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Water Resources Data New Jersey Water Year 2001

Volume 3. Water-Quality Data

Water-Data Report NJ-01-3

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

Prepared in cooperation with the
New Jersey Department of Environmental
Protection and with other agencies

CALENDAR FOR WATER YEAR 2001

2000

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2001

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United States Department of the Interior

U.S. GEOLOGICAL SURVEY
Water Resources Division
Mountain View Office Park
810 Bear Tavern Road, Suite 206
West Trenton, New Jersey 08628

I am pleased to announce the release of our Annual report "Water Resources Data for New Jersey, Water Year 2001". This report was prepared by the U.S. Geological Survey, in cooperation with the State of New Jersey as well as many local and federal governmental agencies.

This report is again being published in three volumes:

Volume 1.--Surface-water streamflow data.

Volume 2.--Ground-water level data.

Volume 3.--Water-quality data.

This volume contains surface and ground water-quality data from the cooperative U.S. Geological Survey / New Jersey Department of Environmental Protection Ambient Stream Monitoring Network (ASMN) and the Ambient Ground Water Quality Network (AGWQN), and the Long Island-New Jersey Coastal Plain and the Delaware River Basin National Water Quality Assessments (NAWQA).

The Ambient Stream Monitoring Network Reconnaissance Study consisted of 3-6 day surveys of temperature, dissolved oxygen, percent of dissolved oxygen saturation, pH, and specific conductance from 24 stations in the ASMN. Continuous 1-2 month surveys of temperature were conducted at 17 sites in the Delaware River Basin NAWQA study unit.

Water year 2001 is the third year in the first 5-year cycle of the AGWQN. Thirty wells were sampled in the Raritan, Upper Delaware, and Atlantic Coastal Regions.

The New Jersey District of the U.S. Geological Survey has made a home page available on the world wide web. Real-time data for more than 30 stream-gaging stations around the State, peak-flow files for many gaging stations, ground-water level data, water-quality data, monthly hydrologic conditions and links to other sites of interest may be accessed. This information is available at:

http://nj.usgs.gov

Copies of this report in paper or microfiche are for sale through the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161. Data can also be provided by file transfer (ftp), or on floppy disk. When ordering, refer to U.S. Geological Survey Water-Data Report NJ-01-1 (for Volume 1), NJ-01-2 (for Volume 2), or NJ-01-3 (for Volume 3). For further information on this report, or to change or remove your address from our mailing list, please contact me at the above address, telephone (609) 771-3980, or send e-mail to wbauers@usgs.gov.

Sincerely,

William R. Bauersfeld, Chief
Hydrologic Data Assessment Program

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

Water Resources Data New Jersey Water Year 2001

Volume 3. Water-Quality Data

By M.J. DeLuca, H.L. Hoppe, H.A. Doyle, B.J. Gray.

Water-Data Report NJ-01-3

Prepared in cooperation with the New Jersey Department of Environmental Protection and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

GALE A. NORTON, *Secretary*

GEOLOGICAL SURVEY

Charles G. Groat, *Director*

For information on the water program in New Jersey write to

District Chief, Water Resources Division
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West Trenton, New Jersey 08628-1099

2002

PREFACE

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

Hydrologic data for New Jersey are contained in 3 volumes:

Volume 1. Surface-Water Data
Volume 2. Ground-Water Data
Volume 3. Water-Quality Data

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data and who typed, edited, and assembled the report. The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to U.S. Geological Survey policy and established guidelines. The following individuals contributed significantly to the completion of the report.

Jacob Gibs Robert D. Schopp

Word processing of the report was done by H.L. Hoppe and H.A. Doyle. W.H. Ellis, G.L. Simpson, and D.K. Sun drafted the illustrations.

The data were collected, computed, and processed by the following personnel:

M.A. Ayers	G.L.Centinaro	K.L Hibbs	P.J. Lacombe	A.R. Protz	A.B. Spehar
M.D. Bilger	V. Corcino, Jr.	R.E. Hickman	E.L. Melvin	E.A. Pustay	P.E.Stackelberg
R.A. Brightbill	J.F. Dudek	G.K. Holzer	K.R. Murray	T.J. Reed	G.C. Steckroat
J.D. Byrnes	S.M. Edwards	J.V. Irwin	T.D. Oden	R.G. Reiser	
G.A. Brown	J.M. Fischer	W.D. Jones	K. Orlick	K. Romanok	

Some data were collected by the following N.J. Department of Environmental Protection personnel:

A.A. Altieri	R.F. Fenton	C. Kunz	J.R. Specht
P. Burt	J.Janda	R. Maruska	

This report was prepared in cooperation with the State of New Jersey and with other agencies under the general supervision of William R. Bauersfeld, Chief of the Hydrologic Data Assessment Program; under the general supervision of David A. Stedfast, Associate District Chief; Eric Evenson, District Chief, New Jersey; and Catherine L. Hill, Regional Hydrologist, Northeastern Region.

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13. ABSTRACT *(Maximum 200 words)*

Water-resources data for the 2001 water year for New Jersey are presented in three volumes, and consists of records of stage, discharge, and quality of streams; stage and contents of lakes and reservoirs; and levels and quality of ground water. Volume 3 contains a summary of surface- and ground-water hydrologic conditions for the 2001 water year, a listing of current water-resources projects in New Jersey, a bibiliography of water-related reports, articles, and facts sheets for New Jersey completed by the Geological Survey in recent years, water-quality records of chemical analyses from 128 continuing-record surface-water stations, 29 miscellaneous surface-water sites, 53 ground-water sites, and records of daily statistics of temperature and other physical measurements from 44 continuous-recording stations. Locations of water-quality stations are shown in figures 22-24. Locations of miscellaneous water-quality sites are shown in figures 59-64. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating federal, state, and local agencies in New Jersey.

14. SUBJECT TERMS
New Jersey, hydrologic conditions, hydrologic data, surface-water analysis, ground-water analysis, streambed-material analysis, suspended-sediment concentration, continuing-record station, continuous-recording station, miscellaneous sampling site.

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ILLUSTRATIONS--Continued

TABLES

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

Note.--Data for miscellaneous sites for surface-water quality are published in separate sections of the data report. See references at the end of this list for page numbers for these sections.

[Letter after station name designates type of data: (c) general chemical, (m) microbiological, (s) suspended sediment, (t) continuous physical measurements, (w) whole-water-recoverable metals, (v) volatile organic compounds, (p) pesticide, (b) biota, (h) bed material, (WMA #) NJDEP watershed management area.]

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

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

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

DISCONTINUED CONTINUOUS WATER-QUALITY STATIONS

The following stations have been discontinued as continuous water-quality stations. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the period of record shown for each station.

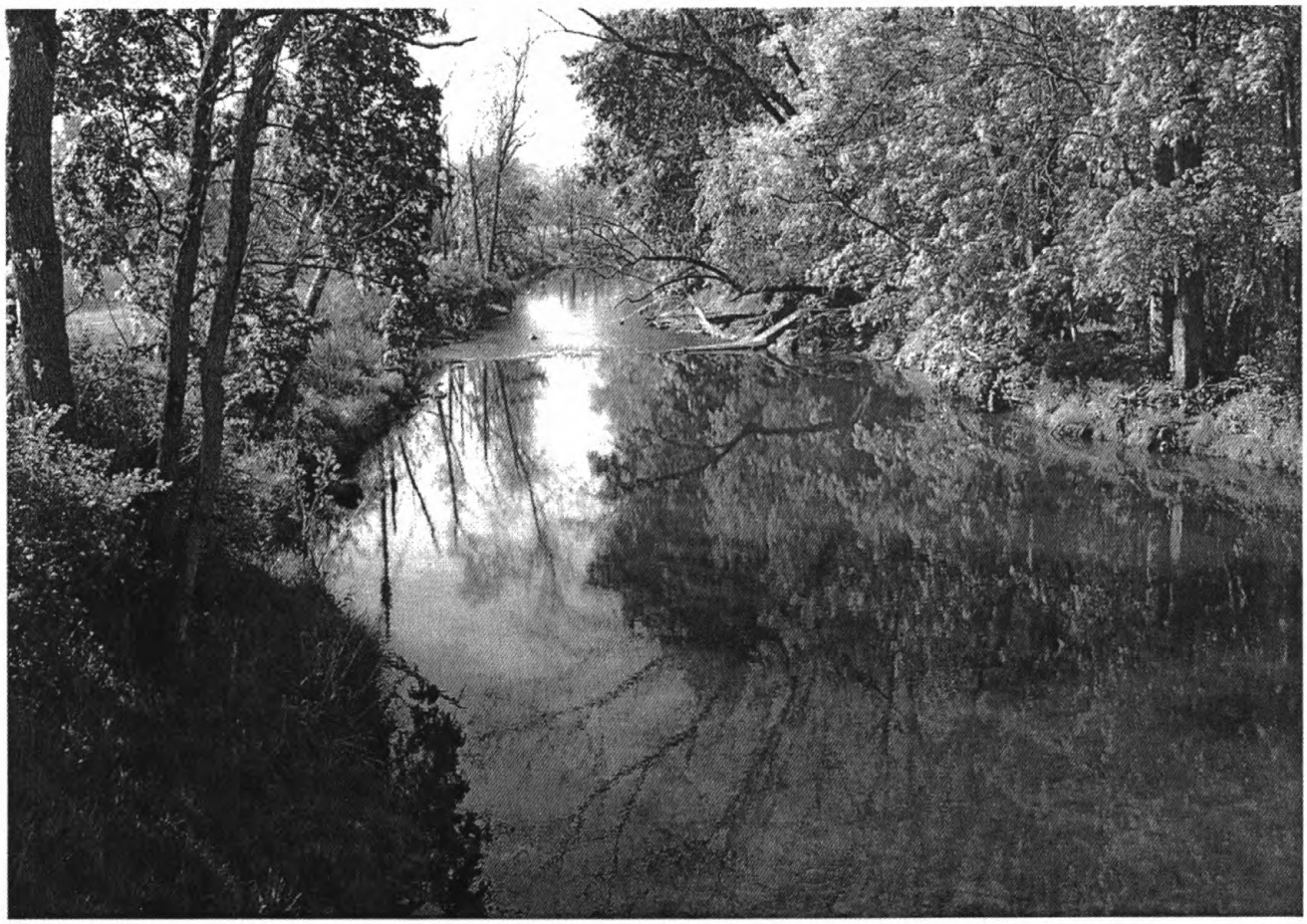
Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
Passaic River at Millington, NJ	01379000		Temp.	1997-98
Passaic River near Chatham, NJ	01379500	100	Sed.	1964-68
			Temp.	1967-68
Rockaway River at Longwood Valley, NJ	01379680		Temp.	1997-98
Green Pond Brook at Picatinny Arsenal, NJ	01379773	7.65	Temp., S.C., pH, D.O.	1984-86
Green Pond Brook at Wharton, NJ	01379790*	12.6	Temp., S.C., pH, D.O.	1984-85
Passaic River at Two Bridges, NJ	01382000	361	Temp.,	1963-74
			S.C., pH, D.O.	1969-74
Wanaque River at Wanaque, NJ	01387000	90.4	Temp.	1964-80
Ramapo River near Mahwah, NJ	01387500	118	Sed.	1964-65
Pompton River near Two Bridges, NJ	01389000	372	Temp., S.C., pH, D.O.	1969-74
Passaic River at Little Falls, NJ	01389500	762	Sed.	1964-65
			Temp., S.C.	1981-86
Saddle River at Ridgewood, NJ	01390500		Temp.	1997-98
Rahway River at Washington Park at Springfield, NJ	01394200		Temp.	1997-98
South Branch Raritan River near High Bridge, NJ	01396500	65.3	Temp.	1961-79
			S.C.	1969-79
Mulhockaway Creek at Van Syckel, NJ	01396660		Temp.	1997-98
Spruce Run at Clinton, NJ	01396800	41.3	Temp.	1969, 1971-80
South Branch Raritan River at Stanton, NJ	01397000	147	Temp., S.C.	1969-79
			Sed.	1960-63
Neshanic River at Reaville, NJ	01398000		Temp.	1997-98
South Branch Rockaway Creek at Whitehouse, NJ	01399690	13.2	Temp., S.C.	1977-78
			Sed.	1977
Rockaway Creek at Whitehouse, NJ	01399700	37.1	Temp., S.C.	1977-78
Raritan River near Manville, NJ	01400510	497	Temp., S.C., pH, D.O.	1968-74
Baldwins Creek at Baldwin Lake, near Pennington, NJ	01400932	2.52	Temp.	1963-66
			Sed.	1963-69
Stony Brook at Princeton, NJ	01401000	44.5	Temp.	1957-70, 1997-98
			Sed.	1960-70
Beden Brook near Rocky Hill, NJ	01401600		Temp.	1997-98
Millstone River near Manville, NJ	01402900	287	Temp., S.C., pH, D.O.	1968-74
Raritan River at Queens Bridge	01403300		Temp.	1997-98
Bound Brook at Middlesex, NJ	01403900		Temp., S.C.	1996-98
Raritan River near South Bound Brook, NJ	01404100	862	Temp., S.C., pH, D.O.	1969-77
Manasquan River at Squankum, NJ	01408000	44	Temp., S.C., pH, D.O.	1969-74
Toms River near Toms River, NJ	01408500	123	Temp.,	1964-66, 1975-81
			S.C.	1975-81
Oyster Creek near Brookville, NJ	01409095	7.43	Temp., D.O.	1975-76
			S.C., pH	1975-77
West Branch Wading River near Jenkins, NJ	01409810	84.1	Temp., S.C.	1978-81
Great Egg Harbor River at Sicklerville, NJ	01410784		Temp., S.C.	1996-98
Great Egg Harbor River trib. at Sicklerville, NJ	01410787	1.64	Sed.	1974-78
Fourmile Branch at New Brooklyn, NJ	01410810	7.74	Sed.	1974-78
Great Egg Harbor River at Folsom, NJ	01411000	57.1	Temp.	1961-75, 1977-80
			S.C.	1969-75, 1977-80
			Sed.	1966-70, 1979
Delaware Bay at Ship John Shoal Lighthouse, NJ	01412350	---	Temp.	1970-86
Maurice River at Norma, NJ	01411500	112.0	Temp.	1967-68, 1980-87, 1993-94
			S.C.	1980-87, 1993-94
			pH	1993-94
		Sed.	1965-68	

