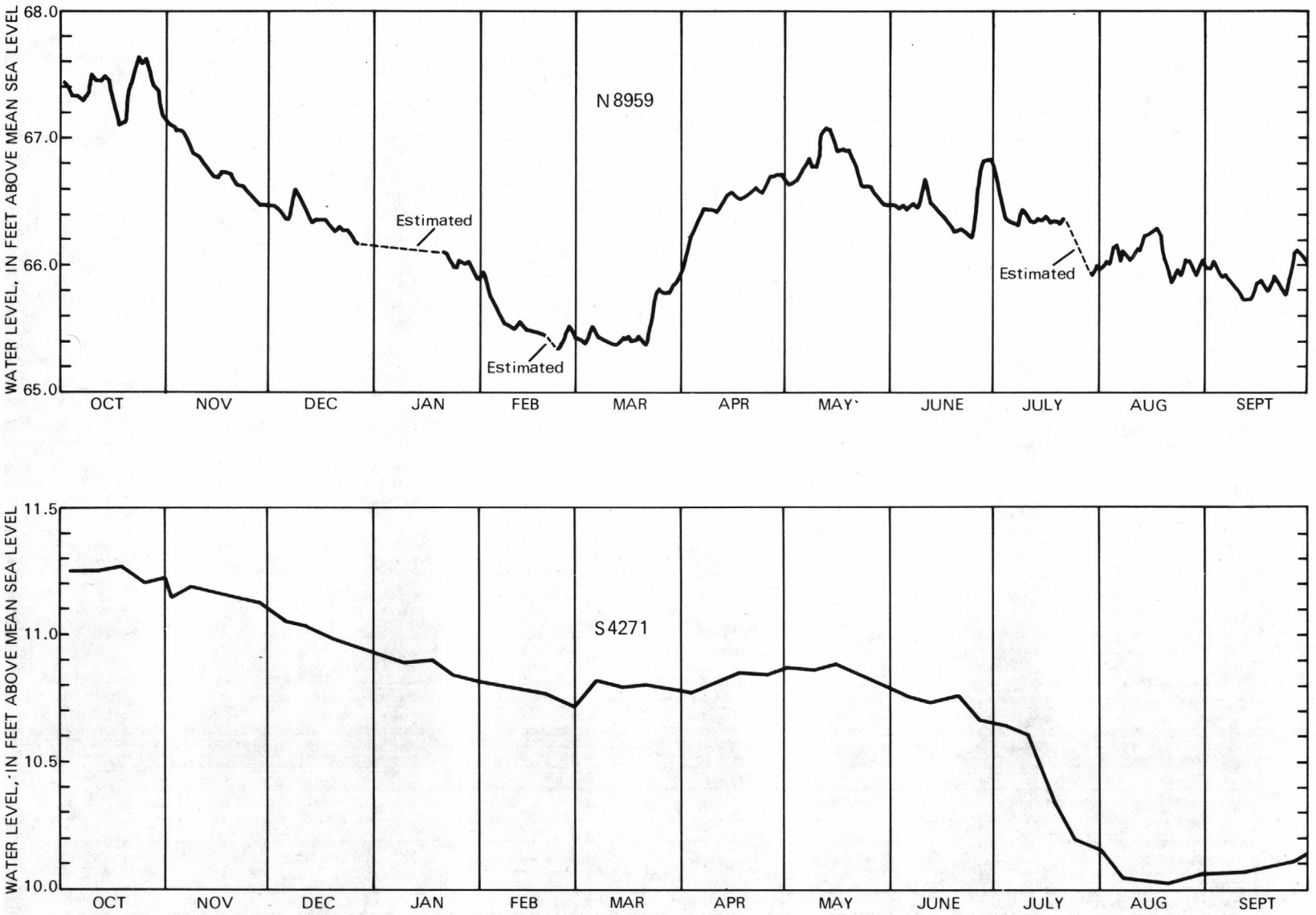

Figure 4.--Hydrographs of water-table well N8959 at East Meadow and water-table well S4271 at Riverhead.

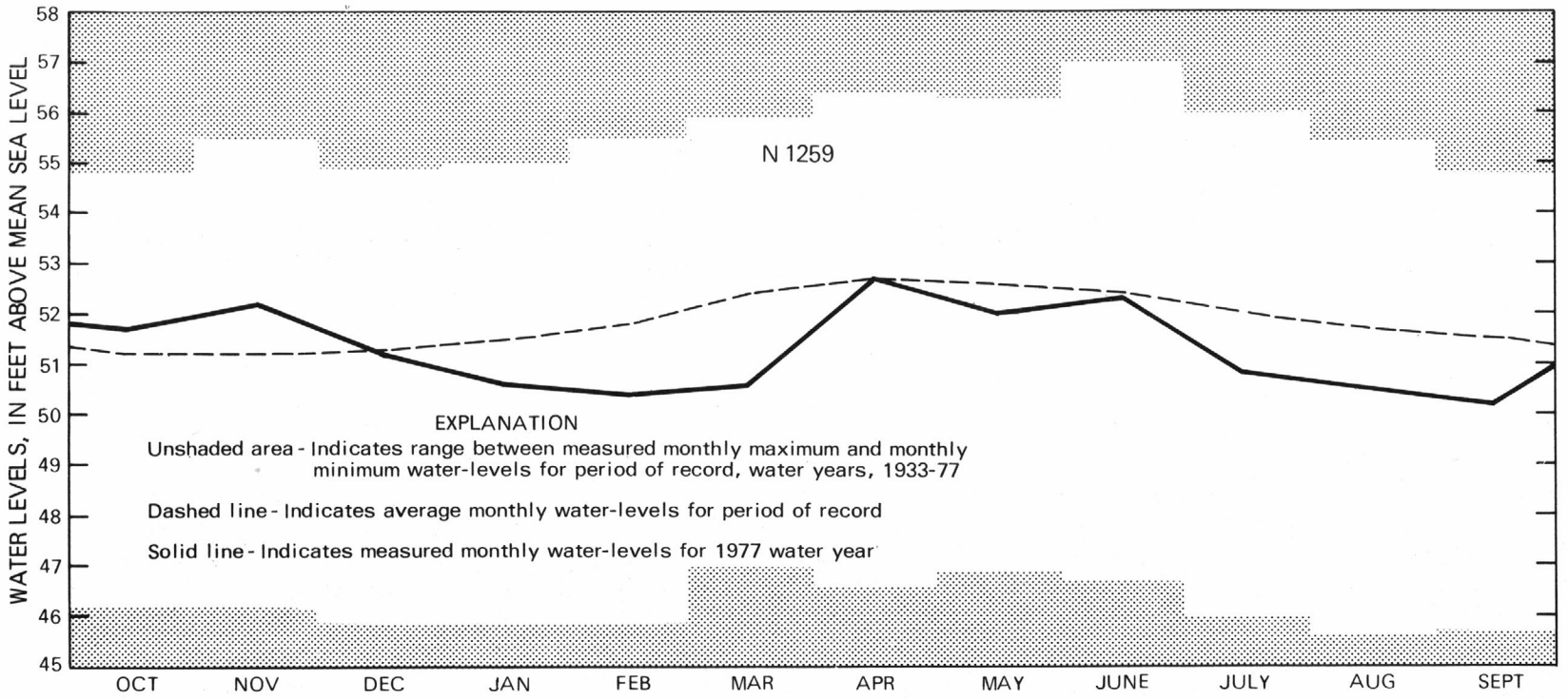

Figure 5.--Hydrograph of water-table observation well N1259 at Plainedge.

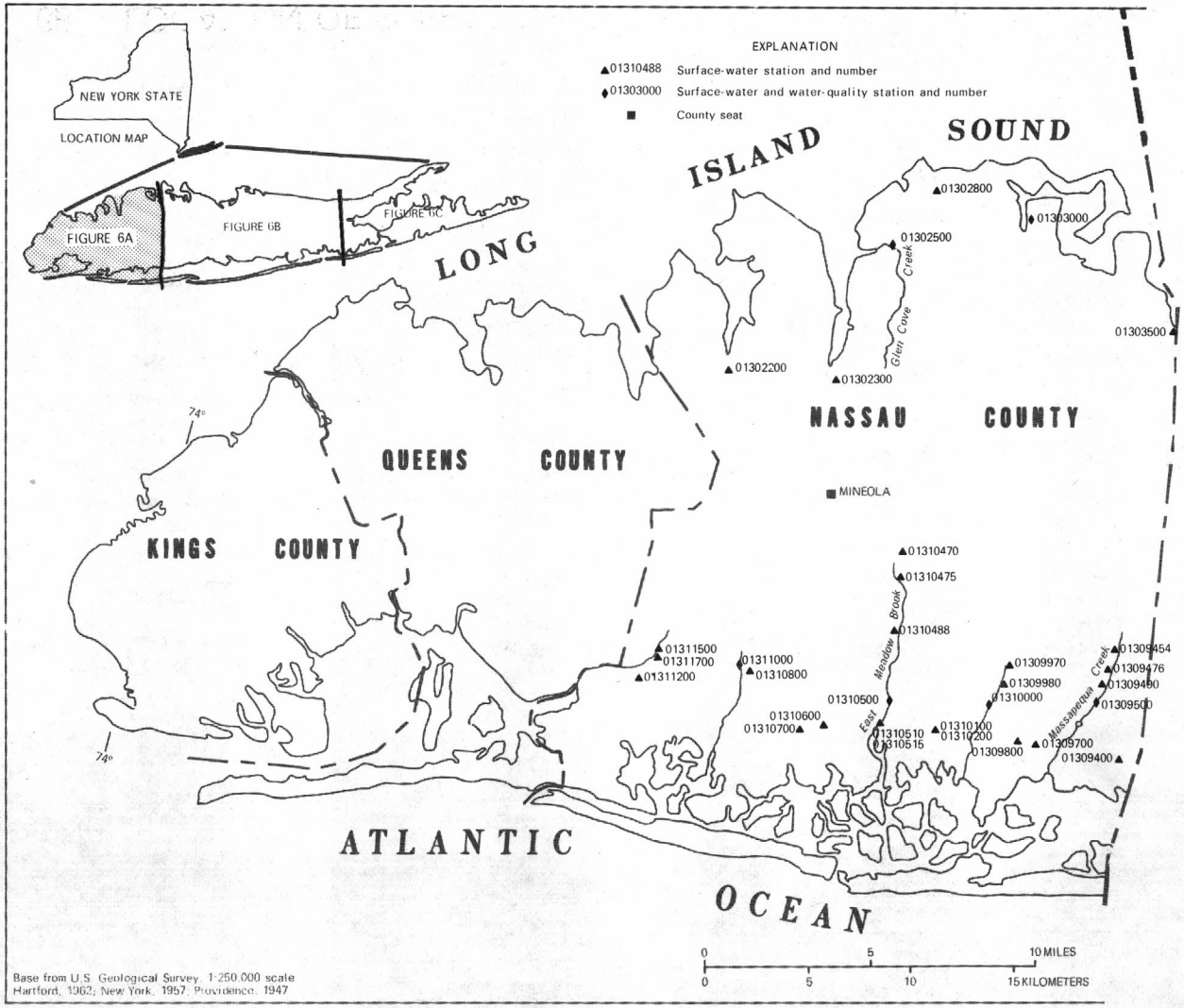

FIGURE 6A.-- LOCATION OF SURFACE-WATER DATA COLLECTION STATIONS

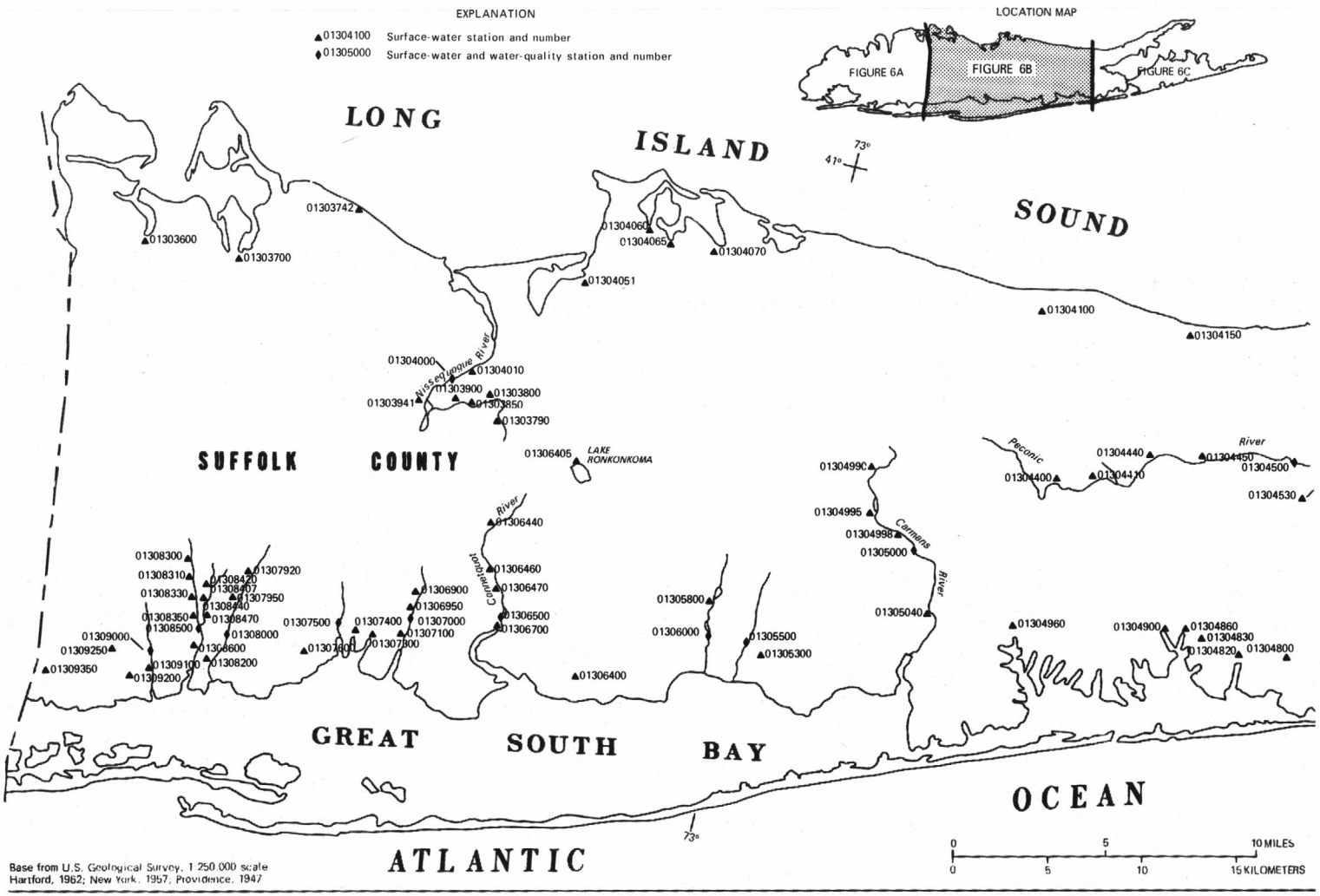

FIGURE 6B.-- LOCATION OF SURFACE-WATER DATA COLLECTION STATIONS

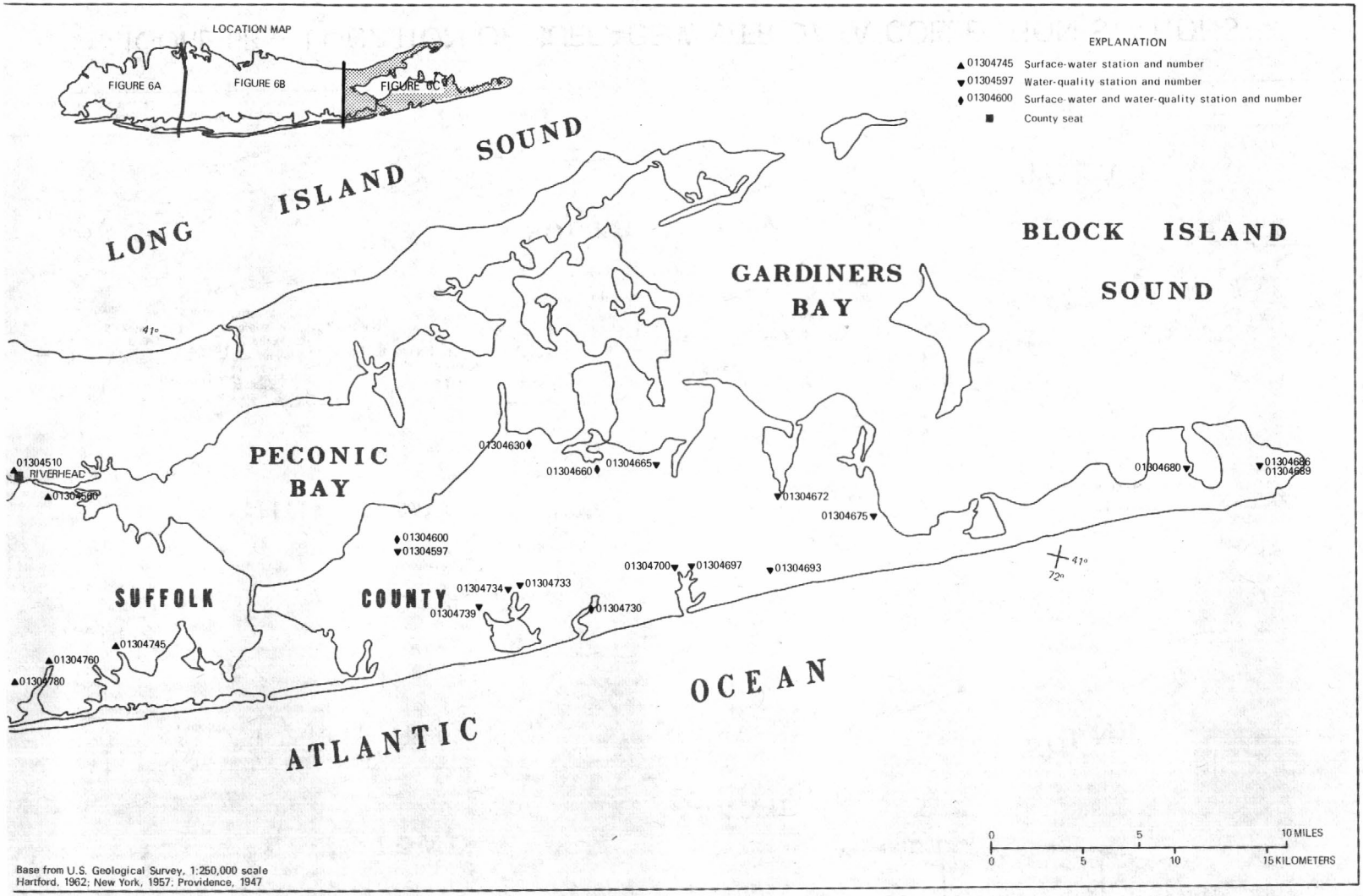

FIGURE 6C.-- LOCATION OF SURFACE-WATER DATA COLLECTION STATIONS

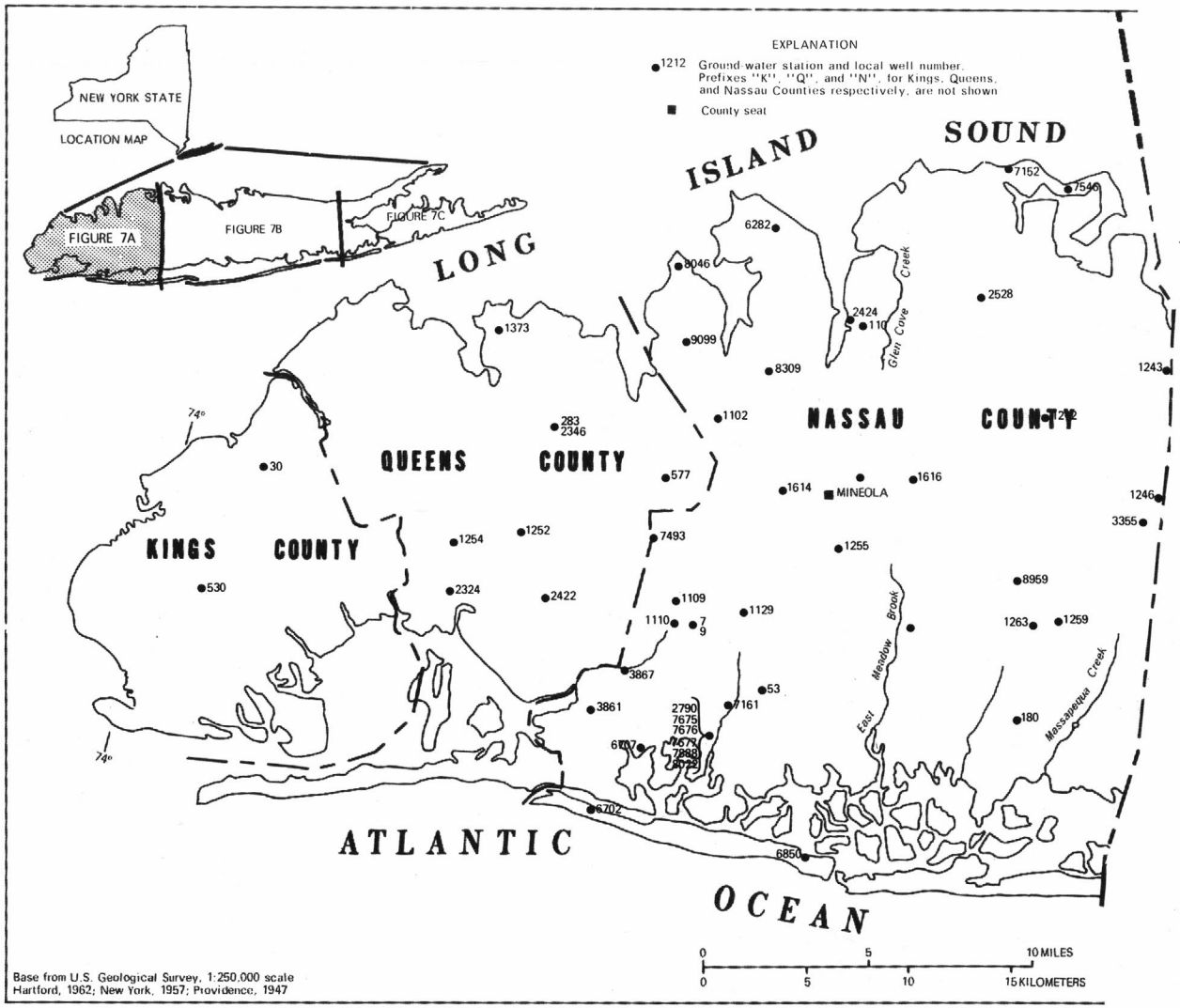

FIGURE 7A.-- LOCATION OF WATER-LEVEL DATA COLLECTION STATIONS

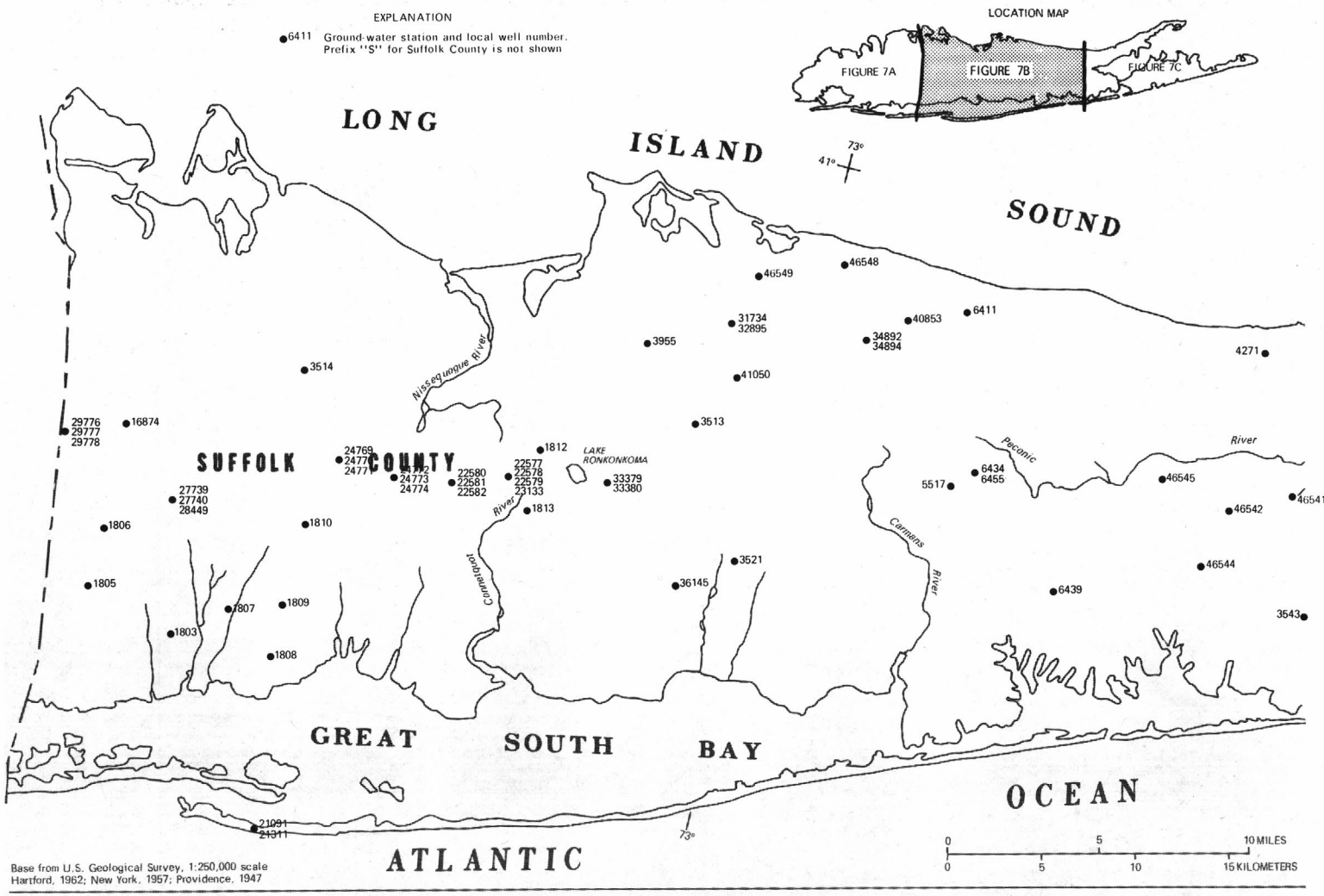

FIGURE 7B.-- LOCATION OF WATER-LEVEL DATA COLLECTION STATIONS

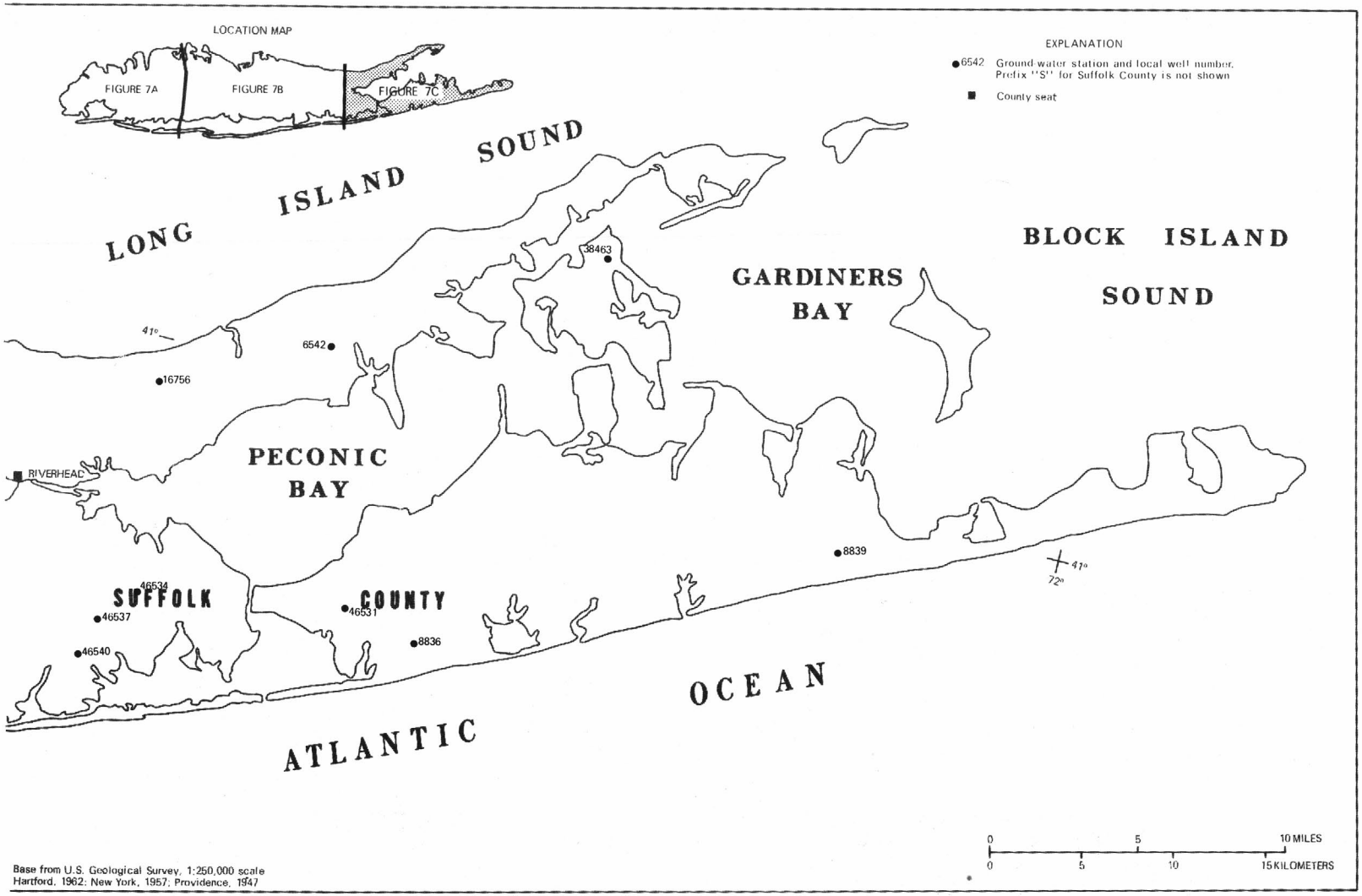

FIGURE 7C.-- LOCATION OF WATER-LEVEL DATA COLLECTION STATIONS

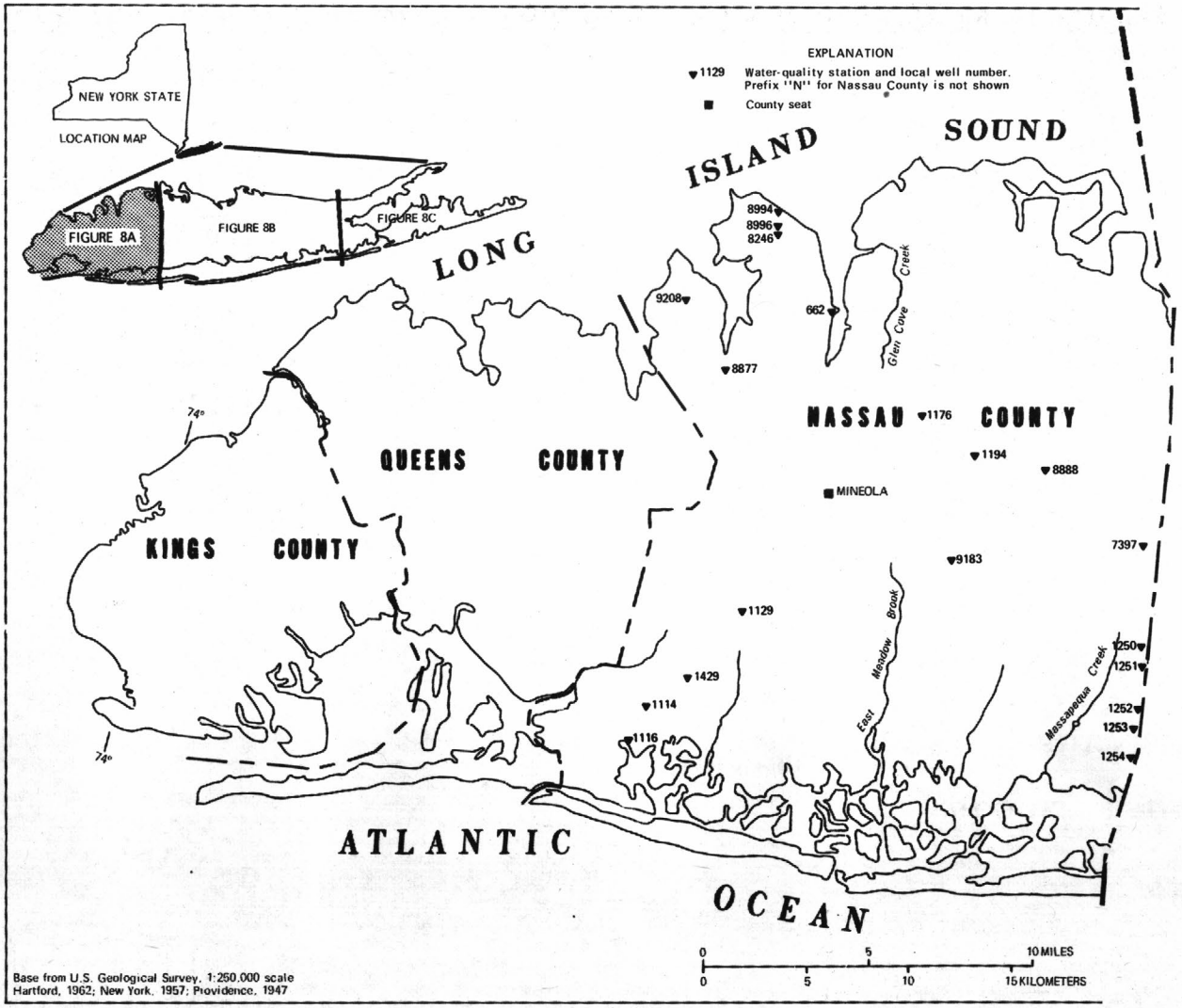

FIGURE 8A.-- LOCATION OF QUALITY OF GROUND-WATER DATA COLLECTION STATIONS

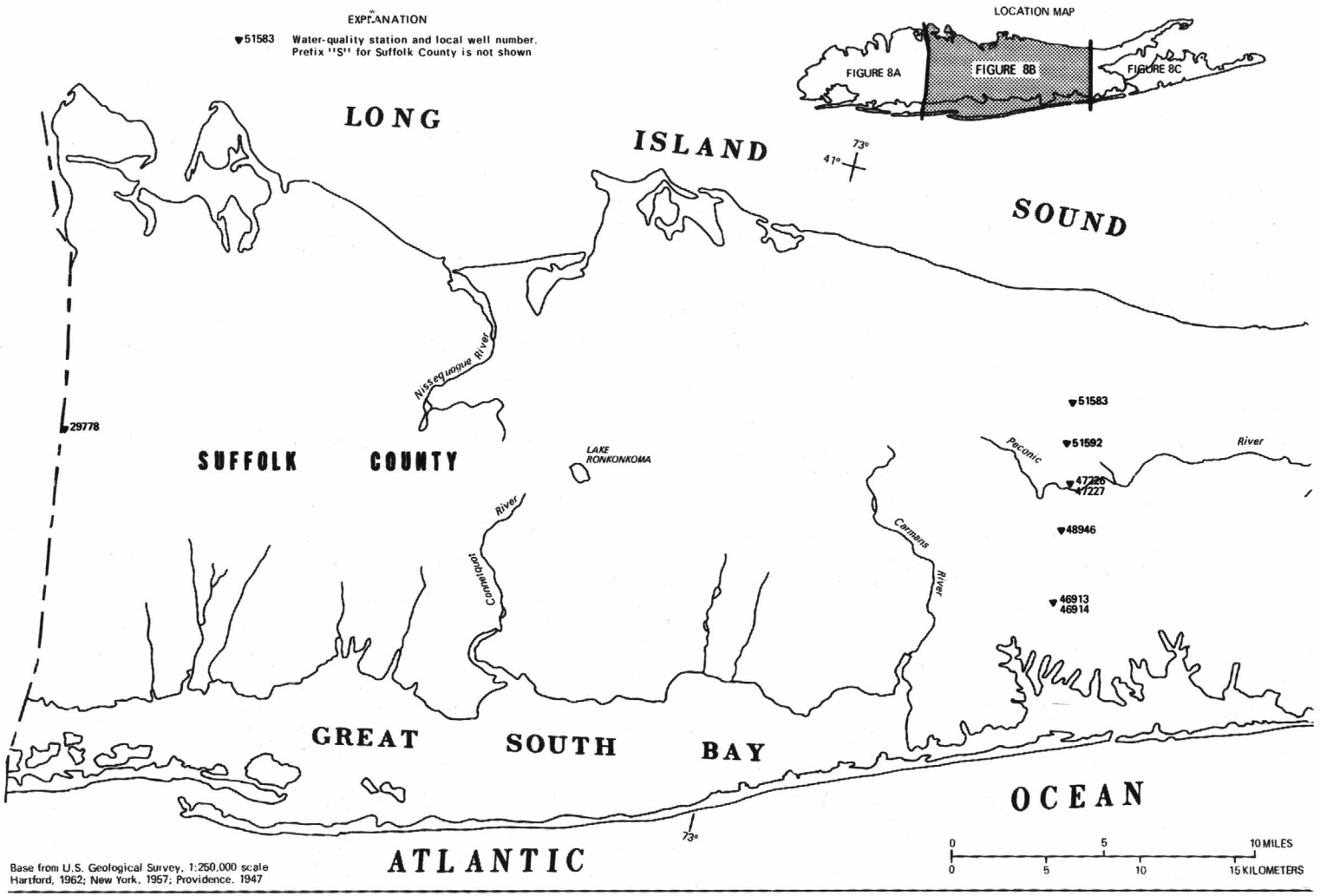

FIGURE 8B.-- LOCATION OF QUALITY OF GROUND-WATER DATA COLLECTION STATIONS

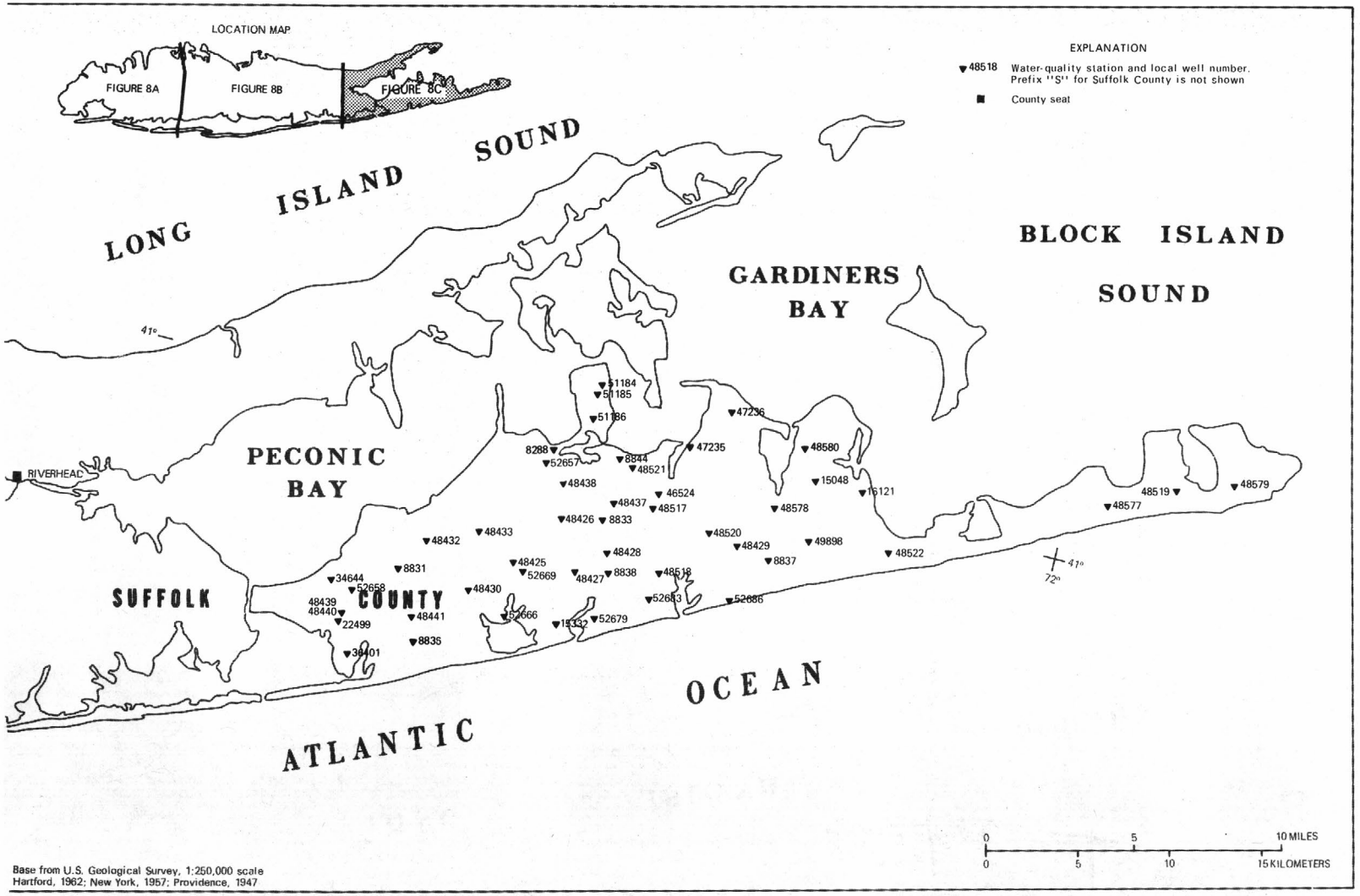

FIGURE 8C.-- LOCATION OF QUALITY OF GROUND-WATER DATA COLLECTION STATIONS

01302500 GLEN COVE CREEK AT GLEN COVE, NY

LOCATION.--Lat 40°51'48", long 73°38'05", Nassau County, Hydrologic Unit 02030201, on right bank just downstream from Glen Cove Road culvert, at 8- x 10-foot concrete culvert in Pratt Park, 1 block west of post office, Glen Cove. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 11 mi^2 (28 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1967, published as Cedar Swamp Creek.

REVISED RECORDS (WATER YEARS).--WSP 971: 1939-42.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 15.93 ft (4.855 m) above mean sea level, adjustment of 1912. Prior to September 10, 1957, at datum 0.06 ft (0.018 m) lower.

REMARKS.--Records good except those above 300 ft^3/s (8.50 m^3/s), which are fair.

AVERAGE DISCHARGE.--39 years, 6.88 ft^3/s (0.195 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft^3/s (52.7 m^3/s) Sept. 12, 1960, gage height, 7.12 ft (2.170 m), from rating curve extended above 220 ft^3/s (6.23 m^3/s); minimum, 2.1 ft^3/s (0.059 m^3/s) Oct. 15, 1967; minimum gage height, 0.52 ft (0.158 m), Oct. 22, 1959, Oct. 15, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 673 ft^3/s (19.1 m^3/s) Aug. 22, gage height, 4.70 ft (1.433 m); minimum, 4.0 ft^3/s (0.113 m^3/s) June 19, gage height, 0.67 ft (0.204 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	5.0	4.8	4.4	4.8	7.2	5.0	4.4	5.0	4.7	7.4	5.0
2	4.9	5.0	4.4	4.4	4.8	6.3	14	4.5	4.4	4.5	4.8	8.9
3	13	5.0	4.3	4.4	5.3	5.5	8.9	4.6	4.5	4.4	5.3	5.0
4	5.3	5.0	4.4	4.6	5.0	29	10	5.1	4.3	4.4	4.6	4.7
5	4.8	5.0	4.4	4.6	5.0	12	32	12	4.3	4.3	6.1	4.6
6	4.9	4.8	4.4	4.6	4.6	7.2	9.3	18	5.0	4.5	8.8	5.0
7	4.9	4.8	29	5.0	4.6	5.7	7.3	7.9	6.1	4.4	11	5.0
8	4.8	5.0	6.3	4.6	5.0	5.3	5.9	7.9	4.5	16	5.0	4.9
9	14	4.8	4.8	4.4	4.8	4.8	5.2	11	21	4.8	5.7	5.5
10	5.0	4.8	4.8	23	5.7	4.6	4.9	7.6	13	4.4	5.0	5.8
11	4.8	4.8	4.8	6.3	7.2	4.6	5.1	6.8	5.3	4.6	4.6	4.9
12	4.8	4.6	5.5	6.3	7.2	4.4	4.8	6.2	4.6	9.4	4.6	4.9
13	5.0	4.6	4.8	6.9	7.2	18	4.7	5.4	4.7	6.5	13	5.6
14	4.8	4.6	4.6	6.9	5.7	7.4	4.7	4.6	5.1	6.9	6.7	4.9
15	4.8	4.6	4.6	6.3	5.3	5.7	4.6	4.4	5.0	6.5	4.6	4.8
16	5.1	4.6	5.0	5.7	5.1	5.1	4.6	4.3	4.7	6.1	4.6	16
17	5.1	4.6	4.8	5.3	5.0	4.8	4.5	4.4	4.3	5.9	7.4	9.2
18	5.0	4.8	5.0	5.1	4.8	11	4.4	4.9	4.3	5.5	4.6	5.1
19	4.6	4.6	4.8	5.1	4.8	5.9	4.4	4.7	4.2	4.8	4.4	7.9
20	28	4.6	6.5	5.5	4.8	5.5	4.4	4.4	7.3	5.1	4.4	11
21	11	4.6	6.3	5.3	5.1	4.8	4.4	4.4	4.7	5.7	4.4	6.0
22	8.1	4.6	4.6	5.3	4.8	97	4.5	4.3	4.4	6.1	34	5.9
23	7.9	4.6	4.6	5.0	7.6	28	4.6	4.4	4.4	4.4	7.4	6.5
24	10	4.6	4.4	5.1	36	12	10	4.4	4.4	4.4	15	17
25	8.1	4.6	4.4	5.7	37	10	6.0	4.5	9.6	12	8.8	34
26	14	4.4	5.0	5.1	11	9.1	5.3	4.6	6.0	7.2	7.4	12
27	6.5	4.6	4.6	5.1	9.4	7.9	5.3	4.4	4.7	7.2	6.9	9.5
28	5.9	4.6	4.8	5.7	8.6	8.3	5.1	4.3	6.5	6.9	6.3	8.7
29	5.3	7.2	4.8	5.1	---	7.2	4.8	4.2	5.4	6.1	5.9	8.3
30	5.0	5.1	4.6	5.0	---	6.1	4.5	4.5	4.7	5.3	5.4	7.1
31	11	---	4.6	5.0	---	5.4	---	4.2	---	4.6	5.7	---
TOTAL	234.6	144.5	174.7	180.8	226.2	355.8	203.2	181.3	176.4	187.6	229.8	243.7
MEAN	7.57	4.82	5.64	5.83	8.08	11.5	6.77	5.85	5.88	6.05	7.41	8.12
MAX	28	7.2	29	23	37	97	32	18	21	16	34	34
MIN	4.6	4.4	4.3	4.4	4.6	4.4	4.4	4.2	4.2	4.3	4.4	4.6

CAL YR 1976 TOTAL 2990.3 MEAN 8.17 MAX 185 MIN 4.3
WTR YR 1977 TOTAL 2538.6 MEAN 6.96 MAX 97 MIN 4.2

01302500 GLEN COVE CREEK AT GLEN COVE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
DEC											
28...	1145	4.8	345	6.8	9.0	9.8	77	41	20	6.5	32
MAR											
25...	0845	10	240	6.6	6.0	11.6	55	24	15	4.3	19
JUL											
01...	0800	4.7	210	6.7	15.0	9.1	78	41	20	6.7	15
SEP											
19...	0830	12	200	6.7	15.0	9.1	67	42	17	6.0	13

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
DEC											
28...	2.1	44	0	36	28	52	.1	16	196	3.8	4.0
MAR											
25...	2.0	38	0	31	20	31	.1	8.5	129	2.3	2.3
JUL											
01...	2.1	44	0	36	23	23	.0	15	145	4.1	4.1
SEP											
19...	1.8	31	0	25	24	17	.1	16	133	4.9	5.1

DATE	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	NITROGEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
DEC										
28...	.01	.01	.13	.12	.25	4.1	.02	.01	630	120
MAR										
25...	.00	.01	.12	.49	.61	2.9	.06	.03	800	100
JUL										
01...	.01	.00	.11	.32	.43	4.5	.01	.00	550	100
SEP										
19...	.01	.01	.04	.00	.02	4.9	.08	.02	480	60

01303000 MILL NECK CREEK AT MILL NECK, NY

LOCATION.--Lat 40°53'15", Long 73°33'51", Nassau County, Hydrologic Unit 02030201, on right bank at Beaver Dam, 30 ft (9 m) upstream from Feeks Lane (Cleft Road) bridge in Mill Neck, and 1.5 mi (2.4 km) southwest of Bayville. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 11.5 mi^2 (29.8 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1937 to current year.

REVISED RECORDS.--WSP 1141: Drainage area.

GAGE.--Water-stage recorder and steel sheet-piling control. Datum of gage is 6.49 ft (1.978 m) above mean sea level.

REMARKS.--Records good. Slight regulation by ponds above station.

AVERAGE DISCHARGE.--40 years, 9.08 ft^3/s (0.257 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 137 ft^3/s (3.88 m^3/s) Sept. 12, 1960, from rating curve extended above 70 ft^3/s (1.98 m^3/s); maximum gage height, 4.85 ft (1.478 m) Sept. 21, 1938 (hurricane wave); minimum discharge, 0.09 ft^3/s (0.003 m^3/s) Dec. 11, 1941 (result of freezeup); minimum gage height, 0.14 ft (0.043 m) Sept. 8, 1939 (result of wind action).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 32 ft^3/s (0.91 m^3/s) and maximum (*):

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)	Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)
Feb. 25	0300	35	0.99	0.76	0.232	Mar. 22	2000	*54	1.53	0.97	0.296

Minimum discharge, 5.0 ft^3/s (0.14 m^3/s) July 22, gage height, 0.21 ft (0.064 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	10	9.2	7.4	7.4	9.2	8.0	8.0	7.7	6.7	6.6	6.7
2	9.1	8.8	8.8	7.4	7.0	8.4	9.2	8.0	8.4	6.3	7.4	7.0
3	10	8.8	8.8	7.4	7.0	8.0	14	7.7	8.4	6.3	7.0	7.4
4	11	8.4	8.8	7.7	7.4	13	10	7.7	7.4	6.3	7.4	6.7
5	9.1	8.8	8.4	7.7	7.7	18	22	10	7.0	6.3	7.0	6.3
6	8.7	8.4	8.4	7.7	7.0	12	16	11	7.0	6.3	6.6	6.7
7	8.4	8.0	17	8.0	7.0	10	11	12	8.0	6.3	7.4	6.3
8	8.3	8.0	17	7.7	7.0	8.8	9.2	9.6	7.4	10	7.0	6.3
9	11	8.0	13	7.7	6.7	8.0	8.4	9.6	10	15	6.6	6.3
10	10	8.0	9.6	16	6.7	8.0	8.8	9.2	16	9.6	6.6	7.4
11	8.8	8.0	8.8	15	7.4	7.7	8.4	8.4	11	7.7	7.7	7.0
12	8.8	8.0	8.8	10	8.4	7.7	8.4	8.0	8.8	8.4	9.6	6.3
13	8.8	8.0	8.0	8.0	9.6	11	8.4	7.7	7.7	8.8	9.2	6.3
14	8.4	8.4	7.7	8.0	9.2	13	7.7	7.4	7.4	7.4	9.6	6.3
15	8.0	8.4	7.7	8.8	8.8	10	8.0	7.4	7.4	7.0	8.4	6.0
16	7.7	8.4	8.0	8.0	8.4	8.4	7.7	7.4	7.0	6.7	7.4	7.1
17	7.7	8.4	8.4	7.4	8.0	7.7	7.7	7.4	7.0	6.3	8.0	13
18	7.7	8.4	8.0	7.4	7.7	9.2	7.7	7.7	7.0	6.0	8.0	9.6
19	7.7	8.4	7.7	7.4	7.7	10	7.7	7.7	7.0	6.0	7.0	8.8
20	9.6	8.0	8.4	7.4	8.8	9.2	7.7	7.7	7.0	6.0	6.7	9.6
21	19	8.4	9.2	7.7	8.4	8.8	7.7	7.4	8.0	6.0	6.7	9.2
22	12	8.0	10	7.7	8.0	24	8.0	7.4	7.0	5.4	15	7.7
23	9.6	8.0	9.2	7.4	8.4	30	8.0	7.0	7.0	5.4	13	7.4
24	9.2	8.0	8.0	7.7	9.6	14	9.6	7.0	6.7	5.6	8.8	11
25	11	8.0	7.7	8.4	27	10	11	6.7	7.0	6.3	8.8	26
26	12	8.4	9.2	7.7	14	9.2	10	6.7	8.4	7.7	7.7	18
27	10	8.4	8.4	7.7	10	8.8	9.6	6.7	7.7	6.6	7.0	11
28	9.2	8.4	8.0	7.7	10	9.2	8.8	6.7	7.4	6.3	6.7	8.4
29	8.8	10	8.0	7.4	---	9.6	8.4	6.3	7.4	6.0	6.7	7.4
30	8.4	9.6	7.7	7.4	---	9.2	8.0	6.7	6.7	7.4	6.3	7.0
31	10	---	7.7	7.4	---	8.4	---	7.0	---	6.6	6.3	---
TOTAL	297.7	252.8	283.6	256.3	250.3	338.5	285.1	245.2	237.9	218.7	244.2	260.2
MEAN	9.60	8.43	9.15	8.27	8.94	10.9	9.50	7.91	7.93	7.05	7.88	8.67
MAX	19	10	17	16	27	30	22	12	16	15	15	26
MIN	7.7	8.0	7.7	7.4	6.7	7.7	7.7	6.3	6.7	5.4	6.3	6.0

CAL YR 1976 TOTAL 3747.1 MEAN 10.2 MAX 64 MIN 7.1
WTR YR 1977 TOTAL 3170.5 MEAN 8.69 MAX 30 MIN 5.4

01303000 MILL NECK CREEK AT MILL NECK, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
DEC											
28...	1300	8.0	150	6.9	3.0	11.3	42	19	10	4.1	8.8
MAR											
25...	1000	10	129	6.7	5.5	12.4	41	25	10	3.8	10
JUL											
01...	0900	6.7	146	9.0	25.0	8.9	42	8	10	4.1	11
SEP											
19...	0930	8.8	141	6.6	23.0	10.2	42	17	10	4.1	10

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
DEC											
28...	1.4	28	0	23	20	14	.1	11	90	1.5	1.6
MAR											
25...	1.3	19	0	16	16	16	.1	7.6	79	1.1	1.1
JUL											
01...	1.3	41	0	34	13	15	.0	6.6	81	.41	.04
SEP											
19...	1.3	30	0	25	16	14	.1	5.8	78	.34	.38

DATE	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	NITROGEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
DEC										
28...	.02	.02	.07	.23	.30	1.8	.03	.01	380	30
MAR										
25...	.01	.01	.03	.53	.56	1.7	.05	.02	550	30
JUL										
01...	.00	.00	.04	1.1	1.1	1.5	.05	.01	390	70
SEP										
19...	.02	.01	.07	.49	.56	.92	.05	.01	340	30

01303500 COLD SPRING BROOK AT COLD SPRING HARBOR, NY

LOCATION.--Lat 40°51'26", long 73°27'50", Nassau County, Hydrologic Unit 02030201, on left bank 270 ft (82 m) upstream from State Highway 25A, at Cold Spring Harbor State Fish Hatchery, and 1.0 mi (1.6 km) southwest of village of Cold Spring Harbor.

DRAINAGE AREA.--About 7.3 mi^2 (19 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1950 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5.38 ft (1.640 m) above mean sea level.

REMARKS.--Records good. Flow occasionally regulated at outlet of pond 40 ft (12 m) above station. Diversion from this pond by New York State Fish Hatchery bypasses station.

AVERAGE DISCHARGE.--27 years, 2.45 ft^3/s (0.069 m^3/s) (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 108 ft^3/s (3.06 m^3/s) Sept. 11, 1954, gage height, 1.33 ft (0.405 m) (backwater from aquatic vegetation), from rating curve extended above 28 ft^3/s (0.79 m^3/s); maximum gage height, 5.34 ft (1.628 m) Aug. 31, 1954 (backwater from high tide), from high-water mark; minimum discharge, ft^3/s (0.006 m^3/s) Jan. 24-27, 1967, gage height, 0.07 ft (0.021 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19 ft^3/s (0.538 m^3/s) Aug. 5, gage height, 0.66 ft (0.201 m) (result of regulation); maximum gage height, 2.05 ft (0.625 m) Jan. 10 (backwater from high tide); minimum discharge, 0.65 ft^3/s (0.018 m^3/s) Aug. 17, gage height, 0.13 ft (0.040 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	3.4	2.5	2.5	2.3	2.7	2.7	2.7	2.1	2.7	1.9	1.4
2	3.6	3.0	2.5	2.5	2.3	2.5	2.7	2.3	2.1	3.0	1.9	1.6
3	3.7	3.0	2.3	2.5	2.7	2.3	3.9	2.5	2.1	3.4	1.6	1.9
4	3.8	3.0	2.3	2.5	2.7	3.0	3.4	2.5	2.5	3.4	1.3	1.9
5	3.5	2.7	2.3	2.5	2.7	4.2	5.3	3.0	2.5	3.2	7.3	1.6
6	3.4	2.7	2.3	2.5	2.5	3.4	4.7	3.7	3.0	3.2	4.4	1.4
7	3.4	2.5	3.7	2.7	2.5	3.0	3.7	3.4	3.4	3.0	1.4	1.9
8	3.2	2.5	4.7	2.5	2.3	2.7	3.2	3.0	3.4	2.5	1.7	2.1
9	3.7	2.5	3.4	2.5	2.3	2.5	2.7	3.0	3.0	1.9	2.7	1.7
10	4.2	2.5	3.0	3.7	2.5	2.5	2.7	3.0	3.4	2.3	2.7	1.4
11	3.9	2.5	2.7	4.4	2.5	2.5	2.7	3.0	3.4	1.9	2.5	1.5
12	3.7	2.5	2.7	3.2	2.5	2.5	2.5	3.0	3.7	1.4	2.3	1.7
13	3.4	2.5	2.5	2.7	2.7	3.2	2.7	2.7	4.2	.98	2.3	1.5
14	3.2	2.5	2.5	2.5	2.7	3.7	2.7	2.7	3.9	1.1	1.7	1.3
15	3.1	2.5	2.5	3.0	2.7	3.0	2.5	2.7	3.4	1.4	1.1	1.4
16	3.1	2.7	2.5	2.7	2.5	2.5	2.5	2.5	3.0	1.4	.75	1.5
17	3.1	2.7	2.7	2.7	2.5	2.3	2.5	2.5	1.6	1.7	.65	2.1
18	3.0	2.7	2.7	2.5	2.5	2.7	2.5	2.5	1.3	2.1	.98	2.3
19	3.0	2.7	2.5	2.5	2.5	3.0	2.5	2.5	1.4	2.3	1.1	2.3
20	3.4	2.7	2.7	2.5	2.7	3.0	2.3	2.5	1.9	2.3	1.4	3.4
21	5.9	2.7	3.0	2.5	2.7	2.7	2.5	2.5	1.9	2.7	1.4	3.7
22	4.4	2.7	2.7	2.3	2.5	4.4	2.5	2.5	2.1	2.3	1.9	3.2
23	3.4	2.7	2.5	2.3	2.5	9.2	2.5	2.7	2.7	1.9	2.3	2.7
24	3.4	2.7	2.5	2.3	2.7	5.0	2.7	3.0	2.1	1.3	2.1	2.5
25	3.4	2.7	2.5	2.5	6.2	3.4	3.4	2.7	1.1	.98	2.5	3.7
26	3.4	2.7	3.0	2.5	4.7	3.0	3.2	2.7	1.3	1.3	1.9	4.2
27	3.2	2.7	3.0	2.5	3.4	3.0	3.2	2.7	1.9	1.4	1.6	4.4
28	3.0	2.7	2.7	2.5	3.0	2.7	3.2	2.5	1.7	1.6	1.4	3.7
29	3.0	2.7	2.7	2.5	---	3.0	3.0	2.5	2.3	1.6	1.1	2.7
30	3.0	2.7	2.7	2.3	---	3.0	3.0	2.5	3.2	1.7	1.1	2.3
31	3.4	---	2.5	2.3	---	2.7	---	2.3	---	2.1	1.2	---
TOTAL	108.8	80.8	84.8	81.6	78.3	99.3	89.6	84.3	75.6	64.06	60.18	69.3
MEAN	3.51	2.69	2.74	2.63	2.80	3.20	2.99	2.72	2.52	2.07	1.94	2.31
MAX	5.9	3.4	4.7	4.4	6.2	9.2	5.3	3.7	4.2	3.4	7.3	4.4
MIN	3.0	2.5	2.3	2.3	2.3	2.3	2.3	2.3	1.1	.98	.65	1.3
/	1.77	1.76	2.87	3.09	3.02	2.37	1.90	2.25	2.26	2.11	2.49	2.89

CAL YR 1976 TOTAL 1203.20 MEAN 3.29 /1.90 MAX 16 MIN 1.7
WTR YR 1977 TOTAL 976.64 MEAN 2.68 /2.40 MAX 9.2 MIN .65

/ INDICATED ADJUSTMENT, IN CUBIC FEET PER SECOND, FOR DIVERSION THROUGH FISH HATCHERY.

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 (0.8 km) downstream from Blydenburgh Pond, 1.0 mi (1.6 km) southwest of Smithtown, and 1.5 mi (2.4 km) southwest of village of Smithtown Branch. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 27 mi^2 (70 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1141: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 9.59 ft (2.923 m) above mean sea level.

REMARKS.--Records good. Occasional regulation caused by cleaning of fish screens and trash racks at outlets of Blydenburgh Pond on main stream and ponds on tributaries above station.

AVERAGE DISCHARGE.--34 years, 40.9 ft^3/s (1.158 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 324 ft^3/s (9.18 m^3/s) Oct. 15, 1955, gage height, 1.96 ft (0.597 m), from rating curve extended above 130 ft^3/s (3.68 m^3/s); minimum discharge, 16 ft^3/s (0.45 m^3/s) June 5, 6, 1967; minimum gage height, 0.46 ft (0.140 m) Feb. 9, 1951; minimum daily, 19 ft^3/s (0.54 m^3/s) June 6, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 86 ft^3/s (2.44 m^3/s) Mar. 22, gage height, 0.96 ft (0.293 m); minimum, 29 ft^3/s (0.82 m^3/s) July 22-25, Sept. 3, 4, 7, 9, 10, gage height, 0.58 ft (0.177 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	42	39	38	37	40	40	42	35	34	32	31
2	41	40	38	36	36	39	42	41	35	33	32	30
3	49	40	38	38	37	38	54	41	34	32	33	30
4	51	39	38	38	38	42	50	40	34	32	34	30
5	46	38	38	38	39	49	65	46	34	32	32	31
6	42	38	38	38	38	44	60	46	34	32	32	30
7	40	38	49	38	38	42	53	47	39	32	33	30
8	39	38	52	38	36	41	47	44	36	32	34	30
9	47	38	47	38	36	40	45	46	41	32	32	30
10	46	38	44	54	36	39	44	45	52	32	32	33
11	42	38	41	56	36	39	44	44	47	32	34	32
12	40	38	40	47	38	38	43	43	41	33	36	31
13	39	38	39	41	39	42	43	42	39	35	36	31
14	38	38	39	40	40	44	43	40	38	34	40	31
15	37	38	39	41	40	42	41	39	36	33	38	30
16	38	38	39	40	38	41	41	39	35	32	35	31
17	36	38	40	40	37	38	41	39	35	32	34	38
18	36	37	39	39	36	42	41	38	35	31	33	35
19	36	37	38	39	36	45	41	39	34	30	32	34
20	42	36	39	39	38	43	41	39	35	31	32	58
21	62	36	40	38	38	42	41	38	39	31	31	54
22	49	37	39	38	37	56	41	38	35	30	36	44
23	43	37	39	36	37	71	41	38	34	29	36	39
24	41	38	38	38	38	58	44	38	34	30	34	41
25	42	38	38	39	55	49	60	38	34	33	34	54
26	43	38	40	38	49	45	52	37	44	37	33	52
27	42	38	39	37	43	44	48	36	40	34	32	45
28	40	38	39	38	43	43	46	35	38	32	31	40
29	40	40	39	38	---	44	45	36	37	31	31	37
30	39	39	38	37	---	42	44	35	35	32	30	36
31	44	---	38	38	---	41	---	35	---	32	31	---
TOTAL	1314	1144	1241	1231	1089	1363	1381	1244	1119	997	1035	1098
MEAN	42.4	38.1	40.0	39.7	38.9	44.0	46.0	40.1	37.3	32.2	33.4	36.6
MAX	62	42	52	56	55	71	65	47	52	37	40	58
MIN	36	36	38	36	36	38	40	35	34	29	30	30

CAL YR 1976 TOTAL 17169 MEAN 46.9 MAX 113 MIN 36
WTR YR 1977 TOTAL 14256 MEAN 39.1 MAX 71 MIN 29

01304000 NISSEQUOGUE RIVER NEAR SMITHTOWN, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1967 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
JAN									
28...	1000	38	148	6.6	4.5	10.8	23	5.9	2.1
MAR									
28...	1400	43	123	6.7	9.0	10.4	19	4.2	2.0
JUL									
15...	1100	33	10	6.4	19.0	2.9	21	5.2	2.0

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
JAN									
28...	14	1.4	13	6.9	24	<.5	2.1	1.7	.01
MAR									
28...	12	1.2	11	8.1	19	<.5	1.2	1.3	.00
JUL									
15...	9.0	1.0	14	5.0	12	<.5	.81	.93	.01

DATE	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	NITROGEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
JAN								
28...	.01	.30	.10	.40	.03	.03	200	190
MAR								
28...	.00	.14	.16	.30	.01	--	200	40
JUL								
15...	.01	.12	.38	.50	.02	.00	200	70

All water-quality samples collected and analyzed by Suffolk County Department of Environmental Control.

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 (61 m) downstream from Long Island Lighting Co. dam, 0.4 mi (0.6 km) west of Riverhead, and 1.2 mi (1.9 km) upstream from outlet of Sweezy Pond. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 75 mi^2 (194 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6.54 ft (1.993 m) above mean sea level.

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

AVERAGE DISCHARGE.--35 years, 35.2 ft^3/s (0.997 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 140 ft^3/s (3.96 m^3/s) Apr. 14, 1953, gage height, 0.97 ft (0.296 m); minimum, 1.4 ft^3/s (0.040 m^3/s) Jan. 9, 1966, Jan. 31, 1967, Dec. 6, 1969, Jan. 27, 1972; minimum gage height, 0.10 ft (0.030 m) Jan. 31, 1967 (result of freezeup), Dec. 6, 1969, Jan. 27, 1972 (result of freezeup); minimum daily, 3.7 ft^3/s (0.10 m^3/s) Aug. 2, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 64 ft^3/s (1.81 m^3/s) Aug. 25; maximum gage height, 0.67 ft (0.204 m) Apr. 6 (backwater from aquatic vegetation), Aug. 25; minimum discharge, 1.8 ft^3/s (0.051 m^3/s) Dec. 14, gage height, 0.12 (0.037 m) (result of freezeup); minimum daily, 18 ft^3/s (0.51 m^3/s) Aug. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	42	32	28	30	42	50	48	31	28	22	22
2	32	41	32	28	30	42	47	47	32	27	21	22
3	35	40	31	28	30	40	52	46	32	26	22	22
4	38	40	30	28	30	40	50	44	31	26	23	21
5	37	39	30	28	30	43	58	46	31	24	23	21
6	35	37	30	27	28	42	62	47	31	21	22	21
7	34	38	32	27	28	42	60	47	34	20	21	20
8	34	37	35	27	28	40	60	46	32	21	23	19
9	37	36	34	27	28	40	58	45	34	22	23	19
10	39	36	34	45	28	38	58	48	43	22	22	21
11	45	35	34	47	28	38	56	48	43	21	21	22
12	49	35	34	40	30	37	56	46	42	21	21	21
13	47	34	29	34	31	38	56	45	38	22	21	21
14	42	34	27	34	32	42	54	44	38	22	22	20
15	37	34	34	32	32	40	52	42	38	21	23	19
16	34	33	34	32	32	40	50	41	37	21	23	19
17	32	32	34	32	31	39	49	40	37	20	22	22
18	32	33	32	32	31	40	47	38	37	21	22	22
19	31	32	31	31	31	42	45	36	37	23	18	22
20	32	32	31	31	31	42	45	32	35	22	22	28
21	43	32	34	31	31	42	45	21	35	22	20	31
22	43	33	25	31	31	44	45	20	34	23	21	29
23	42	33	31	31	30	57	45	27	32	22	21	28
24	40	32	32	31	30	57	47	31	31	22	22	32
25	42	32	31	31	35	56	50	37	30	26	44	37
26	42	32	32	31	38	56	50	43	31	24	39	45
27	42	32	31	31	40	54	50	40	32	23	30	49
28	41	32	30	31	42	54	50	35	32	23	26	48
29	40	33	31	31	---	54	50	32	31	23	25	43
30	40	33	30	30	---	52	49	31	30	23	22	40
31	41	---	29	30	---	52	---	31	---	22	20	---
TOTAL	1190	1044	976	977	876	1385	1546	1224	1031	704	727	806
MEAN	38.4	34.8	31.5	31.5	31.3	44.7	51.5	39.5	34.4	22.7	23.5	26.9
MAX	49	42	35	47	42	57	62	48	43	28	44	49
MIN	31	32	25	27	28	37	45	20	30	20	18	19

CAL YR 1976 TOTAL 16510 MEAN 45.1 MAX 81 MIN 25
WTR YR 1977 TOTAL 12486 MEAN 34.2 MAX 62 MIN 18

01304500 PECONIC RIVER AT RIVERHEAD, NY--Continued

(National Stream-Quality Accounting Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1975 to current year.
WATER TEMPERATURES: June 1975 to current year.

INSTRUMENTATION.--Water-quality monitor and temperature recorder since June 1975.

REMARKS.--In addition to the water-quality monitor record, samples were collected approximately once a month. Specific conductance records unreliable or no record, due to malfunctions of the instrument, Oct. 1 to Jan. 24, Feb. 13 to Mar. 8. No water temperature record Oct. 1-26. Unpublished records of daily specific conductance and water temperatures are available in files of Long Island Sub-district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 215 micromhos July 12, 1977; minimum recorded, 60 micromhos April 12, 1977.
WATER TEMPERATURES: Maximum, 29.0°C Aug. 2, 1975; minimum recorded, 0°C Dec. 20, 24, 1975, Jan. 5, 6, Dec. 3, 13, 14, 22, 1976.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 215 micromhos July 12; minimum recorded, 60 micromhos April 12.
WATER TEMPERATURES: Maximum, 28.5°C July 19; minimum recorded, 0°C Dec. 3, 13, 14, 22.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT												
27...	0830	42	96	6.7	7.5	4	10.3	59	23	8	6.0	2.0
NOV												
30...	1200	33	100	--	5.0	3	10.8	--	26	9	7.2	1.9
JAN												
04...	1100	28	119	6.6	3.0	1	11.8	--	31	16	8.0	2.7
31...	1045	30	128	6.8	1.8	--	13.2	--	28	--	7.3	2.4
FEB												
01...	1000	30	118	6.3	2.0	3	13.6	--	31	13	7.8	2.7
MAR												
09...	1000	40	90	6.4	6.5	2	--	--	23	9	5.9	2.0
28...	1100	54	93	6.8	9.0	--	11.2	--	18	--	4.3	1.8
APR												
05...	1100	58	80	6.4	9.0	3	11.6	--	17	4	4.5	1.4
19...	1300	45	90	6.4	15.5	3	9.6	--	23	10	5.8	2.0
MAY												
24...	1000	31	97	6.7	22.0	1	11.8	--	29	13	7.5	2.4
JUN												
21...	0930	35	91	6.3	23.0	1	9.8	--	27	13	7.0	2.2
JUL												
14...	1430	22	108	7.7	24.5	--	11.0	--	27	--	7.0	2.4
AUG												
09...	1000	23	100	6.5	28.0	1	7.0	--	27	5	6.6	2.6
30...	0900	22	102	5.7	24.5	1	5.8	--	26	8	6.3	2.4
SEP												
27...	1000	48	110	5.9	17.0	1	8.3	--	26	14	6.5	2.4

01304500 PECONIC RIVER AT RIVERHEAD, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT												
27...	7.0	1.8	19	0	16	12	11	.1	4.5	57	54	--
NOV												
30...	7.0	1.7	20	--	16	13	13	.1	4.1	57	58	--
JAN												
04...	7.8	1.8	18	0	15	11	13	.1	7.4	65	61	--
31...	8.0	1.8	--	--	18	12	14	<.5	--	--	--	.62
FEB												
01...	7.8	1.7	22	0	18	12	13	.1	8.6	71	65	--
MAR												
09...	6.2	1.6	17	0	14	8.1	10	.0	3.4	53	46	--
28...	6.7	1.5	--	--	8	11	12	<.5	--	--	--	.30
APR												
05...	6.6	1.4	16	0	13	11	11	.1	3.0	45	47	--
19...	6.6	1.3	16	0	13	9.9	12	.1	3.1	51	49	--
MAY												
24...	7.6	1.6	19	0	16	11	12	.0	5.7	57	57	--
JUN												
21...	7.1	1.1	17	0	14	10	11	.0	3.6	48	50	--
JUL												
14...	8.0	1.4	--	--	17	9.6	12	<.5	--	--	--	<.02
AUG												
09...	8.0	1.9	27	0	22	11	13	.0	.5	60	57	--
30...	8.0	1.6	21	0	17	13	13	.0	1.8	59	56	--
SEP												
27...	7.8	2.2	15	0	12	13	13	.0	3.8	69	56	--

DATE	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)
OCT											
27...	--	--	--	.37	--	--	.20	.57	.06	--	0
NOV											
30...	--	--	--	.44	--	--	.33	.77	.06	--	--
JAN											
04...	--	--	--	.53	--	--	.33	.86	.07	--	--
31...	.65	.00	.00	--	.33	--	.30	--	.03	--	--
FEB											
01...	--	--	--	.50	--	--	.56	1.1	.07	--	0
MAR											
09...	--	--	--	.23	--	--	.55	.78	.06	--	--
28...	.34	.00	.00	--	.15	.15	.30	--	.07	--	--
APR											
05...	--	--	--	.23	--	--	.60	.83	.07	--	--
19...	--	--	--	.23	--	--	.50	.73	.09	--	1
MAY											
24...	--	--	--	.13	--	--	.68	.81	.10	--	--
JUN											
21...	--	--	--	.06	--	--	.59	.65	.09	--	--
JUL											
14...	<.02	.00	.00	--	.07	1.4	1.5	--	.13	.08	--
AUG											
09...	--	--	--	.01	--	--	.64	.65	.07	--	1
30...	--	--	--	.12	--	--	.22	.34	.08	--	--
SEP											
27...	--	--	--	.27	--	--	.59	.86	.17	--	--

01304500 PECONIC RIVER AT RIVERHEAD, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SUS-PENDED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT											
27...	0	0	0	<10	<10	2	0	0	0	340	210
NOV											
30...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	800	300
FEB											
01...	0	1	1	<10	<10	0	0	0	0	890	310
MAR											
09...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	500	300
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
19...	0	1	1	10	<10	0	1	10	0	750	390
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
14...	--	--	--	--	--	--	--	--	--	700	500
AUG											
09...	1	0	0	20	6	3	0	7	6	1000	270
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT											
27...	2	4	30	40	<.5	<.5	0	0	10	10	4.8
NOV											
30...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	220	--	--	--	--	--	--	--	--
FEB											
01...	13	2	220	210	<.5	<.5	0	0	20	0	4.0
MAR											
09...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	70	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
19...	6	6	150	140	<.5	<.5	0	0	10	20	4.4
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
14...	--	--	80	--	--	--	--	--	--	--	8.0
AUG											
09...	9	4	40	10	.0	.0	0	0	0	0	5.6
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--

01304500 PECONIC RIVER AT RIVERHEAD, NY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
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										102	100	100
26										104	100	101
27										104	98	101
28										106	102	104
29										110	102	107
30										112	108	110
31										112	88	105
MONTH										112	88	104

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	90	88	90	---	---	---	96	84	91	90	80	85
2	96	90	93	---	---	---	98	78	89	90	80	85
3	96	90	93	---	---	---	78	70	74	90	76	83
4	100	86	92	---	---	---	92	76	85	94	86	90
5	102	86	94	---	---	---	82	74	78	98	82	91
6	90	88	89	---	---	---	84	78	81	98	76	89
7	94	90	92	---	---	---	82	76	79	112	76	97
8	112	90	98	---	---	---	82	72	76	92	78	83
9	120	98	107	94	88	90	82	76	79	92	82	87
10	122	90	108	98	88	93	78	72	77	92	86	88
11	118	96	107	98	82	91	80	64	78	92	84	89
12	102	92	97	92	86	89	80	60	71	94	72	83
13	---	---	---	90	84	88	84	64	71	88	74	83
14	---	---	---	90	84	88	108	72	94	90	76	84
15	---	---	---	96	88	91	86	72	79	94	74	84
16	---	---	---	96	74	85	86	76	80	100	74	84
17	---	---	---	82	78	80	94	76	81	104	80	90
18	---	---	---	100	80	87	98	84	92	106	82	89
19	---	---	---	92	84	87	138	84	96	106	82	88
20	---	---	---	88	84	86	106	86	97	102	80	89
21	---	---	---	92	82	86	104	82	93	86	76	82
22	---	---	---	96	80	89	104	78	87	92	76	84
23	---	---	---	82	76	78	174	80	90	102	82	88
24	---	---	---	80	78	79	110	92	101	106	80	91
25	---	---	---	80	76	79	120	100	109	108	82	94
26	---	---	---	78	74	77	110	94	102	90	80	86
27	---	---	---	76	70	74	100	86	93	96	84	89
28	---	---	---	78	72	75	98	84	90	100	82	90
29	---	---	---	78	72	75	92	86	89	100	88	94
30	---	---	---	88	76	81	94	80	89	100	88	96
31	---	---	---	94	82	87	---	---	---	100	90	97
MONTH	122	86	97	100	70	84	174	60	86	112	72	88

01304500 PECONIC RIVER AT RIVERHEAD, NY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	102	92	98	95	79	88	95	85	89	112	100	104
2	102	92	99	99	79	86	151	85	96	112	96	103
3	106	98	102	89	75	83	199	119	147	134	104	117
4	106	94	100	89	79	85	171	115	136	130	96	108
5	102	90	97	99	83	90	131	103	118	100	92	97
6	100	94	97	99	81	90	167	109	134	100	92	96
7	102	92	98	103	75	93	131	67	96	98	90	94
8	102	94	99	87	77	81	99	77	84	96	88	92
9	106	94	101	101	79	88	113	83	98	104	90	93
10	100	90	95	101	79	90	120	90	105	110	96	102
11	134	96	108	171	77	107	110	96	103	106	94	100
12	152	120	137	215	149	187	124	98	111	106	98	101
13	122	96	108	165	125	143	112	98	105	104	96	101
14	126	108	117	149	99	128	116	96	105	104	94	99
15	128	120	123	133	83	97	104	96	99	104	98	100
16	130	106	119	121	75	87	102	90	97	104	96	100
17	116	94	104	87	75	80	100	90	96	100	94	98
18	104	90	97	97	77	83	106	94	99	102	92	97
19	110	84	99	95	79	85	110	94	101	104	96	99
20	142	100	108	105	81	90	98	90	94	104	94	99
21	93	77	84	101	79	92	156	94	109	106	96	100
22	91	75	82	85	77	82	158	96	124	110	104	106
23	89	77	82	83	67	77	196	132	155	108	102	106
24	91	75	82	83	67	75	208	130	170	106	100	103
25	97	69	84	87	75	81	172	96	129	110	100	105
26	91	67	78	89	77	82	98	76	82	112	102	106
27	95	79	87	91	81	86	100	70	83	114	104	109
28	139	73	80	89	81	86	102	90	94	110	100	104
29	85	73	78	89	79	86	98	92	95	104	96	100
30	95	75	82	89	83	86	110	94	101	100	92	96
31	---	---	---	97	83	88	108	100	104	---	---	---
MONTH	152	67	98	215	67	93	208	67	108	134	88	101
YEAR	215	60	95									

01304500 PECONIC RIVER AT RIVERHEAD, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	9.5	7.0	8.5	3.5	2.0	3.0	2.0	1.5	1.5
2	---	---	---	7.0	6.0	6.5	4.0	2.0	3.5	1.5	1.0	1.5
3	---	---	---	7.5	6.5	7.0	2.0	0.0	0.5	3.0	1.5	2.0
4	---	---	---	9.0	7.5	8.0	2.5	1.0	1.5	3.5	3.0	3.0
5	---	---	---	10.0	8.5	9.0	3.5	2.5	3.0	3.0	3.0	3.0
6	---	---	---	9.0	8.0	8.5	3.5	3.0	3.5	3.0	3.0	3.0
7	---	---	---	8.0	7.5	8.0	3.5	2.5	3.5	3.0	2.5	3.0
8	---	---	---	7.5	5.0	6.5	2.5	0.5	2.0	2.5	1.0	2.0
9	---	---	---	5.0	4.5	4.5	1.0	0.5	0.5	2.0	1.0	1.5
10	---	---	---	5.5	4.5	5.0	2.5	0.5	1.5	3.0	2.0	2.5
11	---	---	---	5.5	4.5	5.0	3.5	2.5	3.0	2.0	0.5	1.5
12	---	---	---	5.0	4.0	4.5	3.5	3.0	3.0	1.0	0.5	0.5
13	---	---	---	5.0	4.0	4.5	3.5	0.0	2.0	1.5	1.0	1.0
14	---	---	---	5.0	4.0	4.5	1.5	0.0	1.0	2.5	1.5	2.0
15	---	---	---	5.0	4.0	4.5	3.5	1.5	2.5	2.5	2.0	2.5
16	---	---	---	5.0	4.0	4.5	3.5	3.0	3.0	3.0	2.0	2.5
17	---	---	---	5.0	4.5	5.0	3.5	3.0	3.5	2.5	2.0	2.0
18	---	---	---	6.0	5.0	5.5	3.0	2.0	2.5	2.0	1.5	1.5
19	---	---	---	6.5	5.5	6.0	3.0	2.0	2.5	2.0	1.5	2.0
20	---	---	---	6.0	5.0	6.0	5.0	3.0	4.0	2.5	2.0	2.0
21	---	---	---	5.0	4.5	5.0	5.0	0.5	3.5	2.5	2.0	2.5
22	---	---	---	5.0	4.0	4.5	1.0	0.0	0.5	2.5	2.0	2.0
23	---	---	---	4.0	3.0	3.5	2.5	1.0	2.0	2.0	2.0	2.0
24	---	---	---	3.5	2.5	3.0	3.0	2.5	3.0	2.5	2.0	2.5
25	---	---	---	3.5	3.0	3.0	3.5	3.0	3.0	3.0	2.5	2.5
26	---	---	---	6.0	3.5	4.5	3.5	3.0	3.0	2.5	2.0	2.5
27	8.5	7.0	8.0	8.5	6.0	7.5	3.0	3.0	3.0	2.5	2.0	2.0
28	7.5	6.5	7.0	9.0	8.5	8.5	3.0	2.0	2.5	2.5	1.5	2.0
29	7.5	6.0	7.0	9.5	7.5	8.5	2.5	2.0	2.5	2.0	1.5	2.0
30	8.0	7.0	7.5	5.5	4.0	5.5	2.5	1.5	2.0	1.5	1.0	1.0
31	9.5	8.0	9.0	---	---	---	2.0	1.5	1.5	1.5	1.5	1.5
MONTH	9.5	6.0	7.5	10.0	2.5	6.0	5.0	0.0	2.5	3.5	0.5	2.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.0	1.5	2.0	6.5	5.5	6.0	13.0	11.0	12.5	16.0	13.0	15.0
2	2.0	1.5	2.0	5.5	4.0	5.0	12.0	10.0	11.0	15.5	15.0	15.5
3	3.0	2.0	3.0	6.0	4.0	5.0	14.0	10.0	12.0	17.5	14.5	16.0
4	3.0	2.5	2.5	6.0	5.5	5.5	12.5	10.0	11.5	16.5	15.5	16.0
5	3.0	2.5	3.0	8.5	6.0	7.5	10.0	9.0	9.5	17.0	15.5	16.0
6	2.5	1.0	1.5	8.0	7.0	7.5	9.0	8.5	9.0	20.5	16.0	18.0
7	1.0	0.5	1.0	7.0	6.0	6.5	8.5	7.0	8.0	20.5	18.5	19.5
8	1.5	1.0	1.0	7.0	5.0	6.0	9.5	8.0	8.5	19.0	18.0	18.5
9	2.5	1.5	2.0	8.5	6.5	7.5	8.0	6.0	7.0	18.0	13.0	15.5
10	3.0	2.5	2.5	9.5	7.5	8.5	9.0	7.0	8.0	13.0	11.5	12.0
11	3.5	2.5	3.5	11.0	8.5	10.0	10.0	8.5	9.5	14.5	11.0	13.0
12	4.0	3.5	3.5	11.5	10.0	11.0	14.0	10.0	12.0	16.0	13.5	15.0
13	4.0	3.5	3.5	11.5	11.5	11.5	16.5	13.5	15.0	18.0	15.5	16.5
14	3.5	3.5	3.5	12.0	11.0	11.5	17.0	14.5	16.0	18.0	16.0	17.0
15	4.0	3.5	3.5	12.0	10.5	11.0	16.0	14.5	15.5	18.0	16.0	17.0
16	3.5	3.5	3.5	12.0	10.5	11.0	15.5	13.5	14.5	19.5	16.5	18.0
17	3.5	2.5	3.0	11.0	9.0	9.5	16.5	13.5	15.0	21.0	17.0	19.0
18	3.0	2.0	2.5	9.0	5.5	7.5	17.5	14.0	15.5	22.0	19.5	21.0
19	4.0	3.0	3.5	7.0	4.5	6.0	17.0	14.5	16.0	21.0	19.0	20.0
20	4.0	3.0	3.5	7.0	6.0	6.5	17.0	15.0	16.0	20.5	18.0	19.0
21	3.0	2.5	2.5	8.0	5.5	7.0	18.0	16.0	17.0	20.5	19.0	19.5
22	3.0	2.5	2.5	7.5	7.0	7.5	20.0	16.5	18.0	22.5	19.0	20.5
23	4.0	3.0	3.5	6.5	5.5	6.0	19.0	17.0	18.0	23.5	20.5	22.0
24	4.0	4.0	4.0	7.0	4.5	5.5	17.0	13.0	15.0	24.5	21.5	23.0
25	4.5	3.5	4.0	6.0	3.0	4.5	13.0	12.0	12.5	23.5	21.5	22.5
26	5.5	4.5	5.0	7.0	4.0	5.5	13.0	12.5	12.5	24.0	21.0	22.5
27	6.5	5.0	5.5	9.0	6.0	7.0	13.0	12.0	12.5	22.5	21.0	22.0
28	7.5	6.0	6.5	8.5	7.5	8.0	12.5	12.0	12.0	24.0	21.5	22.5
29	---	---	---	12.5	8.5	10.0	13.0	10.5	12.0	22.0	20.5	21.5
30	---	---	---	15.0	12.0	13.0	15.0	11.5	13.5	21.5	19.5	20.5
31	---	---	---	15.0	13.0	14.0	---	---	---	22.0	19.5	20.5
MONTH	7.5	0.5	3.0	15.0	3.0	8.0	20.0	6.0	13.0	24.5	11.0	18.5

01304500 PECONIC RIVER AT RIVERHEAD, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.0	19.0	20.0	25.5	23.5	24.5	24.0	23.0	23.5	25.0	23.0	24.0
2	20.5	19.0	19.5	26.0	24.0	24.5	25.0	23.0	24.0	25.5	23.5	24.5
3	21.5	19.5	20.5	25.5	23.0	24.5	24.0	23.0	23.5	26.0	24.0	25.0
4	21.0	18.5	19.5	25.5	23.5	24.5	23.5	22.5	23.0	25.5	24.0	24.5
5	21.0	19.5	20.0	26.5	24.0	25.0	25.0	23.0	24.0	24.0	23.0	23.5
6	20.0	18.5	19.5	26.5	23.5	25.0	26.0	24.0	25.0	24.0	23.0	23.5
7	18.5	17.0	17.5	25.5	22.0	24.5	27.5	24.5	26.0	23.5	22.5	23.0
8	17.5	16.0	17.0	24.5	23.5	24.0	27.5	25.5	26.5	23.0	22.0	22.5
9	17.0	16.0	16.5	26.0	23.0	24.5	26.5	25.0	25.5	22.0	21.0	21.5
10	16.0	14.0	15.0	25.0	24.0	24.5	26.0	24.5	25.0	21.5	20.5	21.0
11	16.0	13.5	15.0	24.5	23.5	24.0	25.5	24.0	25.0	21.0	20.0	20.5
12	19.0	16.0	17.5	23.5	22.5	23.0	25.5	24.5	25.0	20.5	19.0	20.0
13	21.5	18.0	20.0	24.0	22.5	23.0	25.0	24.0	24.5	19.5	19.0	19.5
14	22.0	20.0	21.0	27.0	23.0	25.0	24.0	22.5	23.5	20.0	19.0	19.5
15	24.5	21.5	23.0	27.5	25.0	26.0	24.0	22.0	23.0	19.5	18.0	18.5
16	23.5	22.0	23.0	27.5	25.5	26.5	23.0	22.0	22.5	18.5	18.0	18.5
17	23.0	21.5	22.0	28.0	26.0	27.0	23.0	22.5	22.5	19.0	18.0	18.5
18	23.5	20.5	22.0	28.0	26.5	27.5	23.0	21.5	22.0	20.5	18.5	19.5
19	25.0	22.5	23.5	28.5	26.5	27.5	23.0	20.5	22.0	22.5	20.0	21.0
20	25.5	23.0	24.0	28.0	26.5	27.0	22.5	20.5	21.5	22.0	19.5	20.5
21	25.0	23.0	24.0	27.5	26.0	27.0	22.5	20.0	21.0	19.5	17.0	18.0
22	24.0	22.5	23.0	27.0	25.5	26.5	21.5	20.5	21.0	17.0	16.0	16.5
23	24.0	21.5	23.0	25.5	24.0	24.5	22.0	20.5	21.0	16.5	16.0	16.0
24	24.5	22.0	23.5	25.0	23.5	24.5	21.5	21.0	21.0	16.0	15.0	16.0
25	24.0	22.5	23.5	24.0	22.0	23.0	22.5	20.5	21.5	15.0	14.0	14.5
26	25.0	22.5	24.0	23.5	21.5	22.5	22.0	20.0	21.0	17.0	14.0	15.5
27	25.0	23.0	24.0	24.0	21.5	22.5	23.0	20.5	21.5	18.0	16.5	17.0
28	25.0	23.0	24.0	23.0	22.0	22.5	24.5	21.5	23.0	19.5	17.0	18.0
29	25.5	23.5	24.5	23.0	21.5	22.5	25.5	23.0	24.5	18.5	17.0	17.5
30	25.5	23.0	24.5	23.0	22.0	22.5	26.0	24.0	25.0	18.5	16.5	17.5
31	---	---	---	24.5	22.0	23.0	25.0	23.5	24.5	---	---	---
MONTH	25.5	13.5	21.0	28.5	21.5	24.5	27.5	20.0	23.5	26.0	14.0	20.0
YEAR	28.5	0.0	13.0									

SUSPENDED SEDIMENT DISCHARGE

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT , 1976					
27...	0830	42	3	.34	91
NOV					
30...	1200	33	5	.45	80
JAN , 1977					
04...	1100	28	1	.14	100
31...	1045	30	--	--	--
FEB					
01...	1000	30	1	.11	79
MAR					
09...	1000	40	14	1.5	99
28...	1100	54	--	--	--
APR					
05...	1100	58	11	1.7	100
19...	1300	45	7	.85	57
MAY					
24...	1000	31	4	.33	100
JUN					
21...	0930	35	--	--	--
JUL					
14...	1430	22	--	--	--
AUG					
09...	1000	23	--	--	--
30...	0900	22	--	--	--
SEP					
27...	1000	48	--	--	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 27,76		NOV 30,76		JAN 4,77		FEB 1,77	
TIME	0830		1200		1100		1000	
TOTAL CELLS/ML	200		520		190		160	
DIVERSITY: DIVISION	0.2		1.5		1.0		0.5	
.CLASS	0.2		1.5		1.0		0.5	
..ORDER	0.9		1.9		1.3		0.8	
...FAMILY	2.1		2.1		2.1		1.7	
....GENUS	2.6		2.4		2.5		2.2	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	4	2	--	-	7	4	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....CRUCIGENIA	--	-	170#	33	--	-	--	-
....SCENEDESMUS	--	-	19	4	24	13	7	4
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	6	1	14	7	11	7
...PHACOTACEAE								
....PTEROMONAS	--	-	--	-	3	2	--	-
....WISLOUCHIELLA	--	-	--	-	24	13	--	-
...VOLVOCACEAE								
....EUDORINA	--	-	--	-	--	-	--	-
....PANDORINA	--	-	--	-	*	0	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....CLOSTERIUM	--	-	--	-	--	-	--	-
....COSMARIUM	--	-	--	-	--	-	--	-
....PLEUROTAENIUM	--	-	--	-	--	-	--	-
....STAURASTRUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	17	9	58	11	*	0	4	2
....MELOSIRA	22	11	3	1	*	0	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....COCCONEIS	4	2	--	-	--	-	--	-
...CYMBELLACEAE								
....AMPHORA	--	-	*	0	--	-	*	0
...EUNOTIACEAE								
....EUNOTIA	--	-	3	1	3	2	11	7
...FRAGILARIACEAE								
....FRAGILARIA	70#	35	140#	27	85#	45	88#	53
....SYNEDRA	4	2	13	2	17	9	22	13
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	*	0	--	-	*	0
...MERIDIONACEAE								
....MERIDION	--	-	--	-	7	4	*	0
...NAVICULACEAE								
....FRUSTULIA	--	-	--	-	--	-	*	0
....NAVICULA	57#	28	*	0	*	0	4	2
....PINNULARIA	4	2	*	0	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	13	7	10	2	3	2	18	11
...SURIRELLACEAE								
....SURIRELLA	--	-	*	0	--	-	--	-
...TABELLARIACEAE								
....TABELLARIA	4	2	--	-	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...MALLOMONADACEAE								
....MALLOMONAS	--	-	--	-	--	-	--	-
...OCHROMONADACEAE								
....DINOBRYON	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE TIME	OCT 27,76 0830		NOV 30,76 1200		JAN 4,77 1100		FEB 1,77 1000	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	93#	18	--	-	--	-
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-	--	-
...RIVULARIACEAE								
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	--	-
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....PHACUS	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	--	-	--	-
...PERIDINIACEAE								
....PERIDINIUM	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITITAVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	APR 19,77	JUN 21,77	AUG 9,77	AUG 30,77
TIME	1000	0930	1000	0900
TOTAL CELLS/ML	4500	8200	2700	1600
DIVERSITY: DIVISION	1.2	0.5	1.5	1.7
.CLASS	1.5	0.5	1.5	1.7
..ORDER	2.2	0.5	2.4	1.9
...FAMILY	2.8	0.6	2.6	2.8
....GENUS	3.0	0.6	2.7	2.9

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	79	1	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	370	8	*	0	--	-	120	7
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	77	3	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	160	10
....SELENASTRUM	--	-	7300#	89	--	-	--	-
....TETRAEDRON	47	1	--	-	--	-	35	2
...SCENEDESMACEAE								
....CRUCIGENIA	--	-	--	-	--	-	--	-
....SCENEDESMUS	190	4	79	1	190	7	220	13
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	210	8	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	1100#	24	--	-	34	1	--	-
...PHACOTACEAE								
....PTEROMONAS	--	-	--	-	--	-	--	-
....WISLOUCHIELLA	--	-	--	-	--	-	--	-
...VOLVOCACEAE								
....EUDORINA	--	-	--	-	1300#	48	--	-
....PANDORINA	700#	15	*	0	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....CLOSTERIUM	--	-	--	-	*	0	15	1
....COSMARIUM	--	-	--	-	*	0	--	-
....PLEUROTAENIUM	--	-	--	-	--	-	*	0
....STAURASTRUM	--	-	--	-	*	0	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	260	6	*	0	*	0	45	3
....MELOSIRA	1100#	24	--	-	39	1	--	-
....STEPHANODISCUS	23	1	--	-	19	1	--	-
..PENNALES								
...ACHNANTHACEAE								
....COCCONEIS	--	-	--	-	--	-	--	-
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	--	-	--	-
...EUNOTIACEAE								
....EUNOTIA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	--	-	230	8	360#	22
....SYNEDRA	47	1	*	0	34	1	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	--	-	--	-
...MERIDIONACEAE								
....MERIDION	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....FRUSTULIA	--	-	--	-	--	-	--	-
....NAVICULA	140	3	--	-	24	1	*	0
....PINNULARIA	--	-	--	-	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	--	-	*	0	--	-	10	1
...SURIRELLACEAE								
....SURIRELLA	--	-	--	-	--	-	--	-
...TABELLARIACEAE								
....TABELLARIA	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...MALLOMONADACEAE								
....MALLOMONAS	420	9	--	-	--	-	--	-
...OCHROMONADACEAE								
....DINOBRYON	47	1	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE TIME	APR 19,77 0000		JUN 21,77 0930		AUG 9,77 1000		AUG 30,77 0900	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCACEAE								
....ANACYSTIS	--	-	--	-	120	4	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	180	11
...OSCILLATORIACEAE								
....LYNGBYA	--	-	630	8	--	-	--	-
....OSCILLATORIA	120	3	--	-	--	-	450#	28
...RIVULARIACEAE								
....RAPHIDIOPSIS	23	1	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	19	1	--	-
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....PHACUS	23	1	--	-	--	-	--	-
....TRACHELOMONAS	--	-	*	0	43	2	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	330	12	--	-
...PERIDINIACEAE								
....PERIDINIUM	--	-	--	-	*	0	25	2

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
Nov. 4[a/]	28	9.5	5.2	36	0.0	120	Polyethylene strip
Aug. 9	21	1.970	0.866	0.089	0.0	124	Polyethylene strip

[a/] 1976 water year; not previously published.