* Unpublished records are available in the files of the District office.

DISCONTINUED CONTINUOUS WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
Delaware River near Delaware Water Gap, Pa.	01440200	3850	Sed.	1964-65, 1972
Delaware River at Dunnfield, NJ	01442750	4150	Temp.	1967-76
			Sed.	1966-76
Delaware and Raritan Canal Feeder at Raven Rock, NJ	01460300		Temp., S.C., Turb.	1998-99
Delaware and Raritan Canal Feeder at Lower Ferry Road at Trenton, NJ	01460400		Temp., S.C., Turb.	1998-99
Delaware and Raritan Canal Feeder at Port Mercer, NJ	01460440		Temp., S.C., Turb.	1998-99
Delaware and Raritan Canal Feeder at Griggstown, NJ	01460530		Temp., S.C., Turb.	1998-99
Delaware and Raritan Canal Feeder at Ten Mile Lock near Manville, NJ	01460565		Temp., S.C., Turb.	1998-99
Delaware and Raritan Canal Feeder at New Brunswick, NJ	01460600		Temp., S.C., Turb.	1998-99
Delaware River at Trenton, NJ	01463500	6780	Sed.	1949-82
Delaware River at Marine Terminal, at Trenton, NJ	01464040	6870	Temp., S.C.	1973-76
Crosswicks Creek near Extonville, NJ	01464500	81.5	Temp.	1967-70
			Sed.	1965-70
McDonalds Branch in Lebanon State Forest, NJ	01466500	2.35	Temp.	1960-92
			S.C.	1968-92
			pH, D.O.	1984-92
Rancocas Creek at Willingboro, NJ	01467016	315	Temp., S.C.,	1969-74
			D.O.	1970-72
			pH	1970-74
Cooper River at Haddonfield, NJ	01467150	17.0	Temp., Sed.	1968-69
Raccoon Creek near Swedesboro, NJ	01477120	26.9	Temp.	1966-73
			Sed.	1966-69

Type of record: Temp. (temperature), S.C. (specific conductance), pH (pH), D.O. (dissolved oxygen), Sed. (sediment).



01398000 Neshanic River at Reaville
Agricultural Land Use Indicator Station
Ambient Stream Monitoring Network
(File photograph, U.S. Geological Survey, West Trenton, New Jersey)

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey (USGS), in cooperation with Federal, State, and local agencies, collects a large amount of data pertaining to the water resources of New Jersey each water year. These data, accumulated over many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the USGS, the data are published annually in this report series, titled "Water Resources Data-New Jersey."

This report series includes records of stage, discharge, and water quality in streams; stage, contents, and water quality in lakes and reservoirs; and water levels and water quality in ground-water wells. This volume contains water quality records, containing various chemical analyses, at 128 surface-water and 53 ground-water stations. Locations of these stations are shown in figures 22-24, and 62. Additional water-quality data were collected at various sites that are not part of the systematic data collection program. Miscellaneous data were collected at 29 surface-water sites and 53 ground-water sites. Locations of these sites are shown in figures 59-64. The data in this report represent that part of the National Water Information System (NWIS) data collected by the USGS and cooperating Federal, State, and local agencies in New Jersey.

This series of annual reports for New Jersey began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. For water years 1975 through 1989, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels. Beginning with the 1977 water year, these data were published in two volumes based on drainage basins. Beginning with the 1990 water year, the format was changed to include all surface-water discharge and surface-water quality records in Volume 1 and all ground-water level and ground-water quality records in Volume 2.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for New Jersey were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Part 1B." For water years 1961 through 1970, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for water years 1941 through 1970 were published annually under the title "Quality of Surface Waters of the United States," and water levels for water years 1935 through 1974 were published under the title "Ground-Water Levels in the United States." The above-mentioned Water-Supply Papers can be consulted in the libraries of the principal cities of the United States and can be purchased from U.S. Geological Survey, Branch of Information Services, Box 25286, Denver, CO 80225-0286, (303) 202-4610.

Publications similar to this report are produced annually by the USGS for all States. These reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report NJ-01-3." For archiving and general distribution purposes, the reports for water years 1971 through 1974 also are identified as water-data reports. Water-data reports are available for purchase in paper copy or in microfiche from the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports can be obtained from the District Chief, USGS, New Jersey District, at the address given on the back of the title page of this report or by telephone ((609) 771-3900).

COOPERATION

The U.S. Geological Survey and agencies of the State of New Jersey have had joint-funding agreements for the collection of water-resource records since 1921. Organizations that assisted in collecting the data in this report through joint-funding agreements with the USGS are--

New Jersey Department of Environmental Protection, Bradley M. Campbell, Commissioner

North Jersey District Water Supply Commission, Michael Barnes, General Manager

Passaic Valley Water Commission, Joseph A. Bella, Executive Director

Pinelands Commission, Annette M. Barbaccia, Executive Director

Delaware River Basin Commission, Carol R. Collier, Executive Director

The New Jersey Department of Environmental Protection aided in collecting records.

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water Quality

Yearly Trend of Precipitation, Stream Discharge, and Physical Water-Quality Characteristics Monitored at Several Index Stations

New Jersey received 39.12 inches of precipitation during water year 2001 (October 2000 to September 2001); precipitation was calculated from a spatially weighted average at several dozen stations throughout the State. This is a 5.68-inch (13 percent) deficit when compared to the long-term (1895-2000) mean-yearly value of 44.80 inches (Statewide Monthly Precipitation 1895-2001, Climate Data, N.J. State Climatologist, Rutgers University; accessed at http://climate.rutgers.edu/stateclim/data/index.html). Monthly mean values for March and June were above long-term (1895-2000) mean-monthly values; October, January, February, April, May, and July to September were below long-term means, whereas November and December were near normal (fig. 1). Streamflow was above average during March and June at the High Bridge and Folsom index stations and during December, April, and June at the Trenton index station (fig. 2). Below-average streamflow was recorded during November, January, May, and July to September at all three index stations.

One effect of the yearlong precipitation deficit can be seen in the plot of monthly mean values of specific conductance (SC) at the continuous-monitoring station on the Delaware River at Trenton (fig. 3). All monthly mean values of SC for the 2001 water year were above long-term (1968-2000) mean-monthly values. The values for May and July exceeded the highest monthly mean values for the period of record; values for February, March, and August were within 3 µS/cm (microsiemens per centimeter at 25 degrees Celsius) of period-of-record maximum values. Near-average monthly mean SC values recorded during April and June correspond to above average streamflow during these months. SC is generally inversely related to stream discharge and is often used as an indicator of dissolved solids concentration.

The spatially weighted average ambient temperature for New Jersey for the 2001 water year was 52.5° F (11.4° C); the long-term (1895-2000) mean-yearly temperature was 52.1° F (11.2° C) (Statewide Monthly Mean Temperatures 1895-2001, Climate Data, N.J. State Climatologist, Rutgers University; accessed at http://climate.rutgers.edu/stateclim/data/index.html). Most water temperatures measured throughout the year at stations in the Ambient Stream Monitoring Network (described later in this section) were within previously measured maximums and minimums. Monthly mean water temperature values for water year 2001 measured at Delaware River at Trenton, New Jersey, closely matched long-term (1895-2000) mean-monthly values and did not exceed period-of-record minimums or maximums (fig. 4).

Dissolved oxygen (DO) concentration generally exhibits an inverse relation to water temperature. As water temperature decreases, oxygen concentration increases; as water temperature increases, oxygen concentration decreases. DO, therefore, varies seasonally; yearly maximums occur in winter, and yearly minimums occur in summer. As expected, the highest monthly median of the daily maximum DO concentrations, 15.4 mg/L (milligrams per liter), occurred in February when the mean water temperature was 2.7 C(fig. 5). The lowest monthly median of the daily-minimum DO concentrations, 7.4 mg/L, and the highest monthly mean water temperature, 26.9 C, occurred in August. No monthly medians of daily maximum or minimum values for water year 2001 exceeded previously established highest or lowest monthly median values for the period of record.

Ambient Stream Monitoring Network

The United States Geological Survey (USGS) in cooperation with the New Jersey Department of Environmental Protection (NJDEP), operates the cooperative Ambient Stream Monitoring Network (ASMN), which is designed to determine statewide water-quality status and trends, measure water-quality near the downstream end of each NJDEP Watershed Management Area (WMA), define background water quality in each of the four physiographic provinces of New Jersey, and measure nonpoint source contributions from major land-use areas and atmospheric deposition. The ASMN consists of 112 stations located throughout the 20 WMAs. Five stations are located on the Delaware River main stem—the border between New Jersey and Pennsylvania—and are excluded from the following descriptive statistics of the ASMN data. The remaining 107 stations are segregated into 5 distinct types that together are used to define the surface-water quality in the State. Six background stations are located on reaches of streams that remain relatively unaffected by human activity in order to develop a baseline water-quality database. Twenty-three Watershed-Integrator (WI) stations are located at the farthest downstream point, not affected by tide, in one of the large drainage basins in each WMA, except areas 9 and 16. The WI stations provide information on the sum of point and nonpoint source contributions to surface water quality within each WMA. Land Use Indicator (LUI) stations are used to monitor the effects of the dominant land use in each WMA and provide data on nonpoint source loading of contaminants to streams. Of the 43 LUI stations, 15 are designated undeveloped, 9 agriculture, 13 urban, and 6 mixed. Forty statewide-status (SS) stations, two in each WMA, are chosen randomly to obtain a statistical basis that can be used to estimate values of water-quality indicators statewide. In water year 2001, five of the SS stations were co-located at existing WI or LUI stations; data from both station types were included in the statistics of both station types. Water-column samples were collected at each station to assess water-quality constituents that can be used as environmental indicators statewide. In addition to the regularly scheduled samples a Watershed Reconnaissance study is devised annually according to specific project needs. The purpose of the Watershed Reconnaissance study in water year 2001 was to assess 3 to 6 day diurnal physical measurements and constituent concentrations at a subset of the network sites. This is

discussed further in Ambient Stream Monitoring Network Reconnaissance Study.

Distribution of Selected Constituents in Filtered and Unfiltered Surface Water from Stations in the ASMN

Measurements were made of physical characteristics of, and analyses were conducted to determine concentrations of total and filtered nutrients, filtered common ions, filtered organic carbon, and biochemical oxygen demand (BOD) in, water samples from 112 stations in the ASMN. Samples were collected at each station four times a year during the periods November to December, February to March, May to June, and August to September. The analyzing laboratory used two different methods and reporting conventions for establishing the minimum concentration above which a quantitative measurement could be made. These reporting conventions were minimum reporting level (MRL) and laboratory reporting level (LRL). LRL was computed as twice the long-term method detection level (LT-MDL). Values reported by the analyzing laboratory as less than the MRL or LRL were included in each distribution but were reported as a value equal to one-half the MRL or LT-MDL. Estimated values, which were determined to be greater than the LT-MDL but less than the LRL, also were included, and they are marked with an "E" in the water-quality tables. Refer to "Laboratory Measurements" in the "Introduction" for additional information on reporting limits and estimated concentrations.