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 (15 m) upstream from Long Island Railroad bridge, 0.2 mi (0.3 km) northeast of Yaphank Station, and 0.5 mi (0.8 km) southeast of Yaphank. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 71 mi^2 (184 km^2).

WATER-DISCHARGE RECORDS

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 (5.471 m) above mean sea level. Prior to Feb. 2, 1967, at same site at datum 1.00 ft (0.30 m) higher.

REMARKS.--Records good. Some regulation by two lakes above station.

AVERAGE DISCHARGE.--35 years, 23.1 ft^3/s (0.654 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 91 ft^3/s (2.58 m^3/s) May 26, 1977, gage height, 1.83 ft (0.558 m); minimum, 2.8 ft^3/s (0.079 m^3/s) Feb. 24, 1967, gage height, 0.73 ft (0.223 m); minimum daily discharge, 6.2 ft^3/s (0.18 m^3/s) Feb. 28, Mar. 3, 1967, (result of temporary construction upstream).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 91 ft^3/s (2.58 m^3/s) May 26, gage height, 1.83 ft (0.558 m); minimum, 8.2 ft^3/s (0.23 m^3/s) Dec. 22, gage height, 0.91 ft (0.277 m) (result of freezeup).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	28	21	21	20	27	24	25	21	21	19	19
2	24	24	22	21	20	26	25	25	23	20	19	19
3	28	23	21	21	20	26	31	25	22	20	18	19
4	28	22	21	21	21	28	26	25	22	20	19	18
5	25	19	21	21	21	32	36	27	22	20	18	18
6	24	24	21	21	21	28	31	26	22	18	18	18
7	23	24	26	21	20	27	28	26	24	17	20	18
8	23	23	26	21	20	26	27	25	23	17	21	18
9	26	23	23	20	20	26	26	26	23	18	19	18
10	25	23	22	30	20	25	26	28	31	19	18	20
11	23	22	22	28	20	25	26	26	27	19	18	19
12	23	22	22	24	21	25	26	25	24	20	18	18
13	22	22	22	23	22	27	26	25	23	22	18	18
14	22	22	20	23	22	29	26	24	22	24	23	18
15	22	22	22	23	22	27	25	23	22	17	21	18
16	22	19	21	23	21	26	26	23	22	17	20	19
17	22	20	22	22	21	25	26	23	21	18	19	23
18	22	21	22	21	21	28	26	23	22	18	19	20
19	21	21	22	21	21	29	26	23	25	18	18	19
20	23	22	22	21	21	27	26	23	20	18	18	29
21	30	21	24	21	21	27	26	23	23	18	18	25
22	25	21	19	21	21	35	26	23	22	18	31	21
23	23	21	23	21	22	35	26	22	21	17	29	20
24	23	21	22	21	24	27	27	22	21	17	23	25
25	24	21	21	21	37	25	30	23	21	19	22	28
26	25	21	22	21	29	24	27	30	24	21	20	25
27	23	22	22	21	28	24	27	33	22	19	20	22
28	23	22	21	21	29	24	26	21	21	18	19	21
29	22	23	22	21	---	25	26	21	22	18	19	20
30	22	22	21	21	---	25	25	21	21	19	19	20
31	25	---	21	21	---	25	---	20	---	19	19	---
TOTAL	738	661	679	678	626	835	805	755	679	584	620	613
MEAN	23.8	22.0	21.9	21.9	22.4	26.9	26.8	24.4	22.6	18.8	20.0	20.4
MAX	30	28	26	30	37	35	36	33	31	24	31	29
MIN	21	19	19	20	20	24	24	20	20	17	18	18

CAL YR 1976 TOTAL 9947 MEAN 27.2 MAX 43 MIN 19
WTR YR 1977 TOTAL 8273 MEAN 22.7 MAX 37 MIN 17

01305000 CARMANS RIVER AT YAPHANK, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT 27...	1145	23	116	6.5	9.0	9.3	30	12	7.0	3.0	7.9
JAN 28...	1300	21	136	6.9	5.0	11.7	26	--	6.5	2.4	8.0
MAR 31...	1045	25	121	7.1	15.0	10.8	25	--	6.3	2.3	7.8
JUL 14...	1330	24	125	6.6	22.5	9.2	28	--	7.0	2.6	10

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
OCT 27...	1.1	22	0	18	13	12	.1	12	71	.79	.86
JAN 28...	1.2	--	--	15	9.6	14	<.5	--	--	1.2	1.1
MAR 31...	1.1	--	--	15	11	13	<.5	--	--	.82	.82
JUL 14...	1.3	--	--	16	10	13	<.0	--	--	.54	.55

DATE	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	NITROGEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
OCT 27...	.01	.01	.01	.49	.50	1.3	.06	.01	390	80
JAN 28...	.00	.00	.11	--	.10	--	.03	--	550	170
MAR 31...	.00	.00	.13	.07	.20	--	.01	--	400	90
JUL 14...	.01	.01	.11	.59	.70	--	.05	.01	500	90

All water-quality samples collected and analyzed by Suffolk County Department of Environmental Control.

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 (29 m) downstream from Montauk Highway in East Patchogue, 200 ft (61 m) downstream from outlet of Swan Lake, and 1.2 mi (1.9 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 8.8 mi^2 (23 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1622: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2.84 ft (0.866 m) above mean sea level.

REMARKS.--Records good, except those for July and August, which are fair. Flow regulated occasionally at outlet of Swan Lake.

AVERAGE DISCHARGE.--31 years, 12.4 ft^3/s (0.351 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 119 ft^3/s (3.37 m^3/s) Sept. 2, 1974, gage height, 1.79 ft (0.546 m), from rating curve extended above 18 ft^3/s (0.51 m^3/s); maximum gage height, 1.80 ft (0.549 m) Sept. 11, 1954 (backwater from debris); minimum discharge, 0.06 ft^3/s (0.002 m^3/s) Sept. 2, 1964, gage height, 0.02 ft (0.006 m); minimum daily, 4.3 ft^3/s (0.12 m^3/s) Oct. 13, 14, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 59 ft^3/s (1.67 m^3/s) July 25, gage height, 1.22 ft (0.372 m), from rating curve extended above 18 ft^3/s (0.51 m^3/s); maximum gage height, 1.33 ft (0.405 m) Jan. 10 (backwater from debris); minimum discharge, 8.5 ft^3/s (0.241 m^3/s) many days in August and September, gage height, 0.45 ft (0.137 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	13	11	10	9.8	11	12	15	11	11	8.5	8.5
2	12	12	11	10	9.4	11	15	15	11	11	8.5	8.5
3	19	12	11	10	9.4	11	16	14	11	11	8.5	8.5
4	16	12	11	10	9.8	14	13	15	11	10	8.9	8.5
5	13	12	11	10	10	14	19	18	11	10	8.1	8.5
6	13	11	11	10	9.8	11	15	18	11	10	7.7	8.5
7	12	11	16	10	9.4	11	14	17	12	10	7.7	8.5
8	12	11	14	10	8.9	11	13	15	12	10	7.7	8.5
9	14	11	11	10	8.9	11	13	16	13	10	7.3	8.5
10	12	11	11	20	10	11	13	17	17	10	7.3	10
11	12	11	11	16	12	11	13	14	13	10	7.3	9.8
12	12	11	11	12	13	11	13	13	12	12	7.0	9.8
13	12	11	10	12	13	12	13	13	12	12	7.7	9.8
14	12	11	11	12	11	13	14	13	12	11	15	10
15	11	11	11	12	11	12	13	13	12	11	10	10
16	12	11	11	11	11	12	14	13	11	11	9.8	11
17	12	11	10	10	11	11	14	13	11	11	9.4	13
18	12	11	16	10	10	13	14	13	11	11	9.4	9.8
19	11	11	13	9.8	10	13	13	13	11	11	8.9	9.4
20	16	11	12	9.8	12	12	13	13	11	10	8.9	23
21	19	11	13	9.8	9.8	12	14	13	12	11	8.9	15
22	14	11	11	9.8	9.4	19	14	13	11	10	16	11
23	13	11	11	9.4	9.4	16	14	13	11	9.8	11	9.8
24	13	11	11	9.4	10	13	14	13	11	9.4	9.8	10
25	14	11	11	9.8	17	13	14	12	11	16	9.8	14
26	14	11	11	9.8	12	12	14	12	14	11	8.9	12
27	13	11	11	9.8	11	12	14	12	12	8.5	8.9	11
28	13	11	10	10	11	12	14	12	12	8.5	8.9	11
29	13	13	10	11	---	13	14	11	12	8.5	8.9	10
30	13	12	10	10	---	12	15	11	11	9.4	8.9	9.8
31	15	---	10	9.8	---	12	---	11	---	9.4	8.5	---
TOTAL	413	339	353	333.2	299.0	382	418	424	353	324.5	282.1	315.7
MEAN	13.3	11.3	11.4	10.7	10.7	12.3	13.9	13.7	11.8	10.5	9.10	10.5
MAX	19	13	16	20	17	19	19	18	17	16	16	23
MIN	11	11	10	9.4	8.9	11	12	11	11	8.5	7.0	8.5

CAL YR 1976 TOTAL 4741.8 MEAN 13.0 MAX 25 MIN 8.9
WTR YR 1977 TOTAL 4236.5 MEAN 11.6 MAX 23 MIN 7.0

01305500 SWAN RIVER AT EAST PATCHOGUE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
JAN 27...	1300	9.8	104	6.6	3.0	11.5	21	5.7	1.7
MAR 31...	1245	12	111	6.7	13.0	9.6	21	5.6	1.7
JUL 15...	1515	11	95	7.8	22.5	10.2	21	5.5	1.8

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
JAN 27...	9.0	1.4	12	6.5	14	<.5	1.7	1.7	.00
MAR 31...	8.0	1.4	13	7.1	11	<.5	1.5	1.4	.00
JUL 15...	8.0	1.0	13	6.9	9.9	<.5	.98	1.1	.00

DATE	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	NITROGEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
JAN 27...	.00	.24	.26	.50	.03	--	200	120
MAR 31...	.00	.19	.01	.20	.02	--	100	90
JUL 15...	.00	.06	.34	.40	.02	.01	200	40

All water-quality samples collected and analyzed by Suffolk County Department of Environmental Control.

01306000 PATCHOGUE RIVER AT PATCHOGUE, NY

WATER-QUALITY RECORDS

LOCATION.--Lat 40°45'56", long 73°01'16", Suffolk County, Hydrologic Unit 02030202, on left bank just downstream from Montauk Highway in Patchogue, and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--About 13.5 mi^2 (35.0 km^2).

PERIOD OF RECORD.--May 1966 to current year.

REMARKS.--Partial-record discharge data included in this report.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
JAN 27...	1030	190	6.7	4.0	10.8	28	6.9	2.6
MAR 31...	1345	160	7.4	14.0	10.9	28	6.9	2.6
JUL 15...	1400	144	7.2	24.5	6.3	29	7.0	2.7

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
JAN 27...	12	2.3	22	9.6	18	<.5	1.7	1.7	.01
MAR 31...	13	2.2	20	10	18	<.5	1.6	1.5	.01
JUL 15...	13	2.0	20	9.9	17	<.5	1.1	1.2	.02

DATE	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	NITROGEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
JAN 27...	.01	.70	.00	.70	.03	--	440	440
MAR 31...	.01	.43	.27	.70	.03	--	600	200
JUL 15...	.02	.11	.39	.50	.01	.00	500	83

All water-quality samples collected and analyzed by Suffolk County Department of Environmental Control.

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 (1.6 km) west of Oakdale. Water-quality sampling site at base gage.

DRAINAGE AREA.--About 24 mi^2 (62 km^2).

WATER-DISCHARGE RECORDS

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 (temporarily removed). Datum of gage is 1.56 ft (0.475 m) above mean sea level.
Supplementary gage 9_1306495): Water-stage recorder with concrete control on left bank of secondary channel 0.25 mi (0.40 km) northeast of base gage at datum 4.74 ft (1.445 m) above mean sea level. Prior to Aug. 10, 1965, at datum 1.0 ft (0.30 m) higher.

REMARKS.--Records poor. 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.

AVERAGE DISCHARGE.--34 years, 37.9 ft^3/s (1.073 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 263 ft^3/s (7.45 m^3/s) Oct. 16, 1955; minimum daily, 16 ft^3/s (0.45 m^3/s) Oct. 13, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 64 ft^3/s (1.81 m^3/s) Apr. 5; minimum daily 25 ft^3/s (0.71 m^3/s) Sept. 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	41	38	35	36	37	37	32	38	36	27	28
2	37	40	37	35	36	36	38	33	38	34	28	27
3	39	40	37	35	36	35	55	32	38	34	28	27
4	41	40	37	35	36	40	46	34	37	34	28	27
5	40	37	34	36	35	45	64	41	37	34	27	27
6	39	34	34	36	34	40	57	40	37	30	27	27
7	39	34	36	36	33	38	47	43	38	28	27	27
8	39	33	37	36	32	37	46	42	37	30	27	26
9	40	33	35	36	32	37	43	43	40	30	27	26
10	40	33	35	50	32	37	42	46	48	29	27	28
11	39	34	35	52	32	36	40	43	43	28	27	28
12	39	34	35	47	33	35	40	38	40	30	27	28
13	39	34	35	45	35	39	39	36	38	30	27	28
14	39	34	34	43	35	40	40	36	38	28	30	25
15	38	34	34	41	35	38	39	34	38	29	29	25
16	38	34	35	40	34	37	38	34	37	29	27	26
17	38	35	36	39	34	36	38	34	37	27	27	31
18	38	35	36	39	34	41	37	34	37	26	27	31
19	37	35	36	39	34	40	35	36	37	26	27	31
20	39	35	36	39	33	38	34	37	36	26	27	34
21	42	35	37	38	33	38	33	37	38	26	26	34
22	39	36	36	38	32	48	33	37	36	26	37	33
23	39	37	36	38	32	62	33	37	36	26	34	31
24	39	37	36	38	32	50	34	40	34	26	33	30
25	40	37	36	38	45	45	46	40	34	28	33	37
26	41	37	36	37	41	44	41	40	42	30	30	33
27	40	37	36	37	39	44	39	38	38	27	30	30
28	40	37	36	37	39	42	37	38	37	27	29	30
29	40	39	36	37	---	42	36	38	38	27	29	29
30	40	38	36	37	---	40	34	38	37	27	28	29
31	41	---	36	36	---	40	---	38	---	27	28	---
TOTAL	1216	1079	1109	1205	974	1257	1221	1169	1139	895	885	873
MEAN	39.2	36.0	35.8	38.9	34.8	40.5	40.7	37.7	38.0	28.9	28.5	29.1
MAX	42	41	38	52	45	62	64	46	48	36	37	37
MIN	37	33	34	35	32	35	33	32	34	26	26	25

CAL YR 1976 TOTAL 15279 MEAN 41.7 MAX 80 MIN 33
WTR YR 1977 TOTAL 13022 MEAN 35.7 MAX 64 MIN 25

01306500 CONNETQUOT RIVER NEAR OAKDALE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--01306499 (Base gage): May 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
JAN 31...	1415	--	92	6.8	2.5	13.0	22	5.0	2.3
APR 01...	1015	31	98	7.3	9.5	10.1	21	4.9	2.2
JUL 11...	1515	--	90	6.6	13.0	4.8	22	4.9	2.4

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
JAN 31...	5.8	1.0	16	5.0	8.0	<.5	1.4	1.4	.00
APR 01...	5.9	.9	16	5.5	8.2	<.5	1.2	1.2	.06
JUL 11...	6.2	.9	--	5.8	8.5	<.5	.84	.93	.01

DATE	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	NITROGEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
JAN 31...	.00	.16	.24	.40	.03	--	200	70
APR 01...	.01	.14	--	.10	.03	--	200	60
JUL 11...	.01	.20	.50	.70	.05	.02	300	100

All water-quality samples collected and analyzed by Suffolk County Department of Environmental Control.

01307000 CHAMPLIN CREEK AT ISLIP, NY

WATER-QUALITY RECORDS

LOCATION.--Lat 40°44'13", long 73°12'08", Suffolk County, Hydrologic Unit 02030202, on right bank just upstream from Long Island Railroad bridge, 220 ft (67 m) downstream from Moffitt Boulevard, at Islip, and 1.8 mi (2.9 km) upstream from mouth.

DRAINAGE AREA.--About 6.5 mi^2 (16.5 km^2).

PERIOD OF RECORD.--Water years 1966 to current year.

REMARKS.--Partial-record discharge data included in this report.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
JAN								
13...	1200	245	6.5	6.5	8.7	39	11	2.7
APR								
01...	1200	205	6.5	12.0	11.0	32	8.7	2.6
JUL								
14...	1010	180	5.9	13.0	6.7	36	10	2.7

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
JAN									
13...	17	2.4	20	18	27	<.5	1.9	1.9	.01
APR									
01...	15	2.3	21	19	22	<.5	1.8	1.8	.02
JUL									
14...	16	2.3	20	19	21	<.5	1.5	1.6	.04

DATE	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	NITROGEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
JAN								
13...	.01	1.3	.30	1.6	.02	--	400	620
APR								
01...	.02	.94	.06	1.0	.02	--	300	530
JUL								
14...	.04	1.1	.30	1.4	.03	.01	500	640

All water-quality samples collected and analyzed by Suffolk County Department of Environmental Control.

01307500 PENATAQUIT CREEK AT BAY SHORE, NY

WATER-QUALITY RECORDS

LOCATION.--Lat 40°43°37", long 73°14'41", Suffolk County, Hydrologic Unit 02030202, on right bank just upstream from Union Avenue in Bay Shore, and 4,500 ft (1,372 m) upstream from mouth.

DRAINAGE AREA.--About 5 mi^2 (13 km^2).

PERIOD OF RECORD.--May 1966 to current year.

REMARKS.--Partial-record discharge data included in this report.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
JAN								
13...	1430	412	6.8	7.0	8.6	59	18	3.4
APR								
01...	1345	420	6.6	15.0	8.5	54	16	3.4
JUL								
14...	1010	380	6.2	16.0	7.2	51	15	3.4

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
JAN									
13...	46	3.4	29	22	70	<.5	3.3	3.4	.01
APR									
01...	40	3.5	24	23	61	<.5	2.2	2.1	.02
JUL									
14...	45	3.5	21	22	66	<.5	3.2	3.6	.06

DATE	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	NITROGEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
JAN								
13...	.01	1.1	.50	1.6	.08	--	2100	1000
APR								
01...	.02	.94	.16	1.1	.03	--	600	750
JUL								
14...	.06	.69	.31	1.0	.03	.01	400	670

All water-quality samples collected and analyzed by Suffolk County Department of Environmental Control.

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 (55 m) downstream from Long Island Railroad, and 0.6 mi (1.0 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 23 mi^2 (60 km^2).

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6.36 ft (1.939 m) above mean sea level. October 1944 to December 1966, water-stage recorder at site 100 ft (30 m) east and 0.34 ft (0.104 m) higher.

REMARKS.--Records good except those from October to December and July to September, which aare 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 (0.3 km) northwest of gage. Prior to November 1950, slight diurnal fluctuation caused by power operations.

AVERAGE DISCHARGE.--33 years, 9.47 ft^3/s (0.268 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136 ft^3/s (3.85 m^3/s) Sept. 12, 1960, gage height, 2.11 ft (0.643 m), datum then in use; maximum gage height, 3.28 ft (1.000 m) Feb. 7, 1971; minimum discharge, 1.6 ft^3/s (0.045 m^3/s) June 28, 1963, gage height, 0.13 ft (0.040 m), datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 55 ft^3/s (1.56 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 10	1200	*73	2.07	1.60	0.49
Mar. 22	1715	69	1.95	1.53	.47
Sept. 25	0615	63	1.78	1.42	0.43

Minimum discharge, 1.9 ft^3/s (0.054 m^3/s) July 23 (result of regulation); minimum gage height, 0.18 ft (0.055 m) Sept. 15, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	5.5	5.8	6.5	5.8	6.8	9.1	9.1	6.5	5.2	4.2	3.5
2	6.8	5.2	6.5	5.8	5.5	6.5	12	9.5	6.5	5.2	4.2	3.0
3	7.5	5.2	5.5	6.1	6.1	6.5	15	8.7	6.1	4.5	4.5	3.0
4	6.8	5.5	5.5	6.5	6.1	11	12	9.1	6.1	4.8	4.8	2.8
5	6.1	5.2	5.2	6.1	6.5	9.5	23	12	6.1	4.8	4.2	2.8
6	6.1	4.8	5.2	5.8	5.5	8.3	14	13	6.5	4.5	5.8	4.5
7	5.8	5.5	15	6.5	5.5	7.9	12	11	7.2	5.2	5.2	2.8
8	5.8	5.5	7.2	5.2	5.5	7.5	11	9.8	6.1	5.1	4.2	2.8
9	12	4.8	6.1	4.8	5.8	7.5	11	12	13	5.8	3.8	2.8
10	6.1	5.5	6.5	24	6.5	7.5	11	10	13	5.8	4.2	7.5
11	5.8	4.8	6.8	9.1	6.8	7.2	11	9.5	9.8	5.8	4.2	3.8
12	5.2	4.8	7.2	8.3	6.8	7.2	11	9.1	8.7	6.8	3.8	3.5
13	5.5	4.8	7.2	7.5	7.2	8.7	11	9.1	7.5	5.8	5.5	3.8
14	5.2	5.2	7.2	7.9	6.5	7.9	10	7.9	7.2	5.5	8.7	4.2
15	4.5	5.5	7.2	7.5	6.5	7.2	9.8	8.7	7.2	5.2	4.5	2.6
16	4.2	5.2	7.2	7.5	6.5	7.2	9.8	8.3	6.8	5.2	4.2	5.2
17	4.2	5.2	7.5	7.2	6.5	7.2	9.8	8.7	6.5	5.5	4.5	9.1
18	4.2	5.5	6.5	7.2	6.1	10	9.5	8.3	6.8	5.5	4.2	3.5
19	3.5	5.2	6.8	6.8	6.1	7.9	9.5	8.3	6.5	5.2	3.8	3.2
20	6.5	4.8	8.3	6.5	6.8	7.9	9.1	7.9	7.9	4.8	3.5	4.5
21	13	5.2	8.3	6.5	6.1	7.5	9.1	7.2	7.9	5.2	3.3	2.6
22	6.8	5.2	6.5	6.5	6.1	20	9.5	7.2	6.1	4.5	12	2.4
23	5.2	5.2	7.2	6.1	5.8	13	9.1	7.2	6.1	3.8	3.3	2.6
24	6.1	5.5	6.8	6.1	6.5	11	12	7.2	6.5	3.8	4.2	11
25	7.2	5.5	7.2	6.8	14	10	15	7.2	7.9	9.5	4.5	23
26	7.5	5.5	8.3	6.5	6.8	9.8	12	6.8	12	4.5	3.2	6.1
27	5.2	5.5	7.2	6.1	7.5	9.8	10	6.8	6.5	2.8	3.0	5.5
28	4.8	5.5	7.2	6.5	7.2	11	11	6.8	6.5	2.5	3.0	5.2
29	5.2	6.8	7.5	6.1	---	10	10	6.1	7.5	2.8	3.0	4.5
30	4.8	5.5	6.5	5.8	---	10	9.8	6.5	5.2	6.5	3.0	4.5
31	11	---	6.8	5.8	---	9.8	---	6.5	---	3.5	3.0	---
TOTAL	198.4	159.1	219.9	221.6	184.6	279.3	338.1	265.5	224.2	156.6	137.5	146.3
MEAN	6.40	5.30	7.09	7.15	6.59	9.01	11.3	8.56	7.47	5.05	4.44	4.88
MAX	13	6.8	15	24	14	20	23	13	13	9.5	12	23
MIN	3.5	4.8	5.2	4.8	5.5	6.5	9.1	6.1	5.2	2.5	3.0	2.4

CAL YR 1976 TOTAL 3432.0 MEAN 9.38 MAX 35 MIN 1.7
WTR YR 1977 TOTAL 2531.1 MEAN 6.93 MAX 24 MIN 2.4

01308000 SAMPAWAMS CREEK AT BABYLON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
JAN									
24...	1345	6.1	260	6.4	6.5	8.2	42	12	3.0
APR									
04...	1315	12	225	6.4	11.0	8.0	39	11	2.9
JUL									
11...	1045	5.8	250	6.0	17.0	2.9	43	12	3.1

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
JAN									
24...	22	3.6	27	26	33	<.5	2.5	2.5	.01
APR									
04...	18	3.2	25	25	26	40	2.1	2.1	.01
JUL									
11...	22	3.7	--	23	29	<.5	2.8	3.1	.14

DATE	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	NITROGEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
JAN								
24...	.01	2.2	.10	2.3	.02	--	800	1700
APR								
04...	.02	1.6	.30	1.9	.04	--	1000	1100
JUL								
11...	.14	.97	.23	1.2	.01	.00	500	350

All water-quality samples collected and analyzed by Suffolk County Department of Environmental Control.

01308500 CARLLS RIVER AT BABYLON, NY

LOCATION.--Lat 40°42'31", long 73°19'44", Suffolk County, Hydrologic Unit 02030202, on left bank in Babylon, 130 ft (40 m) downstream from outlet of Southards Pond and 0.9 mi (1.4 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 35 mi^2 (91 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS (WATER YEARS).--WSP 1141: Drainage area. WDR NY-72-1: 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 (3.240 m) above mean sea level.

REMARKS.--Records good. Occasional regulation at outlet of Southards Pond.

AVERAGE DISCHARGE.--33 years, 25.9 ft^3/s (0.733 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 193 ft^3/s (5.47 m^3/s) June 23, 1967, gage height, 1.99 ft (0.607 m); minimum, 0.05 ft^3/s (0.001 m^3/s) Sept. 4, 1963, July 6, 1966, Aug. 29, 1972 (result of regulation); minimum gage height, 0.03 ft (0.009 m), July 6, 1966, Aug. 29, 1972 (result of regulation); minimum daily discharge, 4.5 ft^3/s (0.13 m^3/s) July 6, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 122 ft^3/s (3.46 m^3/s) Mar. 22, gage height, 1.53 ft (0.466 m); minimum, 0.23 ft^3/s (0.007 m^3/s) Dec. 22, gage height, 0.07 ft (0.021 m) (result of freezeup).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	26	18	17	18	25	25	26	20	17	16	11
2	26	22	18	17	18	22	29	25	20	16	18	11
3	24	22	17	17	18	20	53	25	18	15	17	12
4	23	23	17	17	18	26	32	24	15	15	20	12
5	20	21	17	17	18	36	68	34	15	15	18	12
6	19	20	17	17	18	26	51	32	16	15	19	16
7	18	20	33	18	17	26	36	34	24	15	20	17
8	18	20	35	17	17	26	30	28	22	16	18	12
9	28	19	23	17	18	23	31	32	30	16	16	15
10	27	20	21	53	19	22	33	34	50	15	15	20
11	21	18	20	44	21	20	34	29	30	14	15	18
12	19	18	20	27	22	20	31	26	24	15	15	16
13	19	21	19	26	23	24	29	24	22	20	16	17
14	19	19	17	25	23	27	27	23	19	18	21	21
15	18	19	19	24	22	23	27	22	18	15	19	19
16	18	18	21	23	21	22	29	22	18	15	16	18
17	18	18	19	22	20	22	27	22	21	14	16	27
18	17	18	17	21	19	29	26	22	17	14	15	27
19	17	18	18	21	19	30	26	22	16	13	15	21
20	22	18	19	21	20	25	26	22	20	11	14	23
21	58	18	25	20	19	24	24	21	26	10	13	21
22	29	18	19	20	18	54	22	21	21	10	23	23
23	23	17	20	20	19	69	26	20	18	9.9	22	23
24	22	17	18	20	20	38	26	20	17	10	20	28
25	26	17	18	20	39	34	56	20	15	20	24	66
26	25	17	20	20	27	31	34	19	31	28	18	40
27	22	17	19	20	22	29	29	22	22	20	15	31
28	20	17	18	19	23	30	29	20	20	14	15	31
29	20	21	18	19	---	29	31	18	22	13	14	29
30	20	21	18	18	---	29	26	19	18	22	13	26
31	29	---	18	18	---	26	---	19	---	19	11	---
TOTAL	712	578	616	675	576	887	973	747	645	479.9	527	663
MEAN	23.0	19.3	19.9	21.8	20.6	28.6	32.4	24.1	21.5	15.5	17.0	22.1
MAX	58	26	35	53	39	69	68	34	50	28	24	66
MIN	17	17	17	17	17	20	22	18	15	9.9	11	11

CAL YR 1976 TOTAL 10152.0 MEAN 27.7 MAX 127 MIN 13
WTR YR 1977 TOTAL 8078.9 MEAN 22.1 MAX 69 MIN 9.9

01308500 CARLLS RIVER AT BABYLON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
JAN 24...	1045	20	295	6.7	3.0	11.4	39	11	2.9
APR 04...	1145	32	235	6.6	10.0	8.7	44	13	2.8
JUL 11...	1230	14	240	.9	19.5	5.4	40	11	3.0

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
JAN 24...	25	3.5	25	26	38	<.5	2.6	2.7	.00
APR 04...	20	3.2	22	25	29	<.5	2.1	2.1	.01
JUL 11...	23	3.7	--	25	29	<.5	2.6	2.8	.09

DATE	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	NITROGEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
JAN 24...	.00	2.1	.30	2.4	.01	--	400	1100
APR 04...	.01	1.3	.20	1.5	.02	--	600	630
JUL 11...	.11	.63	.27	.90	.01	.00	500	650

All water-quality samples collected and analyzed by Suffolk County Department of Environmental Control.

01309000 SANTAPOGUE CREEK AT LINDENHURST, NY

WATER-QUALITY RECORDS

LOCATION.--Lat 40°41'30", long 73°21'20", Suffolk County, Hydrologic Unit 02030202, on left bank just upstream from East Hoffman Avenue bridge, 1.0 mi (1.6 km) east of Long Island Railroad station in Lindenhurst, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--About 7 mi^2 (18 km^2).

PERIOD OF RECORD.--Water years 1966 to current year.

REMARKS.--Partial-record discharge data included in this report.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
JAN								
06...	1330	318	6.5	6.5	7.2	65	19	4.2
APR								
04...	1030	380	6.6	9.0	6.9	62	18	4.1
JUL								
11...	1345	310	6.2	17.5	5.7	56	16	4.0

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
JAN									
06...	25	4.8	38	37	34	<.5	2.4	2.4	.01
APR									
04...	27	4.8	50	36	39	<.5	1.4	1.5	.01
JUL									
11...	26	5.0	--	33	34	<.5	2.6	2.9	.03

DATE	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
JAN								
06...	.01	2.4	.30	2.7	.02	.00	1600	1770
APR								
04...	.01	2.5	.30	.01	.02	--	900	1600
JUL								
11...	.03	1.8	.60	2.4	.01	--	700	1200

All water-quality samples collected and analyzed by Suffolk County Department of Environmental Control.

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, NY

LOCATION.--Lat 40°41'20", long 73°27'19", Nassau County, Hydrologic Unit 02030202, on left bank 350 ft (107 m) west of Garfield Street at Lake Shore Drive, Massapequa, 0.2 mi (0.3 km) north of Massapequa Park, and 3,000 ft (914 m) upstream from Clark Avenue Bridge and head of Massapequa Pond of Brooklyn water-supply system. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 38 mi^2 (98 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to October 1903, December 1936 to current year (monthly means estimated December 1959 to February 1961). Published as Massatayun Creek at Massapequa, December 1936 to September 1941.

REVISED RECORDS (WATER YEARS).--WSP 1411: Drainage area. WDR NY-70-1: 1966 to 69 (M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 18.31 ft (5.581 m) above mean sea level, adjustment of 1912. Prior to October 1903, non-recording gage at different datum. December 1936 to March 1961 at same site at datum 1.0 ft (0.30 m) higher.
REMARKS.--Records good. Discharge during part of the year was significantly supplemented by dewatering activities connected with sewer construction throughout the basin.
AVERAGE DISCHARGE.-- 40 years (1937-77), 11.2 ft^3/s (0.317 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 387 ft^3/s (11.0 m^3/s) July 20, 1961, gage height, 2.28 ft (0.695 m); minimum, 0.95 ft^3/s (0.027 m^3/s) Aug. 4, 1963, Nov. 2, 1965, Jan. 8, 1977 (result of freezeup); minimum gage height, 0.32 ft (0.098 m), datum then in use, Aug. 1, 1954.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 110 ft^3/s (3.12 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 20	2315	163	4.62	1.68	0.512
Mar. 22	1800	*173	4.90	1.71	0.521
Sept. 25	0600	120	3.40	1.54	0.469

Minimum discharge, 0.95 ft^3/s (0.027 m^3/s) Jan. 8, gage height, 0.55 ft (0.168 m) (result of freezeup).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	6.7	4.6	4.6	4.3	5.8	12	11	17	8.6	7.0	4.3
2	6.7	6.3	4.6	4.6	4.3	4.9	16	11	18	4.0	8.0	5.4
3	7.2	5.8	4.6	4.6	4.3	4.9	26	13	15	3.4	7.5	4.6
4	6.3	5.8	4.6	4.6	4.3	15	17	17	4.6	3.4	15	4.3
5	5.8	5.8	4.3	4.3	4.6	11	41	24	4.3	9.0	4.6	4.3
6	5.4	5.4	4.3	5.4	4.3	7.2	21	24	11	9.0	16	4.3
7	5.4	5.4	20	4.9	4.3	6.7	20	17	13	9.0	8.0	4.0
8	5.4	5.4	7.2	4.0	4.3	6.3	17	15	11	10	4.6	4.0
9	15	5.4	5.8	4.0	4.3	6.3	17	20	22	5.4	4.3	3.7
10	6.7	5.4	5.4	43	6.1	5.8	18	16	19	4.6	4.3	11
11	5.8	5.4	5.4	11	7.1	5.8	17	14	5.4	11	4.3	4.3
12	5.4	4.9	5.4	8.1	6.7	5.8	17	14	4.3	12	4.3	4.0
13	5.4	4.9	4.9	7.7	7.2	9.5	16	13	14	11	7.5	4.0
14	5.4	4.9	4.9	7.2	6.7	9.9	14	12	16	9.5	7.8	4.0
15	5.4	4.9	4.9	7.2	6.3	7.2	14	12	14	8.6	5.8	4.0
16	5.4	4.9	4.9	6.7	5.8	5.8	12	13	12	6.3	4.9	4.6
17	4.9	4.9	4.9	6.3	5.4	5.8	13	15	11	6.7	4.6	9.0
18	4.9	4.9	4.6	6.3	4.6	12	12	14	9.0	6.3	4.6	4.6
19	4.9	4.9	4.6	5.8	4.6	7.2	13	13	7.7	5.8	4.9	4.3
20	25	4.9	4.9	5.4	5.4	6.3	14	8.6	17	5.8	4.9	5.4
21	23	4.6	6.3	5.4	4.6	9.0	12	6.3	17	6.3	4.9	4.0
22	7.7	4.6	4.6	4.9	4.3	56	12	6.3	14	5.4	13	3.7
23	6.7	4.6	4.6	4.6	4.3	23	12	7.2	14	3.7	5.4	3.7
24	7.7	4.6	4.6	4.6	16	16	19	8.6	12	3.4	7.1	12
25	8.6	4.6	4.6	4.9	13	16	22	11	11	16	8.6	37
26	9.0	4.6	4.9	4.9	6.7	14	18	10	18	8.1	5.4	7.7
27	7.2	4.6	4.6	4.6	6.3	13	17	10	12	5.8	4.9	6.3
28	6.7	4.6	4.6	4.6	6.3	14	16	6.3	8.6	4.0	4.6	5.8
29	6.3	5.4	4.9	4.9	---	14	14	5.4	13	4.6	4.9	4.9
30	6.3	4.6	4.6	4.6	---	13	12	10	9.0	14	4.6	4.9
31	14	---	4.6	4.3	---	13	---	17	---	4.9	4.6	---
TOTAL	253.6	153.7	167.7	208.0	166.4	350.2	501	394.7	373.9	225.6	200.9	188.1
MEAN	8.18	5.12	5.41	6.71	5.94	11.3	16.7	12.7	12.5	7.28	6.48	6.27
MAX	25	6.7	20	43	16	56	41	24	22	16	16	37
MIN	4.9	4.6	4.3	4.0	4.3	4.9	12	5.4	4.3	3.4	4.3	3.7

CAL YR 1976 TOTAL 3720.5 MEAN 10.2 MAX 71 MIN 2.8
WTR YR 1977 TOTAL 3183.8 MEAN 8.72 MAX 56 MIN 3.4

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (Ca,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
DEC											
29...	0830	4.9	340	6.4	2.0	9.1	59	47	18	3.5	25
MAR											
28...	1115	14	320	6.3	11.5	11.5	70	37	21	4.2	26
JUN											
28...	1300	8.6	280	6.0	23.0	11.2	62	48	19	3.6	24
SEP											
19...	1100	4.3	300	6.0	22.5	10.0	60	48	18	3.7	25

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
DEC											
29...	5.0	15	0	12	43	30	.1	10	169	6.3	6.2
MAR											
28...	5.4	40	0	33	45	32	.0	8.6	195	7.6	7.5
JUN											
28...	5.6	17	0	14	43	27	.0	8.8	176	8.1	8.0
SEP											
19...	5.0	15	0	12	39	30	.0	8.8	165	6.3	6.3

DATE	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	NITROGEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
DEC										
29...	.03	.02	2.6	.10	2.7	9.0	.03	.01	410	1700
MAR										
28...	.02	.02	2.8	.20	3.0	11	.03	.01	280	1500
JUN										
28...	.27	.27	1.7	.40	2.1	11	.01	.00	150	620
SEP										
19...	.11	.11	.99	.51	1.5	7.9	.03	.00	400	1400

01310000 BELLMORE CREEK AT BELLMORE, NY

LOCATION.--Lat 40°40'43", long 73°30'58", Nassau County, Hydrologic Unit 02030202, on right bank 40 ft (12 m) east of intersection of Valentine Place and Mill Road, in Bellmore, 0.5 mi (0.8 km) north of Sunrise Highway, and 0.5 mi (0.8 km) northwest of Wantagh. Water-quality sampling site at base gage.

DRAINAGE AREA.--About 17 mi^2 (44 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to October 1883 (fragmentary), July to October 1903, published in Professional Paper 44, September 1937 to current year. Prior to October 1957, published as Wantagh Stream at Wantagh. October 1957 to October 1967, published as Wantagh Stream at Bellmore.

GAGE.--Base gage (01309950): Water-stage recorder. Concrete control since July 24, 1974. Datum of gage is 15.06 ft (4.590 m) above mean sea level. June to October 1883, determination of flow by various methods at different site and datum. July to October 1903, nonrecording gages on two channels near present site at different datum. Sept. 23, 1937, to Aug. 1, 1958, water-stage recorder with concrete control on right bank of present secondary channel about 1,000 ft (305 m) east at datum 1.88 ft (0.573 m) higher (used as supplementary gage since Aug. 1, 1958).

Supplementary gage (01309990): Water-stage recorder with concrete control on right bank of secondary channel about 1,000 ft (305 m) east of base gage at datum 16.96 ft (5.169 m) above mean sea level. Prior to July 28, 1965, at datum 2.00 ft (0.610 m) higher. From July 28, 1965 to Oct. 6, 1965, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good. Prior to Nov. 4, 1955, flow at all stages regulated intermittently at outlet of Wantagh Reservoir, 1.0 mi (1.6 km) above station, and prior to November 1953 by Browning Pond, 0.5 mi (0.8 km) above station. Subsequent to Nov. 3, 1955, permanent diversion of a substantial portion of the flow through west branch of Bellmore Creek. Discharge figures given are those of combined flows in main and secondary channels. Discharge was affected by dewatering activities connected with sewer construction.

AVERAGE DISCHARGE.--40 years (1937-77), 10.5 ft^3/s (0.297 m^3/s).

EXTREMES FOR PERIOD OF RECORD (1903 AND SINCE 1937).--Maximum daily discharge, 162 ft^3/s (4.59 m^3/s) Sept. 12, 1960; maximum discharge prior to begininning of diversion in November 1955, 340 ft^3/s (9.63 m^3/s) June 1, 1952, adjusted to include flow bypassing station; maximum gage height, 4.57 ft (1.393 m) June 1, 1952; minimum daily discharge 0.73 ft^3/s (0.021 m^3/s) July 3 (affected by pumpage).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 46 ft^3/s (1.30 m^3/s) Mar. 22; minimum daily, 2.3 ft^3/s (0.065 m^3/s) July 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	5.6	5.3	6.3	3.2	5.5	8.5	7.1	4.5	4.2	5.1	8.4
2	6.4	5.5	5.6	6.0	3.0	5.2	18	7.2	4.6	3.9	4.4	12
3	6.8	5.3	5.4	6.6	3.0	5.4	15	6.9	4.0	3.9	12	9.2
4	7.8	5.3	5.6	7.1	3.0	16	14	7.3	4.0	4.1	19	7.9
5	7.7	5.3	5.8	6.8	4.1	9.6	30	14	3.8	3.5	9.7	8.1
6	7.3	5.2	6.6	6.5	4.0	6.7	13	22	4.0	3.4	21	8.5
7	6.2	5.3	22	6.7	3.7	7.1	12	10	4.8	3.8	14	7.2
8	5.9	5.1	7.9	6.0	3.1	8.6	11	8.1	4.0	9.5	10	7.7
9	12	4.2	6.5	6.1	3.1	8.4	11	13	19	5.8	9.1	6.9
10	6.1	4.3	6.6	36	4.6	6.9	10	9.4	12	3.7	8.8	13
11	7.0	4.0	6.5	9.9	5.5	6.9	10	8.1	7.3	3.7	8.5	7.0
12	7.1	4.0	7.0	7.9	5.2	5.9	10	8.0	5.7	5.5	8.4	5.9
13	6.1	4.0	8.7	7.3	5.2	9.4	8.8	7.5	4.9	4.4	9.9	5.2
14	6.5	4.1	9.0	7.4	4.3	8.7	9.4	6.9	4.9	3.7	10	4.9
15	6.4	4.2	9.2	7.1	4.2	8.6	9.0	6.3	4.9	3.4	8.4	4.3
16	5.1	4.1	9.2	6.1	3.8	8.0	9.0	6.1	4.3	3.2	8.3	7.2
17	5.0	4.3	9.8	5.3	3.8	6.5	8.5	6.1	4.3	3.1	7.8	12
18	5.1	4.7	9.4	4.7	3.8	12	8.5	6.7	4.4	2.8	9.6	7.4
19	5.3	4.3	9.6	4.2	4.4	6.2	7.9	6.7	4.0	2.7	10	6.9
20	22	3.9	10	3.8	6.4	6.1	7.6	5.8	7.7	2.7	9.4	8.2
21	15	3.9	9.7	3.8	5.0	5.9	7.9	6.0	5.5	2.6	9.1	6.3
22	6.6	3.8	8.3	3.5	4.4	46	9.6	5.8	3.8	2.4	16	5.2
23	6.9	3.7	8.5	3.8	4.6	13	9.6	5.3	3.8	2.3	8.6	5.6
24	10	3.8	8.0	3.8	7.4	10	14	5.2	3.9	2.3	9.7	18
25	9.9	3.8	7.5	3.9	19	9.8	12	6.0	18	11	9.7	28
26	12	4.2	8.1	3.8	5.9	9.2	8.6	5.1	12	4.2	8.1	10
27	7.3	4.7	8.1	3.8	6.1	8.8	9.5	4.9	5.0	3.1	8.5	9.2
28	6.8	4.8	7.9	3.8	5.9	9.2	10	4.7	4.5	3.0	8.7	7.1
29	6.2	7.6	7.9	4.8	---	8.9	8.8	4.2	8.4	2.9	8.0	8.2
30	5.6	6.6	7.3	5.0	---	8.5	7.3	4.2	4.5	8.3	8.2	8.9
31	13	---	6.8	5.7	---	8.5	---	4.2	---	3.5	8.9	---
TOTAL	252.1	139.6	253.8	203.5	139.7	295.5	328.5	228.8	186.5	126.6	306.9	264.4
MEAN	8.13	4.65	8.19	6.56	4.99	9.53	11.0	7.38	6.22	4.08	9.90	8.81
MAX	22	7.6	22	36	19	46	30	22	19	11	21	28
MIN	5.0	3.7	5.3	3.5	3.0	5.2	7.3	4.2	3.8	2.3	4.4	4.3

CAL YR 1976 TOTAL 3499.93 MEAN 9.56 MAX 70 MIN .73
WTR YR 1977 TOTAL 2725.90 MEAN 7.47 MAX 46 MIN 2.3

01310000 BELLMORE CREEK AT BELLMORE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--01309950 (Base gage): April 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
DEC											
29...	0930	3.0	450	6.5	5.0	8.8	63	30	20	3.2	47
MAR											
28...	1300	6.5	380	6.2	10.0	9.1	68	35	21	3.7	38
JUN											
28...	1200	3.5	330	6.5	23.0	10.8	64	31	20	3.3	33
SEP											
22...	1030	4.7	360	6.0	14.0	4.8	68	33	22	3.2	32

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
DEC											
29...	5.3	41	0	34	46	68	.1	9.9	244	5.7	5.5
MAR											
28...	4.8	40	0	33	39	52	.1	8.1	210	5.4	5.4
JUN											
28...	3.4	40	0	33	40	43	.0	8.6	193	4.9	4.8
SEP											
22...	6.6	43	0	35	43	35	.0	8.1	171	6.9	7.0

DATE	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	NITROGEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
DEC										
29...	.03	.03	2.6	.10	2.7	8.4	.03	.01	270	1400
MAR										
28...	.03	.04	2.1	.70	2.8	8.2	.03	.01	460	1200
JUN										
28...	.15	.15	2.2	.30	2.5	7.5	.01	.00	860	400
SEP										
22...	.14	.15	3.2	.10	3.3	10	.09	.00	390	950

01310500 EAST MEADOW BROOK AT FREEPORT, NY

LOCATION.--Lat 40°39'56", long 73"34'13", Nassau County, Hydrologic Unit 02030202, on right bank in Freeport, 24 ft (7 m) upstream from bridge on Hempstead-Babylon Turnpike and 400 ft (122 m) west of Meadowbrook Parkway. Water-quality sampling site at discharge station.
DRAINAGE AREA.--About 31 mi² (80 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1851 to December 1852, June to October 1883, September and October 1885 (fragmentary), June to October 1903, published in Professional Paper 44, January 1937 to current year (monthly means estimated November 1962 to December 1963).
REVISED RECORDS (WATER YEARS).--WRD NY 1972: 1967-71 (P).
GAGE.--Water-stage recorder and concrete control. Datum of gage is 10.48 (3.194 m) above mean sea level, adjustment of 1912. Prior to October 1885, determinations of flow by various methods at different site and datum. June to October 1903, weir in swamp at head of Brooklyn waterworks supply pond. January 1937 to November 1962, water-stage recorder and concrete control at site 81 ft (25 m) east and at datum 0.44 ft (0.134 m) higher.
REMARKS.--Records good.
AVERAGE DISCHARGE.--40 years (1937-77), 14.8 ft³/s (0.419 m³/s).
EXTREMES FOR PERIOD OF RECORD (1903 AND SINCE 1937).--Maximum discharge, 835 ft³/s (23.6 m³/s) Sept. 12, 1960, gage height, 4.38 ft (1.335 m), datum then in use, from rating curve extended above 280 ft³/s (7.93 m³/s) on basis of flow-through-culvert and contracted-opening measurement of peak flow; no flow Aug. 26, 1971.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s (7.08 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 21	0015	270	7.65	1.82	0.555	Mar. 22	1830	*360	10.2	2.15	0.655
Jan. 10	1315	299	8.47	1.93	.588	June 25	2145	291	8.24	1.90	.579

Minimum, 1.7 ft³/s (0.048 m³/s) July 24, 25; minimum gage height, 0.21 ft (0.064 m) July 24, 25, Sept. 2, 5, 12.
REVISIONS.--The peak discharges and annual maximum (*) subsequent to April 4, 1973 have been revised as shown in the following table. They supersede figures published in WRD NY 1973, 1974, 1975-1, 1976-2.

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 4, 1973	1830	358	10.1	2.14	0.652	July 12, 1975	0700	250	7.08	1.74	0.530
June 30, 1973	0630	315	8.92	1.99	.607	July 21, 1975	0430	*438	12.4	2.41	.735
Dec. 21, 1973	0800	252	7.14	1.75	.533	Aug. 25, 1975	0200	366	10.4	2.17	.661
Mar. 21, 1974	1630	*366	10.4	2.17	.661	Sept. 26, 1975	1500	313	8.86	1.98	.604
Dec. 16, 1974	1930	420	11.9	2.35	.716	Nov. 13, 1975	0030	283	8.01	1.87	.570
Apr. 3, 1975	1330	278	7.87	1.85	.564	Aug. 8, 1976	1500	369	10.5	2.18	.664
June 6, 1975	1800	378	10.7	2.21	.674	Aug. 10, 1976	0245	*638	18.1	3.05	.930
June 12, 1975	2100	378	10.7	2.21	.674						

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	8.7	4.0	3.6	2.4	4.4	6.8	7.7	6.4	5.6	7.7	2.4
2	7.7	7.3	4.0	3.3	2.4	4.0	19	7.7	6.4	5.2	8.7	4.4
3	12	6.8	3.6	3.3	2.7	4.4	30	7.3	5.6	4.0	8.2	6.0
4	8.2	6.8	3.6	4.0	2.7	26	13	7.3	5.6	4.0	18	2.4
5	6.8	6.4	3.6	3.6	2.9	18	61	26	5.2	4.0	5.6	2.2
6	6.8	6.0	3.3	3.3	2.7	6.8	14	40	6.0	4.0	22	5.2
7	6.4	6.4	46	3.6	2.4	6.0	10	15	7.7	6.0	12	3.3
8	6.4	6.0	10	3.3	2.4	5.2	9.8	9.8	5.6	11	6.0	2.9
9	29	5.6	6.4	2.7	2.4	5.2	8.7	18	40	11	3.6	2.4
10	9.3	6.0	5.6	75	4.0	5.2	8.7	12	28	4.4	2.9	6.4
11	6.8	5.6	5.2	12	7.7	4.8	8.7	8.7	12	4.0	2.9	2.9
12	6.4	5.6	4.8	6.8	6.4	4.4	9.3	8.2	8.2	12	3.3	2.2
13	6.8	5.6	4.8	5.6	6.0	13	9.3	7.7	7.7	7.3	17	2.7
14	6.4	5.6	4.0	5.2	4.8	7.7	8.7	7.3	7.3	5.6	8.7	2.7
15	6.0	5.6	4.4	5.2	4.4	5.2	8.7	6.8	6.4	4.4	4.8	2.4
16	6.0	5.2	4.4	4.8	4.0	5.2	7.7	6.8	5.2	3.3	3.3	2.9
17	6.0	5.2	4.8	4.4	4.0	4.8	7.7	6.8	4.8	2.7	3.3	9.3
18	5.6	5.6	4.0	4.0	3.6	15	7.7	7.7	4.8	2.7	3.6	3.6
19	5.6	5.2	3.6	3.6	3.3	7.7	8.2	9.8	4.4	3.6	3.6	2.7
20	30	4.8	4.0	3.6	4.0	5.6	7.7	6.4	5.6	3.6	2.9	9.3
21	51	4.8	9.3	3.3	4.0	5.6	7.7	6.4	9.3	4.0	2.4	4.0
22	9.8	4.8	3.6	3.3	3.6	99	7.7	6.0	4.8	3.6	18	2.9
23	7.7	4.8	3.6	2.9	3.6	25	7.3	7.3	4.4	2.4	4.4	2.4
24	8.7	4.4	3.6	2.9	4.8	12	19	9.8	4.0	2.0	4.8	22
25	13	4.4	3.3	3.3	49	9.3	21	8.2	41	23	11	61
26	15	4.4	4.0	3.3	6.8	8.2	12	7.3	40	8.7	3.6	31
27	7.7	4.0	4.0	2.9	5.6	7.7	9.8	7.3	8.7	4.0	3.6	13
28	6.8	4.0	3.6	2.9	6.0	8.2	9.8	4.4	7.3	2.9	2.9	6.4
29	7.3	6.0	3.6	3.3	---	8.7	12	3.6	15	2.7	2.7	5.2
30	6.8	4.8	3.6	2.7	---	7.7	8.2	5.6	6.8	14	2.4	4.4
31	29	---	3.6	2.4	---	7.3	---	6.4	---	4.0	2.4	---
TOTAL	361.0	166.4	179.9	194.1	158.6	357.3	379.2	299.3	324.2	179.7	206.3	230.6
MEAN	11.6	5.55	5.80	6.26	5.66	11.5	12.6	9.65	10.8	5.80	6.65	7.69
MAX	51	8.7	46	75	49	99	61	40	41	23	22	61
MIN	5.6	4.0	3.3	2.4	2.4	4.0	6.8	3.6	4.0	2.0	2.4	2.2

CAL YR 1976 TOTAL 5057.6 MEAN 13.8 MAX 164 MIN 3.3
WTR YR 1977 TOTAL 3036.6 MEAN 8.32 MAX 99 MIN 2.0

01310500 EAST MEADOW BROOK AT FREEPORT, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
DEC											
29...	1030	3.6	750	6.6	4.0	9.7	71	37	21	4.4	100
MAR											
28...	1345	7.7	540	6.6	10.0	9.4	73	41	21	4.9	73
JUN											
28...	1030	7.3	340	6.3	21.5	7.7	59	30	17	3.9	40
SEP											
22...	0900	2.9	310	5.6	15.0	6.2	54	30	16	3.5	35

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
DEC											
29...	4.1	41	0	34	38	160	.1	7.9	373	3.8	3.8
MAR											
28...	3.6	39	0	32	38	120	.3	7.9	304	3.7	3.7
JUN											
28...	3.2	35	0	29	25	63	.0	4.8	184	2.2	2.2
SEP											
22...	3.2	30	0	25	25	50	.0	5.2	163	2.2	2.2

DATE	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
DEC										
29...	.04	.04	.95	.35	1.3	5.1	.03	.01	490	630
MAR										
28...	.01	.02	.72	.78	1.5	5.2	.02	.01	610	580
JUN										
28...	.08	.08	.50	.60	1.1	3.4	.02	.00	700	370
SEP										
22...	.04	.04	.44	.33	.77	.30	.12	.01	790	240

01311000 PINES BROOK AT MALVERNE, NY

LOCATION.--Lat 40°39'59", long 73°39'35", Nassau County, on left bank 300 ft (91 m) downstream from Lakeview Avenue and southern boundary of Malverne. Water-quality sampling site at discharge station.
DRAINAGE AREA.--About 10 mi^2 (26 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1851-52, 1856-57, 1885, 1894 (fragmentary in Professional Paper 44); December 1936 to current year (monthly means estimated March to September 1970).
REVISED RECORDS (WATER YEARS).--WSP 1432: 1937, 1940.
GAGE.--Water-stage recorder with steel plate V-notch weir and concrete controls. Datum of gage is 7.11 ft (2.167 m) above mean sea level, adjustment of 1912 (Nassau County bench mark). Prior to 1894, determinations of flow by various methods, at different sites and datums. December 1936 to Oct. 1, 1970, at site 200 ft (61 m) upstream and at datum 2.31 ft (0.704 m) higher. Oct. 1, 1970 to May 31, 1972, supplementary gage on secondary channel 10 ft (3 m) downstream at same datum.
REMARKS.--Records fair except those for period of no gage height record, October 1 to November 8, which are poor. Prior to Feb. 20, 1956, flow occasionally regulated by Pines Pond. Indeterminate diversion from Pines Pond for emergency municipal water supply for City of New York, August 1953 to September 1954.
AVERAGE DISCHARGE.--40 years (1937-77), 4.01 ft^3/s (0.114 m^3/s).
EXTREMES FOR PERIOD OF RECORD (SINCE 1936).--Maximum discharge, 346 ft^3/s (9.80 m^3/s) Sept. 12, 1960, gage height, 4.51 ft (1.375 m), from rating curve extended above 95 ft^3/s (2.69 m^3/s) on basis of flow-through-culvert measurement of peak flow; no flow part of Sept. 12, 1963, and at times from 1964 to 1975, 1977.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 125 ft^3/s (3.54 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 10	1130	274	7.76	4.21	1.28
Feb. 25	0045	209	5.92	4.02	1.23
Mar. 22	1645	*294	8.33	4.27	1.30
May 6	1800	133	3.77	3.74	1.14
June 25	2045	147	4.16	3.80	1.16
Sept. 25	0615	131	3.71	3.73	1.14
Sept. 26	1900	179	5.07	3.92	1.19

No flow for all or part of many days in July, August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	.50	.21	.27	.13	.78	.56	.52	.23	.17	1.7	0
2	.25	.45	.23	.23	.08	.82	10	.51	.24	.10	.08	.76
3	.50	.40	.21	.22	.04	.88	5.4	.49	.20	.09	.26	.06
4	.30	.35	.21	.24	.04	10	3.6	.51	.20	.08	3.3	0
5	.21	.34	.21	.21	.06	6.0	20	7.1	.19	.06	.06	0
6	.21	.33	.21	.22	.07	.70	.83	15	.18	.04	.97	.43
7	.21	.32	15	.27	.07	.59	.72	.82	.21	.05	2.8	.03
8	.21	.31	.39	.25	.06	.49	.71	.54	.18	.18	.06	0
9	10	.31	.30	.26	.06	.55	.68	3.1	13	.10	.04	0
10	.50	.30	.32	45	.30	.59	.78	.64	4.5	.06	.01	.08
11	.22	.31	.49	.69	1.0	.60	.77	.51	.37	.02	0	.02
12	.21	.30	.46	.43	.44	.63	.64	.48	.31	1.5	0	0
13	.22	.31	.23	.44	.39	1.8	.63	.47	.26	.16	4.9	0
14	.21	.31	.24	.44	.35	.52	.62	.43	.23	.14	.31	0
15	.20	.27	.26	.42	.37	.48	.62	.42	.21	.04	.06	0
16	.20	.31	.29	.39	.32	.51	.63	.41	.17	.02	.04	.16
17	.20	.27	.27	.39	.31	.48	.77	.38	.18	0	.05	1.8
18	.20	.27	.26	.39	.31	4.9	.65	.50	.18	0	.04	.03
19	.20	.27	.25	.39	.38	.68	.57	.38	.16	0	.03	.01
20	5.0	.25	.38	.39	.56	.70	.58	.40	.90	0	.02	.11
21	15	.25	.33	.39	.53	.55	.54	.41	.21	0	0	.02
22	.60	.25	.25	.39	.49	66	.54	.34	.17	0	4.2	0
23	.40	.24	.25	.39	.45	3.7	.54	.34	.14	0	.09	0
24	.50	.24	.24	.39	7.6	.64	3.2	.30	.13	0	.53	7.5
25	.70	.23	.25	.39	25	.63	3.1	.29	16	9.2	.69	23
26	1.0	.23	.31	.31	.83	.60	.60	.29	5.4	.05	.09	22
27	.40	.23	.26	.27	.90	.67	.58	.26	.21	0	.06	.61
28	.35	.23	.26	.27	.79	.83	1.1	.27	.21	0	.04	.20
29	.30	.35	.25	.24	---	.69	.99	.28	.33	0	.02	.17
30	.30	.21	.24	.19	---	.58	.54	.22	.18	.43	0	.17
31	10	---	.24	.15	---	.58	---	.19	---	.03	0	---
TOTAL	50.80	8.94	23.30	54.92	41.93	108.17	61.49	36.80	45.18	12.52	20.45	57.16
MEAN	1.64	.30	.75	1.77	1.50	3.49	2.05	1.19	1.51	.40	.66	1.91
MAX	15	.50	15	45	25	66	20	15	16	9.2	4.9	23
MIN	.20	.21	.21	.15	.04	.48	.54	.19	.13	0	0	0

CAL YR 1976 TOTAL 756.71 MEAN 2.07 MAX 50 MIN .07
WTR YR 1977 TOTAL 521.66 MEAN 1.43 MAX 66 MIN 0

01311000 PINES BROOK AT MALVERNE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
DEC											
29...	1145	.25	360	6.5	2.0	9.3	90	56	26	6.0	21
MAR											
28...	1430	.83	300	6.4	10.0	10.9	88	55	25	6.2	20
JUN											
28...	0900	.21	330	6.7	22.0	8.7	96	55	27	7.0	26
SEP											
29...	0915	.17	300	6.6	14.0	8.6	88	48	25	6.3	20

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
DEC											
29...	4.3	41	0	34	52	32	.1	9.7	187	3.4	3.5
MAR											
28...	3.7	40	0	33	52	33	.2	9.0	187	2.3	4.0
JUN											
28...	4.9	50	0	41	45	41	.0	8.9	196	2.8	2.7
SEP											
29...	4.1	49	0	40	38	30	.0	7.9	155	1.9	1.9

DATE	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	NITROGEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
DEC										
29...	.07	.07	.61	.49	1.1	4.6	.04	.01	440	1600
MAR										
28...	.01	.02	.26	.24	.50	2.8	.03	.01	240	1200
JUN										
28...	.04	.04	.31	.24	.55	3.4	.01	.00	500	1100
SEP										
29...	.03	.03	.20	.27	.47	2.4	.02	.00	290	830

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 (12 m) upstream from West Valley Stream Boulevard, at Valley Stream.

DRAINAGE AREA.--About 4.5 mi^2 (12 km^2).

WATER-DISCHARGE RECORDS

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 as Watts Creek at Valley Stream.

REVISED RECORDS (WATER YEARS).--WRD NY 1971: 1962-63(M), 1966-69(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 7.49 ft (2.283 m) above mean sea level. 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 (0.30 m) higher.

REMARKS.--Records good except those above 50 ft^3/s (1.42 m^3/s), which are fair. Flow regulated occasionally by cleaning operations at outlet of Valley Stream Pond above station.

AVERAGE DISCHARGE.--23 years (1954-77), 2.76 ft^3/s (0.078 m^3/s).

EXTREMES FOR PERIOD OF RECORD (SINCE 1954).--Maximum discharge, 232 ft^3/s (6.57 m^3/s) Sept. 12, 1960, gage height, 5.50 ft (1.676 m), from floodmarks; no flow at times each year since 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 96 ft^3/s (2.72 m^3/s) Mar. 22, gage height, 2.78 ft (0.847 m); no flow for all or part of many days during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0		0	0	0	0	0	0	0	0	0	0
2	0		0	0	0	0	.58	0	0	0	0	1.0
3	0		0	0	0	0	2.8	0	0	0	0	0
4	0		0	0	0	1.2	.18	0	0	0	.36	0
5	0		0	0	0	1.9	13	.05	0	0	0	0
6	0		0	0	0	0	.62	3.5	0	0	0	0
7	0		3.9	0	0	0	.01	1.4	0	0	.07	0
8	0		.31	0	0	0	0	0	0	0	0	0
9	0		0	0	0	0	0	.53	.29	0	0	0
10	0		0	17	0	0	0	0	.14	0	0	0
11	0		0	3.0	0	0	0	0	0	0	0	0
12	0		0	.04	0	0	0	0	0	0	0	0
13	0		0	0	0	0	0	0	0	0	.02	0
14	0		0	0	0	0	0	0	0	0	.02	0
15	0		0	0	0	0	0	0	0	0	0	0
16	0		0	0	0	0	0	0	0	0	0	0
17	0		0	0	0	0	0	0	0	0	0	0
18	0		0	0	0	0	0	0	0	0	0	0
19	0		0	0	0	0	0	0	0	0	0	.27
20	1.8		0	0	0	0	0	0	0	0	0	0
21	6.8		0	0	0	0	0	0	0	0	0	0
22	0		0	0	0	24	0	0	0	0	0	0
23	0		0	0	0	3.6	0	0	0	0	0	0
24	0		0	0	.54	0	0	0	0	0	.02	.51
25	0		0	0	15	0	0	0	.91	.20	0	5.8
26	0		0	0	.02	0	0	0	4.6	0	0	15
27	0		0	0	0	0	0	0	0	0	0	3.5
28	0		0	0	0	0	0	0	0	0	0	0
29	0		0	0	---	0	0	0	0	0	0	0
30	0		0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	8.6	0	4.21	20.04	15.56	30.7	17.19	5.48	5.94	.20	.49	26.08
MEAN	.28	0	.14	.65	.56	.99	.57	.18	.20	.007	.016	.87
MAX	6.8	0	3.9	17	15	24	13	3.5	4.6	.20	.36	15
MIN	0	0	0	0	0	0	0	0	0	0	0	0

CAL YR 1976 TOTAL 339.56 MEAN .93 MAX 40 MIN 0
WTR YR 1977 TOTAL 134.49 MEAN .37 MAX 24 MIN 0

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 1977

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01302200	Whitney Lake Outlet at Manhasset, N.Y.	Lat 40°47'30", long 73°42'32", Nassau County, at bridge on Creek Road, at Manhasset, 0.25 mile (0.40 km) northwest of State Highway 25A.	--	1953-77	10-14-76 11-24-76 4-15-77 9- 2-77	0.54 1.5 1.6 .85
01302300	Roslyn Brook at Roslyn, N.Y.	Lat 40°47'55", long 73°38'51", Nassau County, at Roslyn, 200 ft (61 m) downstream from dam in Roslyn Park.	--	1953-77	11- 3-76 9- 2-77	.32 .57
01302800	Island Swamp Brook at Lattingtown, N.Y.	Lat 40°53'25", long 73°37'10", Nassau County, at bridge on Lattingtown Road, 0.3 mile (0.5 km) southwest of Lattingtown, and 1.5 miles (2.4 km) northwest of Locust Valley.	--	1953-77	11-24-76 9- 2-77	.55 .77
01303600	Mill Creek near Huntington, N.Y.	Lat 40°52'56", long 73°25'17", Suffolk County, at culvert on Creek Road, 300 ft (91 m) west on New York Ave., 1 mile (2 km) northeast of Huntington.	--	1953-77	11-24-76 5- 3-77 9- 2-77	2.7 5.9 2.3
01303700	Stony Hollow Run at Centerport, N.Y.	Lat 40°53'05", long 73°21'41", Suffolk County, at culvert on State Highway 25A, 0.25 mile (0.40 km) east of Centerport, and 1.5 miles (2.4 km) southwest of Northport.	--	1953-77	5- 3-77 9- 2-77	.49 .26
01303742	Fresh Pond Outlet at Fort Salonga, N.Y.	Lat 40°55'26", long 73°17'43", Suffolk County, 200 ft (61 m) downstream from Fresh Pond outlet, 0.75 mi (1.21 km) north of Fort Salonga.	--	1977	3-15-77 8-23-77	1.7 .86
01303790	Northeast Branch Nissequogue River near East Hauppauge, N.Y.	Lat 40°50'27", long 73°10'41", Suffolk County, at culvert on State Highway 347, 1.5 miles (2.4 km) northwest of East Hauppauge, and 4.0 miles (6.4 km) upstream from gaging station near Smithtown.	--	1972-77	5- 2-77	.30
01303850	Northeast Branch Nissequogue River near Hauppauge, N.Y.	Lat 40°50'43", long 73°11'50", Suffolk County, at culvert on Maple Avenue, 0.75 mile (1.21 km) south of Smithtown, and 2.5 miles (4.0 km) upstream from gaging station near Smithtown.	--	1972-77	12-15-76 9- 9-77	1.9 .68
01303900	Northeast Branch Nissequogue River near Smithtown, N.Y.	Lat 40°50'45", long 73°12'29", Suffolk County, 10 ft upstream from culvert at Brooksite Drive, 0.75 mile (1.21 km) southwest of Smithtown, and 2.0 miles (3.2 km) upstream from gaging station near Smithtown.	--	1953-77	12-15-76 9- 9-77	2.7 3.4

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01303941	Nissequogue River near Hauppauge, N.Y.	Lat 40°50'30", long 73°13"43", Suffolk County, 30 ft (9 m) downstream from dam at New Mill Road, 2 miles (3 km) northwest of Hauppauge, and 0.5 mile (0.8 km) upstream from gaging station near Smithtown.	--	1972-77	12-15-76 9- 9-77	22 20
01304010	Nissequogue River at Smithtown, N.Y.	Lat 40°51'48", long 73°12'05", Suffolk County, at culvert on Landing Ave., at Smithtown, and 1.5 miles (2.4 km) downstream from gaging station near Smithtown.	--	1974-77	12-15-76 9- 9-77	42 43
01304051	Stony Brook at Stony Brook, N.Y.	Lat 40°54'53", long 73°08'52", Suffolk County, 100 ft (30 m) downstream from Harbor Road, at Stony Brook.	--	1977	3-15-77 8-23-77	2.5 3.0
01304060	Unnamed Tributary to Conscience Bay at Setauket, N.Y.	Lat 40°56'49", long 73°07'01", Suffolk County, 30 ft (9 m) downstream from pond below Old Field Road, at Setauket.	--	1977	3-15-77 8-23-77	1.5 1.0
01304065	Unnamed Tributary to Setauket Harbor at East Setauket, N.Y.	Lat 40°56'35", long 73°06'08", Suffolk County, at culvert on State Highway 25A, at East Setauket.	--	1977	3-15-77 8-23-77	.22 .26
01304070	Unnamed Tributary to Port Jefferson Harbor at Port Jefferson, N.Y.	Lat 40°56'41", long 73°04'18", Suffolk County, at culvert on Barnum Ave., at Port Jefferson.	--	1977	4-19-77 8-23-77	.97 .51
01304100	Wading River at Wading River, N.Y.	Lat 40°57'20", long 72°51'19", Suffolk County, at pond outlet, 0.25 mile (0.40 km) west of Wading River.	--	1953-62 1964-77	4-19-77 8-24-77	.72 .67
01304150	Fresh Pond Outlet, at Baiting Hollow, N.Y.	Lat 40°57'43", long 72°46'17", Suffolk County, 25 ft (8 m) below dirt road at outlet of Fresh Pond, 0.7 mi (1.1 km) northwest of Baiting Hollow.	--	1977	4-19-77	.39
01304400	Peconic River at Manorville, N.Y.	Lat 40°52'38", long 72°49'42", Suffolk County, at bridge on Schultz Road, 1 mile (2 km) northwest of Manorville, and 8.5 miles (13.7 km) upstream from gaging station at Riverhead.	--	1953-62 1951-77	11-10-76 4-19-77 9- 9-77	3.8 7.4 .84
01304410	Peconic River near Manorville, N.Y.	Lat 40°53'02", long 72°48'26", Suffolk County, at culvert on Manor Road, 0.8 mile (1.3 km) north of Manorville, and 7.2 miles (11.6 km) upstream from gaging station at Riverhead.	--	1973-77	11-10-76	6.1
01304440	Peconic River near Calverton, N.Y.	Lat 40°54'02", long 72°46'27", Suffolk County, at culvert on Connecticut Avenue, 1.7 miles (2.7 km) southwest of Calverton, and 4.8 (7.7 km) upstream from gaging station at Riverhead.	--	1973-77	11-10-76	9.4
01304450	Peconic River at Calverton, N.Y.	Lat 40°54'20", long 72°44'35", Suffolk County, at culvert on Edwards Avenue, 0.2 mile (0.3 km) south of Calverton, and 3.0 miles (4.8 km) upstream from gaging station at Riverhead.	--	1971-77	11-10-76	19

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01304510	Peconic River at Nugent Drive, at Riverhead, N.Y.	Lat 40°55'03", long 72°40'11", Suffolk County, at bridge on Nugent Drive, at Riverhead, and 1.4 miles (2.3 km) downstream from gaging station at Riverhead.	--	1976-77	11-10-76 4-19-77 9- 7-77	46 74 52
01304530	Little River near Riverhead, N.Y.	Lat 40°53'52", long 72°40'30", Suffolk County, at Wildwood Lake outlet, 500 ft (152 m) east of Moriches-Riverhead Road, 1.5 miles (2.4 km) southwest of Riverhead.	--	1952-77	4-12-77 9- 7-77	5.6 3.4
01304560	White Brook at Riverhead, N.Y.	Lat 40°54'40", long 72°38'37", Suffolk County, at culvert on State Highway 24, 1 mile (2 km) southeast of Riverhead.	--	1953-69 1973-77	4-12-77 9- 7-77	2.1 3.1
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 miles (5.6 km) northwest of Southampton.	--	1951-69 1971-77	4-26-77 8-26-77	1.6 .30
01304630	Mill Creek at Noyack, N.Y.	Lat 40°59'35", long 72°21'00", Suffolk County, 50 ft (15 m) upstream from culvert on Noyack Road, 0.25 mile (0.40 km) west of Noyack.	--	1958-77	4-26-77 8-26-77	.94 .46
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 mile (1.21 km) southwest of Sag Harbor.	--	1953-69 1973-77	4-26-77 8-26-77	.14 .02
01304730	Poxabogue Pond at Sagaponack, N.Y.	Lat 40°55'48", long 72°17'16", Suffolk County, at culvert on Sagg St., at Sagaponack, and 1 mile (2 km) southeast of Bridgehampton.	--	1953-77	4-26-77 8-26-77	2.9 2.8
01304745	Weesuck Creek at East Quogue, N.Y.	Lat 40°50'52", long 72°34'42", Suffolk County, at culvert on State Highway 27A, 0.5 mile (0.8 km) northeast of East Quogue.	--	1974-77	11-17-76 4-12-77 8-26-77	1.5 1.8 2.0
01304760	Quantuck Creek at Quogue, N.Y.	Lat 40°49'57", long 72°37'06", Suffolk County, at culvert in Old Meeting House Road, 1 mile (2 km) northwest of Quogue.	-- --	1953-69 1974-77	11-17-76 4-11-77 8-26-77	1.9 .64 .75
01304780	Aspatuck Creek near Westhampton Beach, N.Y.	Lat 40°49'04", long 72°38'13", Suffolk County, at culvert on Brook Road, at Westhampton Beach.	--	1959-77	11-17-76 4-11-77	1.1 1.5
01304800	Beaverdam Creek at Westhampton, N.Y.	Lat 40°49'23", long 72°39'42", Suffolk County, at culvert on Old Country Road, 100 ft (30 m) northwest of State Highway 27, and 1 mile (2 km) northwest of Westhampton.	--	1953-77	11-17-76 4-11-77 8-26-77	1.6 2.5 1.2
01304820	Speonk River at Speonk, N.Y.	Lat 40°29'06", long 72°41'29", Suffolk County, at culvert on State Highway 27A, 0.75 mile (1.21 km) east of Speonk.	--	1974-77	11-17-76 8-26-77	.62 .82
01304830	East River at Eastport, N.Y.	Lat 40°49'24", long 72°43'02", Suffolk County, 15 ft (5 m) upstream from culvert on Long Island Railroad, 200 ft (60 m) south of State Highway 27, 0.5 mile (0.8 km) east of Eastport.	--	1953-69 1973-77	11-17-76 4-11-77 8-26-77	1.1 .48 .38

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01304860	Seatuck Creek at Eastport, N.Y.	Lat 40°49'30", long 72°43'43", Suffolk County, 15 ft (5 m) downstream from culvert on State Highway 27, at Eastport.	--	1953-77	4-11-77 8-26-77	6.2 2.2
01304900	Little Seatuck Creek at Eastport, N.Y.	Lat 40°49'12", long 72°44'23", Suffolk County, at culvert on Moriches Blvd., 0.75 mile (1.21 km) southwest of Eastport.	--	1955-69 1974-77	11-17-76 4-11-77 8-26-77	3.9 5.9 3.5
01304960	Forge River at Moriches, N.Y.	Lat 40°48'22", long 72°50'00", Suffolk County, at culvert on State Highway 27, at Moriches.	--	1948-50 1952-77	3-17-77 9-29-77	6.6 5.6
01304990	Carmans River at Middle Island, N.Y.	Lat 40°51'47", long 72°56'35", Suffolk County, at culvert on East Bartlett Road, 0.75 mile (1.21 km) south of Middle Island, and 3.0 miles (4.8 km) upstream from gaging station at Yaphank.	--	1947-77	12-13-76 4-12-77 7-27-77 9-29-77	.75 2.5 .36 .56
01304995	Carmans River near Yaphank, N.Y.	Lat 40°50'29", long 72°56'13", Suffolk County, 25 ft downstream from Mill Road, 1.2 miles (1.9 km) northwest of Yaphank, and 1.9 miles (3.1 km) upstream from gaging station at Yaphank.	--	1973-77	12-13-76 4-12-77 7-27-77 9-29-77	8.8 11 7.1 7.1
01304998	Carmans River, below Lower Lake, at Yaphank, N.Y.	Lat 40°50'07", long 72°55'01", Suffolk County, at culvert on Yaphank Avenue, at Yaphank, and 0.7 mile (1.1 km) upstream from gaging station at Yaphank.	--	1973-77	12-13-76 4-12-77 7-27-77 9-29-77	18 23 9.8 8.5
01305040	Carmans River at South Haven, N.Y.	Lat 40°48'09", long 72°53'09", Suffolk County, 50 ft (15 m) upstream from culvert on State Highway 27, at South Haven, and 2.6 miles (4.2 km) downstream from gaging station at Yaphank.	--	1973-77	12-13-76 4-12-77 7-27-77 9-29-77	43 58 36 42
01305300	Mud Creek at East Patchogue, N.Y.	Lat 40°45'47", long 72°58'59", Suffolk County, at culvert on South Country Road, at East Patchogue, 2 miles (3 km) east of Patchogue.	--	1947-69 1971-77	11-16-76 3-17-77 7-27-77 9-29-77	5.4 2.2 1.8 2.0
01305800	Patchogue River near Patchogue, N.Y.	Lat 40°46'55", long 73°01'19", Suffolk County, at bridge on discontinued road, 300 ft (91 m) west of North Ocean Ave., and 1 mile (2 km) north of State Highway 27A and gaging station at Patchogue.	--	1945-50 1952-77	12- 3-76 3-17-77 5-13-77 7-19-77 9-14-77	11 9.4 12 5.4 11
01306000	Patchogue River at Patchogue, N.Y.	Lat 40°46'56", long 73°01'16", Suffolk County, at State Highway 27A, it Patchogue.	--	1946-69‡ 1970-73 1974-76‡ 1977	10-14-76 12- 3-76 3-17-77 5-13-77 7-18-77 9-14-77	19 17 17 20 18 17
01306400	Green Creek at West Sayville, N.Y.	Lat 40°43'51", long 73°05'32", Suffolk County, 30 ft (9 m) upstream from State Highway 27A, at West Sayville.	--	1953-77	11-17-76 4-11-77 9- 6-77	3.7 7.7 2.7

‡ Operated as a continuous-record gaging station.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01306405	Lake Ronkonkoma Inlet at Lake Ronkonkoma, N.Y.	Lat 40°49'57", long 73°07'34", Suffolk County, 300 ft (91 m) southeast of Smithtown Blvd., 0.2 mile (0.3 km) west of Lake Ronkonkoma.	--	1948-49 1953-54	11-16-76 11-17-76 8-24-77	0.68 .54 .62
01306440	Connetquot Brook at Central Islip, N.Y.	Lat 40°47'33", long 73°09'58", Suffolk County, at culvert on Veterans Memorial Highway, 2 miles (3 km) northeast of Central Islip, and 3.8 miles (6.1 km) upstream from gaging station 01306499.	--	1968 1971-77	3-17-77 6- 1-77 6- 3-77 6-28-77 7-21-77 7-27-77 8- 4-77 8-16-77 9- 6-77	3.2 3.0 3.1 2.6 1.9 2.0 2.0 1.7 1.5
01306460	Connetquot Brook near Central Islip, N.Y.	Lat 40°46'18", long 73°09'31", Suffolk County, 20 ft (6 m) downstream from bridge on private road, and 1.8 miles (2.9 km) upstream from gaging	--	1968 1973-77	3-17-77 6- 3-77 6-14-77 6-21-77 6-28-77 7-21-77 8-10-77 8-24-77 9- 6-77 9-19-77	19 22 20 19 19 16 16 17 15 15
01306470	Connetquot Brook near Oakdale, N.Y.	Lat 40°45'47", long 73°09'10", Suffolk County, 100 ft (30 m) downstream from fish hatchery, and 1.1 miles (1.8 km) upstream from gaging station 01306499.	--	1968 1973-77	3-17-77 9- 6-77	26 21
01306700	Rattlesnake Brook near Oakdale, N.Y.	Lat 40°44'52", long 73°08'45", Suffolk County, 50 ft (15 m) downstream from State Highway 27, 1.5 miles (2.4 km) northwest of Oakdale.	--	1944-69 1971-77	11-16-76 11-17-76 4-11-77 9- 6-77	13 12 20 16
01307000c/	Champlin Creek at Islip, N.Y.	Lat 40°44'13", long 73°12'08", Suffolk County, at Long Island Railroad bridge, 220 ft (67 m) downstream from Moffitt Boulevard, at Islip.	--	1948-69‡ 1970-77	12- 1-76 4-20-77 9-15-77	3.5 7.2 2.2
01307100	Champlin Creek at Montauk Highway, at Islip, N.Y.	Lat 40°43'50", long 73°12'12", Suffolk County, at Montauk Highway, at Islip, and 0.45 mile (0.72 km) downstream from gaging station at Islip.	--	1963 1967 1973 1975-77	4-20-77	7.6
01307300	Pardees Ponds Outlet at Islip, N.Y.	Lat 40°43'40", long 73°13'16", Suffolk County, at culvert on State Highway 27A, at Islip.		1948-72 1974-77	11-24-76 5- 3-77 9-29-77	1.2 3.1 1.8
01307400	Awixa Creek at Islip, N.Y.	Lat 40°43'39", long 73°13'51", Suffolk County, at culvert on State Highway 27A, 0.75 mile (1.21 km) west of Islip.	--	1948-77	11-17-76 3-17-77 8-26-77 9- 6-77	1.2 1.0 1.1 1.1
01307500c/	Penataquit Creek at Bay Shore, N.Y.	Lat 40°43'37", long 73°14'41", Suffolk County, at Union Avenue, at Bayshore.	--	1945-76‡ 1977	10- 5-76 10- 6-76 10- 7-76 12-16-76 3- 3-77 5-10-77 9-15-77	5.6 4.9 4.6 4.8 4.9 6.6 3.6

‡ Operated as a continuous-record gaging station.
c/ Water-quality data included in this report.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01307600	Cascade Lakes Outlet at Brightwaters, N.Y.	Lat 40°42'40", long 73°15'38", Suffolk County, at culvert on Montauk Highway, at Brightwaters.	--	1958-77	11-17-76 5- 3-77 9- 6-77	0.71 2.6 .25
01307920	Sampawams Creek near Deer Park, N.Y.	Lat 40°44'27", long 73°18'24", Suffolk County, 30 ft (9 m) downstream from Bay Shore Road, and 2.5 miles (4.0 km) upstream from gaging station at Babylon.	--	1965-66 1973-77	11-24-76 5- 2-77 7-20-77 9-28-77	1.3 2.8 .98 1.1
01307950	Sampawams Creek near North Babylon, N.Y.	Lat 40°43'37", long 73°18'46", Suffolk County, 120 ft (37 m) downstream from Hunter Avenue, and 1.6 miles (2.6 km) upstream from gaging station at Babylon.	--	1967 1971-77	11-24-76 5- 2-77 7-20-77 9-28-77	1.6 3.6 1.8 2.3
01308200	Sampawams Creek below Hawleys Lake, at Babylon, N.Y.	Lat 40°41'48", long 73°19'04", Suffolk County, at pond outlet, 200 ft (61 m) upstream from State Highway 27A, at Babylon, and 0.5 mile (0.8 km) downstream from gaging station at Babylon.	--	1953-67 1969-77	11-24-76 5- 2-77 7-20-77 9- 8-77	5.2 11 4.1 6.6
01308300	Carlls River at Wyandanch, N.Y.	Lat 40°44'25", long 73°20'39", Suffolk County, 50 ft (15 m) downstream from August Road, 1.0 mile (1.6 km) southeast of Wyandanch, and 2.4 miles (3.9 km) upstream from gaging station at Babylon.	--	1962 1973 1975-77	3-17-77	6.1
01308310	Carlls River near West Babylon, N.Y.	Lat 40°43'55", long 73°20'32", Suffolk County, 30 ft (9 m) downstream from Southern State Parkway, 1.5 miles (2.4 km) northeast of West Babylon, and 1.8 miles (2.9 km) upstream from gaging station at Babylon.	--	1962 1972 1975-77	3-17-77	6.9
01308330	Carlls River at West Babylon, N.Y.	Lat 40°43'18", long 73°20'12", Suffolk County, opposite Outlook Avenue, 1.3 miles (2.1 km) east of West Babylon, and 1.1 miles (1.8 km) upstream from gaging station at Babylon.	--	1975-77	3-17-77	4.2
01308350	Carlls River at North Babylon, N.Y.	Lat 40°42'50", long 73°19'53", Suffolk County, at culvert on State Highway 27, 0.4 mile (0.6 km) upstream from gaging station at Babylon.	--	1962 1975-77	3-17-77	5.3
01308407	Elda Lake Tributary at North Babylon, N.Y.	Lat 40°43'52", long 73°19'50", Suffolk County, 25 ft (6 m) downstream from Sylvan Road, and 1.6 miles (2.6 km) upstream from gaging station at Babylon.	--	1972 1975-77	3-17-77	1.7
01308420	Elda Lake Tributary Tributary at North Babylon, N.Y.	Lat 40°43'52", long 73°19'40", Suffolk County, 20 ft (6 m) downstream from Sylvan Road, and 1.6 miles (2.6 km) up stream from gaging station at Babylon.	--	1962 1975-77	3-17-77	.43
01308440	Elda Lake Outlet at North Babylon, N.Y.	Lat 40°43'26", long 73°19'44", Suffolk County, 80 ft (24 m) downstream from Phelps Lane, and 1.1 miles (1.8 km) upstream from gaging station at Babylon.	--	1972 1977	3-17-77	3.3

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01308470	Elda Lake Outlet at Sunrise Highway, at North Babylon, N.Y.	Lat 40°42'53", Lat 73°19'42", Suffolk County, at State Highway 27, 0.4 mile (.6 km) upstream from gaging station at Babylon	--	1975-77	3-17-77	15
01308600	Carlls River at Park Avenue, Babylon, N.Y.	Lat 40°42'06", long 73°19'43", Suffolk County, at culvert on Park Avenue, at Babylon, and 0.5 mile (0.8 km) downstream from gaging station at Babylon.	--	1968-77	12- 1-76 3-17-77	20 25
01309000c/	Santapogue Creek at Lindenhurst, N.Y.	Lat 40°41'30", long 73°21'20", Suffolk County, at culvert on East Hoffman Avenue, 1 mile (2 km) east of Long Island Railroad station at Lindenhurst.	--	1947-69‡ 1970-77	11-17-76 5- 2-77 7-20-77	1.2 4.4 1.2
01309100	Santapogue Creek at State Highway 27A, Lindenhurst, N.Y.	Lat 40°41'02", long 73°21'06", Suffolk County, at culvert on State Highway 27A, 0.5 mile (0.8 km) downstream from gaging station at Lindenhurst.	--	1953-69 1971-77	11-17-76 7-20-77	6.5 3.2
01309200	Neguntatogue Creek at Lindenhurst, N.Y.	Lat 40°40'47", long 73°21'40", Suffolk County, 20 ft (6 m) upstream from State Highway 27A, in Lindenhurst.	--	1948-50 1952-77	11-17-76 3-10-77 7-20-77	3.2 4.1 3.9
01309250	Strongs Creek at Lindenhurst, N.Y.	Lat 40°41'22", long 73°22'40", Suffolk County, 30 ft (9 m) upstream from State Highway 27A, at Lindenhurst.	--	1953-69 1971-77	10-14-76 12-16-76 3-10-77 7-20-77	1.3 1.3 1.4 1.1
01309350	Amityville Creek at Amityville, N.Y.	Lat 40°40'13", long 73°24'51", Suffolk County, 100 ft (30 m) upstream from State Highway 27A, at Amityville.	--	1953-77	10-14-76 12-16-76 3-10-77 7-20-77	1.5 2.6 2.0 1.4
01309400	Carman Creek at Amityville, N.Y.	Lat 40°40'09", long 73°26'02", Nassau County, at bridge on State Highway 27A, 0.75 mile (1.21 km) west of Amityville.	--	1949 1953-69 1971-77	12- 1-76 3-10-77	9.3 5.8
01309454	Massapequa Creek at South Farmingdale, N.Y.	Lat 40°42'55", long 73°27'00", Nassau County, 75 ft (23 m) upstream from Tomes Avenue, 0.2 mile (0.3 km) south of South Farmingdale, and 1.9 miles (3.1 km) upstream from gaging station at Massapequa.	--	1962-65 1973-77	8-29-77	0
01309476	Massapequa Creek at Southern State Parkway, at South Farmingdale, N.Y.	Lat 40°42'21", long 73°27'05", Nassau County, 30 ft (9 m) upstream from culvert at Southern State Parkway, 0.8 mile (1.3 km) south of South Farmingdale, and 1.2 miles (1.9 km) upstream from gaging station at Massapequa.	--	1962-65 1973-77	11-16-76 3- 3-77 8-29-77	1.7 2.1 .80
01309490	Massapequa Creek at North Massapequa, N.Y.	Lat 40°41'55", long 73°27'08", Nassau County, opposite Franklin Street, at North Massapequa, and 0.55 mile (0.88 km) upstream from gaging station at Massapequa.	--	1962 1964 1973-77	11-16-76 3- 3-77 8-29-77	2.6 2.8 2.9