The highest median water temperature and lowest median percent of dissolved oxygen saturation during the growing season (April-October) occurred at urban LUI stations (fig. 6). Streams affected by wastewater and road salt runoff are likely to have high levels of total dissolved solids (TDS); samples from urban LUI, WI, and agriculture LUI stations had the highest median concentrations of TDS—252, 174, and 152 mg/L, respectively. In contrast, samples from undeveloped LUI and background stations had the lowest median concentrations, 49 and 73 mg/L, respectively. Samples from SS stations had the most outliers greater than 400 mg/L of TDS. The two highest values, 1,700 and 4,190 mg/L, were from samples collected the day after a snowfall and the subsequent application of road salt. The lowest median concentration of BOD, 0.5 mg/L, was present in samples from background stations and is lower than the minimum reporting level of 1.0 mg/L.

Runoff containing chemical fertilizer or animal waste, and discharge of municipal sewage, are likely contributors of nutrients to streams. The highest median concentrations of ammonia, as nitrogen, were present in samples from urban and agriculture LUI stations, 0.095 and 0.060 mg/L, respectively. The highest median concentrations of nitrite plus nitrate, as nitrogen, were present in samples from agriculture LUI and WI stations, 1.50 and 1.25 mg/L, respectively. The highest median concentrations of ammonia plus organic nitrogen were present in sample from urban and agriculture LUI stations, 0.52 and 0.42 mg/L, respectively. The highest median concentrations of phosphorous were present in samples from urban LUI and WI stations, 0.070 and 0.066 mg/L, respectively. Samples from background and undeveloped LUI stations contained the lowest median concentrations of the four nutrient species.

The median concentration of filtered organic carbon in samples from network stations of all types for water years 1998-2000 is 3.7 mg/L. Median values measured in samples during water year 2001 ranged from 2.0 at background stations to 4.8 mg/L at undeveloped LUI stations. Some undeveloped LUI stations were located on streams that drained low-relief cedar wetlands in the Coastal Plain physiographic province where the water has sufficient residence time to extract organic carbon compounds from decaying plant material. Predictably, samples from undeveloped LUI stations had the largest range of filtered organic carbon concentrations, 1.4 to 19.0 mg/L, and the highest median concentration, 4.8 mg/L.

Distribution, Detection Frequency, and Concentration of Selected Whole-Water Recoverable Trace Elements, Volatile Organic Compounds, and Filtered Pesticides in Samples from 46 Stations in the ASMN

Concentrations of trace elements, volatile organic compounds (VOCs), and pesticides in samples from background stations were determined to develop a baseline with which to compare the water quality at other stations and at SS stations to provide a general overview of water quality statewide and of the aerial distribution of these compounds. Samples for analysis of trace elements, VOCs, and pesticides were collected during the period when the constituents were most likely to be detected, during August and September, February and March, and May and June, respectively. For ease of discussion, only those constituents detected in one or more samples are shown in the figures or tables. A detected constituent was one whose value is reported to be greater than or equal to the laboratory MRL or LRL. Data on selected whole-water-recoverable trace elements with a high percentage of detection in samples (greater than 75 percent) are summarized in box plots; data on constituents with a lower percentage of detection in samples are summarized in scatter plots. Values reported by the analyzing laboratory as less than the MRL or LRL were included in the box plots but were reported as a value equal to one-half the MRL or LT-MDL; they were excluded from the scatter plots. Estimated values were included in both types of plots.

Abundant minor elements, iron and manganese, and less abundant trace elements that might affect human health, and plant nutrition and toxicity (Hem, 1985), were detected less often and in smaller concentrations in samples from background stations than in samples from SS stations (figs. 7 and 8). Arsenic, chromium, mercury, and silver were not detected in any sample from background stations; lead, nickel, and selenium were detected once each. Median concentrations of minor elements and detection frequencies of trace elements were greatest in samples from SS stations.

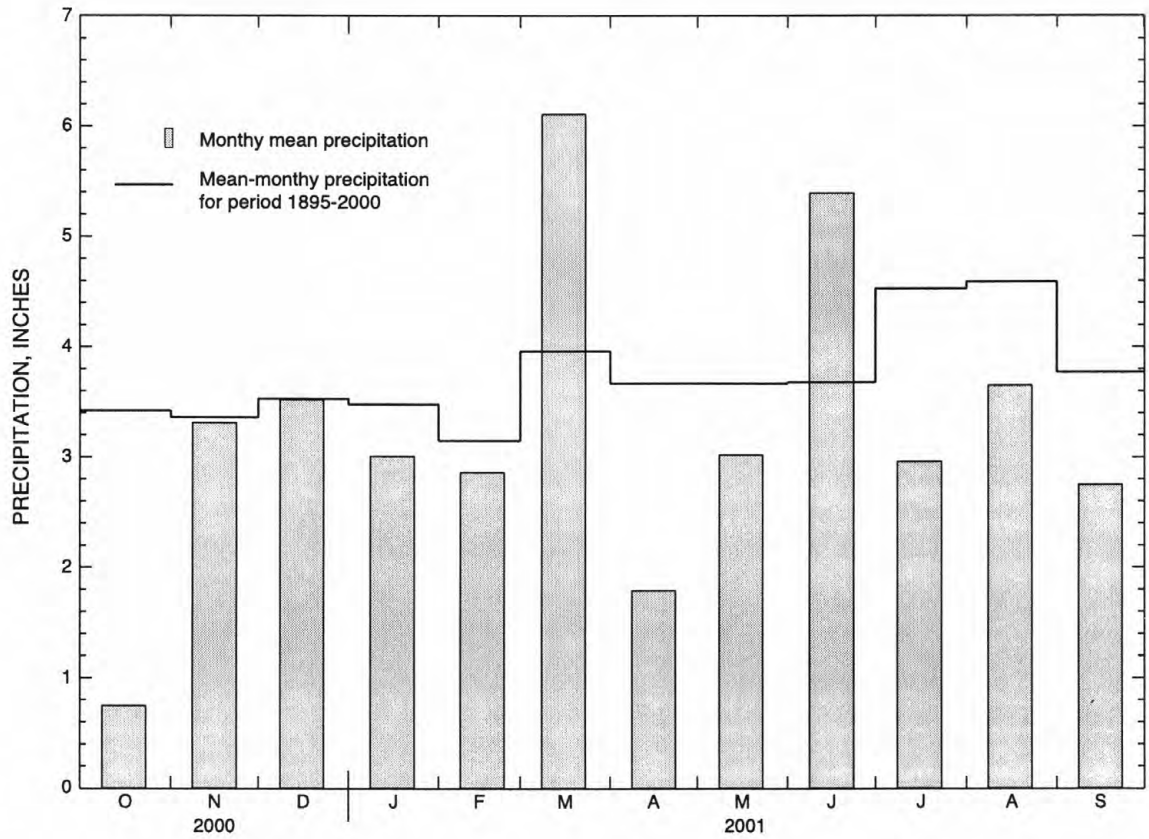
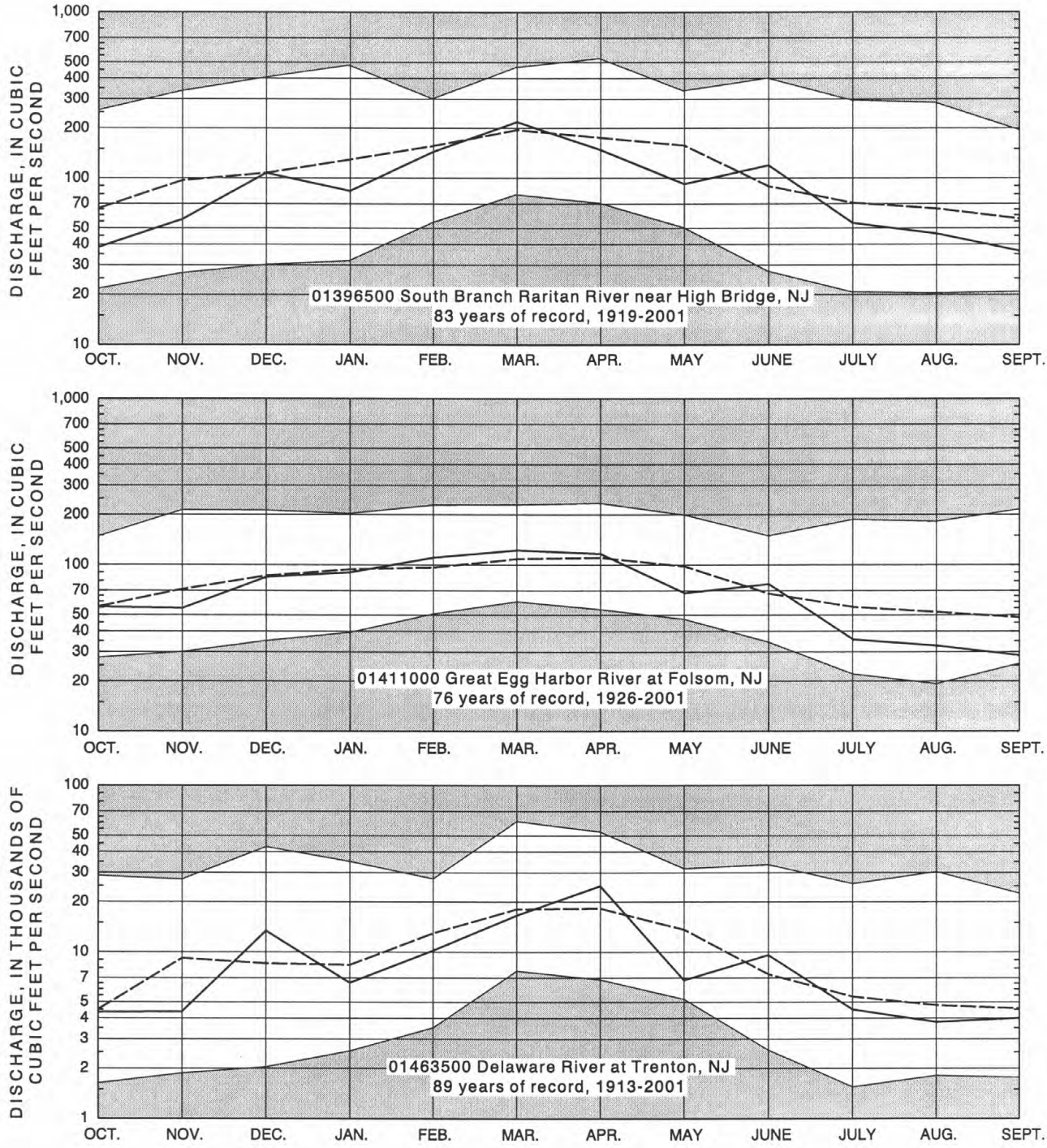


Figure 1. Monthly mean precipitation for water year 2001 and mean-monthly precipitation for 1895-2000. [Mean-monthly and monthly mean precipitation are spatially weighted averages of several dozen stations throughout the State]



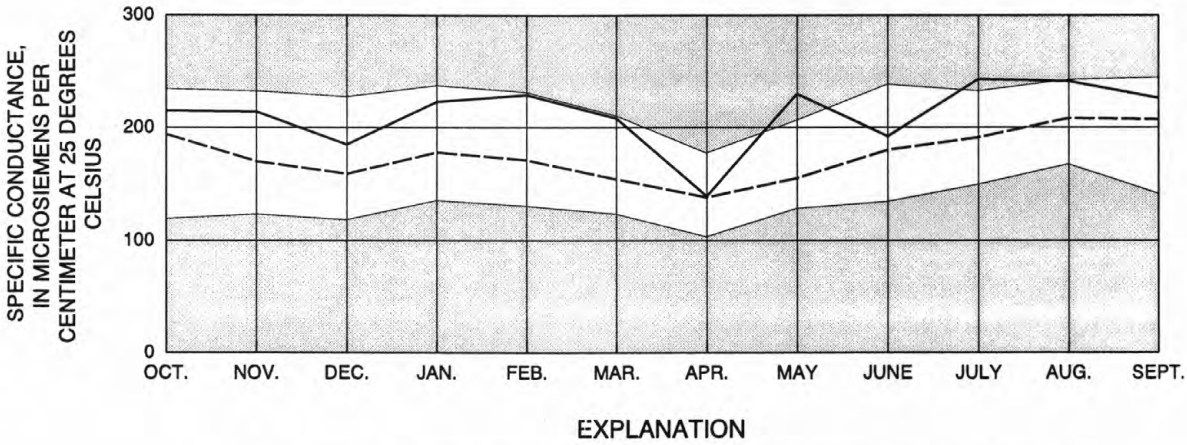
EXPLANATION

UNSHADED AREA--Indicates range between highest and lowest mean discharge recorded for the month, prior to 2000 water year

BROKEN LINE--Indicates normal discharge (median of the monthly means) for the standard reference period, 1961-90

SOLID LINE--Indicates observed monthly mean discharge for the 2000 water year

Figure 2. Monthly mean discharge at index gaging stations, water year 2001.



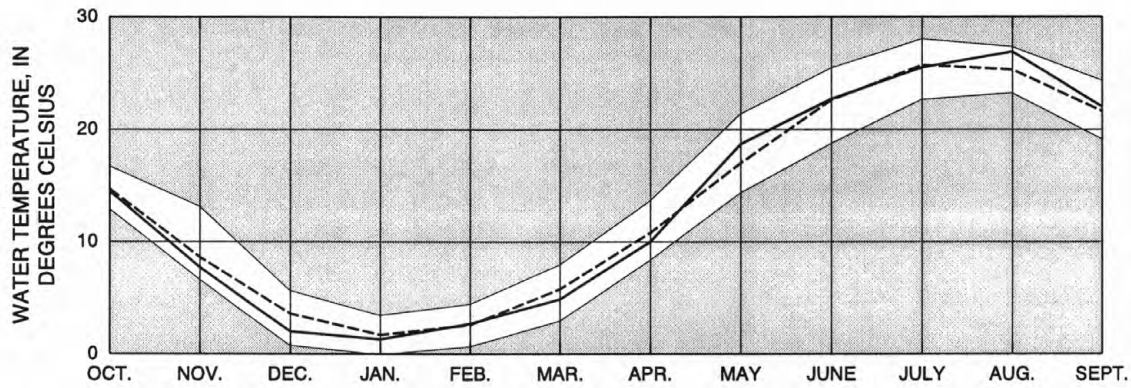
EXPLANATION

UNSHADED AREA--Indicates the range between the highest monthly mean values and the lowest monthly mean values, water years 1968-2000.

SOLID LINE--Indicates the monthly mean values for water year 2001.

BROKEN LINE--Indicates the mean monthly values for water years 1968-2000.

Figure 3. Monthly mean specific conductance at Delaware River at Trenton, New Jersey, water year 2001.



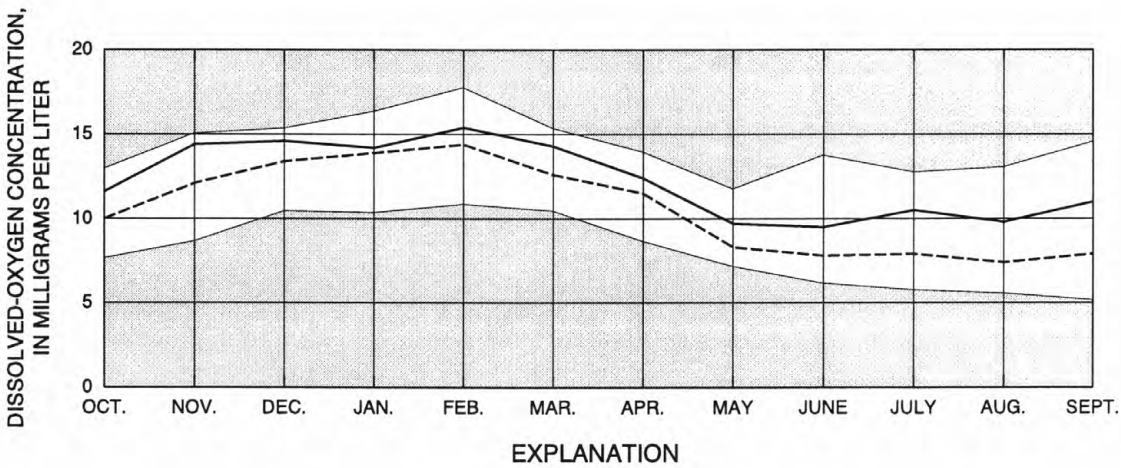
EXPLANATION

UNSHADED AREA--Indicates the range between the highest monthly mean values and the lowest monthly mean values, water years 1968-2000.

SOLID LINE--Indicates the monthly mean values for water year 2001.

BROKEN LINE--Indicates the mean monthly values for water years 1968-2000.

Figure 4. Monthly mean water temperature at Delaware River at Trenton, New Jersey, water year 2001.



EXPLANATION

UNSHADED AREA--Indicates the range between the highest monthly median of daily maximum values and the lowest monthly median of daily minimum values, water years 1968-2000.

SOLID LINE--Indicates the monthly median of daily maximum values for water year 2001.

BROKEN LINE--Indicates the monthly median of daily minimum values for water year 2001.

Figure 5. Monthly medians of daily maximum and minimum dissolved-oxygen concentrations at Delaware River at Trenton, New Jersey, water year 2001.

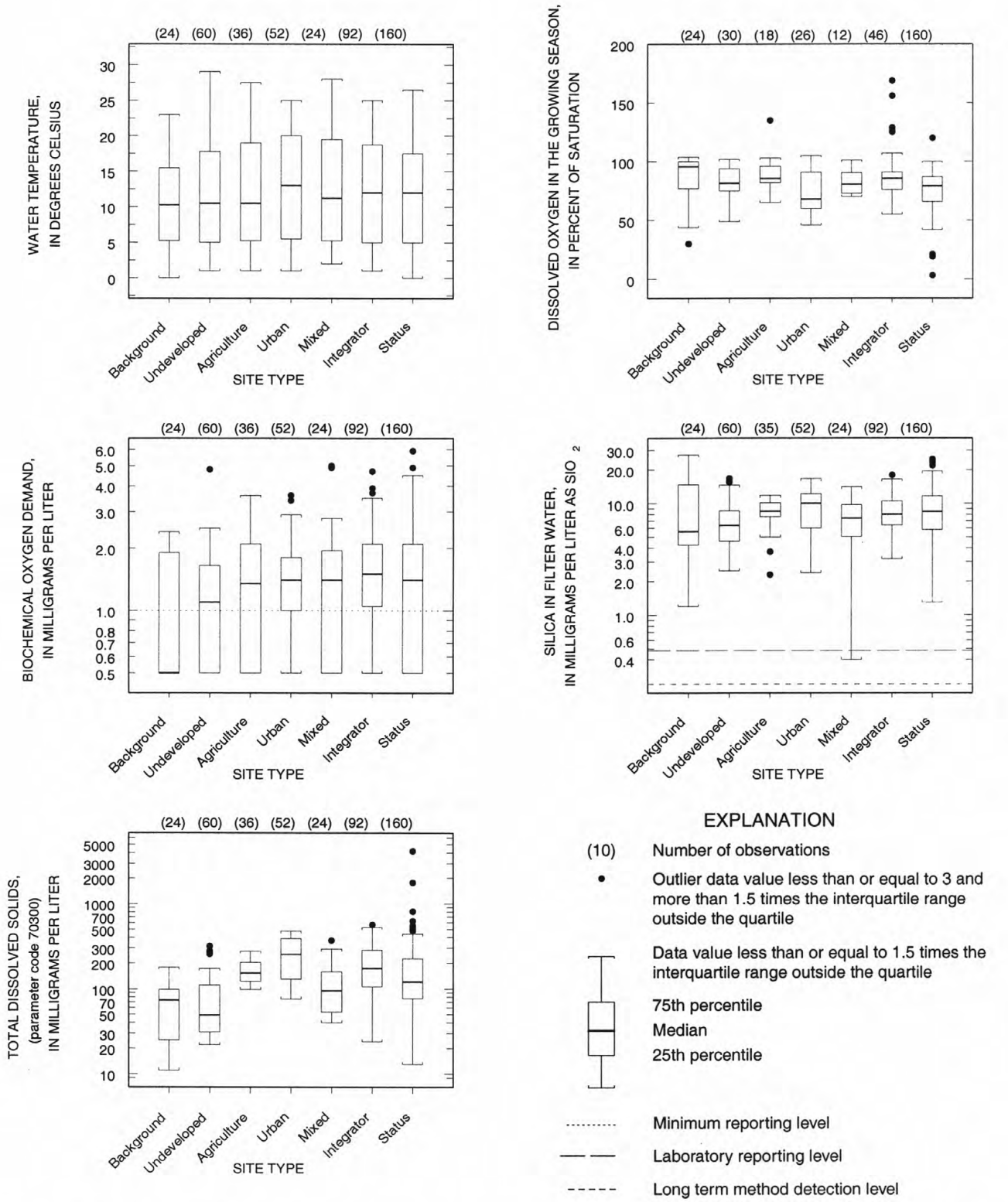


Figure 6. Distribution of physical characteristics of, and constituent concentrations in, samples from 112 stations in the Ambient Stream Monitoring Network, water year 2001. ["Less-than" values reported as equal to one-half the minimum reporting level or long-term method detection level; excludes data from Delaware River main stem sites 01438500, 01443000, 01457500, 01461000, and 01463500]

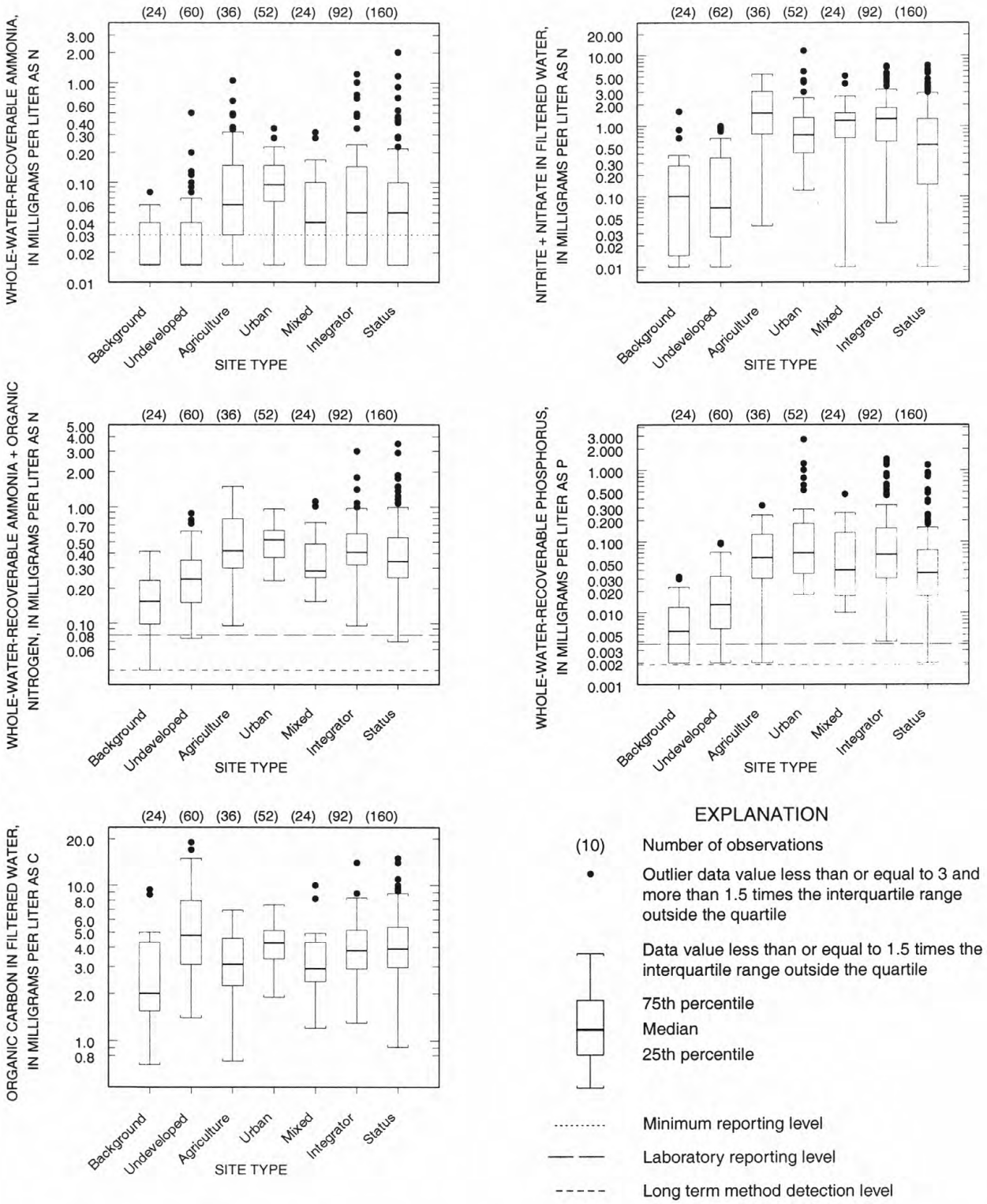


Figure 6. Distribution of physical characteristics of, and constituent concentrations in, samples from 112 stations in the Ambient Stream Monitoring Network, water year 2001--continued.
["Less-than" values reported as equal to one-half the minimum reporting level or long-term method detection level; excludes data from Delaware River main stem sites 01438500, 01443000, 01457500, 01461000, and 01463500]