‡ Operated as a continuous-record gaging station.
c/ Water-quality data included in this report.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01309700	Seaford Creek at Seaford, N.Y.	Lat 40°40'00", long 73°28'57", Nassau County, at bridge on State Highway 27A, in Seaford.	--	1953-77	12- 1-76 5- 2-77 9- 6-77	0.05 .90 1.7
01309800	Seamans Creek at Seaford, N.Y.	Lat 40°39'56", long 73°29'37", Nassau County, at culvert on State Highway 27A, 0.2 mile (0.3 km) west of Seaford.	--	1953-67 1971-77	12- 1-76 5- 2-77 9- 6-77	1.5 3.8 2.1
01309970	Bellmore Creek Tributary near North Wantagh, N.Y.	Lat 40°41'52", long 73°30'33", Nassau County, at culvert on Duck Pond Drive North, 0.3 mile (0.5 km) north of North Wantagh, and 1.2 miles (1.9 km) upstream from gaging station 01309990.	--	1973-77	11-24-76 5-11-77 8-30-77	.05 .42 .03
01309980	Bellmore Creek Tributary at North Wantagh, N.Y.	Lat 40°41'20", long 73°30'37", Nassau County, at culvert on Beltagh Avenue, at North Wantagh, and 0.6 mile (1.0 km) upstream from gaging station 01309990.	--	1973-77	11-24-76 5-11-77 8-30-77	.45 3.2 .40
01310100	Newbridge Creek at Merrick, N.Y.	Lat 40°39'42", long 73°32'02", Nassau County, downstream from bridge on Merrick Road in Merrick.	--	1963-77	12- 1-76 3-10-77 9- 6-77	.07 .44 .46
01310200	Cedar Swamp Creek at Merrick, N.Y.	Lat 40°39'39", long 73°32'24", Nassau County, at bridge on State Highway 27A, in Merrick, 2.5 miles (4.0 km) east of Freeport.	--	1953-62 1965-77	12- 1-76 3-10-77 8-24-77 9- 6-77	4.2 7.9 3.6 3.7
01310470	East Meadow Brook near Westbury, N.Y.	Lat 40°44'01", long 73°35'06", Nassau County, 50 ft (15 m) downstream from culvert on Meadowbrook State Parkway, 1.0 mile (1.6 km) south of Westbury, and 4.8 miles (7.7 km) upstream from gage at Freeport.	--	1973-77	11-12-76 3- 3-77 8-30-77	.28 .22 .50
01310475	East Meadow Brook at Uniondale, N.Y.	Lat 40°43'17", long 73°35'00", Nassau County, at bridge on Hempstead Turnpike, 0.9 mile (1.4 km) northeast of Uniondale, and 3.9 miles (6.3 km) upstream from gage at Freeport.	--	1973-77	11-12-76 3- 3-77 8-30-77	3.4 .65 1.1
01310488	East Meadow Brook at East Meadow, N.Y.	Lat 40°41'56", long 73°34'37", Nassau County, 300 ft (91 m) west of Luddington Road, 1.4 miles (2.3 km) southwest of East Meadow, and 2.3 miles (3.7 km) upstream from gage at Freeport.	--	1973-77	11-12-76 3- 3-77 8-30-77	3.5 .84 1.1
01310510	East Branch Freeport Creek at Freeport, N.Y.	Lat 40°39'32", long 73°34'01", Nassau County, 50 ft (15 m) downstream from culvert at Sunrise Highway, and 0.5 mile (0.8 km) downstream from gaging station 01310500.	--	1975-77	11-12-76 3- 3-77 8-30-77	5.6 3.6 2.2
01310515	Freeport Creek at Freeport, N.Y.	Lat 40°39'28", long 73°34'22", Nassau County, 20 ft (6 m) upstream from culvert at Sunrise Highway, and 0.5 mile (0.8 km) downstream from gaging station 01310500.	--	1975-77	11-12-76 3- 3-77 8-30-77	5.5 .76 2.5

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01310600	Millburn Creek at Baldwin, N.Y.	Lat 40°39'04", long 73°36'13", Nassau County, 50 ft (15 m) downstream from bridge on State Highway 27A, 0.5 mile (0.8 km) east of Baldwin.	--	1953-77	12- 1-76 3-10-77 9- 6-77	5.6 8.4 4.5
01310700	Parsonage Creek at Baldwin, N.Y.	Lat 40°38'48", long 73°36'59", Nassau County, 20 ft (6 m) downstream from bridge on Foxhurst Road, at Baldwin.	--	1953-69 1971-77	12- 1-76 3-10-77 9- 6-77	.98 1.6 .98
01310800	South Pond Outlet at Rockville Centre, N.Y.	Lat 40°40'00", long 73°39'08", Nassau County, at bridge on Lakeview Ave., 0.75 mile (1.21 km) north of Rockville Centre.	--	1953-77	12- 6-76 5- 2-77 9- 2-77	.04 .12 .02
01311200	Motts Creek at Valley Stream, N.Y.	Lat 40°39'01", long 73°42'45", Nassau County, 50 ft (15 m) downstream from bridge on Rosedale Road, 1 mile (2 km) southwest of Valley Stream.	--	1954-77	12- 6-76 5- 2-77 9- 2-77	0 .49 0
01311700	Valley Stream, below West Branch, at Valley Stream, N.Y.	Lat 40°39'47", long 73°42'21", Nassau County, 200 ft (61 m) downstream from West Branch, 500 ft (152 m) downstream from bridge on West Valley Stream Blvd., at village park in Valley Stream, and 500 ft (152 m) downstream from gaging station.	--	1953-77	5- 2-77 9- 2-77	0 0

Samples are collected at sites other than gaging stations and partial-record stations to give better areal coverage in a river basin. Such sites are referred to as miscellaneous sites.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
01304590 - SEBONAC CREEK NEAR NORTH SEA NY (LAT 40 54 54 LONG 072 25 56)											
OCT , 1976											
05...	1600	.21	127	5.0	15.0	7.8	19	17	3.1	2.8	14
01304597 - BIG FRESH POND OUTLET NEAR NORTH SEA NY (LAT 40 55 37 LONG 072 24 56)											
OCT , 1976											
05...	1500	1.1	110	6.4	17.0	7.8	15	1	3.2	1.8	11
APR , 1977											
26...	1030	--	104	6.2	12.0	8.9	17	5	3.6	2.0	11
01304600 - BIG FRESH POND OUTLET AT NORTH SEA NY (LAT 40 55 49 LONG 072 25 04)											
OCT , 1976											
05...	1420	1.4	130	6.4	16.0	8.1	19	4	3.8	2.2	13
APR , 1977											
26...	1000	1.6	115	6.2	11.0	8.6	19	6	4.0	2.1	13
01304630 - MILL CREEK AT NOYACK NY (LAT 40 59 35 LONG 072 21 00)											
OCT , 1976											
05...	0815	.54	68	6.2	14.0	8.6	11	0	2.0	1.4	6.2
05...	1200	--	220	6.2	13.0	7.6	55	39	15	4.2	12
APR , 1977											
26...	1130	.46	67	6.6	12.0	9.9	14	1	2.9	1.7	6.8
01304660 - LIGONEE BROOK AT SAG HARBOR NY (LAT 40 59 21 LONG 072 18 12)											
OCT , 1976											
05...	0900	.11	122	6.5	13.0	5.3	19	3	4.7	1.8	11
01304665 - LITTLE NORTHWEST CREEK NEAR SAG HARBOR NY (LAT 40 59 47 LONG 072 15 57)											
OCT , 1976											
05...	1800	.45	--	--	--	--	--	--	--	--	--
06...	1800	--	480	6.0	14.0	7.4	43	30	4.2	8.0	71
01304672 - TANBARK CREEK AT THREEMILE HARBOR NY (LAT 40 59 44 LONG 072 11 06)											
OCT , 1976											
05...	1300	.13	--	--	--	--	--	--	--	--	--
06...	1500	--	84	6.4	14.0	7.1	10	0	2.0	1.3	10
01304675 - FRESH POND TRIBUTARY AT BARNES HOLE NY (LAT 40 59 51 LONG 072 07 22)											
OCT , 1976											
06...	1300	.13	100	4.4	15.5	5.8	10	10	1.2	1.7	11
APR , 1977											
26...	1245	--	87	4.3	9.0	6.2	11	1	1.2	2.0	9.8
01304680 - LAKE MONTAUK TRIBUTARY NEAR DITCH PLAINS NY (LAT 41 03 23 LONG 071 55 53)											
OCT , 1976											
06...	1130	.11	150	6.9	16.0	8.8	27	12	5.0	3.6	15

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
01304590 - SEBONAC CREEK NEAR NORTH SEA NY (LAT 40 54 54 LONG 072 25 56)											
OCT , 1976											
05...	.9	3	0	2	13	27	.1	12	76	.17	.10
01304597 - BIG FRESH POND OUTLET NEAR NORTH SEA NY (LAT 40 55 37 LONG 072 24 56)											
OCT , 1976											
05...	1.1	18	0	15	8.1	18	.0	5.2	58	.16	.11
APR , 1977											
26...	1.2	15	0	12	8.9	18	.1	.3	53	.17	.17
01304600 - BIG FRESH POND OUTLET AT NORTH SEA NY (LAT 40 55 49 LONG 072 25 04)											
OCT , 1976											
05...	1.1	18	0	15	8.7	22	.0	6.2	67	.25	.17
APR , 1977											
26...	1.2	15	0	12	9.3	21	.1	1.2	60	.18	.18
01304630 - MILL CREEK AT NOYACK NY (LAT 40 59 35 LONG 072 21 00)											
OCT , 1976											
05...	.6	18	0	15	3.8	9.2	.0	8.1	40	.03	.03
05...	3.1	19	0	16	29	24	.1	9.8	114	2.1	1.5
APR , 1977											
26...	.6	16	0	13	5.8	9.4	.1	7.0	43	.10	.09
01304660 - LIGONEE BROOK AT SAG HARBOR NY (LAT 40 59 21 LONG 072 18 12)											
OCT , 1976											
05...	1.3	20	0	16	6.4	17	.0	9.5	65	.10	.07
01304665 - LITTLE NORTHWEST CREEK NEAR SAG HARBOR NY (LAT 40 59 47 LONG 072 15 57)											
OCT , 1976											
05...	--	--	--	--	--	--	--	--	--	--	--
06...	3.0	16	0	13	21	130	.1	12	258	.11	.07
01304672 - TANBARK CREEK AT THREEMILE HARBOR NY (LAT 40 59 44 LONG 072 11 06)											
OCT , 1976											
05...	--	--	--	--	--	--	--	--	--	--	--
06...	.7	16	0	13	5.0	17	.0	12	57	.13	.15
01304675 - FRESH POND TRIBUTARY AT BARNES HOLE NY (LAT 40 59 51 LONG 072 07 22)											
OCT , 1976											
06...	.6	0	0	0	12	20	.0	10	59	.02	.00
APR , 1977											
26...	.7	12	0	10	10	17	.1	7.3	56	.02	.04
01304680 - LAKE MONTAUK TRIBUTARY NEAR DITCH PLAINS NY (LAT 41 03 23 LONG 071 55 53)											
OCT , 1976											
06...	3.3	19	0	16	13	26	.1	4.8	82	.49	.20

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	NITRO-GEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	PHOS-PHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)
01304590 - SEBONAC CREEK NEAR NORTH SEA NY (LAT 40 54 54 LONG 072 25 56)										
OCT , 1976										
05...	.01	.01	.05	.43	.48	.66	.04	.01	1400	130
01304597 - BIG FRESH POND OUTLET NEAR NORTH SEA NY (LAT 40 55 37 LONG 072 24 56)										
OCT , 1976										
05...	.02	.00	.05	.20	.25	.43	.04	.01	570	130
APR , 1977										
26...	.01	.01	.05	.95	1.0	1.2	.03	.01	220	250
01304600 - BIG FRESH POND OUTLET AT NORTH SEA NY (LAT 40 55 49 LONG 072 25 04)										
OCT , 1976										
05...	.01	.01	.10	.20	.30	.56	.03	.01	330	210
APR , 1977										
26...	.00	.01	.05	.85	.90	1.1	.04	.02	330	330
01304630 - MILL CREEK AT NOYACK NY (LAT 40 59 35 LONG 072 21 00)										
OCT , 1976										
05...	.03	.00	.06	.12	.18	.24	.02	.01	100	10
05...	.02	.01	.05	.35	.40	2.5	.03	.01	680	40
APR , 1977										
26...	.00	.01	.01	.39	.40	.50	.02	.01	100	10
01304660 - LIGONEE BROOK AT SAG HARBOR NY (LAT 40 59 21 LONG 072 18 12)										
OCT , 1976										
05...	.01	.01	.16	.04	.20	.31	.02	.01	2900	190
01304665 - LITTLE NORTHWEST CREEK NEAR SAG HARBOR NY (LAT 40 59 47 LONG 072 15 57)										
OCT , 1976										
05...	--	--	--	--	--	--	--	--	--	--
06...	.02	.00	.03	.30	.33	.46	.02	.01	450	30
01304672 - TANBARK CREEK AT THREEMILE HARBOR NY (LAT 40 59 44 LONG 072 11 06)										
OCT , 1976										
05...	--	--	--	--	--	--	--	--	--	--
06...	.01	.01	.20	.08	.28	.42	.02	.01	400	70
01304675 - FRESH POND TRIBUTARY AT BARNES HOLE NY (LAT 40 59 51 LONG 072 07 22)										
OCT , 1976										
06...	.01	.01	.13	.37	.50	.53	.02	.01	2200	180
APR , 1977										
26...	.01	.01	.05	.85	.90	.93	.02	.01	1800	800
01304680 - LAKE MONTAUK TRIBUTARY NEAR DITCH PLAINS NY (LAT 41 03 23 LONG 071 55 53)										
OCT , 1976										
06...	.03	.01	.05	.85	.90	1.4	.07	.02	1300	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
01304686 - OYSTER POND TRIBUTARY NEAR MONTAUK POINT NY (LAT 41 03 54 LONG 071 53 14)											
OCT , 1976											
06...	1030	.37	173	6.2	15.5	8.0	27	15	4.3	4.0	22
01304689 - OYSTER POND TRIBUTARY #2 NEAR MONTAUK POINT NY (LAT 41 03 58 LONG 071 53 06)											
OCT , 1976											
06...	1100	.06	150	5.0	15.5	8.5	21	17	3.0	3.2	19
01304693 - HOOK POND TRIBUTARY AT EASTHAMPTON NY (LAT 40 57 34 LONG 072 10 42)											
OCT , 1976											
05...	0945	.59	210	6.4	12.0	5.4	45	20	12	3.6	18
01304697 - GEORGICA POND TRIBUTARY #2 AT MIDHAMPTON NY (LAT 40 57 10 LONG 072 13 48)											
OCT , 1976											
05...	1115	.03	470	6.2	14.0	9.0	10	0	2.0	1.2	77
01304700 - GEORGICA POND TRIBUTARY AT MIDHAMPTON NY (LAT 40 57 01 LONG 072 14 20)											
OCT , 1976											
05...	1245	.45	75	6.1	12.0	8.4	8	0	1.0	1.4	7.1
01304730 - POXABOGUE POND OUTLET AT SAGAPONACK NY (LAT 40 55 48 LONG 072 17 16)											
OCT , 1976											
05...	1200		220	6.2	13.0	7.6	55	39	15	4.2	12
14...	1000	2.3	250	6.2	11.5	8.9	65	49	18	4.8	13
APR , 1977											
26...	1445	2.9	205	6.4	10.0	10.6	65	50	18	4.8	13
01304733 - HAYGROUND COVE TRIBUTARY #2 AT HAYGROUND NY (LAT 40 55 25 LONG 072 20 08)											
OCT , 1976											
05...	1315	.71	320	6.1	13.0	7.8	120	100	34	7.4	11
01304734 - HAYGROUND COVE TRIBUTARY AT WATER MILL NY (LAT 40 55 15 LONG 072 20 26)											
OCT , 1976											
05...	1230	.46	230	6.1	12.0	6.5	64	49	18	4.6	8.8
01304739 - MILL CREEK AT WATER MILL NY (LAT 40 54 34 LONG 072 21 25)											
OCT , 1976											
05...	0920	5.2	240	9.6	15.0	6.8	87	52	26	5.4	9.1
APR , 1977											
26...	0900	2.8	225	6.8	11.0	8.8	79	49	23	5.2	8.8

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
01304686 - OYSTER POND TRIBUTARY NEAR MONTAUK POINT NY (LAT 41 03 54 LONG 071 53 14)											
OCT , 1976											
06...	1.6	15	0	12	15	38	.1	15	109	.06	.09
01304689 - OYSTER POND TRIBUTARY #2 NEAR MONTAUK POINT NY (LAT 41 03 58 LONG 071 53 06)											
OCT , 1976											
06...	1.3	4	0	3	11	37	.0	16	93	.00	.00
01304693 - HOOK POND TRIBUTARY AT EASTHAMPTON NY (LAT 40 57 34 LONG 072 10 42)											
OCT , 1976											
05...	3.3	30	0	25	17	28	.0	11	113	2.3	1.1
01304697 - GEORGICA POND TRIBUTARY #2 AT MIDHAMPTON NY (LAT 40 57 10 LONG 072 13 48)											
OCT , 1976											
05...	.6	16	0	13	6.8	120	.0	9.1	225	.00	.01
01304700 - GEORGICA POND TRIBUTARY AT MIDHAMPTON NY (LAT 40 57 01 LONG 072 14 20)											
OCT , 1976											
05...	.6	18	0	15	4.0	11	.0	9.1	44	.32	.26
01304730 - POXABOGUE POND OUTLET AT SAGAPONACK NY (LAT 40 55 48 LONG 072 17 16)											
OCT , 1976											
05...	3.1	19	0	16	29	24	.1	9.8	114	2.1	1.5
14...	3.3	19	0	16	34	25	.0	9.7	125	3.5	1.7
APR , 1977											
26...	3.2	18	0	15	34	24	.1	7.5	128	4.1	3.2
01304733 - HAYGROUND COVE TRIBUTARY #2 AT HAYGROUND NY (LAT 40 55 25 LONG 072 20 08)											
OCT , 1976											
05...	4.1	19	0	16	74	23	.0	7.8	190	8.6	4.4
01304734 - HAYGROUND COVE TRIBUTARY AT WATER MILL NY (LAT 40 55 15 LONG 072 20 26)											
OCT , 1976											
05...	4.8	18	0	15	37	19	.0	9.7	122	4.5	2.4
01304739 - MILL CREEK AT WATER MILL NY (LAT 40 54 34 LONG 072 21 25)											
OCT , 1976											
05...	2.6	43	0	35	51	20	.1	5.8	141	.00	.00
APR , 1977											
26...	2.7	36	0	30	51	19	.1	.4	132	.78	.80

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	NITRO-GEN AMMONIA ORGANIC TOTAL AS N (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	PHOS-PHORUS ORTHO PO4 TOTAL AS P (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)
01304686 - OYSTER POND TRIBUTARY NEAR MONTAUK POINT NY (LAT 41 03 54 LONG 071 53 14)										
OCT , 1976										
06...	.02	.01	.07	.76	.83	.91	.06	.01	2100	100
01304689 - OYSTER POND TRIBUTARY #2 NEAR MONTAUK POINT NY (LAT 41 03 58 LONG 071 53 06)										
OCT , 1976										
06...	.01	.01	.03	.77	.80	.81	.04	.01	920	50
01304693 - HOOK POND TRIBUTARY AT EASTHAMPTON NY (LAT 40 57 34 LONG 072 10 42)										
OCT , 1976										
05...	.03	.03	.23	.02	.25	2.6	.05	.02	460	110
01304697 - GEORGICA POND TRIBUTARY #2 AT MIDHAMPTON NY (LAT 40 57 10 LONG 072 13 48)										
OCT , 1976										
05...	.01	.00	.03	.35	.38	.39	.01	.01	390	20
01304700 - GEORGICA POND TRIBUTARY AT MIDHAMPTON NY (LAT 40 57 01 LONG 072 14 20)										
OCT , 1976										
05...	.01	.01	.01	.00	.00	.33	.02	.01	30	10
01304730 - POXABOGUE POND OUTLET AT SAGAPONACK NY (LAT 40 55 48 LONG 072 17 16)										
OCT , 1976										
05...	.02	.01	.05	.35	.40	2.5	.03	.01	680	40
14...	.02	.01	.02	.53	.55	4.1	.03	.01	630	40
APR , 1977										
26...	.02	.01	.03	1.1	1.1	5.2	.04	.01	870	50
01304733 - HAYGROUND COVE TRIBUTARY #2 AT HAYGROUND NY (LAT 40 55 25 LONG 072 20 08)										
OCT , 1976										
05...	.02	.01	.04	.00	.00	8.6	.02	.01	100	60
01304734 - HAYGROUND COVE TRIBUTARY AT WATER MILL NY (LAT 40 55 15 LONG 072 20 26)										
OCT , 1976										
05...	.01	.01	.05	.23	.28	4.8	.35	.25	280	80
01304739 - MILL CREEK AT WATER MILL NY (LAT 40 54 34 LONG 072 21 25)										
OCT , 1976										
05...	.01	.01	.03	1.2	1.2	1.2	.09	.03	230	30
APR , 1977										
26...	.03	.02	.27	1.6	1.9	2.7	.08	.02	380	40

LONG ISLAND

AT EAST MEADOW, NY

LOCATION.--Lat 40°44'36", long 73°35'10", Nassau County, at the New York State Department of Environmental Conservation Air Quality Station on roof of trailer at Merrick Avenue, Eisenhower Park, East Meadow.

PERIOD OF RECORD.--Water years: August 1976 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided polyethelene funnel, approximately 6.0 in (0.15 m) in diameter, which drains into a 2-litre teflon receiving bottle. The receiving bottle is enclosed in an insulated box which is heated during the cold weather season to aid in full collection of snow. The opening for the collector is approximately 12 ft (4 m) above ground level.

REMARKS.--Inches of precipitation is that recorded by the U.S. Geological Survey for the period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
76/08/02 TO 76/08/10	7.36	.86	.23	.47	19.0	13	.70	.92
76/08/02 TO 76/09/01	8.05	1.10	.54	.55	1.00	11	3.50	1.32
76/10/01 TO 76/11/01	4.34	.77	.41	1.20	.10	.0	1.20	2.38
76/12/01 TO 77/01/03	2.55	3.10	1.10	1.20	1.70	14	7.30	3.37
77/01/03 TO 77/02/01	2.30	2.20	.95	7.70	.04	15	3.10	14.8
77/02/01 TO 77/03/01	1.90	5.60	2.70	7.20	.17	15	5.20	11.8
77/03/01 TO 77/04/01	4.68	1.50	.74	1.10	.09	15	2.70	1.80
77/04/01 TO 77/05/02	3.28	2.16	.94	1.07	.27	.0	4.50	1.93
77/05/02 TO 77/05/31	2.67	1.82	.74	.48	.19	.0	5.80	1.60
77/05/31 TO 77/07/01	4.62	1.35	.58	.35	.12	.0	3.80	1.10
77/07/01 TO 77/08/01	2.50	1.88	1.06	.85	1.18	6.0	7.80	1.70
77/08/01 TO 77/09/01	4.81	1.04	.54	.41	.20	.0	5.70	.53
77/09/01 TO 77/09/26	4.37	.76	.45	.70	.06	.0	4.40	.99

PERIOD OF COLLECTION	FLUORIDE (F) (MG/L)	NITRITE+NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
76/08/02 TO 76/08/10	.1	.147	.476	.032	12	5.90	.075	17
76/08/02 TO 76/09/01	.1	1.450	1.500	.579	37	6.80	.070	41
76/10/01 TO 76/11/01	.1	.686	.256	.021	23	4.40	.101	16
76/12/01 TO 77/01/03	.1	1.460	1.230	.071	50	6.80	.092	280
77/01/03 TO 77/02/01	.1	.889	.385	.010	60	6.80	.375	56
77/02/01 TO 77/03/01	.1	1.650	.881	.031	78	7.20	.042	40
77/03/01 TO 77/04/01	.1	.468	.270	.012	24	7.35	.048	160
77/04/01 TO 77/05/02	.0	.840	.450	.018	32	5.50	.068	0
77/05/02 TO 77/05/31	.3	1.200	.860	.049	44	4.25	.120	6
77/05/31 TO 77/07/01	.0	.530	.440	.015	34	4.80	.081	18
77/07/01 TO 77/08/01	.0	1.900	2.400	.425	43	6.10	.085	70
77/08/01 TO 77/09/01	.0	.830	.640	.036	46	4.15	.169	100
77/09/01 TO 77/09/26	.0	.700	.350	.001	45	4.22	.141	56

LONG ISLAND

AT UPTON, NY

LOCATION.--Lat 40°52'16", long 72°53'20", Suffolk County, at the Brookhaven National Laboratory weather tower, about 0.6 mi (1.0 km) north of main entrance, at Upton.

PERIOD OF RECORD.--Water years: 1965 to 1973, 1975 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel, approximately 6.5 (0.17 m) in diameter, which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The receiving bottle is enclosed in an insulated box which is heated during the cold weather season to aid in full collection of snow. The opening for the collector is approximately 4 ft (1.2 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that recorded by Brookhaven National Laboratory for the period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIOD OF COLLECTION	INCHES OF PRECIPI-TATION	CAL-CIUM (CA) (MG/L)	MAGNE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
76/10/04 TO 76/11/04	E 4.50	.22	.18	1.50	.09	.0	7.50	3.37
76/11/04 TO 76/12/08	1.80	.57	.38	2.40	.17	.0	1.30	5.30
76/12/08 TO 76/12/29	1.40	.31	.33	1.90	.09	.0	3.20	3.71
76/12/29 TO 77/02/04	3.20	.19	.12	.81	.05	.0	14.0	1.62
77/02/04 TO 77/03/01	2.10	.39	.16	.81	.04	.0	1.90	.97
77/03/01 TO 77/04/11	8.00	.25	.12	.89	.07	.0	1.90	1.20
77/04/11 TO 77/05/02	1.30	----	----	----	----	.0	2.50	1.81
77/05/02 TO 77/06/01	2.10	.56	.30	1.38	.35	.0	3.60	3.20
77/06/01 TO 77/07/01	E 4.22	.38	.17	.51	.14	.0	3.70	1.60
77/07/01 TO 77/08/02	E 1.70	.60	.20	1.20	.40	.0	11.0	1.80
77/08/02 TO 77/08/30	E 5.39	.24	.11	.50	.09	.0	3.30	.54
77/08/30 TO 77/09/30	E 6.76	.21	.15	.85	.13	.0	3.30	1.27

PERIOD OF COLLECTION	FLUO-RIDE (F) (MG/L)	NIT-RITE+ NIT-RATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
76/10/04 TO 76/11/04	.1	.334	.083	.009	42	5.50	.339	6
76/11/04 TO 76/12/08	.1	.539	.209	.011	33	4.10	.119	86
76/12/08 TO 76/12/29	.1	.824	.115	.006	40	3.60	.103	85
76/12/29 TO 77/02/04	.0	.338	.610	.005	17	3.90	.079	17
77/02/04 TO 77/03/01	.1	.649	.139	.013	26	4.80	.126	60
77/03/01 TO 77/04/11	.1	.273	.147	.009	21	4.70	.085	20
77/04/11 TO 77/05/02	.0	.630	.260	.023	28	4.15	.080	65
77/05/02 TO 77/06/01	.0	.680	.200	.010	45	3.80	.148	16
77/06/01 TO 77/07/01	.0	.460	.130	.000	44	3.80	.132	3
77/07/01 TO 77/08/02	.0	.780	.340	.030	800	3.80	.167	---
77/08/02 TO 77/08/30	.0	.460	.180	.001	44	4.00	.167	22
77/08/30 TO 77/09/30	.0	.480	.240	.002	42	4.02	.131	56

E Estimated

KINGS COUNTY

404149073571201. Local number, K 30.
LOCATION.--Lat 40°41'49", long 73°57'12", Hydrologic Unit 02030201, at Park and Nostrand Avenues, Williamsburg. Owner: Williamsburg Industrial Development Enterprises, Inc.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (0.20 m), depth 56 ft (17 m), screen assumed at bottom.
DATUM.--Land-surface datum is 17.8 ft (5.4 m) above mean sea level. Measuring point: Top of coupling, 5.93 ft (1.81 m) below land-surface datum.
PERIOD OF RECORD.--June 1935 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.81 ft (1.47 m) above mean sea level, Dec. 19, 1974; lowest measured, 29.75 ft (9.07 m) below mean sea level, Nov. 8, 1941.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 5	4.35	MAR 29	4.87	JUN 30	4.87						

433818073581001. Local number, K 530.
LOCATION.--Lat 43°38'18", long 73°58'10", Hydrologic Unit 02030202, at 912 Cortelyou Road, Flatbush. Owner: J. Morea.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 18 in (0.46 m), depth 145 ft (44 m), screened 95 to 145 ft (29 to 44 m).
DATUM.--Land-surface datum is 40.1 ft (12.2 m) above mean sea level. Measuring point: Top of 1.25 in (0.03 m) nipple, 7.21 ft (2.20 m) below land-surface datum.
PERIOD OF RECORD.--June 1946 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.99 ft (2.74 m) above mean sea level, Oct. 7, 1975; lowest measured, 11.57 ft (1.80 m) below mean sea level, June 5, 1946.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 22	7.93	MAR 28	7.85	JUL 6	7.85	SEP 23	7.79				

NASSAU COUNTY

404043073413001. Local number, N 7.
LOCATION.--Lat 40°40'43", long 73°41'30", Hydrologic Unit 02030202, at Corona Avenue and Remsen Street, Valley Stream. Owner: Long Island State Park Commission.
AQUIFER.--Lloyd.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in (0.25 m), depth 911 ft (278 m), screened 851 to 911 ft (259 to 278 m).
DATUM.--Land-surface datum is 20.8 ft (6.3 m) above mean sea level. Measuring point: Top of reducer, 2.16 ft (0.66 m) above land-surface datum.
PERIOD OF RECORD.--July 1936 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.75 ft (3.89 m) above mean sea level, Mar. 9, 1941; lowest measured, 6.84 ft (2.08 m) below mean sea level, Aug. 25, 1970.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 21	-4.94	JAN 26	0.73	FEB 23	-4.44	MAR 31	4.25	JUN 22	8.06	SEP 20	9.96

NASSAU COUNTY--Continued

404048073412501. Local number, N 9.
LOCATION.--Lat 40°40'48", long 73°41'25", Hydrologic Unit 02030202, at Corona Avenue and Remsen Street, Valley Stream. Owner: Long Island State Park Commission.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m) to 4 in (0.10 m), depth 138 ft (42 m), screened 98 to 138 ft (30 to 42 m).
DATUM.--Land-surface datum is 23.2 ft (7.07 m) above mean sea level. Measuring point: Top of casing, 1.48 ft (0.45 m) above land-surface datum.
PERIOD OF RECORD.--July 1936 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.57 ft (7.18 m) above mean sea level, Sept. 23, 1938; lowest measured, 9.96 ft (3.03 m) above mean sea level, Dec. 19, 1974.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 21	11.49	FEB 23	11.58	MAR 31	10.91	JUN 6	12.58	JUN 28	10.09	SEP 20	11.88

403930073382901. Local number, N 53.
LOCATION.--Lat 40°39'30", long 73°38'29", Hydrologic Unit 02030202, at Maple and Morris Avenues, Rockville Centre. Owner: Village of Rockville Centre.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in (0.20 m), depth 45 ft (14 m), screen assumed at bottom.
DATUM.--Land-surface datum is 26.2 ft (8.0 m) above mean sea level. Measuring point: Top of casing, 5.13 ft (1.56 m) below land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for August 1934 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.49 ft (5.03 m) above mean sea level, Apr. 15, 1939; lowest measured, 7.85 ft (2.39 m) above mean sea level, Aug. 30, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	11.01	DEC 20	10.49	FEB 23	10.06	APR 25	11.43	JUN 23	10.92	AUG 23	10.47
NOV 22	10.76	JAN 24	10.28	MAR 25	10.75	MAY 23	11.31	JUL 25	10.44	SEP 23	10.15

404931073382002. Local number, N 110-2.
LOCATION.--Lat 40°49'31", long 73°38'20", Hydrologic Unit 02030201, at Scudders Lane and Motts Cove Road, Glenwood Landing. Owner: Jericho Water District.
AQUIFER.--Lloyd.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 16 in (0.41 m), depth 519 ft (158 m), screened 445 to 515 ft (136 to 157 m).
DATUM.--Land-surface datum is 56.1 ft (17.1 m) above mean sea level. Measuring point: Top of 4 in (0.10 m) nipple, 0.50 ft (0.15 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for 1946-48, 1952, 1955, 1961, 1965, 1970-75, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.99 ft (8.53 m) above mean sea level, Dec. 15, 1970; lowest measured, 9.05 ft (2.76 m) below mean sea level, May 22, 1957.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	17.40	DEC 20	18.41	FEB 25	16.79	APR 25	13.66	JUN 23	13.26	AUG 24	13.13
NOV 22	17.72	JAN 22	18.85	MAR 28	15.45	MAY 24	14.25	JUL 26	9.51	SEP 25	14.51

404029073294201. Local number, N 180.
LOCATION.--Lat 40°40'29", long 73°29'42", Hydrologic Unit 02030202, at Sunrise Highway and Seamans Neck Road, Seaford. Owner: City of New York.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in (0.10 m) to 6 in (0.15 m), depth 762 ft (232 m), screen assumed at bottom.
DATUM.--Land-surface datum is 15.3 ft (4.7 m) above mean sea level. Measuring point: Top of coupling, 14.39 ft (4.38 m) above land-surface datum.
PERIOD OF RECORD.--October 1945 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.08 ft (6.43 m) above mean sea level, June 6, 1952;

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 21	15.88	FEB 23	16.09	MAR 31	16.47	JUN 21	13.86	SEP 20	14.86		

404609073421602. Local number, N 1102-2.
LOCATION.--Lat 40°46'09", long 73°42'16", Hydrologic Unit 02030201, at Long Island Expressway and Community Drive, Lake Success. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 166 ft (51 m), screened 161 to 166 ft (49 to 51 m).
DATUM.--Land-surface datum is 184.0 ft (56 m) above mean sea level. Measuring point: Top of coupling, 0.32 ft (0.10 m) below land-surface datum.
PERIOD OF RECORD.--April 1939 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.12 ft (18.02 m) above mean sea level, May 25, 1953; lowest measured, 29.08 ft (8.86 m) above mean sea level, Oct. 1, 1969.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 2	37.13 G	FEB 23	36.02	APR 4	36.48	JUN 21	35.31	SEP 1	34.49 G	SEP 21	36.58
23	33.91	MAR 17	36.10 G	JUN 6	35.70 G						

404112073421002. Local number, N 1109-2.
LOCATION.--Lat 40°41'12", long 73°42'10", Hydrologic Unit 02030202, at Dutch Broadway and Fletcher Avenue, Elmont. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 43 ft (13 m), screen assumed at bottom.
DATUM.--Land-surface datum is 42.7 ft (13.0 m) above mean sea level. Measuring point: Top of casing, 0.10 ft (0.03 m) below land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for April 1939 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.04 ft (9.16 m) above mean sea level, Apr. 21, 1939; lowest measured, 9.50 ft (2.90 m) above mean sea level, July 26, 1977.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 4	11.86	DEC 2	11.45 G	JAN 31	10.82	MAR 17	10.32 G	APR 26	10.00	JUN 24	9.82
26	11.52	28	11.28	FEB 22	10.71	21	10.33	MAY 23	10.90	JUL 26	9.50

G MEASUREMENT BY ANOTHER AGENCY

NASSAU COUNTY--Continued

404039073420001. Local number, N 1110.
LOCATION.--Lat 40°40'39", long 73°42'00", Hydrologic Unit 02030202, at Henry Street, near Southern State Parkway, North Valley Stream. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 27 ft (8 m), screened 25 to 27 ft (7.6 to 8.2 m).
DATUM.--Land-surface datum is 30.9 ft (9.4 m) above mean sea level. Measuring point: Top of casing, 0.05 ft (0.02 m) below land-surface datum.
REMARKS.--Water-quality records for 1966 and 1968 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--April 1939 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.05 ft (6.42 m) above mean sea level, Apr. 21, 1939; lowest measured, 7.15 ft (2.18 m) above mean sea level, Dec. 21, 1976.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 2	8.29 G	DEC 21	7.15	FEB 23	7.72	MAR 17	12.65 G	MAR 31	10.31	JUN 22	7.83

404123073394802. Local number, N 1129-2.
LOCATION.--Lat 40°41'23", long 73°39'48", Hydrologic Unit 02030202, at Hawthorne Street and Euclid Avenue, West Hempstead. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 43.5 ft (13.3 m), screen assumed at bottom.
DATUM.--Land-surface datum is 50.8 ft (15.5 m) above mean sea level. Measuring point: Top of casing, 0.26 ft (0.08 m) below land-surface datum.
REMARKS.--Water-quality records for 1966, 1968, 1975, 1976 are available in files of Long Island Sub-district office; those for 1977 are published elsewhere in this report.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for August 1937 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.79 ft (10.30 m) above mean sea level, Sept. 28, 1938; lowest measured, 21.85 ft (6.66 m) above mean sea level, Sept. 20, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 4	25.15	DEC 28	24.29	MAR 21	24.04	MAY 23	24.50	JUL 26	23.46	AUG 30	23.34 G
26	24.78	JAN 31	24.03	23	24.46 G	JUN 8	24.14 G	AUG 29	23.28	SEP 26	23.18
DEC 1	24.94 G	FEB 22	23.68	APR 26	24.74	24	23.96				

404820073312101. Local number, N 1212.
LOCATION.--Lat 40°48'20", long 73°31'21", Hydrologic Unit 02030202, at Jericho Turnpike and Eileen Way, Locust Grove. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Driven observation artesian well, diameter 4 in (0.10 m), depth 185 ft (64 m), screened 181 to 185 ft (55 to 64 m).
DATUM.--Land-surface datum is 228.2 ft (69.6 m) above mean sea level. Measuring point: Top of recorder shelf, 0.54 ft (0.16 m) below land-surface datum.
PERIOD OF RECORD.--January 1943 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 89.74 ft (27.35 m) above mean sea level, Oct. 6, Dec. 7, 1953; lowest measured, 73.00 ft (22.25 m) above mean sea level, Apr. 25, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 21	89.77	FEB 23	88.80	APR 1	88.47	JUN 21	87.84	SEP 20	86.99		

G MEASUREMENT BY ANOTHER AGENCY

405027073272505. Local number, N 1243-5.
LOCATION.--Lat 40°50'27", long 73°27'25", Hydrologic Unit 02030201, at Stillwell and Harbor Roads, Cold Spring. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 28 ft (9 m), screen assumed at bottom.
DATUM.--Land-surface datum is 63.1 ft (19.2 m) above mean sea level. Measuring point: Top of casing, 0.10 ft (0.03 m) below land-surface datum.
REMARKS.--Water-quality records for 1960 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for November 1939 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.95 ft (18.88 m) above mean sea level, Apr. 29, 1975; lowest measured, 37.31 ft (11.37 m) above mean sea level, Sept. 27, 1976.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 4	57.96	DEC 28	57.50	FEB 22	57.63	APR 26	58.10	JUN 24	56.35	AUG 29	55.93
26	57.40	JAN 31	57.28	MAR 21	57.58	MAY 23	57.46	JUL 26	55.95	SEP 26	56.26
DEC 10	57.80 G										

404704073264201. Local number, N 1246.
LOCATION.--Lat 40°47'04", long 73°26'42", Hydrologic Unit 02030202, at Round Swamp and Old Country Roads, Plainview. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 125 ft (38 m), screen assumed at bottom.
DATUM.--Land-surface datum is 184.9 ft (56.4 m) above mean sea level. Measuring point: Top of coupling, 0.08 ft (0.02 m) above land-surface datum.
REMARKS.--Water-quality records for 1971 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--May 1940 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.93 ft (25.28 m) above mean sea level, Nov. 2, Dec. 26, 1961; lowest measured, 68.29 ft (20.81 m) above mean sea level, Apr. 25, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 10	81.72 G	FEB 23	80.88	APR 1	80.46	JUN 21	79.58	SEP 2	78.59 G	SEP 20	78.53
21	81.83	MAR 21	80.67 G	JUN 13	79.45 G						

404341073371403. Local number, N 1255-3.
LOCATION.--Lat 40°43'41", long 73°37'14", Hydrologic Unit 02030202, at Clinton Road and Saint James Street, Garden City. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 35 ft (11 m), screen assumed at bottom.
DATUM.--Land-surface datum is 79.3 ft (24.1 m) above mean sea level. Measuring point: Top of casing, 0.60 ft (0.18 m) below land-surface datum. Prior to September 1, 1977, measuring point was 0.04 ft (0.01 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for May 1913 to November 1918, June 1936 to September 1975, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 65.59 ft (19.99 m) above mean sea level, Apr. 15, 1939; lowest measured 47.48 ft (14.47 m) above mean sea level, Feb. 24, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	53.60	DEC 27	52.29	MAR 21	51.37	MAY 23	52.27	JUL 26	51.25	SEP 9	51.82 G
NOV 22	53.05	JAN 27	51.96	25	51.66 G	JUN 8	51.97 G	AUG 24	51.60	26	51.22
DEC 6	52.70 G	FEB 22	51.50	APR 26	52.36	24	51.88				

G MEASUREMENT BY ANOTHER AGENCY

NASSAU COUNTY--Continued

404317073290904. Local number, N 1259-4.
LOCATION.--Lat 40°43'17", long 73°29'09", Hydrologic Unit 02030202, at Hicksville Road and Mary Lane, Plainedge.
Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 41 ft (12 m), screen assumed at bottom.
DATUM.--Land-surface datum is 78.4 ft (23.9 m) above mean sea level. Measuring point: Top of casing, 0.32 ft (0.10 m) below land-surface datum.
PERIOD OF RECORD.--January 1909 to April 1910, January 1912 to December 1916, February 1930 to December 1935, March 1937 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.99 ft (17.37 m) above mean sea level, June 23, 1952; lowest measured, 45.61 ft (13.90 m) above mean sea level, Aug. 25, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	51.67	JAN 27	50.63	MAR 30	51.90 G	JUN 13	52.02 G	JUL 26	50.76	SEP 7	50.69 G
NOV 22	52.16	FEB 22	50.42	APR 26	52.68	24	52.33	AUG 24	50.50	26	50.19
DEC 8	51.89 G	MAR 21	50.63	MAY 23	51.96	JUL 8	52.38				

404302073295705. Local number, N 1263-5.
LOCATION.--Lat 40°43'02", long 73°29'57", Hydrologic Unit 02030202, at Wantagh Avenue and Miller Place, Levittown.
Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 29 ft (9 m), screen assumed at bottom.
DATUM.--Land-surface datum is 67.0 ft (20.4 m) above mean sea level. Measuring point: Top of casing, 0.41 ft (0.12 m) below land-surface datum.
REMARKS.--Water-quality records for 1968, 1970, 1974-76, are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for June 1936 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.05 ft (19.22 m) above mean sea level, June 29, 1948; lowest measured, 44.01 ft (13.41 m) above mean sea level, Aug. 25, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	50.46	DEC 27	49.74	MAR 21	49.71	MAY 23	50.64	JUL 26	48.87	SEP 7	49.12 G
NOV 22	51.01	JAN 27	49.53	30	50.59 G	JUN 13	50.42 G	AUG 24	49.37	26	49.36
DEC 8	50.62 G	FEB 22	49.67	APR 26	50.49	24	49.99				

404446073392904. Local number, N 1614-4.
LOCATION.--Lat 40°44'46", long 73°39'29", Hydrologic Unit 02030202, at Herricks Road and Sally Place, Mineola.
Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 53 ft (16 m), screen assumed at bottom.
DATUM.--Land-surface datum is 100.1 ft (30.5 m) above mean sea level. Measuring point: Top of casing, 0.26 ft (0.08 m) below land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for January 1933 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 72.48 ft (22.09 m) above mean sea level, May 31, 1949; lowest measured, 48.42 ft (14.76 m) above mean sea level, Dec. 21, 1970.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	55.17	JAN 28	53.43	APR 28	53.84	JUN 24	54.92	JUL 8	53.73	AUG 24	52.21
NOV 22	54.21	FEB 22	53.24	MAY 23	53.39	27	56.47	26	52.02	SEP 28	52.82
DEC 27	53.67	MAR 21	53.40								

G MEASUREMENT BY ANOTHER AGENCY

404210073340702. Local number, N 1615-2.
LOCATION.--Lat 40°42'10", long 73°34'07", Hydrologic Unit 02030202, at Merrick and Van Buren Avenues, East Meadow. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 32 ft (10 m), screen assumed at bottom.
DATUM.--Land-surface datum is 61.0 ft (18.6 m) above mean sea level. Measuring point: Top of casing, 0.13 ft (0.04 m) below land-surface datum.
REMARKS.--Water-quality records for 1966-67, 1969, 1972, are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for March 1913 to December 1915, June 1932 to September 1975, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.17 ft (14.38 m) above mean sea level, Mar. 28, 1939; lowest measured, 37.88 ft (11.55 m) above mean sea level, Aug. 25, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	41.44	DEC 27	40.84	FEB 22	40.57	APR 26	41.87	JUN 24	40.67	AUG 24	40.48
NOV 22	41.27	JAN 27	40.72	MAR 21	41.01	MAY 23	41.58	JUL 26	40.45	SEP 26	40.25

404554073351502. Local number, N 1616-2.
LOCATION.--Lat 40°45'54", long 73°35'15", Hydrologic Unit 02030202, at Post Avenue and Argyle Road, Westbury. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2 in (0.05 m), depth 68 ft (21 m), screened 65 to 68 ft (20 to 21 m).
DATUM.--Land-surface datum is 122.4 ft (37.3 m) above mean sea level. Measuring point: Top of casing, 0.32 ft (0.10 m) below land-surface datum.
REMARKS.--Water-quality records for 1969 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--March 1913 to December 1915, June 1932 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 85.42 ft (26.04 m) above mean sea level, June 1, 1939; lowest measured, 68.28 ft (20.81 m) above mean sea level, Feb. 28, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	79.52	DEC 27	78.89	FEB 22	78.08	APR 26	77.93	JUN 24	77.66	AUG 24	77.03
NOV 22	79.34	JAN 27	78.50	MAR 21	77.78	MAY 23	77.90	JUL 26	77.26	SEP 26	76.68