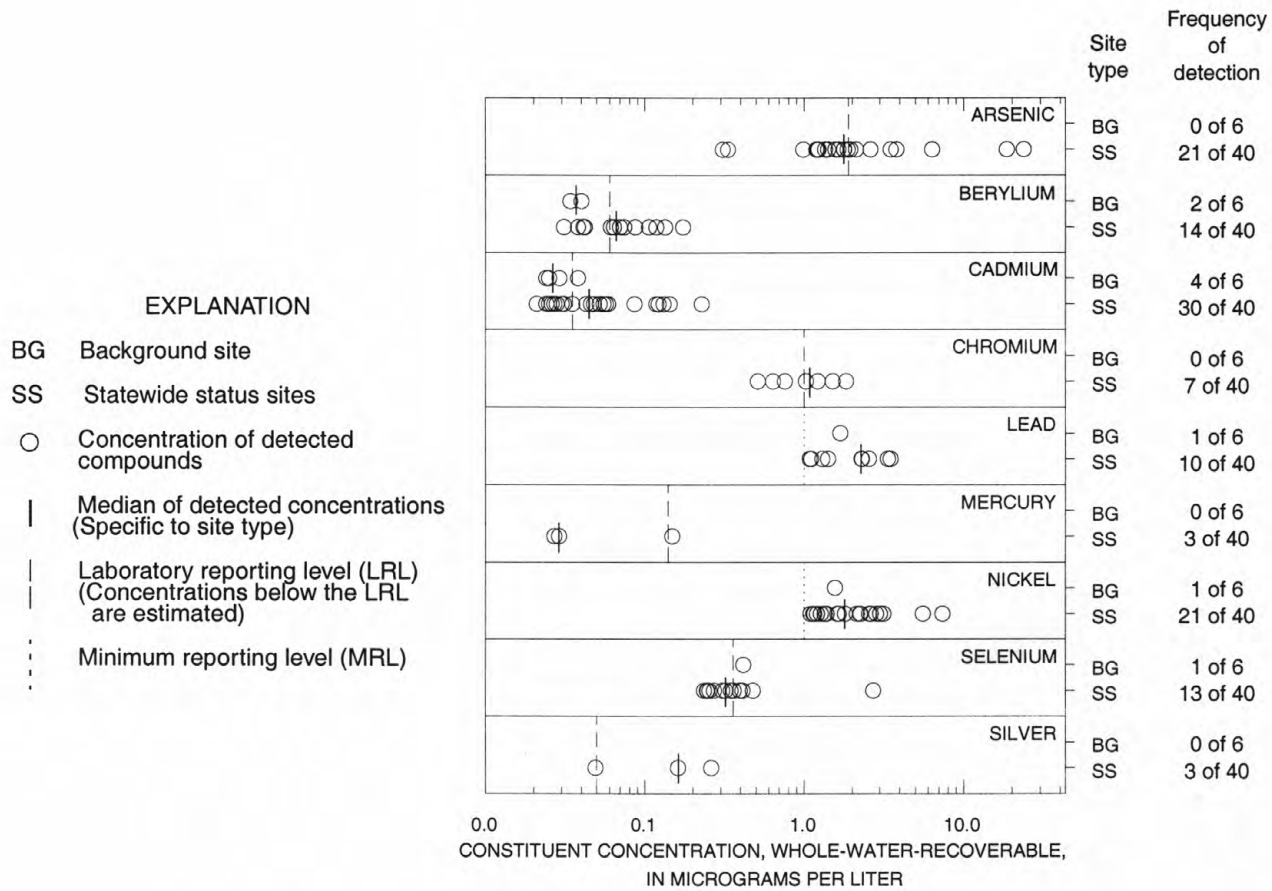


Figure 7. Concentration and detection frequency of whole-water-recoverable trace elements detected in samples from 46 stations in the Ambient Stream Monitoring Network, water year 2001. [Constituents whose values were reported by the laboratory as less than the MRL or LRL are considered to be not detected]

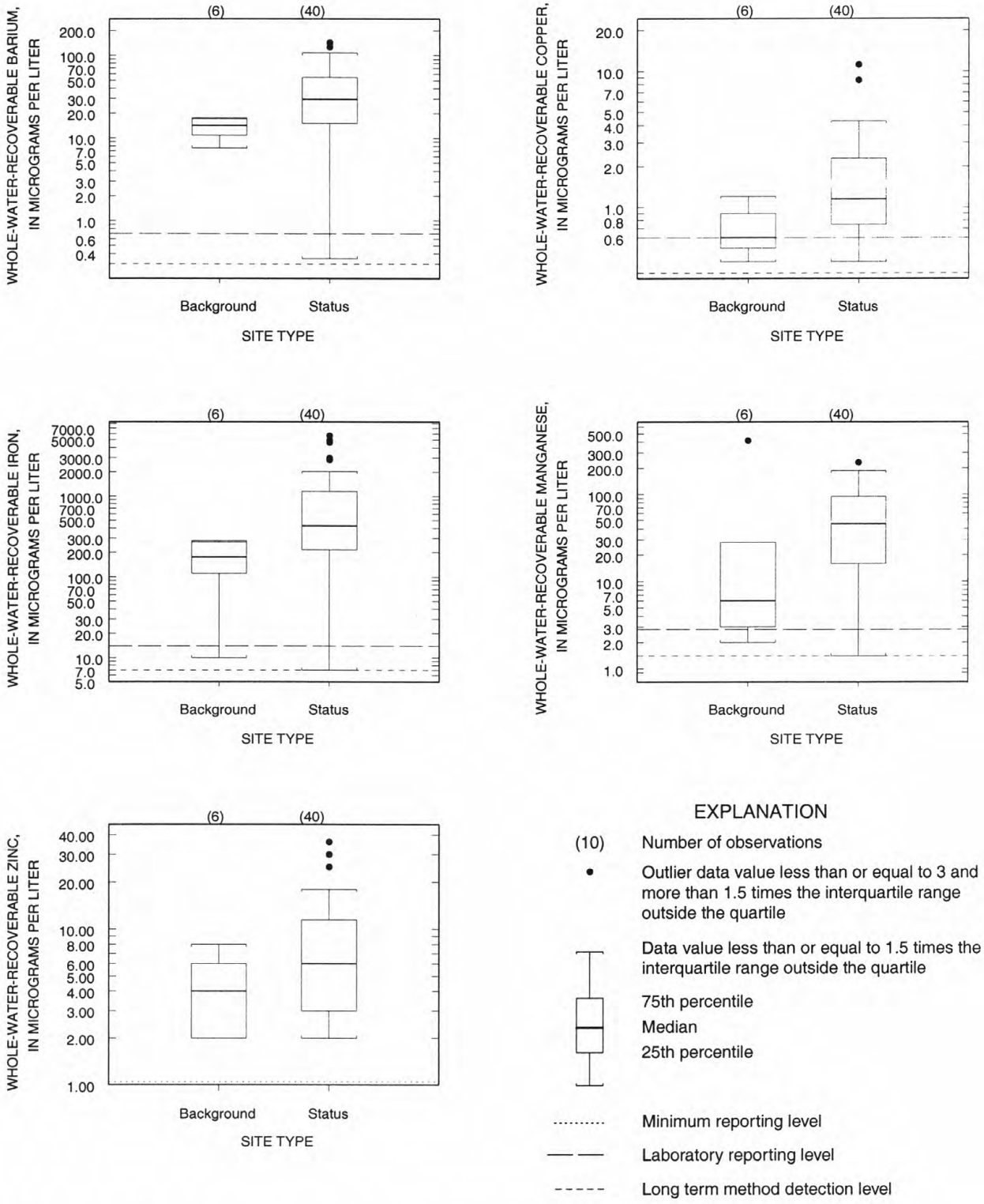


Figure 8. Distribution of selected whole-water-recoverable trace-element concentrations in samples from 46 stations in the Ambient Stream Monitoring Network, water year 2001. ["Less-than" values reported as equal to one-half the minimum reporting level or long-term method detection level]

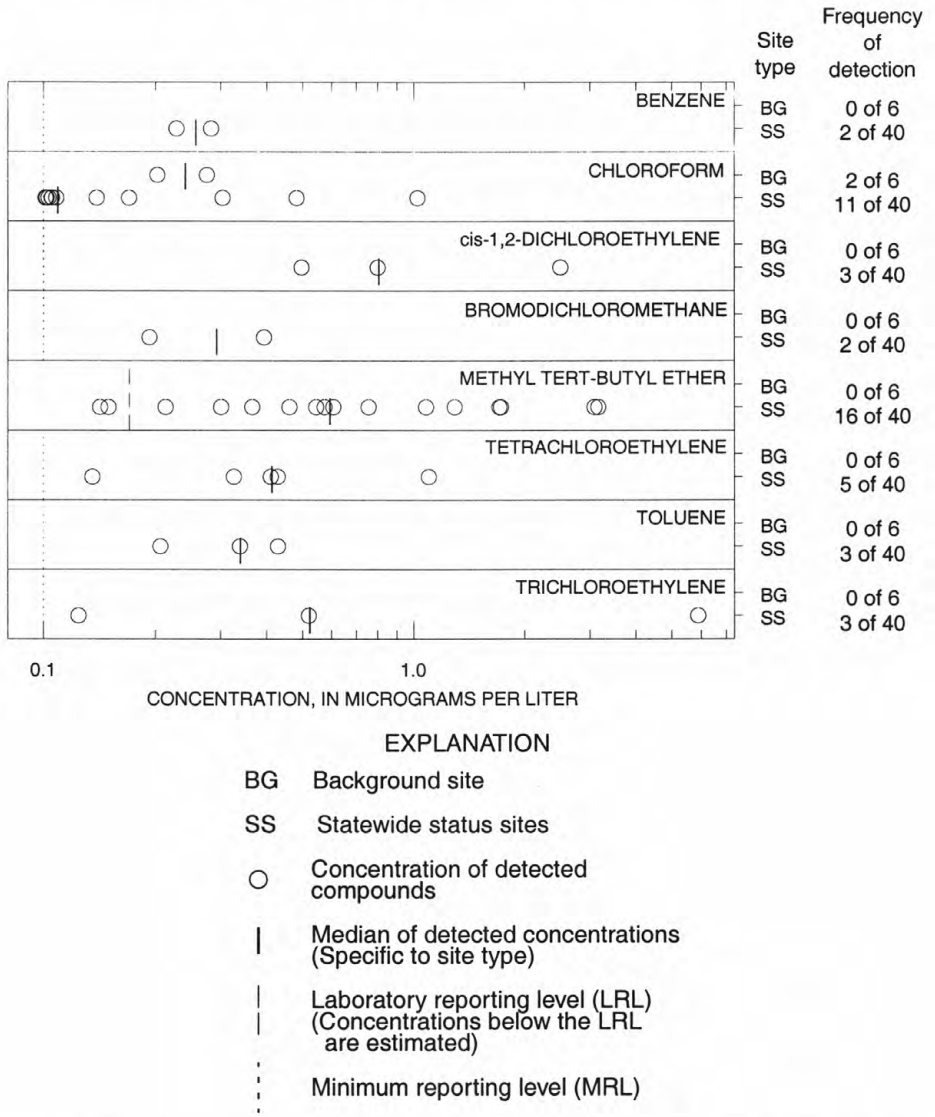


Figure 9. Concentration and detection frequency of volatile organic compounds detected in samples from 46 stations in the Ambient Stream Monitoring Network, water year 2001. [Constituents whose values were reported by the laboratory as less than the MRL or LRL are considered to be not detected]

Table 1. Concentration of volatile organic compounds detected only once in samples from 46 stations in the Ambient Stream Monitoring Network, water year 2001.
[SS, statewide status; E, estimated]

CONSTITUENT	CONCENTRATION (micrograms per liter)	SITE TYPE
1,1,1-TRICHLOROETHANE	1.092	SS
1,2-DICHLOROETHANE	0.6656	SS
CHLOROBENZENE	0.7946	SS
META+PARA XYLENE	E.1851	SS
VINYL CHLORIDE	1.0300	SS

EXPLANATION

BG Background site

SS Statewide status sites

○ Concentration of detected compounds

| Median of detected concentrations (specific to site type)

| | Laboratory reporting level (LRL) (concentrations below the LRL are estimated)

Table 2. Detection frequency of selected pesticides in filtered samples from 46 stations in the Ambient Stream Monitoring Network, water year 2001.
[All values are estimated due to poor recovery or poor precision]

CONSTITUENT	STATEWIDE STATUS	BACKGROUND
CARBARYL	20 of 40	0 of 6
CARBOFURAN	2 of 40	0 of 6
DACTHAL (DCPA)	2 of 40	0 of 6
DEETHYLATRAZINE	23 of 40	1 of 6
METHYLAZINPHOS	4 of 40	0 of 6
TEBUTHIURON	2 of 40	0 of 6
TERBACIL	4 of 40	0 of 6
TRIFLURALIN	8 of 40	0 of 6

Table 3. Concentration of pesticides detected only once in filtered samples from 46 stations in the Ambient Stream Monitoring Network, water year 2001.
[SS, statewide status; E, estimated]

CONSTITUENT	CONCENTRATION (micrograms per liter)	SITE TYPE
ALPHA-HCH	0.0053	SS
BENFLURALIN	E.0046	SS
CYANAZINE	0.7660	SS
DIELDRIN	0.0098	SS
EPTC	0.0098	SS
LINDANE	E.0022	SS
LINURON	0.0717	SS

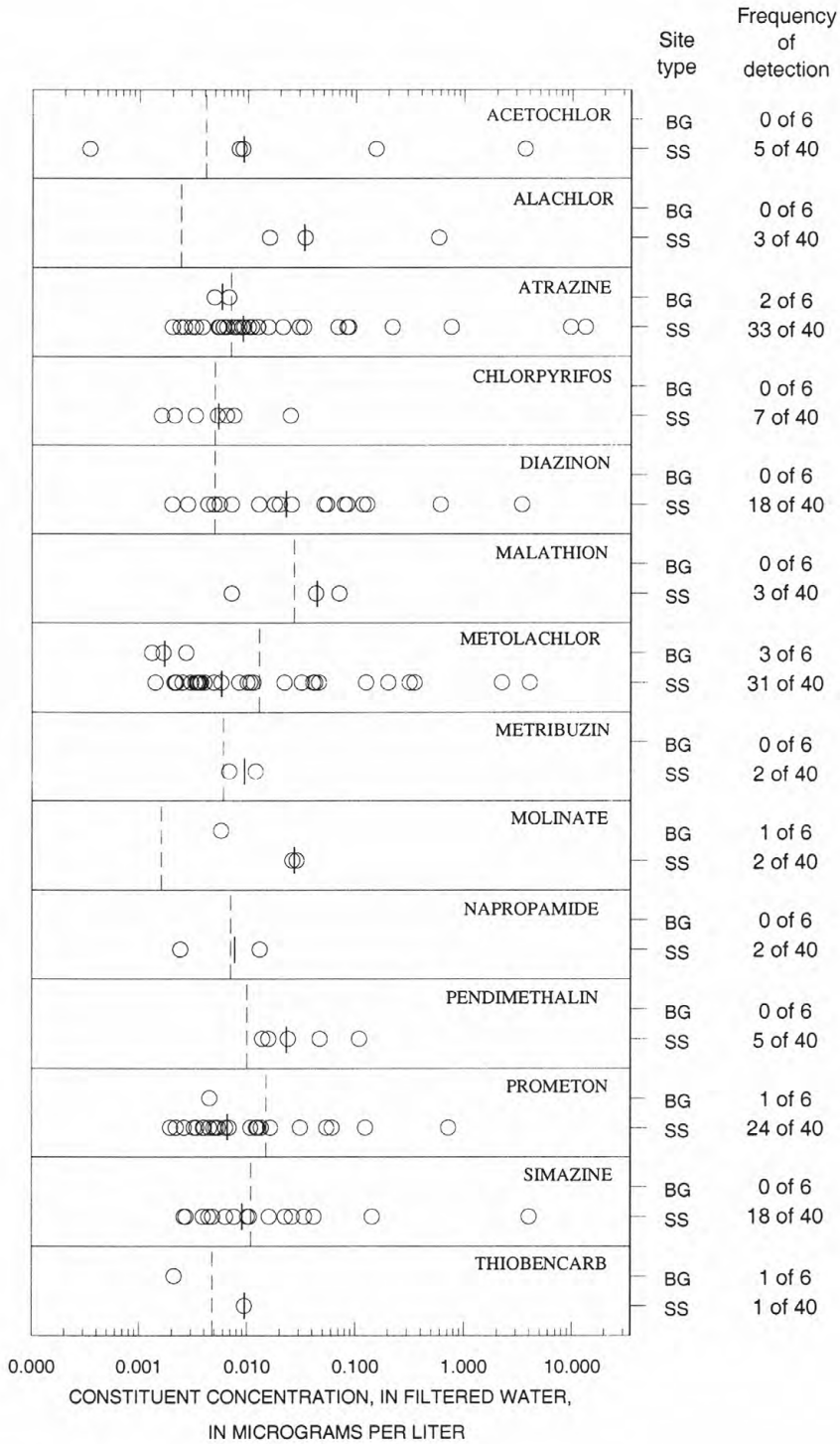


Figure 10. Concentration and detection frequency of pesticides detected in filtered samples from 46 stations in the Ambient Stream Monitoring Network, water year 2001. [Constituents whose values were reported by the laboratory as less than the MRL or LRL are considered to be not detected]

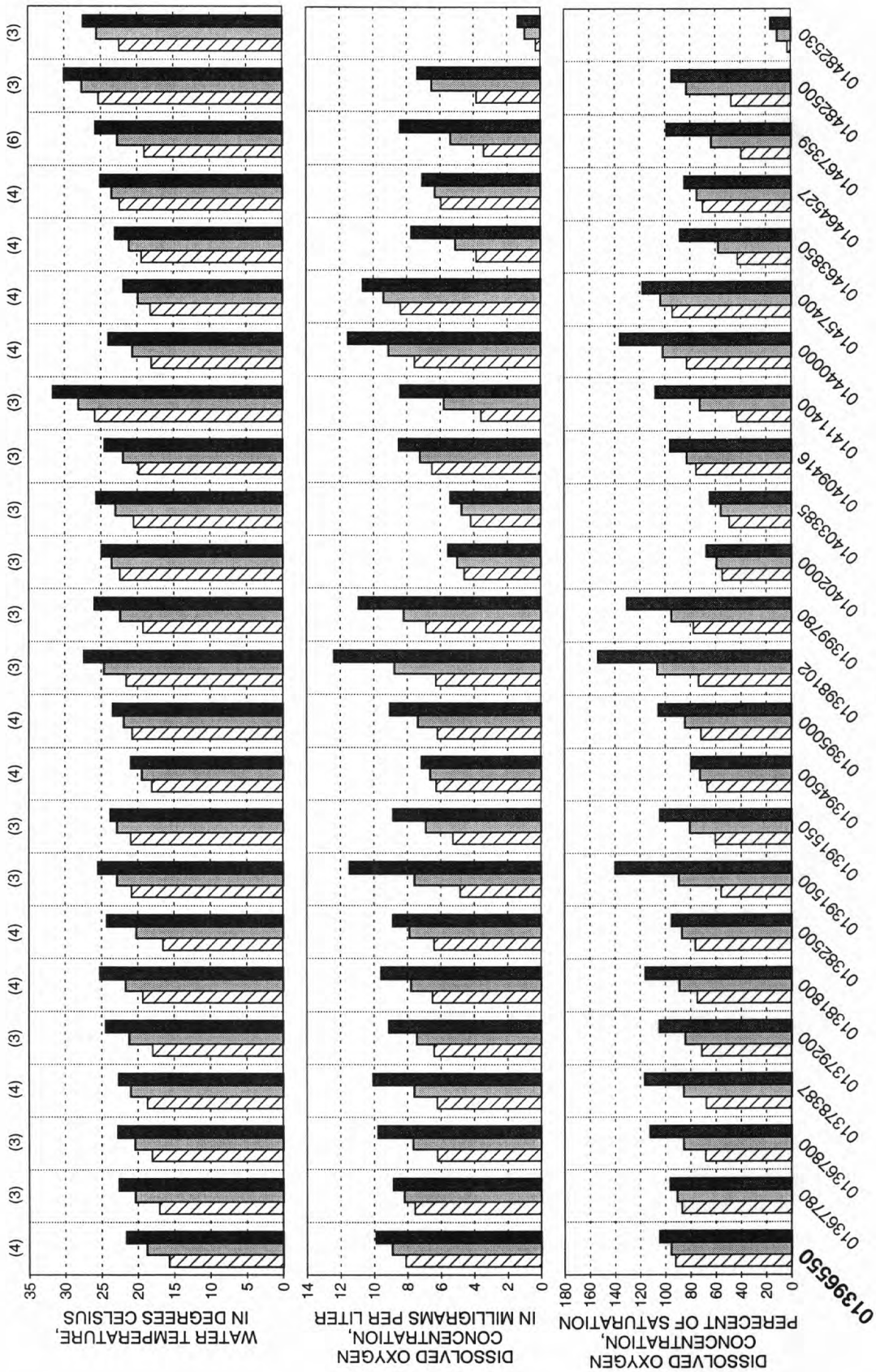


Figure 11. Field characteristics and concentrations of constituents in surface water at selected stations in the Ambient Stream Monitoring Network during June, July, August, or September, 2001.
[Station number in bold represents a background site; (3), 3 days in period of record]

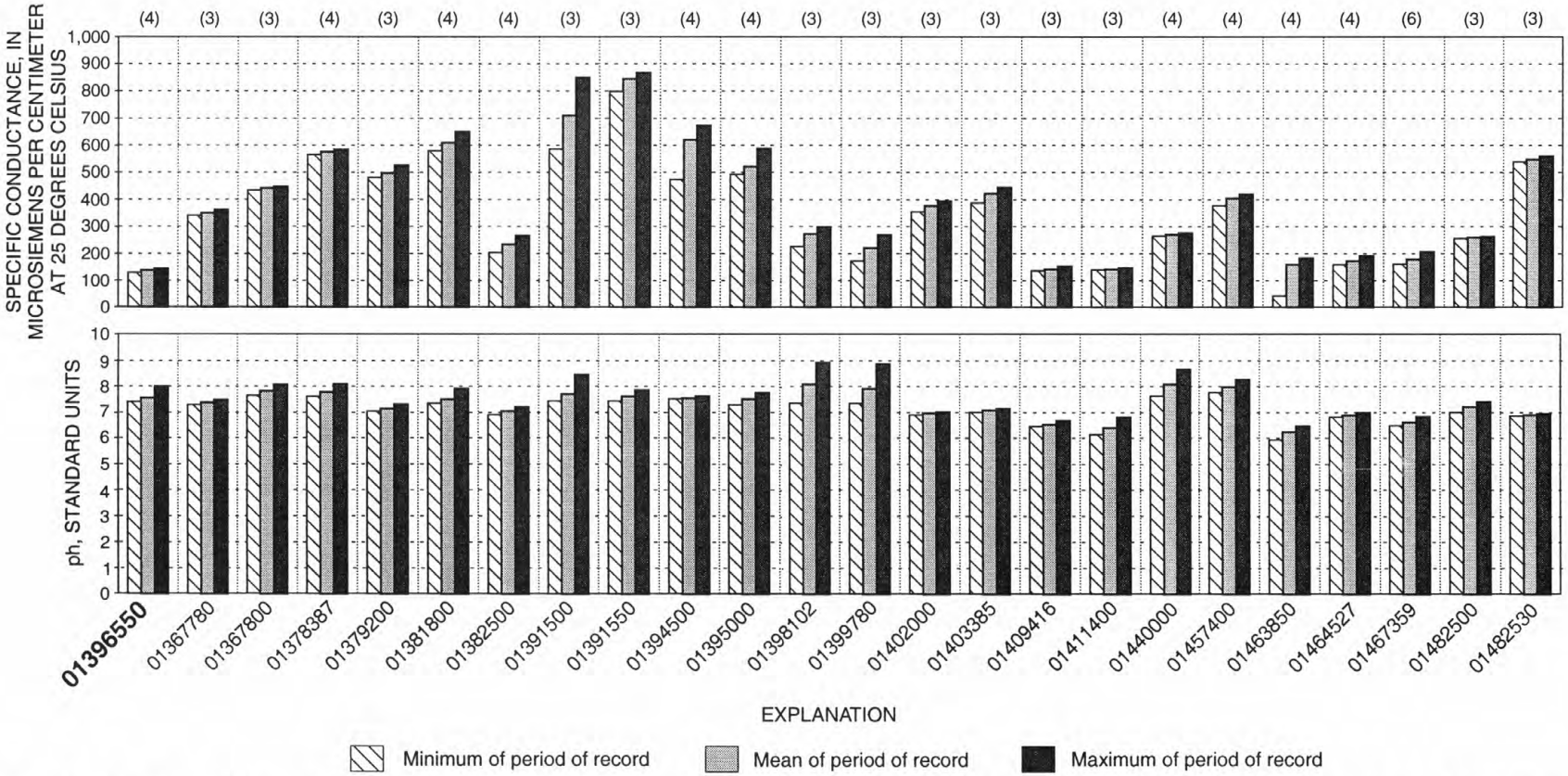


Figure 11. Field characteristics and concentrations of constituents in surface water at selected stations in the Ambient Stream Monitoring Network during June, July, August, or September, 2001--continued.