404935073384901. Local number, N 2424.
LOCATION.--Lat 40°49'35", long 73°38'49", Hydrologic Unit 02030201, at Long Island Lighting Company plant on Glenwood Road, Glenwood Landing. Owner: Long Island Lighting Company.
AQUIFER.--Lloyd.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 12 in (0.30 m), depth 461 ft (141 m), screened 427 to 459 ft (130 to 140 m).
DATUM.--Land-surface datum is 20.0 ft (6.1 m) above mean sea level. Measuring point: Top of casing, 1.80 ft (0.55 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for February 1948 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.89 ft (6.37 m) above mean sea level, Mar. 14, 1961; lowest measured, 2.13 ft (0.65 m) above mean sea level, Oct. 30, 1972.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	17.00	DEC 20	17.83	FEB 25	15.81	APR 25	12.79	JUN 23	12.70	AUG 24	12.81
NOV 22	17.29	JAN 21	18.30	MAR 27	14.45	MAY 24	13.61	JUL 26	9.86	SEP 25	14.24

NASSAU COUNTY--Continued

405101073343401. Local number, N 2528.
LOCATION.--Lat 40°51'01", long 73°34'34", Hydrologic Unit 02030201, at Chicken Valley and Wolver Hollow Roads, Upper Brookville. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m) to 4 in (0.10 m), depth 282 ft (86 m), slotted 278 to 282 ft (85 to 86 m).
DATUM.--Land-surface datum is 93.1 ft (28.4 m) above mean sea level. Measuring point: Top of nipple, 0.76 ft (0.23 m) above land-surface datum.
REMARKS.--Water-quality records for 1972 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--December 1947 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.92 ft (24.36 m) above mean sea level, July 25, 1957; lowest measured, 59.12 ft (18.02 m) above mean sea level, Feb. 24, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 21	70.60	FEB 23	69.86	APR 1	70.47	JUN 21	69.87	SEP 21	68.49		

403805073395301. Local number, N 2790.
LOCATION.--Lat 40°38'05", long 73°39'53", Hydrologic Unit 02030202, at Bay Park Sewage Treatment Plant, Bay Park. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 560 ft (171 m), screened 538 to 560 ft (164 to 171 m).
DATUM.--Land-surface datum is 6.0 ft (1.8 m) above mean sea level. Measuring point: Base of recorder shelf, 3.82 ft (1.16 m) above land-surface datum.
REMARKS.--Water-quality records for 1964-66, 1968, 1971-74, are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for July 1960 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.50 ft (1.98 m) above mean sea level, Apr. 6, 1958; lowest measured, 0.36 ft (0.11 m) below mean sea level, July 20, 1977.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	3.12	DEC 31	2.33	FEB 28	2.57	APR 30	2.97	JUN 30	1.88	AUG 31	1.68
NOV 30	2.35	JAN 31	2.02	MAR 31	3.15	MAY 31	1.72	JUL 31	1.67	SEP 30	2.93

404619073270602. Local number, N 3355.
LOCATION.--Lat 40°46'19", long 73°27'06", Hydrologic Unit 02030202, at Round Swamp Road, 0.7 mi (1.1 km) south of Old Country Road, Plainview. Owner: U.S. Geological Survey.
AQUIFER.--Lloyd.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in (0.20 m) to 4 in (0.10 m), depth 1,090 ft (332 m), screened 1,070 to 1,090 ft (326 to 332 m).
DATUM.--Land-surface datum is 184.5 ft (56.2 m) above mean sea level. Measuring point: Top of casing, 0.85 ft (0.26 m) below land-surface datum.
REMARKS.--Water-quality records for 1951 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--August 1951 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.17 ft (11.02 m) above mean sea level, Apr. 10, 1957; lowest measured, 23.18 ft (7.07 m) above mean sea level, Apr. 11, 1972.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 22	33.03	FEB 23	34.05	APR 1	33.45	SEP 20	31.36				

403751073440201. Local number, N 3861.
LOCATION.--Lat 40°37'51", long 73°44'02", Hydrologic Unit 02030202, at Water Pollution Control Plant, Arlington Place, Cedarhurst. Owner: Village of Cedarhurst.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 530 ft (162 m), screened 520 to 530 ft (158 to 162 m).
DATUM.--Land-surface datum is 7.0 ft (2.1 m) above mean sea level. Measuring point: Top of casing, 2.37 ft (0.72 m) above land-surface datum.
REMARKS.--Water-quality records for 1952-53, 1956, 1959, 1970, 1974, are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for April 1952 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.15 ft (0.96 m) below mean sea level, Apr. 13, 1953; lowest measured, 7.57 ft (2.31 m) below mean sea level, Aug. 17, 1955.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	-5.38	DEC 19	-5.41	FEB 22	-5.37	APR 24	-5.20	JUN 23	-5.54	AUG 23	-5.14
NOV 21	-5.22	JAN 20	-5.55	MAR 25	-4.95	MAY 23	-5.28	JUL 24	-5.92	SEP 23	-4.53

403911073432001. Local number, N 3867.
LOCATION.--Lat 40°39'11", long 73°43'20", Hydrologic Unit 02030202, at Brook Road Park, at the end of Brook Road, Green Acres. Owner: Town of Hempstead.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 517 ft (158 m), screened 506 to 511 ft (154 to 156 m).
DATUM.--Land-surface datum is 7.9 ft (2.4 m) above mean sea level. Measuring point: Top of casing, 1.30 ft (0.40 m) above land-surface datum.
REMARKS.--Water-quality records for 1971 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for December 1952 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.99 ft (2.44 m) above mean sea level, Jan. 28, 1953; lowest measured, 2.61 ft (0.80 m) below mean sea level, July 19, 1977.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	0.46	DEC 20	0.44	FEB 23	-0.16	APR 25	0.31	JUN 23	-0.95	AUG 23	-0.30
NOV 22	0.41	JAN 24	-0.11	MAR 25	0.75	MAY 23	-0.40	JUL 25	-1.38	SEP 23	0.76

405125073420701. Local number, N 6282.
LOCATION.--Lat 40°51'25", long 73°42'07", Hydrologic Unit 02030201, at Helen Keller National Center for Deaf-Blind Youths and Adults, Middle Neck Road, Sands Point. Owner: U.S. Geological Survey.
AQUIFER.--Jameco.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 396 ft (121 m), screened 384 to 394 ft (117 to 120 m).
DATUM.--Land-surface datum is 99.0 ft (30.2 m) above mean sea level. Measuring point: Top of flange, 3.22 ft (0.98 m) above land-surface datum.
REMARKS.--Water-quality records for 1976 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for December 1960 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.58 ft (3.22 m) above mean sea level, Apr. 25, 1962; lowest measured 13.71 ft (4.18 m) below mean sea level, July 22, 1977.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	7.91	DEC 21	7.85	FEB 25	8.21	APR 26	7.47	JUN 24	-5.85	AUG 25	-2.25
NOV 23	7.70	JAN 25	8.06	MAR 29	8.20	MAY 24	0.80	JUL 26	-7.15	SEP 26	6.26

NASSAU COUNTY--Continued

403517073430702. Local number, N 6702.
LOCATION.--Lat 40°35'17", long 73°43'07", Hydrologic Unit 02030202, at Richard and Park Streets, Atlantic Beach. Owner: Long Island Water Company.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (0.10 m), depth 677 ft (206 m), screen assumed at bottom.
DATUM.--Land-surface datum is 11.0 ft (3.4 m) above mean sea level. Measuring point: Top of coupling, 1.05 ft (0.32 m) above land-surface datum.
REMARKS.--Water-quality records for 1960 and 1970 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for August 1959 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.50 ft (0.76 m) below mean sea level, Apr. 13, 1961; lowest measured, 8.50 ft (2.59 m) below mean sea level, Jul. 23, 1974.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	-4.55	DEC 20	-4.62	FEB 22	-5.68	APR 25	-4.92	JUN 26	-5.01	AUG 22	-5.00
NOV 22	-4.63	JAN 22	-5.59	MAR 27	-5.30	MAY 25	-5.50	JUL 24	-5.66	SEP 25	-3.69

403713073415902. Local number, N 6707.
LOCATION.--Lat 40°37'13", long 73°41'59", Hydrologic Unit 02030202, at end of Woodmere Boulevard, at the town dock, Woodsburgh. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (0.10 m), depth 503 ft (153 m), screened 494 to 503 ft (151 to 153 m).
DATUM.--Land-surface datum is 5.0 ft (1.5 m) above mean sea level. Measuring point: Top of coupling, 2.08 ft (0.63 m) above land-surface datum.
REMARKS.--Water-quality records for 1960, 1964, 1970-71, are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for October 1959 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.52 ft (1.38 m) above mean sea level, Mar. 13, 1961; lowest measured, 1.18 ft (0.36 m) below mean sea level, July 24, 1974.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	1.47	DEC 13	1.28	FEB 11	0.82	APR 11	1.71	JUN 12	1.66	AUG 9	1.28
NOV 12	1.50	JAN 12	0.94	MAR 11	1.47	MAY 11	2.35	JUL 11	0.40	SEP 10	1.52

403533073353202. Local number, N 6850.
LOCATION.--Lat 40°35'33", long 73°35'32", Hydrologic Unit 02030202, at Lido Boulevard, 0.3 mi. (0.5 km) west of Loop Parkway, Lido Beach. Owner: U.S. Geological Survey.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 913 ft (278 m), screened 899 to 910 ft (274 to 277 m).
DATUM.--Land-surface datum is 6.8 ft (2.1 m) above mean sea level. Measuring point: Top of coupling, 2.40 ft (0.73 m) above land-surface datum.
REMARKS.--Water-quality records for 1960 and 1975 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for 1960-75 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.00 ft (2.43 m) above mean sea level, Apr. 13, 1961; lowest measured, 2.75 ft (0.84 m) above mean sea level, July 28, 1977.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	5.60	DEC 20	5.52	FEB 22	4.51	APR 25	5.49	JUN 25	4.71	AUG 22	4.95
NOV 22	5.48	JAN 20	5.01	MAR 26	5.07	MAY 24	4.72	JUL 24	4.23	SEP 23	5.21

405432073345001. Local number, N 7152.
LOCATION.--Lat 40°54'32", long 73°34'50", Hydrologic Unit 02030201, at Oak Neck Beach, Bayville. Owner: Town of Oyster Bay.
AQUIFER.--Lloyd.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 367 ft (112 m), screened 360 to 367 ft (110 to 112 m).
DATUM.--Land-surface datum is 15.0 ft (4.6 m) above mean sea level. Measuring point: Top of nipple, 3.13 ft (0.95 m) above land-surface datum.
REMARKS.--Water-quality records for 1970 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for September 1961 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.74 ft (4.80 m) above mean sea level, Feb. 5, 1962; lowest measured, 2.54 ft (0.77 m) below mean sea level, July 15, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	11.33	DEC 20	11.59	FEB 23	8.51	APR 26	9.30	JUN 23	5.62	AUG 24	9.19
NOV 22	10.17	JAN 23	10.52	MAR 28	9.20	MAY 23	4.15	JUL 26	3.80	SEP 25	11.02

403856073392601. Local number, N 7161.
LOCATION.--Lat 40°38'56", long 73°39'26", Hydrologic Unit 02030202, at Village Dump, at end of Riverside Road, Rockville Centre. Owner: Village of Rockville Centre.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 666 ft (203 m), screened 611 to 666 ft (186 to 203 m).
DATUM.--Land-surface datum is 7.0 ft (2.1 m) above mean sea level. Measuring point: Top of base of recorder shelf, 2.78 ft (0.85 m) above land-surface datum.
REMARKS.--Water-quality records 1964-67 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for 1961-75 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.03 ft (2.45 m) above mean sea level, Mar. 13, 1962; lowest measured, 2.81 ft (0.86 m) below mean sea level, July 13, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	5.19	DEC 20	4.69	FEB 23	4.28	APR 25	4.28	JUN 23	2.12	AUG 23	3.26
NOV 22	4.67	JAN 24	4.42	MAR 25	5.19	MAY 23	2.59	JUL 25	0.59	SEP 23	3.78

404237073433701. Local number, N 7493.
LOCATION.--Lat 40°42'37", long 73°43'37", Hydrologic Unit 02030202, at Hempstead Turnpike and Cross Island Parkway, Elmont. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (0.10 m), depth 353 ft (108 m), screened 348 to 353 ft (106 to 108 m).
DATUM.--Land-surface datum is 76.0 ft (23.2 m) above mean sea level. Measuring point: Top of flange, 1.59 ft (0.48 m) above land-surface datum.
REMARKS.--Water-quality records for 1964, 1967, 1972, are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for 1964-75 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.33 ft (6.20 m) above mean sea level, Apr. 30, 1964; lowest measured, 4.63 ft (1.41 m) above mean sea level, Sept. 18, 1977.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	7.93	DEC 20	8.12	FEB 23	7.73	APR 22	7.45	JUN 23	6.30	AUG 22	5.08
NOV 22	8.09	JAN 24	7.85	MAR 25	7.78	MAY 23	6.90	JUL 25	5.50	SEP 23	4.75

405418073323801. Local number, N 7546.
LOCATION.--Lat 40°54'18", long 73°32'38", Hydrologic Unit 02030201, at West Harbor Drive and Ludlum Avenue, Bayville. Owner: Nassau County Department of Public Works.
AQUIFER.--Lloyd.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 364 ft (111 m), screened 359 to 364 ft (109 to 111 m).
DATUM.--Land-surface datum is 12.0 ft (3.7 m) above mean sea level. Measuring point: Top of casing, 1.87 ft (0.57 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for 1964-75 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.15 ft (4.01 m) above mean sea level, Mar. 15, 1975; lowest measured, 2.49 ft (0.76 m) above mean sea level, July 24, 1977.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	11.09	DEC 20	11.40	FEB 23	9.23	APR 25	9.63	JUN 23	8.15	AUG 24	9.84
NOV 22	10.59	JAN 20	10.55	MAR 27	9.78	MAY 24	7.71	JUL 25	7.21	SEP 25	11.38

403805073395303. Local number, N 7675.
LOCATION.--Lat 40°38'05", long 73°39'53", Hydrologic Unit 02030202, at Bay Park Sewage Treatment Plant, Bay Park. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 35 ft (11 m), screened 28 to 34 ft (9 to 10 m).
DATUM.--Land-surface datum is 6.0 ft (1.8 m) above mean sea level. Measuring point: Top of casing, 2.95 ft (0.90 m) above land-surface datum.
REMARKS.--Water-quality records for 1965 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for 1966-75 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.55 ft (1.08 m) above mean sea level, Sept. 27, 1975; lowest measured, 0.30 ft (0.09 m) above mean sea level, Feb. 2, 1977.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11	1.76	DEC 13	1.34	FEB 11	0.69	APR 11	1.82	JUN 12	1.95	AUG 9	1.41
NOV 11	1.43	JAN 11	1.42	MAR 11	1.08	MAY 11	2.10	JUL 11	1.37	SEP 11	1.49

403805073395304. Local number, N 7676.
LOCATION.--Lat 40°38'05", long 73°39'53", Hydrologic Unit 02030202, at Bay Park Sewage Treatment Plant, Bay Park. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 4 in (0.10 m), depth 10 ft (3 m), screened 7 to 10 ft (2.1 to 3.0 m).
DATUM.--Land-surface datum is 6.0 ft (1.8 m) above mean sea level. Measuring point: Top of casing, 3.33 ft (1.01 m) above land-surface datum.
REMARKS.--Water-quality records for 1965 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for 1966-75 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.37 ft (1.33 m) above mean sea level, June 13, 1975; lowest measured, 0.20 ft (0.06 m) above mean sea level, Apr. 24, 1975.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	1.57	DEC 13	0.88	FEB 11	0.56	APR 11	1.77	JUN 13	1.72	AUG 10	1.36
NOV 12	1.15	JAN 12	1.40	MAR 11	0.98	MAY 12	1.94	JUL 12	1.27	SEP 12	1.20

403805073395503. Local number, N 7677.
LOCATION.--Lat 40°38'05", long 73°39'55", Hydrologic Unit 02030202, at Bay Park Sewage Treatment Plant, Bay Park. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 89 ft (27 m), screened 84 to 89 ft (26 to 27 m).
DATUM.--Land-surface datum is 6.0 ft (1.8 m) above mean sea level. Measuring point: Top of casing, 2.66 ft (0.81 m) above land-surface datum.
REMARKS.--Water-quality records for 1965 and 1973 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for 1966-75 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.66 ft (1.12 m) above mean sea level, June 12, 1975; lowest measured, 0.40 ft (0.12 m) above mean sea level, Feb. 2, 1977.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11	1.91	DEC 13	1.54	FEB 11	0.98	APR 11	1.99	JUN 12	2.14	AUG 9	1.55
NOV 11	1.65	JAN 12	1.34	MAR 11	1.36	MAY 11	2.28	JUL 11	1.47	SEP 11	1.83

403803073395306. Local number, N 7888.
LOCATION.--Lat 40°38'03", long 73°39'53", Hydrologic Unit 02030202, at Bay Park Sewage Treatment Plant, Bay Park. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 3 in (0.08 m), depth 327 ft (100 m), screened 307 to 317 ft (94 to 97 m).
DATUM.--Land-surface datum is 6.0 ft (1.8 m) above mean sea level. Measuring point: Top of casing, 5.56 ft (1.69 m) above land-surface datum.
REMARKS.--Water-quality records for 1965-70, 1972-73, are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for 1966-75 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.41 ft (1.34 m) above mean sea level, Mar. 16, 1976; lowest measured, 0.52 ft (0.16 m) above mean sea level, July 20, 1977.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11	2.75	DEC 13	2.57	FEB 11	2.12	APR 11	3.05	JUN 12	2.88	AUG 9	2.30
NOV 11	2.69	JAN 11	2.36	MAR 11	2.59	MAY 11	3.33	JUL 11	1.68	SEP 11	2.37

403804073395201. Local number, N 8022.
LOCATION.--Lat 40°38'04", long 73°39'52", Hydrologic Unit 02030202, at Bay Park Sewage Treatment Plant, Bay Park. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 490 ft (149 m), screened 420 to 480 ft (128 to 146 m).
DATUM.--Land-surface datum is 6.0 ft (1.8 m) above mean sea level. Measuring point: Top of casing, 4.10 ft (1.25 m) above land-surface datum.
REMARKS.--Water-quality records for 1972-74 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for 1966-75 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.42 ft (1.35 m) above mean sea level, Mar. 16, 1976; lowest measured, 0.43 ft (0.13 m) above mean sea level, July 23, 1977.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11	2.73	DEC 13	2.55	FEB 11	2.11	APR 11	3.07	JUN 12	2.84	AUG 9	2.18
NOV 11	2.67	JAN 11	2.41	MAR 11	2.13	MAY 11	3.32	JUL 11	1.45	SEP 10	2.10

404947073450301. Local number, N 8046.
LOCATION.--Lat 40°49'47", long 73°45'03", Hydrologic Unit 02030201, at Pond and Kings Point Roads, Kings Point. Owner: Nassau County Department of Public Works.
AQUIFER.--Jameco.
WELL CHARACTERISTICS.--Driven observation artesian well, diameter 4 in (0.10 m), depth 189 ft (58 m), screened 184 to 189 ft (56 to 58 m).
DATUM.--Land-surface datum is 8.0 ft (2.4 m) above mean sea level. Measuring point: Top of casing, 3.66 ft (1.12 m) above land-surface datum.
REMARKS.--Water-quality records for 1966 and 1976 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for May 1966 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.24 ft (1.90 m) above mean sea level, Apr. 4, 1973; lowest measured, 1.20 ft (0.36 m) below mean sea level, July 19, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	3.86	DEC 20	4.04	FEB 25	4.02	APR 25	4.06	JUN 23	2.27	AUG 24	2.68
NOV 22	4.00	JAN 21	3.50	MAR 29	3.98	MAY 24	2.44	JUL 25	1.58	SEP 25	3.91

404537073370102. Local number, N 8269-2.
LOCATION.--Lat 40°45'37", long 73°37'01", Hydrologic Unit 02030202, at Hillside Avenue and Bacon Road, Old Westbury. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 4 in (0.10 m), depth 86 ft (26 m), screened 81 to 86 ft (25 to 26 m).
DATUM.--Land-surface datum is 111.7 ft (34.0 m) above mean sea level. Measuring point: Top of coupling, 0.15 ft (0.05 m) below land-surface datum.
REMARKS.--Prior to April 1976, well was in upper glacial aquifer, depth 63.7 ft (19.4 m). Replaced well N 1256, April 1967.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for June 1936 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 80.97 ft (24.68 m) above mean sea level, May 20, 1939; lowest measured, 60.83 ft (18.54 m) above mean sea level, Sept. 29, 1971.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	69.90	DEC 27	69.39	MAR 21	68.55	APR 26	68.97	JUN 24	68.55	AUG 24	67.99
NOV 22	69.70	JAN 27	69.08	29	68.47 G	MAY 23	68.77	JUL 26	68.00	SEP 26	67.77
DEC 3	69.15 G	FEB 22	68.71								

404742073410301. Local number, N 8309.
LOCATION.--Lat 40°47'42", long 73°41'03", Hydrologic Unit 02030201, at Northern Boulevard and Manhasset Woods Road, Munsey Park. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 199 ft (61 m), screened 194 to 199 ft (59 to 61 m).
DATUM.--Land-surface datum is 143.2 ft (43.6 m) above mean sea level. Measuring point: Top of pipe, 0.10 ft (0.03 m) below land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for March 1967 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.21 ft (12.87 m) above mean sea level, May 25, 1976; lowest measured, 33.53 ft (10.22 m) above mean sea level, Sept. 23, 1968.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 4	41.07	DEC 28	40.74	MAR 21	41.50	MAY 23	40.91	JUL 26	39.32	AUG 30	39.40 G
26	40.88	JAN 31	41.06	23	41.70 G	JUN 8	40.50 G	AUG 29	39.27	SEP 26	39.05
DEC 1	40.50 G	FEB 22	41.60	APR 26	41.21	24	40.15				

G MEASUREMENT BY ANOTHER AGENCY

NASSAU COUNTY--Continued

404404073305701. Local number, N 8959.
LOCATION.--Lat 40°44'04", long 73°30'57", Hydrologic Unit 02030202, at Meadowbrook Hospital Sewage Treatment Plant, East Meadow. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 49 ft (15 m), screened 41 to 46 ft (12 to 14 m).
DATUM.--Land surface datum is 100.3 ft (30.6 m) above mean sea level. Measuring point: Top of reducer, 2.87 ft (0.87 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for December 1972 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.79 ft (21.27 m) above mean sea level, July 16, 1973; lowest measured, 64.87 ft (19.77 m) above mean sea level, Dec. 16, 1974.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	67.42	DEC 21	66.33	FEB 22	65.34	APR 22	66.59	JUN 23	66.18	AUG 25	65.99
NOV 23	66.57	JAN 20	66.08	MAR 25	65.79	MAY 23	66.59	JUL 22	66.26	SEP 23	65.73

404758073440602. Local number, N 9099.
LOCATION.--Lat 40°47'58", long 73°44'06", Hydrologic Unit 02030201, at Middle Neck Road and Preston Road, Great Neck. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 71 ft (22 m), screened 66 to 71 ft (20 to 22 m).
DATUM.--Land-surface datum is 59.7 ft (18.2 m) above mean sea level. Measuring point: Top of coupling, 0.10 ft (0.03 m) below land-surface datum.
REMARKS.--Well N 9099 replaces N 1479. Prior to April 1976, water levels were measured in N 1479. Water-quality records for 1976 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--April 1976 to current year. Unpublished records for September 1944 to December 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.32 ft (8.33 m) above mean sea level, June 15, 1949; lowest measured, 15.07 ft (4.59 m) above mean sea level, Dec. 19, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 4	22.43	DEC 28	21.73	FEB 22	21.18	APR 26	20.35	JUN 24	20.02	AUG 29	19.13
26	22.11	JAN 31	21.52	MAR 21	20.66	MAY 23	20.19	JUL 26	19.53	SEP 26	18.76

QUEENS COUNTY

404451073475001. Local number, Q 283.
LOCATION.--Lat 40°44'51", long 73°47'50", Hydrologic Unit 02030201, at Underhill Avenue and 171st Street, Flushing. Owner: City of New York, Department of Water Supply, Gas and Electricity.
AQUIFER.--Lloyd.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 26 in (0.66 m), depth 409 ft (125 m), screened 309 to 352 ft (94 to 107 m), 367 to 409 ft (122 to 125 m).
DATUM.--Land-surface datum is 27.0 ft (8.23 m) above mean sea level. Measuring point: Top of iron plate, 1.61 ft (0.49 m) above land-surface datum.
PERIOD OF RECORD.--June 1946 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.13 ft (0.34 m) above mean sea level, Mar. 28, 1961; lowest measured, 27.40 ft (8.35 m) below mean sea level, Sept. 14, 1976.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 5	-8.34	MAR 22	-7.59	JUL 3	-13.10	JUL 5	-13.10	SEP 22	-13.03		

QUEENS COUNTY--Continued

404418073434101. Local number, Q 577.
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, Bellrose. Owner: State of New York.
AQUIFER.--Lloyd.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 12 in (0.30 m), depth 644 ft (196 m), screen assumed at bottom.
DATUM.--Land-surface datum is 113.1 ft (34.5 m) above mean sea level. Measuring point: Top of casing, 1.45 ft (0.44 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for February 1946 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.65 ft (2.94 m) above mean sea level, Mar. 13, 1959; lowest measured, 19.74 ft (6.02 m) below mean sea level, Jul. 27, 1954.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	-6.19	DEC 20	-2.92	FEB 22	0.43	APR 22	-1.73	JUN 23	-7.87	AUG 22	-8.42
NOV 22	-4.62	JAN 21	-1.87	MAR 24	1.03	MAY 23	-4.19	JUL 22	-10.37	SEP 23	-7.60

404157073480102. Local number, Q 1252.
LOCATION.--Lat 40°41'57", long 73°48'01", Hydrologic Unit 02030202, at Liberty Avenue and 157th Street, Jamaica. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 60 ft (18 m), screened 58 to 60 ft (17.7 to 18.3 m).
DATUM.--Land-surface datum is 31.2 ft (9.5 m) above mean sea level. Measuring point: Top of coupling, 0.31 ft ft (0.09 m) above land-surface datum.
PERIOD OF RECORD.--October 1940 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.92 ft (4.24 m) above mean sea level, Nov. 2, 1948; lowest measured, 2.81 ft (0.86 m) below mean sea level, Feb. 9, 1971.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 22	2.93	MAR 10	1.85	MAR 25	1.67	JUL 5	1.51				

404113073501101. Local number, Q 1254.
LOCATION.--Lat 40°41'13", long 73°50'11", Hydrologic Unit 02030202, at 108th Street and 101st Avenue, Woodhaven. Owner: New York City.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.5 in (0.04 m), depth 65 ft (20 m), screened 63 to 65 ft (19 to 20 m).
DATUM.--Land-surface datum is 56.0 ft (17.1 m) above mean sea level. Measuring point: Top of coupling, 10.46 (3.19 m) below land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for October 1940 to December 1954, January 1956 to December 1957, March 1959 to September 1975, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.34 ft (1.63 m) above mean sea level, Feb. 25, 1976; lowest measured, 11.29 ft (3.44 m) below mean sea level, Sept. 2, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 4	5.07	DEC 28	5.09	FEB 22	4.64	APR 27	4.23	JUN 24	4.44	SEP 27	3.78
26	4.62	JAN 31	4.77	MAR 21	4.84	MAY 23	4.54	AUG 29	4.39		

QUEENS COUNTY--Continued

404656073503701. Local number, Q 1373.
LOCATION.--Lat 40°46'56", long 73°50'37", Hydrologic Unit 02030201, at 127th Street and 20th Avenue, College Point.
Owner: Modulaire Components Corporation.
AQUIFER.--Lloyd.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 262 ft (80 m), screened 194 to 206 ft (59 to 63 m).
DATUM.--Land-surface datum is 50.3 ft (15.3 m) above mean sea level. Measuring point: Top of recorder shelf, 1.10 ft (0.33 m) below land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for 1947-48, 1950, 1952-53, 1962, 1968-73, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.12 ft (1.87 m) above mean sea level, Jan. 10, 1973; lowest measured, 2.80 ft (0.85 m) below mean sea level, Feb. 7, 1962.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	4.09	DEC 20	3.64	FEB 22	3.39	APR 22	3.87	JUN 22	4.04	AUG 21	3.96
NOV 18	3.90	JAN 21	3.44	MAR 24	3.79	MAY 23	3.97	JUL 22	3.95	SEP 22	4.05

403957073495002. Local number, Q 2324.
LOCATION.--Lat 40°39'57", long 73°49'50", Hydrologic Unit 02030202, at North Conduit Avenue and 114th Street, South Ozone Park. Owner: New York Racing Association, Inc.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2.5 in (0.06 m), depth 91 ft (28 m), screen assumed at bottom.
DATUM.--Land-surface datum is 22.0 ft (6.7 m) above mean sea level. Measuring point: Top of coupling at land-surface datum.
REMARKS.--Water-quality records for 1970 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--March 1959 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.34 ft (1.02 m) above mean sea level, Oct. 6, 1975; lowest measured, 3.40 ft (1.04 m) below mean sea level, May 25, 1959.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 22	1.84	MAR 22	2.40	JUL 5	2.36						

404451073475002. Local number, Q 2346.
LOCATION.--Lat 40°44'51", long 73°47'50", Hydrologic Unit 02030201, at Underhill Avenue and Fresh Meadow Lane, Flushing. Owner: New York City.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation well, diameter 1.25 in (0.03 m), depth 17.0 ft (5.2 m), screen assumed at bottom.
DATUM.--Land-surface datum is 29.0 ft (8.8 m) above mean sea level. Measuring point: Top of casing, 0.98 ft (0.30 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for August 1960 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.99 ft (6.70 m) above mean sea level, Apr. 26, 1961; lowest measured, 13.96 ft (4.26 m) above mean sea level, Nov. 4, 1970.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 4	16.23	DEC 28	15.63	FEB 22	15.28	APR 27	16.00	JUN 24	15.32	AUG 29	14.88
26	15.84	JAN 31	15.43	MAR 21	15.72	MAY 23	15.48	JUL 26	14.98	SEP 27	14.73

QUEENS COUNTY--Continued

404025073463801. Local number, Q2422.
LOCATION.--Lat 40°40'25", long 73°46'38", Hydrologic Unit 02030202, at New York Boulevard and 132nd Avenue, Jamaica. Owner: Jamaica Water Supply Company.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in (0.20 m), depth 370 ft (113 m), screened 342 to 362 ft (104 to 110 m).
DATUM.--Land-surface datum is 21.0 ft (6.4 m) above mean sea level. Measuring point: Top of nipple, 1.21 ft (0.37 m) above land-surface datum.
REMARKS.--Water-quality records for 1970 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for 1964-75 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.40 ft (0.12 m) above mean sea level, Apr. 5, 1977; lowest measured, 5.65 ft (1.72 m) below mean sea level, Sep. 7, 1970.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	-2.33	DEC 20	-2.44	FEB 22	-0.57	APR 22	-0.09	JUN 23	-2.65	AUG 22	-2.75
NOV 22	-2.28	JAN 24	-2.77	MAR 25	-0.05	MAY 23	-2.02	JUL 25	-2.81	SEP 23	-2.53

SUFFOLK COUNTY

404213073204001. Local number, S 1803.
LOCATION.--Lat 40°42'13", long 73°20'40", Hydrologic Unit 02030202, at Little East Neck Road and State Highway 109, Babylon. Owner: New York State Department of Transportation.
AQUIFER:--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 19 ft (6 m), screened 16 to 19 ft (5 to 6 m).
DATUM.--Land-surface datum is 23.7 ft (7.2 m) above mean sea level. Measuring point: Top of casing, 0.13 ft (0.04 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for October 1912 to November 1914, August and September 1932, June 1936 to September 1975, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.19 ft (5.54 m) above mean sea level, Apr. 22, 1913; lowest measured, 13.06 ft (3.98 m) above mean sea level, July 26, 1976.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	16.33	DEC 27	16.31	FEB 22	16.41	APR 26	17.50	JUN 24	16.53	AUG 24	15.88
NOV 22	16.24	JAN 28	16.44	MAR 21	16.91	MAY 23	17.03	JUL 26	15.92	SEP 27	15.91

404301073240904. Local number, S 1805-4.
LOCATION.--Lat 40°43'01", long 73°24'09", Hydrologic Unit 02030202, at State Highway 109 and Albany Road, Maywood. Owner: New York State Department of Transportation.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2 in (0.05 m), depth 33 ft (10 m), screen assumed at bottom.
DATUM.--Land-surface datum is 57.0 ft (17.4 m) above mean sea level. Measuring point: Top of casing, 1.22 ft (0.37 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for October 1912 to November 1914, February 1932 to September 1975, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.17 ft (13.46 m) above mean sea level, Apr. 28, 1953; lowest measured, 35.79 ft (10.91 m) above mean sea level, Dec. 28, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	41.31	DEC 4	40.64 G	FEB 22	39.95	MAY 23	41.58	JUL 27	40.63 G	AUG 29	40.18 G
30	41.30 G	27	40.36	MAR 21	40.43	JUN 24	41.26	AUG 24	40.26	SEP 27	40.03
NOV 22	40.89	JAN 27	40.24	APR 26	41.90	JUL 26	40.68				

G MEASUREMENT BY ANOTHER AGENCY

404442073240501. Local number, S 1806.
LOCATION.--Lat 40°44'42, long 73°24'05", Hydrologic Unit 02030202, at Conklin Street and Wellwood Avenue, Pinelawn. Owner: Suffolk County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 44 ft (13 m), screened 41 to 44 ft (12 to 13 m).
DATUM.--Land-surface datum is 85.7 ft (26.1 m) above mean sea level. Measuring point: Top of casing, 0.21 ft (0.06 m) below land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for October 1912 to November 1914, May 1932 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.68 ft (18.80 m) above mean sea level, Apr. 29, 1939; lowest measured, 46.97 ft (14.32 m) above mean sea level, Jan. 25, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	55.22	JAN 27	55.74	MAR 21	53.69	JUN 21	55.32 G	JUL 12	54.31	AUG 29	54.18 G
NOV 22	55.07	FEB 22	53.76	APR 26	55.29	24	54.74	AUG 24	54.14	SEP 27	52.55
DEC 27	55.04	MAR 19	54.32 G	MAY 23	55.28						

404319073184605. Local number, S 1807-5.
LOCATION.--Lat 40°43'19", long 73°18'46", Hydrologic Unit 02030202, at Higbie Lane and Martin Drive, West Islip. Owner: Town of Islip.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 21 ft (6 m), screen assumed at bottom.
DATUM.--Land-surface datum is 23.0 ft (7.0 m) above mean sea level. Measuring point: Top of casing, 0.21 ft (0.06 m) above land-surface datum.
REMARKS.--Water-quality records for 1972-73 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for October 1912 to November 1914, August 1932 to June 1933, June 1936 to September 1975, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.06 ft (7.03 m) above mean sea level, Sept. 30, 1938; lowest measured, 17.27 ft (5.26 m) above mean sea level, July 23, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	20.45	JAN 27	20.30	MAR 21	20.43	MAY 23	20.57	JUN 24	20.57	AUG 24	20.14
NOV 22	20.23	FEB 22	20.49	APR 26	20.90	JUN 16	20.42	JUL 26	20.29	SEP 27	20.28
DEC 27	20.26										

404221073164805. Local number, S 1808-5.
LOCATION.--Lat 40°42'21", long 73°16'48", Hydrologic Unit 02030202, at Manor and Bardolier Lanes, West Islip. Owner: Town of Islip.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 11 ft (3 m), screen assumed at bottom.
DATUM.--Land-surface datum is 13.0 ft (4.0 m) above mean sea level. Measuring point: Top of casing, 0.32 ft (0.10 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for October 1912 to November 1914, August 1932 to September 1975, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.29 ft (3.75 m) above mean sea level, Feb. 23, 1949; lowest measured, 6.08 ft (1.85 m) above mean sea level, Aug. 27, 1974.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	9.97	JAN 28	9.89	MAR 21	10.32	MAY 23	10.04	JUN 24	9.83	AUG 24	9.69
NOV 22	10.17	FEB 22	9.98	APR 26	10.42	JUN 22	9.74	JUL 26	9.50	SEP 27	9.96
DEC 27	9.96										

G MEASUREMENT BY ANOTHER AGENCY

SUFFOLK COUNTY--Continued

404351073164903. Local number, S 1809-3.
LOCATION.--Lat 40°43'51", long 73°16'49", Hydrologic Unit 02030202, at Manor Lane and Muncey Road, Bay Shore. Owner: Town of Islip.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 29 ft (9 m), screened 26 to 29 ft (8 to 9 m).
DATUM.--Land-surface datum is 42.0 ft (12.8 m) above mean sea level. Measuring point: Top of casing, 0.40 ft (0.12 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for October 1912 to November 1914, August 1932 to September 1975, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.40 ft (9.88 m) above mean sea level, Apr. 8, 1939; lowest measured, 25.00 ft (7.62 m) above mean sea level, Nov. 2, 1932.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	27.71	DEC 27	27.53	FEB 22	27.14	APR 26	29.16	JUN 24	28.12	AUG 24	27.00
NOV 22	27.39	JAN 27	27.30	MAR 21	27.76	MAY 23	28.66	JUL 26	27.36	SEP 27	26.83

404614073164403. Local number, S 1810-3.
LOCATION.--Lat 40°46'14", long 73°16'44", Hydrologic Unit 02030202, at Gardiner and Pine Aire Drives, Pine Aire. Owner: U.S. Geological Survey.
AQUIFER:--Upper Glacial.
WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in (0.05 m), depth 55 ft (17 m), screened 52 to 55 ft (16 to 17 m).
DATUM.--Land-surface datum is 90.8 ft (27.7 m) above mean sea level. Measuring point: Top of coupling, 0.15 ft (0.05 m) below land-surface datum.
PERIOD OF RECORD.--October 1912 to November 1914, August 1932 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.19 ft (17.13 m) above mean sea level, Apr. 29, 1939; lowest measured, 43.30 ft (13.20 m) above mean sea level, Feb. 27, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	50.97	FEB 15	49.56	MAR 21	49.65	MAY 23	50.30	JUN 24	49.95	AUG 24	49.39
NOV 22	50.91	22	49.34	APR 26	50.02	JUN 15	50.03	JUL 26	49.67	SEP 27	48.96
DEC 27	50.34										

404959073084902. Local number, S 1812-2.
LOCATION.--Lat 40°49'59", long 73°08'49", Hydrologic Unit 02030202, at Smithtown Boulevard and Nichols Road, Ronkonkoma. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 44 ft (13 m), screen assumed at bottom.
DATUM.--Land-surface datum is 69.9 ft (21.3 m) above mean sea level. Measuring point: Top of casing, 0.49 ft (0.15 m) below land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for April 1937 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.08 ft (15.57 m) above mean sea level, May 6, 1939; lowest measured, 40.09 ft (12.22 m) above mean sea level, Feb. 27. 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	46.67	DEC 22	45.91	MAR 3	45.59	APR 28	45.95	JUN 29	46.39	AUG 24	44.39
NOV 22	46.18	JAN 27	45.61	APR 4	45.86	MAY 31	45.36	JUL 27	44.50	SEP 20	44.62

404813073084102. Local number, S 1813-2.
LOCATION.--Lat 40°48'13", long 73°08'41", Hydrologic Unit 02030202, at Johnson Avenue and Terry Road, Ronkonkoma. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2 in (0.05 m), depth 52.5 ft (16.0 m), screened 50 to 52 ft (15 to 16 m).
DATUM.--Land-surface datum is 58.2 ft (17.7 m) above mean sea level. Measuring point: Top of coupling, 0.03 ft (0.01 m) below land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for November 1939 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.99 ft (12.49 m) above mean sea level, June 25, 1973; lowest measured, 36.46 ft (11.11 m) above mean sea level, Jan. 25, 1951.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	39.00	DEC 22	38.59	MAR 3	38.27	APR 28	38.79	JUN 27	38.48	AUG 24	37.88
NOV 22	38.79	JAN 27	38.43	APR 4	38.67	JUN 1	38.61	JUL 27	38.00	SEP 20	37.64

405146073031801. Local number, S 3513.
LOCATION.--Lat 40°51'46", long 73°03'18", Hydrologic Unit 02030202, at State Highway 25 and High View Drive, Seldon. Owner: New York Department of Transportation.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (0.20 m), depth 65 ft (20 m), screened 63 to 65 ft (19 to 20 m).
DATUM.--Land-surface datum is 101.0 ft (30.8 m) above mean sea level. Measuring point: Top of reducer, 1.31 ft (0.40 m) above land-surface datum.
PERIOD OF RECORD.--April 1942 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 67.63 ft (20.61 m) above mean sea level, Mar. 5, 1962; lowest measured, 56.06 ft (17.09 m) above mean sea level, Mar. 1, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	64.95	DEC 23	64.29	MAR 3	63.56	MAY 4	63.83	JUN 27	63.75	AUG 24	63.11
NOV 22	64.62	JAN 28	63.92	31	63.53	31	63.88	JUL 27	63.31	SEP 21	62.75

405031073181201. Local number, S 3514.
LOCATION.--Lat 40°50'31", long 73°18'12", Hydrologic Unit 02030202, at State Highway 25 and Wilshire Drive, Commack. Owner: Heatherwood Shopping Center.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in (0.76 m), depth 98 ft (30 m), screen assumed at bottom.
DATUM.--Land-surface datum is 153.6 ft (46.8 m) above mean sea level. Measuring point: Top of 2 in (0.05 m) coupling, 0.18 ft (0.05 m) below land-surface datum.
PERIOD OF RECORD.--May 1942 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 73.75 ft (22.48 m) above mean sea level, Apr. 28, 1976; lowest measured, 64.23 ft (19.58 m) above mean sea level, Mar. 18, 26, 1951.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	73.04	DEC 22	72.32	MAR 3	71.62	APR 28	71.50	JUN 27	71.19	AUG 23	71.03
NOV 22	72.74	JAN 28	72.08	APR 4	71.51	JUN 1	71.26	JUL 27	70.13	SEP 21	68.48

404812073004101. Local number, S 3521.
LOCATION.--Lat 40°48'12", long 73°00'41", Hydrologic Unit 02030202, at Medford Avenue, near Cedar Avenue, Medford. Owner: Town of Brookhaven.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2 in (0.05 m), depth 50 ft (15 m), screen assumed at bottom.
DATUM.--Land-surface datum is 72.0 ft (21.9 m) above mean sea level. Measuring point: Top of casing, 0.57 ft (0.17 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for January 1907 to July 1909, April 1942 to September 1975, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.97 ft (12.18 m) above mean sea level, June 25, 1958; lowest measured, 34.38 ft (10.48 m) above mean sea level, Oct. 26, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	37.23	DEC 23	36.84	MAR 3	36.63	MAY 4	37.61	JUN 24	37.17	AUG 24	36.61
NOV 22	37.06	JAN 27	36.68	31	36.87	31	37.39	JUL 27	36.77	SEP 20	36.37

405037072390301. Local number, S 3543.
LOCATION.--Lat 40°50'37", long 72°39'03", Hydrologic Unit 02030202, at Old Riverhead Road and main entrance to Suffolk County Airport, Westhampton. Owner: City of New York.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2 in (0.05 m), depth 58 ft (18 m), screened 56 to 58 ft (17 to 18 m).
DATUM.--Land-surface datum is 64.4 ft (19.6 m) above mean sea level. Measuring point: Top of casing, 0.04 ft (0.01 m) 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, 21.46 ft (6.54 m) above mean sea level, June 24, 1958; lowest measured, 15.03 ft (4.58 m) above mean sea level, Jan. 26, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 2	18.34	DEC 28	18.06	MAR 3	17.66	MAY 26	18.47	JUL 26	18.24	SEP 21	17.87
23	18.24	JAN 27	17.92	APR 27	18.04	JUN 24	18.44	AUG 24	18.10		

405343073055004. Local number, S 3955-4.
LOCATION.--Lat 40°53'43", long 73°05'50", Hydrologic Unit 02030201, at Pond Path and Mark Tree Roads, Setauket. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Augered water-table observation well, diameter 2 in (0.05 m), depth 82 ft (25 m), screened 80 to 82 ft (24 to 25 m).
DATUM.--Land-surface datum is 122.8 ft (37.4 m) above mean sea level. Measuring point: Top of coupling, 0.04 ft (0.01 m) below land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for September 1944 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.19 ft (18.04 m) above mean sea level, Oct. 29, 1958; lowest measured, 48.01 ft (14.63 m) above mean sea level, Mar. 31, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	57.13	JAN 27	56.21	APR 4	55.60	MAY 31	55.16	JUL 27	55.18	AUG 24	54.76
NOV 22	56.89	MAR 3	55.83	MAY 4	55.32	JUN 27	55.16	29	54.94	SEP 20	54.85
JAN 12	56.34										

405743072425701. Local number, S 4271.
LOCATION.--Lat 40°57'43", long 72°42'57", Hydrologic Unit 02030202, at Long Island Research Farm, Sound Avenue, Riverhead. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 105 ft (32 m), screened 100 to 105 ft (30 to 32 m).
DATUM.--Land-surface datum is 100.3 ft (30.6 m) above mean sea level. Measuring point: Top of coupling, 1.14 ft (0.35 m) above land-surface datum.
PERIOD OF RECORD.--August 1945 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.07 ft (3.98 m) above mean sea level, July 23, 30, 1973; lowest measured, 8.16 ft (2.49 m) above mean sea level, Sept. 5, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	11.25 G	DEC 12	11.03 G	FEB 14	10.78 G	MAY 1	10.87 G	JUN 26	10.66 G	AUG 15	10.03 G
11	11.25 G	19	10.98 G	20	10.76 G	9	10.86 G	JUL 4	10.64 G	21	10.02 G
18	11.27 G	26	10.95 G	28	10.71 G	15	10.88 G	10	10.61 G	29	10.06 G
25	11.20 G	JAN 3	10.91 G	MAR 28	10.78 G	23	10.83 G	18	10.34 G	SEP 4	10.06 G
NOV 2	11.14	9	10.89 G	APR 3	10.77 G	JUN 6	10.75 G	24	10.19 G	12	10.07 G
4	11.49	17	10.90 G	11	10.82 G	12	10.73 G	AUG 1	10.15 G	18	10.09 G
28	11.12 G	23	10.84 G	17	10.85 G	20	10.76 G	7	10.04 G	26	10.11 G
DEC 5	11.05 G	31	10.81 G	25	10.84 G						

405149072532201. Local number, S 5517.
LOCATION.--Lat 40°51'49", long 72°53'22", Hydrologic Unit 02030202, at Upton Road and Princeton Avenue, Upton. Owner: Brookhaven National Laboratory.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 91 ft (28 m), screened 85 to 91 ft (26 to 28 m).
DATUM.--Land-surface datum is 115.0 ft (35.1 m) above mean sea level. Measuring point: Top of casing, 0.04 ft (0.01 m) above land-surface datum.
PERIOD OF RECORD.--April 1948 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.14 ft (18.03 m) above mean sea level, Dec. 31, 1974; lowest measured, 33.34 ft (10.16 m) above mean sea level, Mar. 1, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 2	39.81	DEC 28	38.99	MAR 3	38.50	MAY 4	39.56	JUN 22	39.61	AUG 24	38.28
30	39.29	JAN 27	38.66	31	38.72	26	39.75	JUL 26	39.17	SEP 21	37.43

40565072541801. Local number, S 6411.
LOCATION.--Lat 40°56'50", long 72°54'18", Hydrologic Unit 02030202, at State Highway 25 and Randall Road, Shoreham. Owner: Brookhaven National Laboratory.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 149 ft (45 m), screened 143 to 149 ft (44 to 45 m).
DATUM.--Land-surface datum is 138.4 ft (42.2 m) above mean sea level. Measuring point: Top of casing, 1.73 ft (0.53 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for November 1948 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.01 ft (10.37 m) above mean sea level, Oct. 29, 1958; lowest measured, 25.15 ft (7.67 m) above mean sea level, Dec. 28, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 2	31.54	DEC 28	31.28	MAR 3	30.68	MAY 4	30.37	JUN 22	30.18	AUG 24	29.96
23	31.43	JAN 27	31.08	31	30.59	26	30.28	JUL 26	30.01	SEP 21	29.88

405223072523401. Local number, S 6434.
LOCATION.--Lat 40°52'23", long 72°52'34", Hydrologic Unit 02030202, at 10th Street and 4th Avenue, Upton.
Owner: Brookhaven National Laboratory.
AQUIFER.--Lloyd.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 10 in (0.25 m), depth 1,395 ft (425 m), screened 1,312 to 1,392 ft (400 to 424 m).
DATUM.--Land-surface datum is 85.0 ft (25.9 m) above mean sea level. Measuring point: Top of 2 in (0.05 m) nipple, 2.21 ft (0.67 m) above land-surface datum.
REMARKS.--Water-quality records for 1949 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--August 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.20 ft (10.73 m) above mean sea level, July 29, 1958; lowest measured, 28.74 ft (8.76 m) above mean sea level, Mar. 1, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 7	32.52	APR 7	32.16	JUL 1	32.31						

404936072483501. Local number, S 6439.
LOCATION.--Lat 40°49'36", long 72°48'35", Hydrologic Unit 02030202, at Jerusalem Hollow Road and Chichester Avenue, Manorville. Owner: Town of Brookhaven.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1.25 in (0.03 m), depth 42 ft (13 m), screen assumed at bottom.
DATUM.--Land-surface datum is 54.5 ft (16.6 m) above mean sea level. Measuring point: Top of casing, 0.54 ft (0.16 m) below land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for January 1949 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.21 ft (8.60 m) above mean sea level, June 28, 1973; lowest measured, 21.64 ft (6.60 m) above mean sea level, Feb. 23, 1951.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 2	24.85	DEC 28	24.33	MAR 3	23.87	MAY 26	24.23	JUL 26	24.62	AUG 24	24.54
23	24.67	JAN 27	24.09	31	23.81	JUN 24	24.36				

405223072523402. Local number, S 6455.
LOCATION.--Lat 40°52'23", long 73°52'34", Hydrologic Unit 02030202, at 10th Street and 4th Avenue, Upton.
Owner: Brookhaven National Laboratory.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (0.10 m), depth 962 ft (293 m), screened 952 to 962 ft (290 to 293 m).
DATUM.--Land-surface datum is 84.6 ft (25.8 m) above mean sea level. Measuring point: Top of casing, 0.16 ft (0.05 m) below 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, 47.15 ft (14.37 m) above mean sea level, May 31, 1949; lowest measured, 33.82 ft (10.31 m) above mean sea level, Dec. 27, 1966, Mar. 1, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 7	39.34	APR 7	38.09	JUL 1	38.21						

410100072292501. Local number, S 6542.
LOCATION.--Lat 41°01'00", long 72°29'25", Hydrologic Unit 02030202, at Depot Lane, 0.4 mi (0.6 km) north of State Highway 25, Cutchogue. Owner: Cutchogue Fire Department.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled fire-protection water-table well, diameter 6 in (0.15 m), depth 36 ft (11 m), screen assumed at bottom.
DATUM.--Land-surface datum is 24.4 ft (7.4 m) above mean sea level. Measuring point: Bottom outside edge of hose connection, 1.79 ft (0.55 m) above land-surface datum.
PERIOD OF RECORD.--July 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.27 ft (2.52 m) above mean sea level, May 29, 1958; lowest measured, 2.66 ft (0.81 m) above mean sea level, Aug. 31, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 2	5.32	JAN 3	4.83	MAR 3	5.30	MAY 4	5.97	JUN 22	5.44	AUG 24	4.45
23	5.18	27	4.89	31	5.64	26	5.76	JUL 26	4.63	SEP 21	4.25

405309072233101. Local number, S 8836.
LOCATION.--Lat 40°53'09", long 72°23'31", Hydrologic Unit 02030202, at Nugent Street and Windmill Lane, Southampton. Owner: Southampton Fire Department.
AQUIFER.--Upper Glacial
WELL CHARACTERISTICS.--Drilled fire-protection water-table well, diameter 8 in (0.20 m), depth 37 ft (11 m), screen assumed at bottom.
DATUM.--Land-surface datum is 17.4 ft (5.30 m) above mean sea level. Measuring point: Top of casing, 1.47 ft (0.45 m) above land-surface datum.
REMARKS.--Water-quality records for 1974-76 are available in files of Long Island Sub-district office; those for 1977 are published elsewhere in this report.
PERIOD OF RECORD.--July 1950 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.08 ft (2.77 m) above mean sea level, Mar. 29, 1973; lowest measured, 4.93 ft (1.50 m) above mean sea level, Aug. 30, 1968.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 2	6.79	JAN 3	6.29	MAR 3	6.55	APR 27	7.70	JUN 24	6.88	AUG 24	6.54
23	6.63	27	6.35	31	6.79	MAY 26	7.07	JUL 26	6.61	SEP 21	6.53

405840072082301. Local number, S 8839.
LOCATION.--Lat 40°58'40", long 72°08'23", Hydrologic Unit 02030202, at Windmill Lane and State Highway 27, Amagansett. Owner: D. Toler.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 37 ft (11 m), screen assumed at bottom.
DATUM.--Land-surface datum is 39.1 ft (11.9 m) above mean sea level. Measuring point: Top of casing, 0.87 ft (0.27 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for August 1950 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.88 ft (3.01 m) above mean sea level, Sept. 23, 1971; lowest measured, 6.10 ft (1.86 m) above mean sea level, Oct. 27, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 2	7.47	JAN 3	7.14	MAR 3	7.72	APR 26	8.21	JUN 22	7.97	AUG 24	7.62
23	7.30	27	7.43	31	7.82	MAY 26	8.12	JUL 26	7.74	SEP 21	7.38

405843072352902. Local number, S 16756-2.
LOCATION.--Lat 40°58'43", long 72°35'29", Hydrologic Unit 02030202, at Herricks Lane, 0.25 mi (0.4 km) south of Sound Avenue, Jamesport. Owner: Town of Riverhead.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 62 ft (19 m), screen assumed at bottom.
DATUM.--Land-surface datum is 61.0 ft (18.6 m) above mean sea level. Measuring point: Top of casing, 0.23 ft (0.07 m) below land-surface datum.
PERIOD OF RECORD.--October 1976 to current year. Unpublished records for September 1958 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.91 ft (3.02 m) above mean sea level, June 19, 1973; lowest measured, 4.21 ft (1.28 m) above mean sea level, Aug. 31, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 12	7.79	APR 7	7.31	JUN 30	7.01						

404747073241501. Local number, S 16874.
LOCATION.--Lat 40°47'47", long 73°24'15", Hydrologic Unit 02030202, at Old Country Road and New York Avenue, Huntington. Owner: Town of Huntington.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in (0.03 m), depth 82 ft (25 m), screen assumed at bottom.
DATUM.--Land-surface datum is 141.2 ft (43.0 m) above mean sea level. Measuring point: Top of casing, 0.04 ft (0.01 m) below land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for July 1958 to May 1959, August 1971 to September 1975, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 78.34 ft (23.87 m) above mean sea level, July 16, 1958; lowest measured, 66.95 ft (20.40 m) above mean sea level, Oct. 20, 1971.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	74.74	DEC 22	74.20	MAR 3	73.45	APR 28	73.64	JUN 27	72.83	AUG 23	71.75
NOV 22	74.61	JAN 28	73.90	APR 4	73.42	JUN 1	73.39	JUL 26	72.09	SEP 20	71.37

403727073154602. Local number, S 21091.
LOCATION.--Lat 40°37'27", long 73°15'46", Hydrologic Unit 02030202, at Robert Moses State Park, Fire Island. Owner: Long Island State Park Commission.
AQUIFER.--Lloyd.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 1,921 ft (586 m), screened 1,918 to 1,921 ft (585 to 586 m).
DATUM.--Land-surface datum is 10.0 ft (3.0 m) above mean sea level. Measuring point: Top of flange, 13.68 ft (4.17 m) above land-surface datum.
REMARKS.--Water-quality records for 1965 and 1972 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for June 1962 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.10 ft (6.74 m) above mean sea level, Mar. 16, 1976; lowest measured, 15.13 ft (4.61 m) above mean sea level, June 2, 1972.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	19.91	DEC 21	19.71	FEB 26	20.92	APR 27	20.30	JUN 26	20.23	AUG 25	19.25
NOV 28	20.02	JAN 22	20.11	MAR 30	20.00	MAY 26	20.00	JUL 26	19.61	SEP 26	19.79

403727073154601. Local number, S 21311.
LOCATION.--Lat 40°37'27", long 73°15'46", Hydrologic Unit 02030202, at Robert Moses State Park, Fire Island. Owner: Long Island State Park Commission.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 721 ft (220 m), screened 711 to 721 ft (217 to 220 m).
DATUM.--Land-surface datum is 10.0 ft (3.0 m) above mean sea level. Measuring point: Top of casing, 20.01 ft (6.10 m) above land-surface datum.
REMARKS.--Water-quality records for 1965 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for June 1962 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.95 ft (3.95 m) above mean sea level, Apr. 4, 1973; lowest measured, 7.62 ft (2.32 m) above mean sea level, Feb. 29, 1972.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	10.90	DEC 22	10.42	FEB 28	11.08	APR 27	11.01	JUN 26	10.72	AUG 26	10.40
NOV 28	10.91	JAN 26	10.84	MAR 30	10.70	MAY 26	10.50	JUL 25	9.90	SEP 26	11.32

404902073094001. Local number, S 22577.
LOCATION.--Lat 40°49'02", long 73°09'40", Hydrologic Unit 02030202, at Vanderbilt Parkway, near Nicoll Road, Hauppauge. Owner: U.S. Geological Survey.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (0.10 m), depth 736 ft (224 m), screened 724 to 734 ft (221 to 224 m).
DATUM.--Land-surface datum is 60.0 ft (18.3 m) above mean sea level. Measuring point: Top of coupling, 2.63 ft (0.80 m) above land-surface datum.
REMARKS.--Water-quality records for 1964 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for August 1964 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.07 ft (13.13 m) above mean sea level, July 3, 1973; lowest measured, 36.19 ft (11.03 m) above mean sea level, Mar. 2, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	40.90	DEC 22	40.49	MAR 8	40.20	APR 28	40.82	JUN 22	40.05	AUG 25	39.28
NOV 22	40.70	FEB 8	40.24	APR 4	40.55	JUN 1	40.27	JUL 27	39.43	SEP 20	39.09

404902073094002. Local number, S 22578.
LOCATION.--Lat 40°49'02", long 73°09'40", Hydrologic Unit 02030202, at Vanderbilt Parkway, near Nicoll Road, Hauppauge. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 402 ft (123 m), screened 392 to 402 ft (119 to 123 m).
DATUM.--Land-surface datum is 60.1 ft (18.3 m) above mean sea level. Measuring point: Top of 2 in (0.05 m) coupling, 2.79 ft (0.85 m) above land-surface datum.
REMARKS.--Water-quality records for 1964 and 1971 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for August 1964 to September 1975 are in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.17 ft (13.16 m) above mean sea level, July 3, 1973; lowest measured, 36.35 ft (11.08 m) above mean sea level, Mar. 1, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	41.14	DEC 22	40.66	MAR 9	40.43	APR 28	41.07	JUN 22	40.24	AUG 25	39.41
NOV 22	40.79	FEB 8	40.45	APR 4	40.81	JUN 1	40.53	JUL 27	39.54	SEP 20	39.11

SUFFOLK COUNTY--Continued

404902073094003. Local number, S 22579.
LOCATION.--Lat 40°49'02", long 73°09'40", Hydrologic Unit 02030202, at Vanderbilt Parkway, near Nicoll Road, Hauppauge. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 210 ft (64 m), screened 200 to 220 ft (61 to 64 m).
DATUM.--Land-surface datum is 60.1 ft (18.3 m) above mean sea level. Measuring point: Top of 2 in (0.05 m) coupling, 2.50 ft (0.76 m) above land-surface datum.
REMARKS.--Water-quality records for 1964 and 1971 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for August 1964 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.21 ft (13.17 m) above mean sea level, July 3, 1973; lowest measured, 36.40 ft (11.09 m) above mean sea level, Mar. 1, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	40.96	DEC 22	40.70	MAR 9	40.45	APR 28	41.10	JUN 22	40.26	AUG 25	39.41
NOV 22	40.85	FEB 8	40.48	APR 4	40.83	JUN 1	40.56	JUL 27	39.57	SEP 20	39.11

404828073114002. Local number, S 22580.
LOCATION.--Lat 40°48'28", long 73°11'40", Hydrologic Unit 02030202, at Long Island Expressway Service Road and Vanderbilt Parkway, Central Islip. Owner: U.S. Geological Survey.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 802 ft (244 m), screened 440 to 450 ft (134 to 137 m).
DATUM.--Land-surface datum is 123.0 ft (37.5 m) above mean sea level. Measuring point: Top of coupling, 4.30 ft (1.31 m) above land-surface datum.
REMARKS.--Water-quality records for 1972 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for May 1964 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.98 ft (12.49 m) above mean sea level, July 3, 1973; lowest measured, 34.01 ft (10.37 m) above mean sea level, Jan. 27, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	38.60	DEC 22	37.77	MAR 9	37.58	APR 29	37.85	JUN 22	37.26	AUG 25	37.04
NOV 22	38.27	FEB 8	37.62	APR 4	37.69	JUN 1	37.51	JUL 27	37.04	SEP 20	36.60

404828073114003. Local number, S 22581.
LOCATION.--Lat 40°48'28", long 73°11'40", Hydrologic Unit 02030202, at Long Island Expressway Service Road and Vanderbilt Parkway, Central Islip. Owner: U.S. Geological Survey.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 450 ft (137 m), screened 440 to 450 ft (134 to 137 m).
DATUM.--Land-surface datum is 123.2 ft (37.6 m) above mean sea level. Measuring point: Top of coupling, 4.08 ft (1.24 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for August 1964 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.27 ft (12.88 m) above mean sea level, July 3, 1973; lowest measured, 34.21 ft (10.43 m) above mean sea level, Jan. 27, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	39.59	DEC 22	38.88	MAR 9	38.46	APR 28	38.05	JUN 22	37.85	AUG 25	38.08
NOV 22	39.33	FEB 8	38.58	APR 4	38.84	JUN 1	38.53	JUL 27	38.03	SEP 20	37.15

SUFFOLK COUNTY--Continued

404828073114004. Local number, S 22582.
LOCATION.--Lat 40°48'28", long 73°11'40", Hydrologic Unit 02030202, at Long Island Expressway Service Road and Vanderbilt Parkway, Central Islip. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 115 ft (35 m), screened 105 to 115 ft (32 to 35 m).
DATUM.--Land-surface datum is 123.7 ft (37.7 m) above mean sea level. Measuring point: Top of casing, 3.01 ft (0.92 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for August 1964 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.21 ft (13.17 m) above mean sea level, July 3, 1973; lowest measured, 34.74 ft (10.59 m) above mean sea level, Jan. 27, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	40.25	DEC 22	39.69	MAR 9	39.02	APR 29	39.23	JUN 22	39.00	AUG 25	38.74
NOV 22	40.02	FEB 8	39.21	APR 4	39.07	JUN 1	39.12	JUL 27	38.60	SEP 20	38.42

404902073094004. Local number, S 23133.
LOCATION.--Lat 40°49'02", long 73°09'40", Hydrologic Unit 02030202, at Vanderbilt Parkway, near Nicoll Road, Hauppauge. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2 in (0.05 m), depth 29 ft (9 m), screened 26 to 29 ft (8 to 9 m).
DATUM.--Land-surface datum is 60.3 ft (18.4 m) above mean sea level. Measuring point: Top of casing, 0.59 ft (0.18 m) above land-surface datum.
REMARKS.--Water-quality records for 1964 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for August 1964 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.65 ft (13.30 m) above mean sea level, Apr. 30, 1973; lowest measured, 35.66 ft (10.87 m) above mean sea level, Nov. 30, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	41.14	DEC 22	41.11	MAR 9	40.80	APR 28	41.26	JUN 22	40.48	AUG 25	39.71
NOV 22	40.88	FEB 8	41.14	APR 4	41.01	JUN 1	40.61	JUL 27	40.00	SEP 20	39.33

404819073160301. Local number, S 24769.
LOCATION.--Lat 40°48'19", long 73°16'03", Hydrologic Unit 02030202, at Vanderbilt Parkway and Wicks Road, Brentwood. Owner: U.S. Geological Survey.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (0.10 m), depth 810 ft (247 m), screened 800 to 810 ft (244 to 247 m).
DATUM.--Land-surface datum is 139.0 ft (42.4 m) above mean sea level. Measuring point: Top of casing, 1.98 ft (0.60 m) above land-surface datum.
REMARKS.--Water-quality records for 1965 and 1972 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for August 1965 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.38 ft (16.27 m) above mean sea level, May 19, 1976; lowest measured, 45.31 ft (13.81 m) above mean sea level, Mar. 7, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	52.45	DEC 22	51.86	MAR 9	51.08	APR 28	51.13	JUN 22	50.45	AUG 25	50.08
NOV 22	52.58	FEB 8	51.33	APR 9	51.12	JUN 1	50.28	JUL 27	49.95	SEP 20	49.84

SUFFOLK COUNTY--Continued

404819073160304. Local number, S 24770.
LOCATION.--Lat 40°48'19", long 73°16'03", Hydrologic Unit 02030202, at Vanderbilt Parkway and Wicks Road, Brentwood. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 434 ft (132 m), screened 424 to 434 ft (129 to 132 m).
DATUM.--Land-surface datum is 139.0 ft (42.4 m) above mean sea level. Measuring point: Top of casing, 2.01 ft (0.61 m) above land-surface datum.
REMARKS.--Water-quality records for 1965 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for August 1965 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.93 ft (16.44 m) above mean sea level, July 3, 1973; lowest measured, 45.66 ft (13.92 m) above mean sea level, Mar. 7, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	53.05	DEC 22	52.40	MAR 9	51.59	APR 28	51.61	JUN 22	50.97	AUG 25	50.56
NOV 22	52.81	FEB 8	51.91	APR 4	51.59	JUN 1	51.84	JUL 27	50.50	SEP 20	50.37

404820073160303. Local number, S 24771.
LOCATION.--Lat 40°48'20", long 73°16'03", Hydrologic Unit 02030202, at Vanderbilt Parkway and Wicks Road, Brentwood. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 127 ft (39 m), screened 117 to 127 ft (36 to 39 m).
DATUM.--Land-surface datum is 139.0 ft (42.4 m) above mean sea level. Measuring point: Top of casing, 1.86 ft (0.57 m) above land-surface datum.
REMARKS.--Water-quality records for 1964-65 and 1972 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--August 1965 to current year. Unpublished records for August 1965 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 58.94 ft (17.96 m) above mean sea level, Oct. 2, 1973; lowest measured, 43.50 ft (13.26 m) above mean sea level, Nov. 30, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	56.16	DEC 22	55.46	MAR 3	54.57	APR 28	54.15	JUN 22	53.91	AUG 25	53.52
NOV 22	55.83	FEB 8	54.88	APR 4	54.30	JUN 1	53.92	JUL 27	53.67	SEP 20	53.33

404818073135802. Local number, 24772.
LOCATION.--Lat 40°48'18", long 73°13'58", Hydrologic Unit 02030202, at Long Island Motor Parkway and Highland Road, Brentwood. Owner: U.S. Geological Survey.
AQUIFER.--Magothy.
WELL CHARACTERISITCS.--Drilled observation artesian well, diameter 4 in (0.10 m), depth 838 ft (255 m), screened 828 to 838 ft (252 to 255 m).
DATUM.--Land-surface datum is 117.0 ft (35.7 m) above mean sea level. Measuring point: Top of casing, 3.37 ft (1.03 m) above land-surface datum.
REMARKS.--Water-quality records for 1965 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for March 1966 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.39 ft (13.83 m) above mean sea level, July 3, 1973; lowest measured, 38.80 ft (11.83 m) above mean sea level, Mar. 7, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	43.57	DEC 22	42.88	MAR 9	42.41	APR 28	43.09	JUN 22	42.10	AUG 25	41.60
NOV 22	43.47	FEB 8	42.70	APR 4	42.77	JUN 1	41.94	JUL 27	41.42	SEP 20	41.49

SUFFOLK COUNTY--Continued

404818073135904. Local number, S 24773.
LOCATION.--Lat 40°48'18", long 73°13'59", Hydrologic Unit 02030202, at Long Island Motor Parkway and Highland Road, Brentwood. Owner: U.S. Geological Survey.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 in (0.10 m), depth 423 ft (129 m), screened 412 to 423 ft (126 to 129 m).
DATUM.--Land-surface datum is 118.0 ft (36.0 m) above mean sea level. Measuring point: Top of casing, 2.35 ft (0.72 m) above land-surface datum.
REMARKS.--Water-quality records for 1965 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--March 1966 to current year. Unpublished records for March 1966 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.31 ft (14.42 m) above mean sea level, July 3, 1973; lowest measured, 40.05 ft (12.21 m) above mean sea level, Mar. 7, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	45.15	DEC 22	44.61	MAR 9	43.99	APR 28	44.25	JUN 22	43.80	AUG 25	43.23
NOV 22	44.56	FEB 8	44.34	APR 4	44.26	JUN 1	43.75	JUL 27	43.23	SEP 20	43.09

404818073135906. Local number, S 24774.
LOCATION.--Lat 40°48'18", long 73°13'59", Hydrologic Unit 02030202, at Long Island Motor Parkway and Highland Road, Brentwood. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 110 ft (34 m), screened 100 to 110 ft (30 to 36 m).
DATUM.--Land-surface datum is 118.0 ft (36.0 m) above mean sea level. Measuring point: Top of casing, 2.32 ft (0.71 m) above land-surface datum.
REMARKS.--Water-quality records for 1965 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--March 1966 to current year. Unpublished records for March 1966 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.18 ft (14.99 m) above mean sea level, July 3, 1973; lowest measured, 41.35 ft (12.60 m) above mean sea level, Mar. 7, 1966.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	46.74	DEC 22	46.18	MAR 9	45.37	APR 28	45.47	JUN 22	45.36	AUG 25	44.72
NOV 22	46.53	FEB 8	45.69	APR 4	45.37	JUN 1	45.38	JUL 27	44.93	SEP 20	44.39

404603073214803. Local number, S 27739.
LOCATION.--Lat 40°46'03", long 73°21'48", Hydrologic Unit 02030202, at Landscape Drive, near Seamans Road, Wyandanch. Owner: U.S. Geological Survey.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (0.10 m), depth 850 ft (259 m), screened 840 to 850 ft (256 to 259 m).
DATUM.--Land-surface datum is 139.0 ft (42.4 m) above mean sea level. Measuring point: Top of casing, 2.37 ft (0.72 m) above land-surface datum.
REMARKS.--Water-quality records for 1966 and 1974 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--May 1966 to current year. Unpublished records for May 1966 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.85 ft (18.55 m) above mean sea level, May 19, 1976; lowest measured, 50.85 ft (15.50 m) above mean sea level, Feb. 15, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	59.77	DEC 22	59.01	MAR 9	58.56	APR 28	59.04	JUN 24	57.74	AUG 25	57.33
NOV 22	59.48	JAN 28	58.98	APR 4	58.77	JUN 1	58.35	JUL 27	57.50	SEP 20	57.38

SUFFOLK COUNTY--Continued

404603073214804. Local number, S 27740.
LOCATION.--Lat 40°46'03", long 73°21'48", Hydrologic Unit 02030202, at Landscape Drive, near Seamans Road, Wyandanch. Owner: U.S. Geological Survey.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 429 ft (131 m), screened 419 to 429 ft (128 to 131 m).
DATUM.--Land-surface datum is 139.0 ft (42.4 m) above mean sea level. Measuring point: Top of casing, 2.85 ft (0.87 m) above land-surface datum.
REMARKS.--Water-quality records for 1966 and 1974 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for July 1966 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.00 ft (18.59 m) above mean sea level, May 19, 1976; lowest measured, 51.08 ft (15.57 m) above mean sea level, Feb. 15, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	59.87	DEC 22	59.09	MAR 9	58.76	APR 28	59.30	JUN 24	58.14	AUG 25	57.52
NOV 22	59.56	JAN 28	59.06	APR 4	58.97	JUN 1	58.66	JUL 27	57.74	SEP 20	57.55

404603073214804. Local number, S 28449.
LOCATION.--Lat 40°46'03", long 73°21'48", Hydrologic Unit 02030202, at Landscape Drive, near Seamans Road, Wyandanch. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2 in (0.05 m), depth 98 ft (30 m), screened 95 to 98 ft (29 to 30 m).
DATUM.--Land-surface datum is 140.0 ft (42.7 m) above mean sea level. Measuring point: Top of casing, 1.18 ft (0.36 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for May 1967 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.62 ft (18.78 m) above mean sea level, Mar. 22, 1976; lowest measured, 51.78 ft (15.78 m) above mean sea level, June 29, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	60.40	DEC 22	60.15	MAR 9	59.50	APR 28	59.99	JUN 22	59.33	AUG 25	58.56
NOV 22	60.40	JAN 28	59.94	APR 4	59.82	JUN 1	59.59	JUL 27	58.80	SEP 20	58.41

404703073264201. Local number, S 29776.
LOCATION.--Lat 40°47°03", long 73°26'42", Hydrologic Unit 02030202, at Round Swamp Road, near Long Island Expressway, Melville. Owner: U.S. Geological Survey.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 720 ft (219 m), screened 710 to 720 ft (216 to 219 m).
DATUM.--Land-surface datum is 193.0 ft (58.8 m) above mean sea level. Measuring point: Top of casing, 2.44 ft (0.74 m) above land-surface datum.
REMARKS.--Water-quality records for 1974 and 1976 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for May 1967 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.91 ft (24.97 m) above mean sea level, Sept. 30, 1976; lowest measured, 67.64 ft (20.62 m) above mean sea level, June 27, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	80.99	DEC 22	80.44	MAR 10	79.84	APR 28	79.49	JUN 22	78.53	AUG 25	77.81
NOV 22	80.94	JAN 28	80.89	APR 4	79.46	JUN 1	78.89	JUL 26	78.09	SEP 20	77.76

SUFFOLK COUNTY--Continued

404703073264202. Local number, S 29777.
LOCATION.--Lat 40°47'03", long 73°26'42", Hydrologic Unit 02030202, at Round Swamp Road, near Long Island Expressway, Melville. Owner: U.S. Geological Survey.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (0.10 m), depth 397 ft (121 m), screened 387 to 397 ft (118 to 121 m).
DATUM.--Land-surface datum is 193.0 ft (58.8 m) above mean sea level. Measuring point: Top of casing, 1.80 ft (0.55 m) above land-surface datum.
REMARKS.--Water-quality records for 1967, 1974, 1976 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for May 1967 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.50 ft (24.84 m) above mean sea level, May 19, 1976; lowest measured, 67.90 ft (20.70 m) above mean sea level, May 1, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	81.10	DEC 22	80.55	MAR 10	79.92	APR 28	79.60	JUN 22	78.69	AUG 25	77.83
NOV 22	81.00	JAN 28	80.25	APR 4	79.60	JUN 1	79.11	JUL 26	78.19	SEP 20	78.18

404703073264205. Local number, S 29778.
LOCATION.--Lat 40°47'03", long 73°26'42", Hydrologic Unit 02030202, at Round Swamp Road, near Long Island Expressway, Melville. Owner: U.S. Geological Survey.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (0.10 m), depth 168 ft (51 m), screened 158 to 168 ft (48 to 51 m).
DATUM.--Land-surface datum is 193.0 ft (58.8 m) above mean sea level. Measuring point: Top of casing, 2.17 ft (0.66 m) above land-surface datum.
REMARKS.--Water-quality records for 1967, 1972, 1974-76, are available in files of Long Island Sub-district office; those for 1977 are published elsewhere in this report.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for May 1967 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.14 ft (25.04 m) above mean sea level, Dec. 1, 1976; lowest measured, 68.27 ft (20.81 m) above mean sea level, June 27, 1967.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	81.61	DEC 1	82.14	MAR 10	80.54	APR 28	80.27	JUN 24	79.34	AUG 25	78.47
NOV 3	81.59	22	81.27	APR 4	80.42	JUN 1	79.84	JUL 26	78.82	SEP 20	78.33
22	81.52	JAN 28	81.16								

405455073025802. Local number, S 31734.
LOCATION.--Lat 40°54'55", long 73°02'58", Hydrologic Unit 02030202, at Jayne Boulevard, 0.7 mi (1.1 km) south of State Highway 347, Terryville. Owner: Suffolk County Water Authority.
AQUIFER.--Lloyd.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 1,095 ft (334 m), screened 1,069 to 1,090 ft (326 to 332 m).
DATUM.--Land-surface datum is 165.0 ft (50.3 m) above mean sea level. Measuring point: Top of 1.25 in (0.03 m) hole in reducer, 1.74 ft (0.53 m) above land-surface datum.
REMARKS.--Water-quality records for 1972 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for December 1970 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.13 ft (13.15 m) above mean sea level, Oct. 26, 1976; lowest measured, 37.41 ft (11.40 m) above mean sea level, Mar. 20, 1972.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	43.13	DEC 28	41.66	MAR 9	41.14	MAY 4	40.88	JUN 27	39.77	AUG 24	39.92
NOV 22	41.94	JAN 27	41.51	31	41.19	31	39.63	JUL 27	39.29	SEP 21	39.91

SUFFOLK COUNTY--Continued

405452073025702. Local number, S 32895.
LOCATION.--Lat 40°54'52", long 73°02'57", Hydrologic Unit 02030202, at Jayne Boulevard, 0.7 mi (1.1 km) south of State Highway 347, Terryville. Owner: Suffolk County Water Authority.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (0.10 m), depth 845 ft (258 m), screened 840 to 845 ft (256 to 258 m).
DATUM.--Land-surface datum is 165.0 ft (50.3 m) above mean sea level. Measuring point: Top of coupling, 1.92 ft (0.58 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for March 1970 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.62 ft (13.60 m) above mean sea level, Jan. 5, 1976; lowest measured, 38.88 ft (11.85 m) above mean sea level, July 26, 1971.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	44.36	DEC 29	44.29	MAR 9	44.10	MAY 4	43.29	JUN 27	41.43	AUG 24	41.59
NOV 22	44.30	JAN 27	43.48	31	42.90	31	41.57	JUL 27	41.43	SEP 21	41.69

404932073055901. Local number, S 33379.
LOCATION.--Lat 40°49'32", long 73°05'59", Hydrologic Unit 02030202, at Duncan Avenue and Portion Road, Lake Ronkonkoma. Owner: Suffolk County Water Authority.
AQUIFER.--Lloyd.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (0.10 m), depth 1,305 ft (398 m), screened 1,290 to 1,300 ft (393 to 396 m).
DATUM.--Land-surface datum is 134.0 ft (40.8 m) above mean sea level. Measuring point: Top of casing, 2.34 ft (0.71 m) above land-surface datum.
REMARKS.--Water-quality records for 1968 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for October 1968 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.28 ft (11.97 m) above mean sea level, Mar. 31, 1974; lowest measured, 34.13 ft (10.40 m) above mean sea level, Oct. 11, 1968.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	37.92	DEC 21	38.19	MAR 2	37.36	APR 27	37.40	JUN 28	36.86	AUG 26	36.34
NOV 29	38.09	JAN 26	37.85	30	37.46	MAY 26	37.17	JUL 27	36.36	SEP 27	36.73

404932073055902. Local number, S 33380.
LOCATION.--Lat 40°49'32", long 73°05'59", Hydrologic Unit 02030202, at Duncan Avenue and Portion Road, Lake Ronkonkoma. Owner: Suffolk County Water Authority.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (0.10 m), depth 850 ft (259 m), screened 840 to 850 ft (256 to 259 m).
DATUM.--Land-surface datum is 133.5 ft (40.7 m) above mean sea level. Measuring point: Top of casing, 2.13 ft (0.65 m) above land-surface datum.
REMARKS.--Water-quality records for 1968 and 1976 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for October 1968 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.90 ft (15.82 m) above mean sea level, July 26, 1973; lowest measured, 45.16 ft (13.76 m) above mean sea level, Dec. 5, 1969.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	49.38	DEC 21	49.08	MAR 2	48.20	APR 27	48.22	JUN 28	47.81	AUG 26	47.30
NOV 29	49.23	JAN 26	48.65	30	48.22	MAY 26	48.03	JUL 27	47.46	SEP 27	47.35

405517072574902. Local number, S 34892.
LOCATION.--Lat 40°55'17", long 72°57'49", Hydrologic Unit 02030202, at Radio Avenue, 1.3 mi (2.1 km) south of State Highway 25A, Rocky Point. Owner: Suffolk County Water Authority.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 138 ft (42 m), screened 124 to 138 ft (38 to 42 m).
DATUM.--Land-surface datum is 122.5 ft (37.3 m) above mean sea level. Measuring point: Top of casing, 0.68 ft (0.21 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for July 1970 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.25 ft (15.01 m) above mean sea level, July 9, 1973; lowest measured, 42.17 ft (12.85 m) above mean sea level, Mar. 21, 1972.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 4	47.98	DEC 28	47.40	MAR 9	46.64	MAY 4	46.59	JUN 27	46.77	AUG 25	46.28
23	47.76	JAN 27	47.06	31	46.53	31	46.78	JUL 27	46.43	SEP 21	46.06

405517072574903. Local number, S 34894.
LOCATION.--Lat 40°55'17", long 72°57'49", Hydrologic Unit 02030202, at Radio Avenue, 1.3 mi (2.1 km) south of State Highway 25A, Rocky Point. Owner: Suffolk County Water Authority.
AQUIFER.--Magothy.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 12 in (0.30 m), depth 745 ft (227 m), screened 698 to 745 ft (213 to 227 m).
DATUM.--Land-surface datum is 124.0 ft (37.8 m) above mean sea level. Measuring point: Top of 2 in (0.05 m) nipple, 3.82 ft (1.16 m) above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year. Unpublished records for March 1970 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.17 ft (14.38 m) above mean sea level, Mar. 22, 1974; lowest measured, 40.56 ft (12.36 m) above mean sea level, Mar. 15, 1972.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 4	45.76	DEC 28	45.29	MAR 9	44.53	MAY 4	44.52	JUN 27	44.47	AUG 25	44.02
23	45.54	JAN 27	44.97	31	44.59	31	44.53	JUL 27	44.04	SEP 21	43.86

404707073023302. Local number, S 36145-2.
LOCATION.--Lat 40°47'07", long 73°02'33", Hydrologic Unit 02030202, at Patchogue-Holbrook Road and Waverly Avenue, near Islip-Brookhaven Town line, Holbrook. Owner: Suffolk County Department of Environmental Control.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 43 ft (13 m), screened 30 to 43 ft (9 to 13 m).
DATUM.--Land-surface datum is 44.6 ft (13.6 m) above mean sea level. Measuring point: Top of coupling, 0.25 ft (0.08 m) below land-surface datum.
REMARKS.--Water-quality records for 1972 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1976 to current year. Unpublished records for 1970-76 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.69 ft (10.27 m) above mean sea level, June 24, 1975; lowest measured, 30.14 ft (9.19 m) above mean sea level, Dec. 20, 1971.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 23	31.06	APR 4	31.28	JUN 29	31.28	SEP 29	30.70				

SUFFOLK COUNTY--Continued

410524072194201. Local number, S 38463.
LOCATION.--Lat 41°05'24", long 72°19'42", Hydrologic Unit 02030202, at Cobbets Lane, east of Manhanset Road, Shelter Island. Owner: Mr. Hines.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled domestic water-table well, 4 in (0.10 m), depth 56 ft (17 m), screen assumed at bottom.
DATUM.--Land-surface datum is 59.9 ft (18.3 m) above mean sea level. Measuring point: Top of casing, in well pit, 5.45 ft (1.66 m) below land-surface datum.
PERIOD OF RECORD.--October 1976 to current year. Unpublished records for 1971-76 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.54 ft (1.08 m) above mean sea level, July 10, 1972; lowest measured, 1.89 ft (0.58 m) below mean sea level, June 25, 1971.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 14	1.81	APR 8	2.10	JUN 30	2.67						

405608072562401. Local number, S 40853.
LOCATION.--Lat 40°56'08", long 72°56'24", Hydrologic Unit 02030202, at Rocky Point Road, 0.7 miles (1.1 km) south of Route 25-A, Rocky Point. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 78 ft (24 m), screened 74 to 77 ft (22.6 to 23.5 m).
DATUM.--Land-surface datum is 110.0 ft (33.5 m) above mean sea level. Measuring point: Top of coupling, 10.03 ft (3.06 m) below land-surface datum.
PERIOD OF RECORD.--October 1976 to current year. Unpublished records for September 1971 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.87 ft (12.46 m) above mean sea level, Jan. 13, 1977; lowest measured, 35.11 ft (10.70 m) above mean sea level, Mar. 20, 1972.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	40.87	MAR 31	37.97	JUL 1	38.18						

405323073021201. Local number, S 41050.
LOCATION.--Lat 40°53'23", long 73°02'12", Hydrologic Unit 02030202, at Dare Road, 190 ft (58 m) south of Pine Street, North Selden. Owner: Suffolk County Water Authority.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in (0.20 m), depth 71 ft (22 m), screened 67 to 69 ft (20 to 21 m), sump bottom below screen.
DATUM.--Land-surface datum is 89.4 ft (27.3 m) above mean sea level. Measuring point: Top of 2 in (0.05 m) reducer plug, 0.78 ft (0.24 m) above land-surface datum.
PERIOD OF RECORD.--October 1976 to current year. Unpublished records for February 1972 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 70.84 ft (21.59 m) above mean sea level, Mar. 31, 1976; lowest measured, 60.29 ft (18.38 m) above mean sea level, July 11, 1972.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 23	68.58	APR 4	68.98	JUN 27	68.51						

SUFFOLK COUNTY--Continued

405222073021301. Local number, S 46531.
LOCATION.--Lat 40°52'22", long 73°02'13", Hydrologic Unit 02030202, at Tuckahoe Road, 189 ft (58 m) north of Route 27, Southampton. Owner: Town of Southampton.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 42 ft (13 m), screen assumed at bottom.
DATUM.--Land-surface datum is 36.4 ft (11.1 m) above mean sea level. Measuring point: Top of coupling, 0.13 ft (0.04 m) below land-surface datum.
PERIOD OF RECORD.--October 1976 to current year. Unpublished records for November 1972 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.01 ft (1.83 m) above mean sea level, May 8, 1973; lowest measured, 3.88 ft (1.18 m) above mean sea level, Dec. 27, 1974.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	4.58	JAN 27	4.47	APR 6	4.64	JUL 5	4.47				

405231072341901. Local number, S 46534.
LOCATION.--Lat 40°52'31", long 72°34'19", Hydrologic Unit 02030202, at Route 27, 2.5 miles (4.0 km) east of Route 113, and 2.25 miles (3.62 km) west of Hampton Bays, South Flanders. Owner: New York State Department of Transportation.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 84 ft (26 m), screened 81 to 84 ft (25 to 26 m).
DATUM.--Land-surface datum is 82.0 ft (25.0 m) above mean sea level. Measuring point: Top of casing, 1.70 ft (0.52 m) above land-surface datum.
PERIOD OF RECORD.--October 1976 to current year. Unpublished records for January 1973 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.12 ft (4.30 m) above mean sea level, July 11, 1973; lowest measured, 10.84 ft (3.30 m) above mean sea level, Dec. 27, 1974.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 26	11.74	APR 5	11.65	JUN 29	12.13						

405130072353101. Local number, S 46537.
LOCATION.--Lat 40°51'30", long 72°35'31", Hydrologic Unit 02030202, at Spinney Road, 0.6 mi (1.0 km) south of Hampton Bays Road, East Quogue. Owner: Town of Southampton.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 50 ft (15 m), screen assumed at bottom.
DATUM.--Land-surface datum is 56.20 ft (17.1 m) above mean sea level. Measuring point: Top of coupling, 0.21 ft (0.06 m) below land-surface datum.
PERIOD OF RECORD.--October 1976 to current year. Unpublished records for December 1972 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.15 ft (4.62 m) above mean sea level, Aug. 11, 1973; lowest measured, 11.79 ft (3.59 m) above mean sea level, Dec. 27, 1974.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 26	12.22	APR 4	12.29	JUN 28	12.69						

SUFFOLK COUNTY--Continued

405353072403801. Local number, S 46541.
LOCATION.--Lat 40°53'53", long 72°40'38", Hydrologic Unit 02030202, at intersection County Road 51 and County Road 63, Wildwood Lake. Owner: Suffolk County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 34 ft (10 m), screen assumed at bottom.
DATUM.--Land-surface datum is 27.0 ft (8.2 m) above mean sea level. Measuring point: Top of coupling, 0.26 ft (0.08 m) above land-surface datum.
PERIOD OF RECORD.--October 1976 to current year. Unpublished records for December 1972 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.11 ft (5.52 m) above mean sea level, Apr. 4, 1973; lowest measured, 16.02 ft (4.88 m) above mean sea level, Nov. 28, 1977.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 26	16.76	APR 5	17.42	JUN 29	17.05						

405302072415101. Local number, S 46542.
LOCATION.--Lat 40°53'02", long 72°41'51", Hydrologic Unit 02030202, at Speonk Road and County Road 51, Riverhead. Owner: Suffolk County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 149 ft (45 m), screen assumed at bottom.
DATUM.--Land-surface datum is 163.0 ft (49.7 m) above mean sea level. Measuring point: Top of coupling, 0.15 ft (0.05 m) above land-surface datum.
PERIOD OF RECORD.--October 1976 to current year. Unpublished records for December 1972 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.03 ft (8.85 m) above mean sea level, Oct. 30, 1973; lowest measured, 26.05 ft (7.94 m) above mean sea level, March 24, 1975.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 26	27.28	APR 5	26.26	JUN 29	26.39						

405140072432501. Local number, S 46544.
LOCATION.--Lat 40°51'40", long 72°43'25", Hydrologic Unit 02030202, at County Road 51 and Service Road for Recharge Basin 34, Calverton. Owner: Suffolk County Department of Public Works.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 107 ft (33 m), screen assumed at bottom.
DATUM.--Land-surface datum is 103.0 ft (31.4 m) above mean sea level. Measuring point: Top of coupling, 0.29 ft (0.09 m) below land-surface datum.
PERIOD OF RECORD.--October 1976 to current year. Unpublished records for December 1972 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.93 ft (9.12 m) above mean sea level, Nov. 28, 1973; lowest measured, 26.91 ft (8.20 m) above mean sea level, Aug. 17, 1974.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 26	28.61	APR 4	27.79	JUN 29	27.55						

SUFFOLK COUNTY--Continued

405330072443701. Local number, S 46545.
LOCATION.--Lat 40°53'30", long 72°44'37", Hydrologic Unit 02030202, at Toppings Path, 0.9 mi (1.4 km) south of Nugget Drive, Calverton. Owner: Town of Brookhaven.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 73 ft (22 m), screen 70 to 73 ft (21 to 22 m).
DATUM.--Land-surface datum is 107.0 ft (32.6 m) above mean sea level. Measuring point: Top of casing, 2.14 ft (0.65 m) above land-surface datum.
PERIOD OF RECORD.--October 1976 to current year. Unpublished records for December 1972 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.81 ft (12.74 m) above mean sea level, July 2, 1977; lowest measured, 37.22 ft (11.34 m) above mean sea level, Oct. 7, 1977.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 26	40.14	APR 5	38.74	JUN 30	38.60						

405716072591601. Local number, S 46548.
LOCATION.--Lat 40°57'16", long 72°59'16", Hydrologic Unit 02030201, at Woodhull Landing Road and Old Rocky Point Road, Miller Place. Owner: Town of Brookhaven.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.05 m), depth 84 ft (26 m), screen assumed at bottom.
DATUM.--Land-surface datum is 71.0 ft (21.6 m) above mean sea level. Measuring point: Top of coupling, 0.27 ft (0.08 m) below land-surface datum.
PERIOD OF RECORD.--October 1976 to current year. Unpublished records for December 1972 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.16 ft (3.40 m) above mean sea level, Oct. 31, 1973; lowest measured, 9.06 ft (2.76 m) above mean sea level, April 4, 1977.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 14	9.80	MAR 31	9.47	JUL 1	9.33	SEP 30	9.20				

405621073022001. Local number, S 46549.
LOCATION.--Lat 40°56'21", long 73°02'20", Hydrologic Unit 02030201, at Crystal Brook Hollow Road, 0.2 mi (0.3 km) north of North Country Road, Port Jefferson. Owner: Town of Brookhaven.
AQUIFER.--Upper Glacial.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (0.61 m), depth 101 ft (31 m), screened 97 to 101 ft (30 to 31 m).
DATUM.--Land-surface datum is 97.0 ft (29.6 m) above mean sea level. Measuring point: Top of coupling, 0.39 ft (0.12 m) below land-surface datum.
PERIOD OF RECORD.--October 1976 to current year. Unpublished records for December 1972 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.06 ft (8.25 m) above mean sea level, July 19, 1974; lowest measured, 23.81 ft (7.26 m) above mean sea level, Dec. 20, 1972.