[Station number in bold represents a background site; (3), 3 days in period of record]

Samples from 6 background and 40 SS stations were analyzed for 34 VOCs. Only those detected in one or more samples are included in figure 9 and table 1. (See individual station records for tables listing all the compounds.) Five compounds were detected once, and eight were detected multiple times. The most frequently detected VOCs in 46 samples were Methyl tert-butyl ether (MTBE), in 35 percent of samples and chloroform, in 28 percent. Chloroform was the only compound detected in samples from background stations. Chloroform and Bromodicholoromethane are by-products of the chlorination of drinking water. Benzene and Toluene are components of gasoline; MTBE is a gasoline additive.

Filtered samples from 6 background and 40 SS stations were analyzed for 47 pesticides by use of USGS National Water Quality Laboratory schedule 2001. Only compounds detected in one or more samples are included in figure 10 and tables 2 and 3. (Refer to "Laboratory Measurements" in the "Introduction" for the complete list of those pesticides and the LRL for each compound.) Estimated values, concentrations to the left of the LRL lines in figure 10, also are included. Twenty-nine pesticides were detected at one or more SS stations; six of these also were detected at background stations. Seven of the detected compounds are insecticides—Chlorpyrifos, Diazinon, Malathion, Carbaryl, Carbofuran, Dieldrin, and Lindane. The remaining compounds are herbicides. The most frequently detected pesticides in 46 samples were Atrazine, in 76 percent of samples; Metolachlor, in 74 percent; Prometon, in 54 percent; Deethylatrazine (a degradation product of Atrazine), in 52 percent; Carbaryl, in 43 percent; and Diazinon and Simazine, in 39 percent each. The six compounds detected at background stations are commonly used herbicides. The two most frequently detected at background stations were Metolachlor, in 50 percent of samples with a median concentration 0.002 µg/L (micrograms per liter) and Atrazine, in 33 percent with a median concentration of 0.006 µg/L. The median concentrations of Metolachlor and Atrazine in samples from SS stations were 0.006 and 0.009 µg/L, respectively.

Ambient Stream Monitoring Network Reconnaissance Study

For the reconnaissance study done in water year 2001, base-flow extremes of continuously monitored water temperature, dissolved oxygen concentration, percent of dissolved oxygen saturation, specific conductance, and pH were measured during periods of less than 1 week. The occurrence and magnitude of diurnal variations that could not be observed during normal station visits, which generally took place between the hours of 8 a.m. and 2 p.m., were documented. The continuous measurements were made by insitu multi-constituent sensors, or monitors, deployed from 3 to 6 days at 24 network stations during the summer months. Values were recorded hourly. Statistical summaries for the periods of record for all stations are shown in figure 11; graphs of hourly values are included in the individual station records.

Reconnaissance stations were selected on the basis of previous occurrences of DO supersaturation (greater than 120 percent of saturation) or DO undersaturation (less than 60 percent of saturation). One background station was included as a control for comparison with other stations and to demonstrate constituent variations in pristine watersheds. Other station types represented are undeveloped LUI (two), agriculture LUI (four), urban LUI (five), WI (eight), and SS (four).

Mean values for percent-of-DO-saturation above 100 percent, for the periods of record, occurred at undeveloped LUI station 01440000 (Flat Brook at Flatbrookville) and WI stations 01398102 (South Branch Raritan River at South Branch) and 01457400 (Musconetcong River at Riegelsville). Additionally, maximum values for percent-of-DO-saturation above 120 percent, for the periods of record, occurred at WI stations 01391500 (Saddle River at Lodi) and 01399780 (Lamington River at Burnt Mills). Mean values for percent-of-DO-saturation below 60 percent, for the periods of record, occurred at urban-LUI stations 01403385 (Bound Brook at Middlesex) and 01463850 (Miry Run at Mercerville), WI station 01402000 (Millstone River at Blackwells Mill), and SS station 01482530 (Major Run at Sharptown). Additionally, minimum percent-of-DO-saturation below 60 percent, for the periods of record, occurred at undeveloped, urban, and agriculture LUI stations 01411400 (Fishing Creek at Rio Grande), 01467359 (North Branch Big Timber Creek at Glendora), and 01482500 (Salem River at Woodstown); WI station 01391500; and SS station 01391550 (Saddle River at Garfield).

SC and pH measurements at some stations exhibited diurnal variation. When respiring, plants and algae release carbon dioxide; it is quickly converted to bicarbonate, affecting SC and pH levels. Diurnal variation and high values of pH occurred at WI stations 01391500, 01398102, and 01399780; and undeveloped LUI station 01440000. Diurnal variation of SC occurred at WI stations 01391500 and 01398102. Non-diurnal, period-long fluctuations of SC caused by specific events or conditions like rainfall, poor mixing, or diminishing stream discharge occurred at WI stations 01395000 (Rahway River at Rahway) and 01399780 and urban LUI stations 01394500 (Rahway River at Springfield) and 01463850.

Ground Water Quality

The United States Geological Survey (USGS) in cooperation with the New Jersey Department of Environmental Protection (NJDEP), operates the Ambient Ground-Water-Quality Network (AGWQN), which is designed to monitor the quality of ground water at or near the water table throughout the State. Shallow ground water is generally the first and most significantly affected part of the ground-water system, and the quality of this water is directly related to human activities at the land surface. The AGWQN is a long-term monitoring network with goals to assess the status of ground-water quality by examining the concentrations of various constituents that can be used as environmental indicators, assess water-quality trends by examining data collected on a 5-year cycle, deter-

mine the effects of land use on shallow ground-water quality, identify threats from nonpoint sources of contamination, and identify emerging or new environmental issues of concern to the public.

The network will consist of 150 shallow ground-water wells distributed throughout New Jersey within three land-use types. Sixty wells are, or will be located, in agricultural areas, 60 in urban/suburban areas, and 30 in undeveloped areas within New Jersey's five watershed management regions (WMRs)–the Passaic, the Raritan, the Upper Delaware, the Lower Delaware, and the Atlantic Coastal. These five WMRs are further divided into 20 watershed-management areas (WMAs). Every year approximately 30 sites are sampled in one or several of the five WMRs. The cycle of sampling all 150 wells will be completed every 5 years. Water year 2001 was the third year of operation of the first 5-year cycle of the AGWQN.

Thirty shallow wells were sampled in water year 2001. Fifteen wells are located in the Upper Delaware WMR, in WMAs 1, 2, and 11 (fig. 12). Four are located in the Raritan WMR, in WMAs 9 and 10. Eleven are located in the Atlantic Coastal WMR, in WMAs 12-14. The wells have 2-inch polyvinyl-chloride casings, range in depth from 10 to 58 feet, and represent 3 land-use types, 8 water-chemistry types, and 13 hydrogeologic units (table 4). Samples from the wells were analyzed for physical characteristics, major ions, nutrients, trace elements, organic constituents, and gross alpha and beta radioactivity. The records of chemical constituents are in the section, "Water-Quality at Miscellaneous Ground-Water Sites."

Distribution, Detection Frequency, and Concentration of Selected Constituents in Filtered Samples from 30 Sites in the AGWQN

Measurements were made of physical characteristics of, and analyses were conducted to determine concentrations of filtered nutrients, common ions, trace elements, and organic carbon in, water samples from 30 wells in the AGWQN. Data on nutrients and trace elements with a high percentage of detection in samples (greater than 75 percent) are summarized in box plots; data on constituents with a lower percentage of detection in samples are summarized in scatter plots. Values reported by the analyzing laboratory as less than the MRL or LRL were included in the box plots but were reported as a value equal to one-half the MRL or LT-MDL; they were excluded from the scatter plots. Estimated values were included in both types of plots.

Similarity in ground-water chemistry among wells located in areas with agriculture, undeveloped, and urban land-use designations is suggested by the data summarized in figures 13 and 14. The median values of most constituents were present in similar concentrations in samples from wells in different areas, with some exceptions. The lowest median concentrations of nitrite plus nitrate and manganese, and the highest median concentration of filtered organic carbon were present in samples from wells in undeveloped areas. The highest median concentrations of aluminum and nickel were present in samples from urban areas. As a result of agricultural practices, the highest median concentrations of hardness and nitrite plus nitrate were present in samples from agriculture areas. Orthophosphorus was detected in only 20 percent of the 30 samples (fig. 18); this frequency was the lowest for the nutrients that were analyzed for.

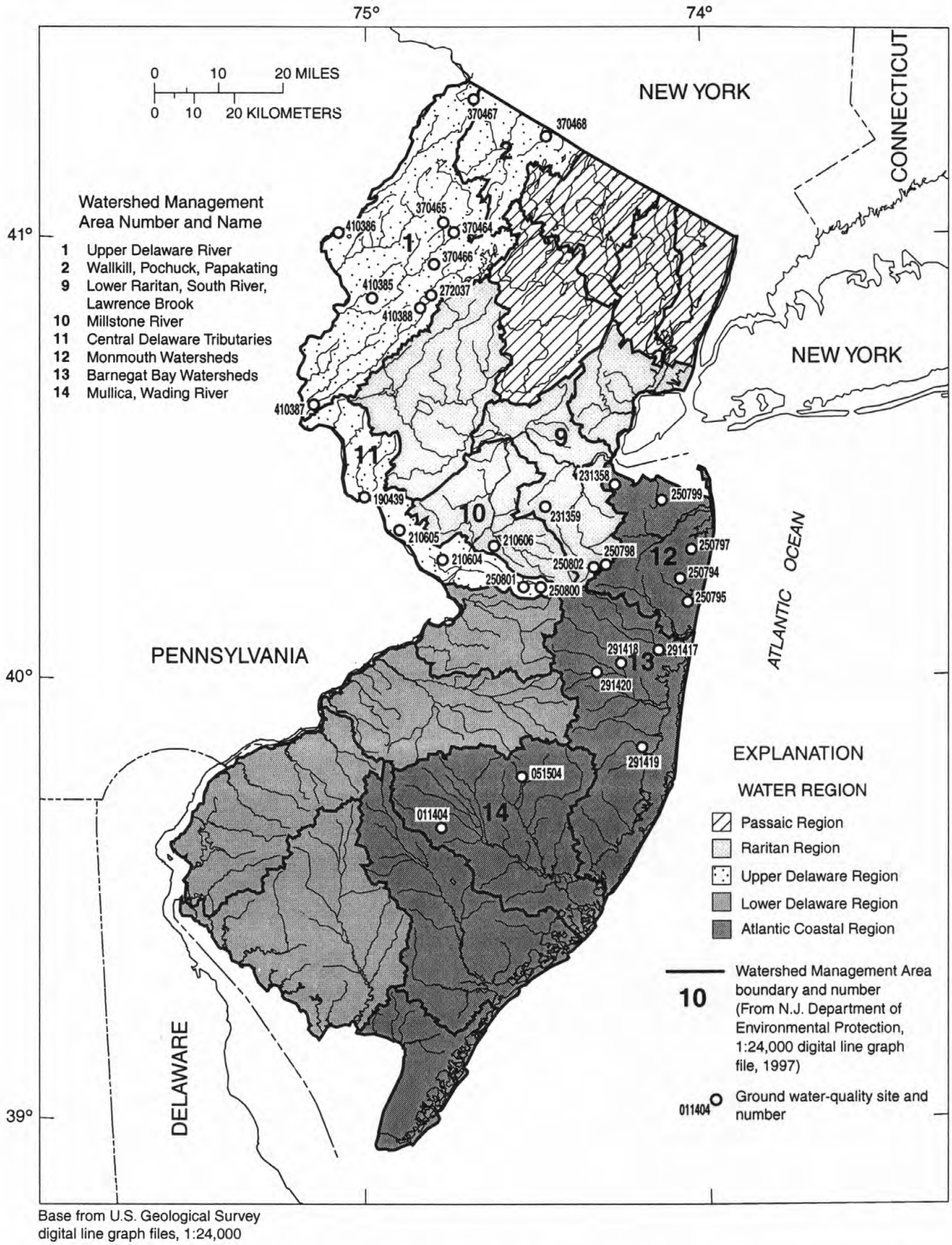
The effect of land use on the proportions of the major ions in water samples from the wells can be observed in the data presented in the trilinear or Piper diagrams (figs. 15 to 17). These diagrams and the "Water Type" column (column 5) in table 4 are grouped by land-use type and the major ion chemistry of the water from similar land-use areas is summarized.