WATER LEVEL, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 14	26.73	MAR 31	25.70	JUN 28	24.52	SEP 30	24.61				

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

NASSAU COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	CODE FOR AGENCY ANALYZING SAMPLE	TOTAL DEPTH OF WELL (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)
404059073254101	N 1253	112GLCLU	76-12-02	9819	29	--	--	--	--
		112GLCLU	76-12-02	1028	29	460	6.8	13.0	100
		112GLCLU	77-03-10	9819	29	--	--	--	--
		112GLCLU	77-03-10	1028	29	420	6.7	11.5	100
		112GLCLU	77-06-02	9819	29	--	--	--	--
		112GLCLU	77-06-02	1028	29	360	6.3	11.0	94
		112GLCLU	77-09-08	9819	29	--	--	--	--
		112GLCLU	77-09-08	1028	29	400	6.5	13.5	88
404015073252701	N 1254	112GLCLU	76-12-02	9819	29	--	--	--	--
		112GLCLU	76-12-02	1028	29	405	6.5	14.0	86
		112GLCLU	77-03-10	9819	29	--	--	--	--
		112GLCLU	77-03-10	1028	29	345	6.4	9.0	83
		112GLCLU	77-06-02	9819	29	--	--	--	--
		112GLCLU	77-06-02	1028	29	345	7.0	12.0	82
		112GLCLU	77-09-08	9819	29	--	--	--	--
		112GLCLU	77-09-08	1028	29	410	6.8	12.0	74

DATE OF SAMPLE	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
76-12-02	--	--	--	--	--	--	--	--	--	--	--	--
76-12-02	11	31	6.5	20	5.6	113	93	38	46	.0	14	223
77-03-10	--	--	--	--	--	--	--	--	--	--	--	--
77-03-10	4	30	6.7	23	5.3	120	98	54	63	.1	13	259
77-06-02	--	--	--	--	--	--	--	--	--	--	--	--
77-06-02	12	28	5.9	22	4.7	100	82	41	35	.0	13	204
77-09-08	--	--	--	--	--	85	70	--	--	--	--	--
77-09-08	18	26	5.6	26	4.5	85	70	35	53	.0	ND	195
76-12-02	--	--	--	--	--	--	--	--	--	--	--	--
76-12-02	67	26	5.2	24	5.9	24	20	58	44	.0	11	206
77-03-10	--	--	--	--	--	--	--	--	--	--	--	--
77-03-10	65	25	4.9	24	5.1	21	17	53	43	.0	11	203
77-06-02	--	--	--	--	--	--	--	--	--	--	--	--
77-06-02	55	25	4.7	23	5.4	33	27	49	34	.0	9.4	191
77-09-08	--	--	--	--	--	--	--	--	--	--	--	--
77-09-08	49	23	4.0	39	5.6	30	25	51	56	.0	9.0	230

DATE OF SAMPLE	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
76-12-02	--	2.3	--	.08	5.5	6.7	.04	--	--	--	--	.08
76-12-02	--	1.4	--	.01	--	--	--	--	270	70	12000	--
77-03-10	--	1.2	--	<.01	1.1	4.9	.05	--	--	--	--	.15
77-03-10	--	1.1	--	.01	--	--	--	--	280	120	11000	--
77-06-02	--	.65	--	.04	.65	3.3	6.5	--	--	--	--	.13
77-06-02	--	1.2	--	.00	--	--	--	--	330	90	12000	--
77-09-08	--	.69	--	.01	6.2	11	.00	--	--	--	--	.00
77-09-08	1.4	1.6	.00	.00	4.9	4.7	.01	.00	150	120	11000	--
76-12-02	--	8.4	--	.01	2.3	3.6	.04	--	--	--	--	.13
76-12-02	--	4.4	--	.01	--	--	--	--	1200	320	1800	--
77-03-10	--	10	--	<.01	1.8	2.8	.06	--	--	--	--	.20
77-03-10	--	5.8	--	.01	--	--	--	--	2000	560	1600	--
77-06-02	--	1.7	--	.02	1.2	3.0	1.2	--	--	--	--	.22
77-06-02	--	5.3	--	.01	--	--	--	--	1800	600	3000	--
77-09-08	--	.68	--	.01	2.8	24	.02	--	--	--	--	.00
77-09-08	--	6.3	--	.00	--	--	--	--	1200	740	2600	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

NASSAU COUNTY--Continued

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	DATE OF SAMPLE	CODE FOR AGENCY ANA-LYZING SAMPLE	TOTAL DEPTH OF WELL (FT)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (CA,MG) (MG/L)
403920073410701	N 1429	112GLCLU	76-12-20	9819	24	--	--	--	--
		112GLCLU	76-12-20	1028	24	250	6.0	17.0	74
		112GLCLU	77-03-21	9819	24	--	--	--	--
		112GLCLU	77-03-21	1028	24	230	5.9	15.0	70
		112GLCLU	77-06-17	9819	24	--	--	--	--
		112GLCLU	77-06-17	1028	24	185	5.8	15.0	60
		112GLCLU	77-09-09	9819	24	--	--	--	--
		112GLCLU	77-09-09	1028	24	180	6.2	18.0	56
404544073265603	N 7397	112GLCLU	76-12-02	9819	102	--	--	--	--
		112GLCLU	76-12-02	1028	102	100	5.5	11.0	22
		112GLCLU	77-03-10	9819	102	--	--	--	--
		112GLCLU	77-03-10	1028	102	98	5.7	10.5	20
		112GLCLU	77-06-02	9819	102	--	--	--	--
		112GLCLU	77-06-02	1028	102	84	5.2	12.0	20
		112GLCLU	77-09-08	9819	102	--	--	--	--
		112GLCLU	77-09-08	1028	102	78	5.6	12.5	19
405121073415901	N 8246	112JMCO	77-08-17	1028	350	215	7.2	13.5	--

DATE OF SAMPLE	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
76-12-20	--	--	--	--	--	--	--	--	--	--	--	--
76-12-20	37	23	4.0	8.1	7.8	45	37	55	9.2	.1	11	142
77-03-21	--	--	--	--	--	--	--	--	--	--	--	--
77-03-21	37	22	3.6	10	6.5	40	33	57	8.9	.0	9.0	138
77-06-17	--	--	--	--	--	--	--	--	--	--	--	--
77-06-17	31	19	3.1	10	6.0	36	30	46	7.2	.0	10	124
77-09-09	--	--	--	--	--	--	--	--	--	--	--	--
77-09-09	36	18	2.7	8.7	3.9	25	21	47	3.9	.0	10	109
76-12-02	--	--	--	--	--	--	--	--	--	--	--	--
76-12-02	14	3.8	3.0	6.8	1.2	10	8	.7	13	.0	5.8	51
77-03-10	--	--	--	--	--	--	--	--	--	--	--	--
77-03-10	8	3.5	2.8	6.4	1.2	15	12	1.2	13	.0	5.7	52
77-06-02	--	--	--	--	--	--	--	--	--	--	--	--
77-06-02	15	3.5	2.7	6.4	1.3	6	5	.1	12	.0	5.6	48
77-09-08	--	--	--	--	--	--	--	--	--	--	--	--
77-09-08	16	3.3	2.7	6.3	1.3	4	3	.4	12	.1	5.4	53
77-08-17	--	--	--	--	--	--	--	--	8.7	--	--	--

DATE OF SAMPLE	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
76-12-20	--	<.10	--	<.01	.00	1.9	.16	--	--	--	--	.04
76-12-20	--	.02	--	.00	--	--	--	--	4300	1600	580	--
77-03-21	--	<.10	--	<.01	.00	1.9	.10	--	--	--	--	.09
77-03-21	--	.21	--	.01	--	--	--	--	630	630	720	--
77-06-17	--	.55	--	.04	.01	2.3	.01	--	--	--	--	.00
77-06-17	--	.67	--	.00	--	--	--	--	2600	2400	690	--
77-09-09	--	.10	--	.00	<.10	8.2	.70	--	--	--	--	.00
77-09-09	--	.40	--	.00	--	--	--	--	250	270	450	--
76-12-02	--	5.9	--	.02	.00	.84	.04	--	--	--	--	.03
76-12-02	--	2.5	--	.01	--	--	--	--	830	660	40	--
77-03-10	--	9.3	--	.01	.00	.84	.05	--	--	--	--	.05
77-03-10	--	2.3	--	.01	--	--	--	--	1700	540	50	--
77-06-02	--	1.1	--	.03	.01	.00	.01	--	--	--	--	.00
77-06-02	--	2.9	--	.00	--	--	--	--	1100	680	50	--
77-09-08	--	.39	--	.01	<.10	2.7	.80	--	--	--	--	.00
77-09-08	--	4.2	--	.01	--	--	--	--	740	670	60	--
77-08-17	.52	--	.00	--	.00	.32	.06	.01	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

NASSAU COUNTY--Continued

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	CODE FOR AGENCY ANALYZING SAMPLE	TOTAL DEPTH OF WELL (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)
404730073423101	N 8877	112GLCLU	76-12-20	9819	76	--	--	--	--
		112GLCLU	76-12-20	1028	76	175	6.6	11.5	48
		112GLCLU	77-03-21	9819	76	--	--	--	--
		112GLCLU	77-03-21	1028	76	150	6.5	10.5	47
		112GLCLU	77-06-17	9819	76	--	--	--	--
		112GLCLU	77-06-17	1028	76	120	6.6	14.0	50
		112GLCLU	77-09-09	9819	76	--	--	--	--
		112GLCLU	77-09-09	1028	76	140	6.8	14.0	46
404702073305601	N 8888	112GLCLU	76-12-08	9819	112	--	--	--	--
		112GLCLU	76-12-08	1028	112	355	5.7	11.0	80
		112GLCLU	77-03-15	9819	112	--	--	--	--
		112GLCLU	77-03-15	1028	112	350	5.7	12.5	77
		112GLCLU	77-06-23	9819	112	--	--	--	--
		112GLCLU	77-06-23	1028	112	185	5.4	14.0	71
		112GLCLU	77-09-07	9819	112	--	--	--	--
		112GLCLU	77-09-07	1028	112	305	5.8	13.0	74
405153073420601	N 8994	112JMCO	77-09-15	1028	308	250	9.6	14.0	--
405128073420101	N 8996	112GLCLU	77-08-17	1028	387	225	7.2	35.0	--
404407073331502	N 9183	--	77-07-14	1028	--	250	7.3	14.5	59
404901073443002	N 9208	112GRDR	77-09-15	1028	96	240	7.4	15.5	--

DATE OF SAMPLE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
76-12-20	--	--	--	--	--	--	--	--	--	--	--	--
76-12-20	13	9.2	6.0	5.3	1.6	42	34	19	8.7	.1	20	97
77-03-21	--	--	--	--	--	--	--	--	--	--	--	--
77-03-21	14	9.3	5.8	5.7	1.7	40	33	16	6.5	.1	17	88
77-06-17	--	--	--	--	--	--	--	--	--	--	--	--
77-06-17	19	10	6.1	5.7	1.7	38	31	18	6.9	.1	20	94
77-09-09	--	--	--	--	--	--	--	--	--	--	--	--
77-09-09	16	9.0	5.8	5.8	M1.0	37	30	18	6.4	.0	19	90
76-12-08	--	--	--	--	--	--	--	--	--	--	--	--
76-12-08	67	24	4.8	24	6.3	16	13	44	35	.0	15	195
77-03-15	--	--	--	--	--	--	--	--	--	--	--	--
77-03-15	63	23	4.8	26	6.0	17	14	40	34	.0	13	204
77-06-23	--	--	--	--	--	--	--	--	--	--	--	--
77-06-23	60	21	4.6	26	6.0	14	11	45	29	.0	16	204
77-09-07	--	--	--	--	--	--	--	--	--	--	--	--
77-09-07	66	22	4.6	25	6.2	10	8	47	27	.0	15	152
77-09-15	--	--	--	--	--	--	--	--	12	--	--	--
77-08-17	--	--	--	--	--	--	--	--	16	--	--	--
77-07-14	38	18	3.4	22	6.1	25	21	28	23	.0	10	161
77-09-15	--	--	--	--	--	--	--	--	8.9	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

NASSAU COUNTY--Continued

DATE OF SAMPLE	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
76-12-20	--	.10	--	.01	.63	2.5	.10	--	--	--	--	.02
76-12-20	--	.14	--	.01	--	--	--	--	6100	5800	120	--
77-03-21	--	.10	--	.01	.00	1.1	.01	--	--	--	--	.01
77-03-21	--	.01	--	.01	--	--	--	--	6700	5600	120	--
77-06-17	--	.47	--	.02	.01	1.4	.01	--	--	--	--	.00
77-06-17	--	.01	--	.00	--	--	--	--	6700	6900	100	--
77-09-09	--	.00	--	.00	.00	1.3	.00	--	--	--	--	.00
77-09-09	--	.01	--	.00	--	--	--	--	6000	6300	110	--
76-12-08	--	13	--	.03	.56	1.4	.08	--	--	--	--	.13
76-12-08	--	7.6	--	.02	--	--	--	--	1000	260	490	--
77-03-15	--	8.3	--	.03	.00	1.1	.06	--	--	--	--	.12
77-03-15	--	11	--	.01	--	--	--	--	2700	330	430	--
77-06-23	--	1.9	--	.01	.02	2.8	.08	--	--	--	--	.00
77-06-23	--	11	--	.01	--	--	--	--	1700	390	320	--
77-09-07	--	.00	--	.00	.80	1.3	.08	--	--	--	--	.00
77-09-07	11	11	.00	.00	.00	.00	.01	.00	2200	330	290	--
77-09-15	.00	--	.00	--	.00	.02	.01	.00	--	--	--	--
77-08-17	.01	--	.00	--	.02	.16	.08	.02	--	--	--	--
77-07-14	8.4	8.5	.01	.01	.00	.00	.03	.01	4700	70	30	--
77-09-15	.01	--	.00	--	.58	.73	.16	.00	--	--	--	--

Code for agency analyzing sample:
1028 - Sample collected by U.S. Geological Survey personnel and analyzed by U.S. Geological Survey laboratory in Atlanta, Georgia.
9819 - Sample collected by U.S. Geological Survey personnel and analyzed by Nassau County Department of Public Works.

WATER QUALITY DATA, WATER YEAR 1976 TO SEPTEMBER 1977

SUFFOLK COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TOTAL DEPTH OF WELL (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
405938072195801	S 8288	112GLCLU	76-10-06	59	118	6.2	11.0	19	5
405507072244401	S 8831	112GLCLU	76-10-05	23	175	6.5	14.0	10	0
405756072173501	S 8833	112GLCLU	76-10-06	12	48	5.8	17.0	5	0
405309072233101	S 8836	112GLCLU	76-10-04	35	155	6.1	15.0	36	18
405756072104901	S 8837	112GLCLU	76-10-04	33	450	6.3	12.0	62	9
		112GLCLU	77-04-26	33	345	6.2	10.0	55	3
405628072164701	S 8838	112GLCLU	76-10-06	46	187	5.7	11.0	43	29
405948072172101	S 8844	112GLCLU	76-10-06	86	73	6.5	11.0	14	0
410034072094701	S 15048	112GLCLU	76-10-04	45	370	5.8	12.0	23	10
		112GLCLU	77-04-25	45	75	5.3	9.5	12	1
405438072181601	S 15332	112GLCLU	76-10-07	45	460	6.0	15.0	150	130
410033072075501	S 16121	112GLCLU	76-10-04	45	147	6.6	11.0	23	9
405315072263201	S 22499	112GLCLU	76-10-04	49	250	6.2	16.5	91	54
		112GLCLU	77-04-27	49	315	5.8	11.5	94	60
404703073264205	S 29778	211MGTY	77-01-06	168	235	6.1	11.0	73	53
		211MGTY	77-03-09	168	240	6.3	12.0	81	41
		211MGTY	77-06-07	168	195	6.0	--	81	--
		211MGTY	77-09-19	168	175	5.8	--	64	--

DATE OF SAMPLE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)
76-10-06	3.8	2.4	10	1.0	18	15	3.7	17	.0	12	66	1.5
76-10-05	1.1	1.8	12	1.1	17	14	.6	21	.0	8.8	77	.01
76-10-06	.9	.7	5.0	.6	15	12	2.7	6.9	.0	1.1	26	.01
76-10-04	11	2.0	9.2	2.0	22	18	11	18	.0	8.0	78	1.5
76-10-04	20	3.0	52	6.6	65	53	23	82	.0	6.9	234	1.6
77-04-26	17	3.0	39	5.5	63	52	28	53	.1	6.1	189	1.5
76-10-06	13	2.6	6.6	7.0	17	14	23	12	.0	9.1	105	5.6
76-10-06	3.0	1.5	6.4	.6	20	16	1.9	8.8	.1	18	51	.00
76-10-04	4.2	3.0	50	1.6	16	13	16	64	.0	11	170	5.7
77-04-25	1.8	1.8	8.7	.6	13	11	8.5	16	.0	7.9	54	.60
76-10-07	47	7.4	12	4.5	17	14	95	28	.0	7.8	232	6.2
76-10-04	4.0	3.2	13	2.0	17	14	11	21	.0	11	76	.65
76-10-04	24	7.6	19	.7	45	37	8.2	39	.0	6.6	169	9.3
77-04-27	25	7.7	22	.8	42	34	5.6	46	.0	6.5	174	9.6
77-01-06	12	10	6.1	1.9	12	13	3.5	13	<.1	--	116	16
77-03-09	14	10	5.8	2.0	24	40	2.4	11	<.1	--	126	17
77-06-07	11	8.9	5.5	1.9	--	16	2.1	12	<.0	--	--	--
77-09-19	10	8.0	5.6	2.1	--	15	2.4	10	<.1	--	--	12

DATE OF SAMPLE	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
76-10-06	1.5	.01	.00	.02	.00	.01	.01	940	100	10	.00
76-10-05	.03	.02	.01	1.1	1.3	.10	.01	23000	22000	110	.00
76-10-06	.01	.01	.00	.24	.45	.03	.01	800	790	20	.00
76-10-04	1.2	.01	.00	.03	.05	.01	.01	240	170	10	.00
76-10-04	1.9	.01	.01	2.7	2.5	.03	.01	950	260	240	.20
77-04-26	1.3	.01	.01	3.2	3.7	.04	.01	270	70	240	.10
76-10-06	5.2	.01	.00	.03	.00	.01	.01	1300	130	10	.10
76-10-06	.12	.02	.01	.04	.03	.02	.01	1100	70	0	.00
76-10-04	2.8	.01	.00	.01	.00	.01	.01	370	190	20	.10
77-04-25	.56	.01	.00	.02	.50	.02	.01	290	80	20	.00
76-10-07	4.9	.01	.00	.01	.00	.01	.01	350	130	20	.10
76-10-04	.41	.01	.01	.03	.00	.02	.01	230	150	10	.00
76-10-04	9.3	.01	.01	.03	.00	.02	.04	540	130	10	.10
77-04-27	9.1	.02	.01	.01	.10	.01	.01	280	60	10	.10
77-01-06	17	<.01	<.01	<.01	<.01	--	--	240	20	50	--
77-03-09	17	<.01	<.01	.06	.35	--	--	180	550	50	.18
77-06-07	13	--	<.01	<.01	<.01	--	--	170	50	50	<.02
77-09-19	12	<.01	<.01	<.01	<.10	--	--	90	<10	50	.08

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

SUFFOLK COUNTY--Continued

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TOTAL DEPTH OF WELL (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
405421072271202	S 34644	112GLCLU	76-10-04	65	102	6.5	16.5	28	11
405221072255401	S 36401	112GLCLU	76-10-06	56	80	5.7	13.0	10	0
405906072153501	S 46524	112GLCLU	76-10-07	17	184	5.5	16.0	10	0
		112GLCLU	77-04-25	17	550	5.2	7.0	18	17
404920072484602	S 46913	112GLCLU	76-10-13	19	68	6.4	16.0	10	0
		112GLCLU	76-12-09	19	210	6.1	9.5	23	0
		112GLCLU	77-03-08	19	215	7.0	3.5	6	0
		112GLCLU	77-06-06	19	85	6.0	--	35	0
		112GLCLU	77-09-19	19	142	5.9	--	28	--
404917072484501	S 46914	112GLCLU	76-10-13	33	118	6.0	16.5	2	0
		112GLCLU	76-12-09	33	280	5.7	13.0	20	0
		112GLCLU	77-03-08	33	96	6.3	6.5	7	0
		112GLCLU	77-06-06	33	204	6.0	--	8	0
		112GLCLU	77-09-19	33	255	5.7	--	24	--
405240072491402	S 47226	112GLCLU	76-10-13	27	130	6.7	11.0	29	0
		112GLCLU	76-12-10	27	123	6.2	12.0	29	0
		112GLCLU	77-03-07	27	126	6.6	12.0	48	0
		112GLCLU	77-06-07	27	103	6.6	--	36	0
		112GLCLU	77-09-16	27	81	6.0	--	40	0

DATE OF SAMPLE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)
76-10-04	5.1	3.6	8.0	.7	20	16	10	13	.0	19	70	.30
76-10-06	1.2	1.8	8.7	.4	16	13	3.3	14	.0	8.7	46	.07
76-10-07	2.2	1.1	28	.2	17	14	5.5	47	.0	4.6	97	.05
77-04-25	4.1	2.0	94	.3	2	2	8.1	160	.0	3.0	274	.43
76-10-13	3.0	.7	7.0	1.2	19	16	2.7	6.6	.0	2.4	36	--
76-12-09	6.2	1.7	30	1.5	31	12	8.1	39	<.1	--	122	1.0
77-03-08	1.7	.4	36	1.5	30	22	7.9	41	<.1	--	118	.17
77-06-06	6.4	1.8	16	2.3	23	19	4.3	24	<.1	--	--	.88
77-09-19	5.9	1.5	16	2.0	--	17	7.1	25	<.1	--	--	1.1
76-10-13	.4	.3	19	1.0	19	16	9.5	13	.0	3.2	61	--
76-12-09	5.7	1.4	43	1.9	18	12	6.4	64	<.1	--	153	.99
77-03-08	2.0	.5	14	.7	13	8	5.0	16	<.1	--	54	.65
77-06-06	1.9	.5	35	1.2	12	10	13	46	<.1	--	--	.27
77-09-19	5.4	1.3	43	2.2	--	16	7.8	63	<.1	--	--	1.1
76-10-13	8.9	1.6	4.0	.5	40	33	1.0	7.6	.0	12	66	--
76-12-10	9.7	1.2	4.3	.4	40	53	1.4	5.5	<.1	--	87	<.01
77-03-07	11	2.0	4.2	.5	42	52	.6	6.0	<.1	--	70	<.01
77-06-07	9.3	1.7	3.7	.5	36	30	3.0	6.0	<.1	--	--	.02
77-09-16	9.7	1.8	4.1	.5	63	33	1.2	5.0	<.1	--	--	.06

DATE OF SAMPLE	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
76-10-04	.14	.00	.00	.01	.08	.02	.01	530	410	40	.00
76-10-06	.02	.00	.00	.01	.00	.01	.01	790	190	10	.00
76-10-07	.06	.02	.00	.03	.03	.01	.01	80	60	50	.00
77-04-25	.28	.00	.00	.03	.40	.02	.01	250	80	60	.00
76-10-13	.54	--	.04	--	--	--	--	110	60	10	--
76-12-09	1.0	<.01	<.01	<.01	<.01	--	--	350	320	20	<.02
77-03-08	.16	<.01	<.01	<.01	<.01	--	--	570	140	20	.14
77-06-06	--	--	<.01	<.01	<.01	--	--	220	190	30	<.02
77-09-19	1.2	<.01	<.01	<.01	<.10	--	--	310	220	30	.05
76-10-13	1.2	--	.01	--	--	--	--	190	90	10	--
76-12-09	1.0	<.01	<.01	<.01	<.01	--	--	220	180	20	<.02
77-03-08	.70	<.01	<.01	<.01	<.01	--	--	180	110	10	<.02
77-06-06	--	--	<.01	<.01	<.01	--	--	100	160	20	<.02
77-09-19	1.1	<.01	<.01	<.01	<.10	--	--	220	210	20	<.02
76-10-13	.01	--	.00	--	--	--	--	11000	11000	220	--
76-12-10	<.01	<.01	<.01	.20	2.9	--	--	10600	10600	230	<.02
77-03-07	<.01	<.01	<.01	.23	.23	--	--	11440	11420	240	<.02
77-06-07	--	--	<.01	.22	.22	--	.32	10500	10650	230	<.02
77-09-16	<.01	<.01	<.01	.14	.21	--	--	10900	11100	230	.03

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

SUFFOLK COUNTY--Continued

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TOTAL DEPTH OF WELL (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA+MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
405240072491401	S 47227	112GLCLU	76-10-13	100	98	7.0	12.5	32	0
		112GLCLU	76-12-10	100	102	7.0	10.5	39	0
		112GLCLU	77-03-07	100	102	7.6	10.5	52	0
		112GLCLU	77-06-07	100	95	7.4	--	46	0
		112GLCLU	77-09-16	100	94	7.2	--	38	29
410037072145101	S 47235	112GLCLU	76-10-07	22	135	6.8	17.0	20	0
		112GLCLU	77-04-25	22	145	6.3	9.0	24	2
410156072133601	S 47236	112GLCLU	77-04-27	57	106	6.0	10.5	17	9
405606072202701	S 48425	112GLCLU	76-10-06	44	540	5.9	10.0	200	180
		112GLCLU	77-04-26	44	400	5.6	10.0	170	150
405740072190001	S 48426	112GLCLU	76-10-04	121	335	6.1	11.0	120	100
		112GLCLU	77-04-26	121	280	6.4	10.5	94	76
405618072180501	S 48427	112GLCLU	76-10-05	52	310	5.6	12.0	69	50
		112GLCLU	77-04-27	52	300	6.1	12.0	71	60
405704072165901	S 48428	112GLCLU	76-10-05	71	61	5.7	11.0	10	0
		112GLCLU	77-04-26	71	60	6.0	11.0	10	0

DATE OF SAMPLE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)
76-10-13	9.4	2.0	3.5	.3	43	35	3.9	4.7	.1	15	61	--
76-12-10	11	2.4	3.9	.2	52	41	3.4	2.5	<.1	--	74	<.01
77-03-07	13	2.8	3.8	.3	51	41	3.2	3.0	<.1	--	64	<.01
77-06-07	11	2.4	3.3	.3	47	39	3.7	3.5	<.1	--	--	<.01
77-09-16	11	2.4	3.8	.3	5	44	3.0	3.5	<.1	--	--	.02
76-10-07	2.5	3.3	14	1.8	35	29	3.3	21	.0	15	82	.00
77-04-25	2.9	4.0	14	1.6	27	22	4.6	23	.1	13	81	.04
77-04-27	2.6	2.6	11	.7	10	8	8.3	16	.0	13	60	.13
76-10-06	64	9.4	8.2	3.1	19	16	140	26	.0	8.8	275	11
77-04-26	55	7.8	7.1	2.7	18	15	94	22	.0	6.3	238	10
76-10-04	33	9.0	13	1.1	23	19	75	24	.0	17	195	2.7
77-04-26	26	7.0	11	1.1	22	18	51	19	.0	16	156	4.6
76-10-05	21	4.0	23	7.2	23	19	44	37	.0	11	167	6.4
77-04-27	21	4.4	15	10	13	11	39	21	.0	11	168	8.3
76-10-05	1.2	1.6	6.1	.5	15	12	4.8	9.9	.0	8.0	40	.01
77-04-26	1.2	1.8	5.8	.6	15	12	1.4	9.6	.0	7.0	35	.07

DATE OF SAMPLE	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
76-10-13	.00	--	.01	--	--	--	--	610	460	220	--
76-12-10	<.01	<.01	<.01	.08	2.5	--	--	710	640	210	<.02
77-03-07	<.01	<.01	<.01	.09	.14	--	--	660	610	220	<.02
77-06-07	--	--	<.01	<.01	<.01	--	.69	650	560	230	<.02
77-09-16	<.01	<.01	<.01	.10	.10	--	--	600	560	240	<.02
76-10-07	.00	.05	.00	.29	.23	.03	.02	3700	3800	210	.00
77-04-25	.04	.00	.00	.25	.80	.03	.01	4400	4300	230	.00
77-04-27	.18	.00	.00	.00	.14	.00	.00	100	130	10	--
76-10-06	1.4	.02	.00	.04	.18	.01	.01	590	300	10	.10
77-04-26	7.8	.01	.01	.03	.20	.01	.01	150	90	10	.10
76-10-04	2.5	.01	.03	.02	.00	.01	.01	160	150	10	.10
77-04-26	3.1	.00	.00	.01	.70	.02	.01	1800	560	40	.00
76-10-05	1.9	.01	.00	.03	.00	.02	.01	290	220	40	.10
77-04-27	8.5	.01	.01	.06	.01	.00	.00	2200	2800	240	--
76-10-05	.03	.01	.00	.02	.03	.01	.01	390	60	10	.00
77-04-26	.06	.00	.00	.01	.60	.01	.01	1600	190	30	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

SUFFOLK COUNTY--Continued

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TOTAL DEPTH OF WELL (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA+MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
405807072121001	S 48429	112GLCLU	76-10-06	66	375	5.8	11.5	150	120
		112GLCLU	77-04-27	66	385	6.2	11.5	160	140
405501072215501	S 48430	112GLCLU	76-10-04	39	68	6.0	10.0	8	0
		112GLCLU	77-04-27	39	58	5.4	11.0	12	12
405606072235701	S 48432	112GLCLU	76-10-04	63	77	6.0	11.0	12	2
		112GLCLU	77-04-25	63	82	6.2	12.0	15	3
405644072220101	S 48433	112GLCLU	77-04-25	135	90	6.6	10.5	10	0
405831072171201	S 48437	112GLCLU	76-10-05	69	61	6.1	11.0	11	0
		112GLCLU	77-04-26	69	66	6.3	10.5	11	0
405844072191601	S 48438	112GLCLU	77-04-25	78	127	6.4	10.0	27	13
405325072262702	S 48439	112GLCLU	76-10-04	51	155	6.0	13.0	29	15
		112GLCLU	77-04-25	51	210	6.5	12.5	41	25
405325072262701	S 48440	112GLCLU	76-10-04	102	80	6.5	12.5	18	2
		112GLCLU	77-04-25	102	85	7.2	12.0	18	2
405349072234801	S 48441	112GLCLU	76-10-04	61	300	5.9	612	100	88
		112GLCLU	77-04-25	61	285	6.3	12.0	91	78
405838072154001	S 48517	112GLCLU	76-10-06	71	63	6.1	11.0	10	0
		112GLCLU	77-04-26	71	67	6.4	11.0	13	2

DATE OF SAMPLE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)
76-10-06	49	6.6	8.2	.7	31	25	100	19	.0	8.1	215	3.7
77-04-27	51	8.4	8.5	1.0	32	26	100	18	.0	7.9	223	2.9
76-10-04	.7	1.5	5.9	.8	14	11	5.8	9.8	.0	7.4	39	.00
77-04-27	1.5	2.0	5.7	.9	0	0	8.5	9.9	.0	6.8	36	.07
76-10-04	2.0	1.6	7.4	.6	12	10	5.2	13	.0	8.9	45	.00
77-04-25	2.7	2.0	7.7	.8	15	12	5.0	13	.0	7.7	47	.03
77-04-25	2.1	1.1	5.4	3.3	14	11	5.1	9.4	.2	7.5	46	.04
76-10-05	2.0	1.4	5.9	.4	16	13	5.0	8.7	.0	12	43	.00
77-04-26	2.3	1.3	6.5	.5	18	13	4.3	8.6	.1	11	43	.03
77-04-25	6.0	2.9	10	1.0	17	14	7.4	18	.1	9.4	65	.86
76-10-04	7.8	2.3	14	1.0	17	14	6.0	29	.0	7.7	79	1.3
77-04-25	10	3.8	18	1.2	19	16	5.8	40	.0	6.9	100	1.2
76-10-04	3.8	2.0	6.8	.5	19	16	3.9	10	.1	15	53	.32
77-04-25	3.6	2.2	7.3	.6	19	16	1.7	10	.1	13	50	.47
76-10-04	27	8.1	10	.9	16	13	77	19	.0	10	164	1.5
77-04-25	24	7.5	11	.8	16	13	65	18	.0	8.8	157	3.8
76-10-06	2.2	1.2	6.2	.5	18	15	3.9	9.5	.0	12	44	.02
77-04-26	3.0	1.4	6.4	.6	14	11	4.7	8.0	.0	12	44	.01

DATE OF SAMPLE	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
76-10-06	1.7	.00	.00	.02	.08	.01	.01	290	160	10	.10
77-04-27	2.7	.00	.00	.01	.10	.00	.00	3400	750	60	--
76-10-04	.01	.04	.00	.06	.00	.01	.01	400	60	10	.00
77-04-27	.07	.00	.00	.02	.20	.01	.01	160	50	10	.00
76-10-04	.01	.01	.00	.02	.03	.01	.01	5200	80	60	.00
77-04-25	.05	.00	.00	.01	.60	.02	.01	1600	280	10	.00
77-04-25	.04	.01	.01	.64	1.2	.25	.01	6200	4400	230	.00
76-10-05	.01	.01	.00	.02	.00	.01	.01	200	40	10	.00
77-04-26	.03	.01	.00	.01	.80	.02	.01	1500	180	10	.00
77-04-25	.43	.01	.00	.05	.30	.03	.01	2400	390	60	.00
76-10-04	.67	.01	.00	.01	.00	.01	.01	160	110	10	.00
77-04-25	.93	.00	.01	.01	.50	.04	.01	1600	270	30	.00
76-10-04	.35	.02	.00	.04	.03	.02	.01	190	60	10	.00
77-04-25	.41	.01	.00	.01	.40	.03	.01	1800	100	30	.00
76-10-04	.87	.01	.00	.03	.00	.01	.01	180	110	10	.00
77-04-25	3.2	.02	.00	.04	.50	.02	.01	4000	330	30	.00
76-10-06	.02	.01	.00	.02	.10	.02	.01	600	10	10	.00
77-04-26	.13	.00	.00	.00	.01	.00	.00	2500	190	30	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

SUFFOLK COUNTY--Continued

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TOTAL DEPTH OF WELL (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
405650072145201	S 48518	112GLCLU	76-10-06	71	71	5.6	11.0	11	0
		112GLCLU	77-04-26	71	175	5.7	11.5	18	8
410243071560101	S 48519	112GLCLU	76-10-07	82	220	6.3	12.0	43	9
		112GLCLU	77-04-28	82	240	6.6	11.5	39	10
405818072132101	S 48520	112GLCLU	76-10-06	59	170	5.5	11.0	35	21
		112GLCLU	77-04-27	59	165	5.9	11.5	32	22
405940072164701	S 48521	112GLCLU	76-10-05	75	174	6.0	11.0	10	0
		112GLCLU	77-05-11	75	70	5.8	10.0	18	9
405858072062401	S 48522	112GLCLU	77-04-28	92	148	6.5	11.5	22	11
410149071583201	S 48577	112GLCLU	76-10-07	186	121	6.5	11.0	22	8
		112GLCLU	77-04-28	186	128	6.9	11.0	32	16
405928072110401	S 48578	112GLCLU	76-10-04	32	220	6.1	13.0	19	4
		112GLCLU	77-04-25	32	135	5.8	10.5	16	3
410316071535501	S 48579	112GLCLU	76-10-07	66	230	5.7	12.0	34	11
		112GLCLU	77-04-28	66	240	5.9	12.0	37	15
410024072103201	S 48580	112GLCLU	76-10-04	46	97	6.0	10.0	15	1
		112GLCLU	77-04-25	46	94	5.5	10.0	17	7

DATE OF SAMPLE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)
76-10-06	2.0	1.5	6.0	1.0	14	11	5.6	11	.0	7.8	43	.23
77-04-26	3.7	2.2	21	1.5	13	11	3.7	39	.0	7.1	86	.34
76-10-07	8.3	5.5	21	2.0	42	34	10	31	.1	24	126	2.7
77-04-28	8.1	4.5	24	5.1	35	29	11	32	.0	16	128	2.2
76-10-06	7.3	4.0	11	4.7	17	14	8.2	20	.0	13	106	6.7
77-04-27	6.4	4.0	12	4.4	13	11	10	20	.0	7.1	83	4.3
76-10-05	2.0	1.3	6.7	.5	16	13	5.6	9.0	.0	13	47	.22
77-05-11	2.7	2.8	6.7	.6	11	9	5.8	8.6	.0	13	46	.29
77-04-28	3.7	3.0	16	1.2	13	11	6.5	27	.0	9.7	74	.12
76-10-07	4.0	2.8	12	1.1	17	14	5.0	20	.0	16	72	.61
77-04-28	4.9	4.8	12	1.4	20	16	6.3	18	.0	15	75	.63
76-10-04	4.8	1.8	28	1.5	19	16	5.8	42	.0	12	112	1.9
77-04-25	3.5	1.8	18	1.1	16	13	6.7	26	.1	10	80	1.2
76-10-07	6.0	4.7	26	2.5	28	23	14	40	.1	13	121	.60
77-04-28	6.7	4.8	26	2.7	26	21	16	39	.0	13	126	.57
76-10-04	1.7	2.6	8.9	.7	17	14	6.2	14	.0	11	56	.58
77-04-25	2.0	3.0	9.4	.8	13	11	6.8	15	.1	9.8	62	2.1

DATE OF SAMPLE	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
76-10-06	.21	.00	.00	.01	.05	.01	.01	200	70	10	.00
77-04-26	.25	.00	.00	.01	.30	.02	.01	840	260	20	.00
76-10-07	.71	.01	.01	.01	.00	.02	.01	200	100	20	.00
77-04-28	2.2	.01	.01	.07	.19	.00	.00	860	300	530	--
76-10-06	6.7	.00	.00	.01	.00	.02	.03	440	190	50	.10
77-04-27	2.8	.00	.00	.00	.00	.00	.00	12000	630	150	--
76-10-05	.21	.01	.00	.03	.00	.02	.01	270	70	10	.00
77-05-11	.13	.00	.00	.01	.00	.00	.00	1000	100	10	--
77-04-28	.16	.00	.00	.01	.08	.00	.00	1500	180	20	--
76-10-07	.62	.02	.00	.04	.03	.02	.01	360	80	70	.00
77-04-28	.63	.00	.00	.01	.00	.01	.00	2000	160	60	--
76-10-04	1.3	.02	.01	.02	.00	.01	.01	610	530	60	.00
77-04-25	.99	.01	.01	.04	.00	.02	.01	600	570	30	.00
76-10-07	.21	.01	.00	.04	.08	.02	.01	810	410	40	.00
77-04-28	.61	.00	.00	.01	.07	.00	.00	3500	1900	70	--
76-10-04	.49	.01	.00	.02	.00	.03	.01	1100	330	20	.00
77-04-25	2.0	.01	.01	.05	.10	.02	.01	240	110	10	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

SUFFOLK COUNTY--Continued

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TOTAL DEPTH OF WELL (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
405121072490601	S 48946	112GLCLU	76-10-13	41	240	6.1	12.0	62	48
		112GLCLU	76-12-10	41	230	6.0	12.0	70	38
		112GLCLU	77-03-09	41	235	6.0	12.0	78	52
		112GLCLU	77-06-06	41	190	5.8	--	78	56
		112GLCLU	77-09-19	41	205	5.7	--	71	--
405846072093001	S 49898	112GLCLU	76-10-06	64	70	5.8	12.5	11	0
		112GLCLU	77-04-27	64	295	6.4	11.0	33	14
410147072184101	S 51184	112GLCLU	77-05-11	32	925	5.6	10.0	62	49
410132072184601	S 51185	112GLCLU	77-05-11	33	97	5.2	9.5	18	10
410047072184701	S 51186	112GLCLU	77-05-11	39	190	5.4	9.5	43	32
405500072495201	S 51583	112GLCLU	76-10-13	49	65	6.2	10.0	11	0
		112GLCLU	76-12-10	49	57	5.4	10.5	32	16
		112GLCLU	77-03-07	49	190	5.7	10.5	26	12
		112GLCLU	77-06-06	49	58	5.5	--	22	4
		112GLCLU	77-09-16	49	46	5.8	--	11	--
405349072494101	S 51592	112GLCLU	76-10-13	39	80	5.7	11.0	10	0
		112GLCLU	76-12-10	39	83	5.3	11.5	14	0
		112GLCLU	77-03-07	39	112	5.6	12.0	27	13
		112GLCLU	77-06-07	39	109	5.4	--	22	10
		112GLCLU	77-09-16	39	81	5.4	--	14	--

DATE OF SAMPLE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)
76-10-13	17	4.8	7.9	4.1	17	14	44	16	.0	8.4	126	--
76-12-10	18	5.5	8.2	4.6	19	17	48	13	<.1	--	143	3.3
77-03-09	22	5.1	8.3	3.7	15	26	49	13	<.1	--	126	3.7
77-06-06	22	4.6	7.4	3.5	13	11	48	13	<.1	--	--	3.9
77-09-19	21	4.8	7.4	3.7	--	11	47	13	<.1	--	--	3.8
76-10-06	1.8	1.6	6.5	.9	18	15	4.2	9.3	.0	7.7	42	.23
77-04-27	7.3	3.5	37	1.6	23	19	7.8	59	.0	4.2	137	.94
77-05-11	6.7	11	150	3.8	16	13	63	210	.0	10	465	.82
77-05-11	2.2	3.0	9.6	.6	10	8	8.7	14	.0	9.8	54	.29
77-05-11	9.6	4.7	14	.7	14	11	18	22	.1	10	98	4.0
76-10-13	1.3	2.0	5.7	.7	16	13	6.5	7.0	.0	6.5	38	--
76-12-10	1.4	1.6	5.6	.5	9	4	9.4	5.5	<.1	--	48	.14
77-03-07	4.6	3.4	21	1.2	8	7	8.6	40	<.1	--	95	1.0
77-06-06	1.5	1.5	6.6	.7	10	9	8.8	7.5	<.1	--	--	.22
77-09-16	1.4	1.2	4.2	.6	--	8	8.6	3.0	<.1	--	--	.29
76-10-13	2.0	1.2	6.9	.9	14	11	8.0	11	.0	7.2	46	--
76-12-10	3.2	1.4	7.8	1.0	8	2	8.9	12	<.1	--	59	.61
77-03-07	4.2	1.9	12	1.1	8	3	8.0	19	<.1	--	67	.68
77-06-07	3.3	1.4	12	1.1	7	6	9.2	19	<.1	--	--	.67
77-09-16	2.6	1.0	9.4	1.1	--	8	11	11	<.1	--	--	.59

DATE OF SAMPLE	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
76-10-13	3.1	--	.01	--	--	--	--	1900	1800	2100	--
76-12-10	3.3	<.01	<.01	.19	.19	--	--	2420	3400	980	<.02
77-03-09	3.8	<.01	<.01	.12	.12	--	--	4120	850	360	<.02
77-06-06	--	--	<.01	.04	.04	--	--	510	200	160	<.02
77-09-19	3.8	<.01	<.01	<.01	<.10	--	--	1250	180	160	.04
76-10-06	.23	.00	.00	.05	.03	.01	.01	690	400	90	.00
77-04-27	.97	.00	.01	.09	.22	.02	.00	1500	1100	140	--
77-05-11	.46	.00	.00	.01	.13	.00	.00	900	800	130	--
77-05-11	.22	.00	.00	.01	.03	.00	.00	460	320	30	--
77-05-11	2.7	.00	.00	.01	.00	.00	.00	100	50	10	--
76-10-13	.12	--	.01	--	--	--	--	1800	210	40	--
76-12-10	.16	<.01	<.01	<.01	.36	--	--	70	70	20	<.02
77-03-07	.75	<.01	<.01	<.01	<.01	--	--	140	180	30	<.02
77-06-06	--	--	<.01	<.01	<.01	--	--	100	80	30	<.02
77-09-16	.29	<.01	<.01	<.01	<.10	--	--	150	60	40	<.02
76-10-13	.50	--	.01	--	--	--	--	160	60	10	--
76-12-10	.61	.01	<.01	<.01	<.01	--	--	50	60	30	<.02
77-03-07	.67	<.01	<.01	<.01	<.01	--	--	30	60	20	<.02
77-06-07	--	--	<.01	<.01	<.01	--	--	100	70	30	<.02
77-09-16	.61	<.01	<.01	<.01	<.10	--	--	70	60	30	<.02

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

SUFFOLK COUNTY--Continued

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TOTAL DEPTH OF WELL (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
405912072200701	S 52657	112GLCLU	76-10-06	--	113	6.0	11.0	23	3
405411072261901	S 52658	112GLCLU	76-10-04	50	90	6.5	17.5	23	6
405434072200401	S 52666	112GLCLU	76-10-06	--	185	5.9	13.0	52	38
405554072200101	S 52669	112GLCLU	76-10-06	45	420	5.5	10.0	110	100
405503072165001	S 52679	112GLCLU	76-10-07	43	290	6.2	11.0	77	60
405600072150001	S 52683	112GLCLU	76-10-07	43	370	5.9	14.0	110	95
		112GLCLU	77-04-26	43	265	5.7	9.0	88	77
405632072115601	S 52686	112GLCLU	76-10-07	45	250	5.8	11.5	61	45

DATE OF SAMPLE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)
76-10-06	3.9	3.2	9.0	.7	24	20	3.2	13	.0	13	60	.81
76-10-04	4.0	3.1	7.1	.5	20	16	5.5	11	.0	11	56	.80
76-10-06	16	3.0	7.5	2.4	18	15	35	11	.0	5.1	94	2.7
76-10-06	33	6.8	11	16	12	10	86	27	.1	8.8	212	8.3
76-10-07	24	4.2	12	5.4	21	17	41	24	.0	6.8	143	4.5
76-10-07	33	6.7	8.8	9.8	18	15	59	24	.0	8.2	207	11
77-04-26	27	5.1	8.4	9.8	14	11	47	19	.0	3.7	162	8.0
76-10-07	16	5.0	13	2.3	19	16	27	27	.0	8.1	119	3.7

DATE OF SAMPLE	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
76-10-06	.44	.01	.00	.02	.08	.01	.01	1400	220	20	.00
76-10-04	.79	.00	.00	.02	.08	.01	.01	580	300	20	.10
76-10-06	1.1	.01	.01	.01	.10	.01	.02	4100	550	20	.00
76-10-06	3.9	.01	.01	.51	.62	.03	.01	320	310	620	.10
76-10-07	3.5	.01	.00	.17	.00	.01	.01	470	170	10	.10
76-10-07	11	.00	.00	.01	.35	.01	.01	1200	140	20	.10
77-04-26	7.9	.01	.01	.04	.20	.01	.01	2600	140	350	.00
76-10-07	2.5	.00	.00	.01	.00	.01	.01	550	60	20	.10

Geological unit (aquifer):
112GLCLU - Upper glacial aquifer, Pleistocene age.
112GRDR - Gardiners clay, Pleistocene age.
112JMCO - Jameco aquifer, Pleistocene age
211MGTY - Magothy aquifer, Upper Cretaceous age.

All samples in Suffolk County collected by Suffolk County Department of Environmental Control personnel and analyzed by Suffolk County Water Authority.

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☆U.S. GOVERNMENT PRINTING OFFICE: 1978-717-217/40(2-11)

October 13, 1977

FACTORS FOR CONVERTING U.S. CUSTOMARY UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the U.S. customary units published herein to the International System of Units (SI). Subsequent reports will contain both the U.S. customary and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply U.S. customary units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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Geological Survey
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Syosset NY 11791

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