Silver is not included in figure 19 because this trace element was not detected in any of the 30 samples. Mercury was detected in one sample (urban). Lead and zinc were detected in 70 percent of the samples; the same number of detections of lead and zinc occurred in samples from each land-use type.

Concentration and Detection Frequency of Selected Organic Constituents in Filtered Samples from 30 Sites in the AGWQN

Samples from 30 wells were analyzed for 34 VOCs. Only those detected in one or more samples are listed in table 5. (See individual station records for tables listing all the compounds.) Estimated values are included. The most frequently detected VOCs in samples from wells located in all land-use areas were Chloroform and Methyl tert-butyl ether (20 percent each). They were most often detected in samples from urban areas (5 of 12). Cis-1, 2-dichloroethene was detected twice. The remaining compounds in table 5 were detected once. The highest total number of VOC detections (15 detections in 12 samples) occurred in samples from wells in urban areas, followed by undeveloped (5 in 9), and agriculture (2 in 9).

Filtered samples from 30 wells were analyzed for 47 pesticides by use of USGS National Water Quality Laboratory schedule 2001. Only pesticides detected in one or more samples are included in figure 20 or tables 6 and 7. (Refer to "Laboratory Measurements" in the "Introduction" for the complete list of those pesticides and the LRL for each compound.) Estimated values, concentrations to the left of the LRL lines in figure 20, are included. Only 10 pesticide compounds were detected in samples from the 30 wells. The most frequently detected pesticides in samples from wells located in all land-use areas were the herbicides Metolachlor, in 27 percent of samples; Atrazine and Deethylatrazine, in 23 percent each; and Prometon, in 13 percent. Chlorpyrifos and Dieldrin were the only insecticides detected, only once each. Samples from wells in agriculture land-use areas had the highest total number of pesticide detections, 17 in 9 samples. Pesticides were detected 10 times in 12 samples from urban land-use areas, and 5 times in 9 samples from undeveloped areas.



Base from U.S. Geological Survey digital line graph files, 1:24,000

Figure 12. Location of sites in the Ambient Ground-Water-Quality Network, water year 2001.

Table 4. Hydrogeologic unit and land use at 30 wells sampled as part of U.S. Geological Survey-N.J. Department of Environmental Protection (cooperative) Ambient Ground-Water-Quality Network, water year 2001.

[WMA, Watershed Mangement Area; VOCs, volatile organic compounds; mg/L, milligrams per liter; NO2+NO3, nitrite plus nitrate; dis, dissolved; <, less than; ft bls, feet below land surface; 121 CKKD, Kirkwood-Cohansey aquifer system; 111HPPM, Undifferentiated sediments of Holocene, Pleistocene, Pliocene, or Miocene age; 111ALVM, Holocene Alluvium; 112SFDF, Stratified Drift; 125VNCN, Vincenton Formation; 211MRSL, Marshalltown Formation; 211MLRW, Mount Laurel Sand-Wenona Formation; 211RDBK, Red Bank Sand; 211EGLS, Englishtown Formation; 211MRPAU, Magothy-Rartian-Potomac Upper Aquifer System, Upper Aquifer; 227PSSC, Passaic Formation; 231SCKN, Stockton Formation; 350HGFL, High Falls Formation; ---, data not available]

NJ-WRD well number	WMA number	Hydrogeologic unit aquifer code	Predominant land use[1]	Water type (dominant cation-anion)	Dissolved oxygen (mg/L)	Nitrogen NO2+NO3 dissolved (mg/L)	Number of pesticides detected[2]	Number of VOCs detected[2]	Number of trace elements detected[2]	Well depth (ft bls)
370466	1	112SFDF	Agricultural	Calcium-bicarbonate	5.2	10.5	3	1	4	13.8
410387	1	112SFDF	Agricultural	Calcium-bicarbonate	4.5	3.86	3	None	9	12
370468	2	112SFDF	Agricultural	Calcium-bicarbonate	1.1	1.85	2	None	9	13.5
370465	1	112SFDF	Agricultural	Calcium-bicarbonate	5.1	3.67	None	None	6	31.5
210605	11	227PSSC	Agricultural	Calcium-bicarbonate	3.8	E3.02	4	None	8	13.5
250800	11	211MLRW	Agricultural	Magnesium-sulfate	5.2	3.86	1	None	11	18.5
051504	14	121CKKD	Agricultural	Potassium-sulfate	0.3	E.04	None	1	9	10
250801	11	211EGLS	Agricultural	Calcium-sulfate	9.0	E3.78	3	None	7	26
250802	9	211RDBK	Agricultural	Sodium-chloride	4.2	0.95	None	None	8	35.1
370467	1	350HGFL	Undeveloped	Magnesium-bicarbonate	4.4	E.04	None	None	8	50.0
370464	1	112SFDF	Undeveloped	Calcium-bicarbonate	4.2	0.07	None	None	7	38
410386	1	112SFDF	Undeveloped	Calcium-bicarbonate	3.9	0.23	None	None	8	36
410385	1	112SFDF	Undeveloped	Calcium-bicarbonate	4.8	E.03	None	None	4	37
272037	1	112SFDF	Undeveloped	Calcium-bicarbonate	5.5	0.11	1	None	10	57.5
190439	11	111ALVM	Undeveloped	Calcium-bicarbonate	5.3	1.98	None	None	9	39
011404	14	121CKKD	Undeveloped	Magnesium-sulfate	<0.2	8.69	1	None	12	14
231359	9	111HPPM	Undeveloped	Iron-bicarbonate	<0.2	<.05	None	None	11	14.5
231358	12	211MRPAU	Undeveloped	Calcium-sulfate	3.0	0.78	None	4	7	55
410388	1	112SFDF	Urban	Calcium-bicarbonate	6.9	0.9	3	5	8	12
250797	12	125VNCN	Urban	Calcium-bicarbonate	3.6	1.17	None	1	4	38.5
210604	11	231SCKN	Urban	Calcium-bicarbonate	3.6	E.03	1	1	8	19.5
250795	12	121CKKD	Urban	Sodium-chloride	1.6	5.92	None	1	10	27.5
291417	13	121CKKD	Urban	Sodium-chloride	3.6	3.14	None	None	11	18.5
291418	13	121CKKD	Urban	Sodium-chloride	10.0	0.56	3	2	9	24
291419	13	121CKKD	Urban	Sodium-chloride	1.4	2.75	None	1	9	20
210606	10	111HPPM	Urban	Sodium-chloride	5.4	1.65	2	None	12	18
250798	9	211RDBK	Urban	Sodium-chloride	0.6	4.41	None	2	11	22
250799	12	211MRSL	Urban	Calcium-sulfate	1.6	E.03	1	2	8	23.8
250794	12	121CKKD	Urban	Iron-sulfate	1.4	E.03	None	None	10	29.5
291420	13	121CKKD	Urban	---	4.7	3.27	2	None	4	25

[1]Land use based on New Jersey geographic information system (New Jersey Department of Environmental Protection, 1996).

[2]Includes compounds with estimated concentrations, defined as positive detections of a compound, but measured as less than the laboratory's reporting levels.

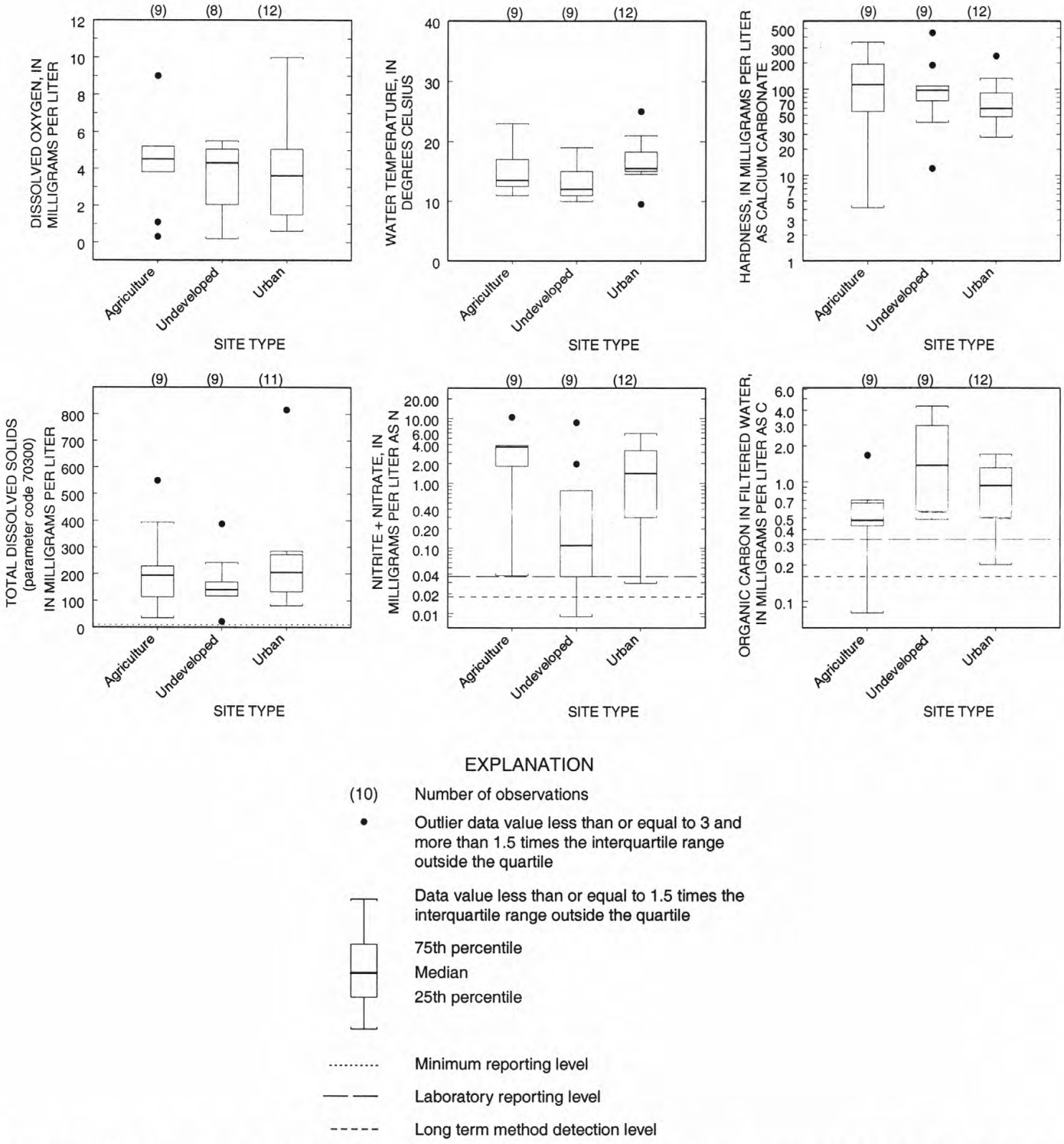


Figure 13. Distribution of physical characteristics of, and constituent concentrations in, samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001. ["Less-than" values reported as equal to one-half the minimum reporting level or long-term method detection level]

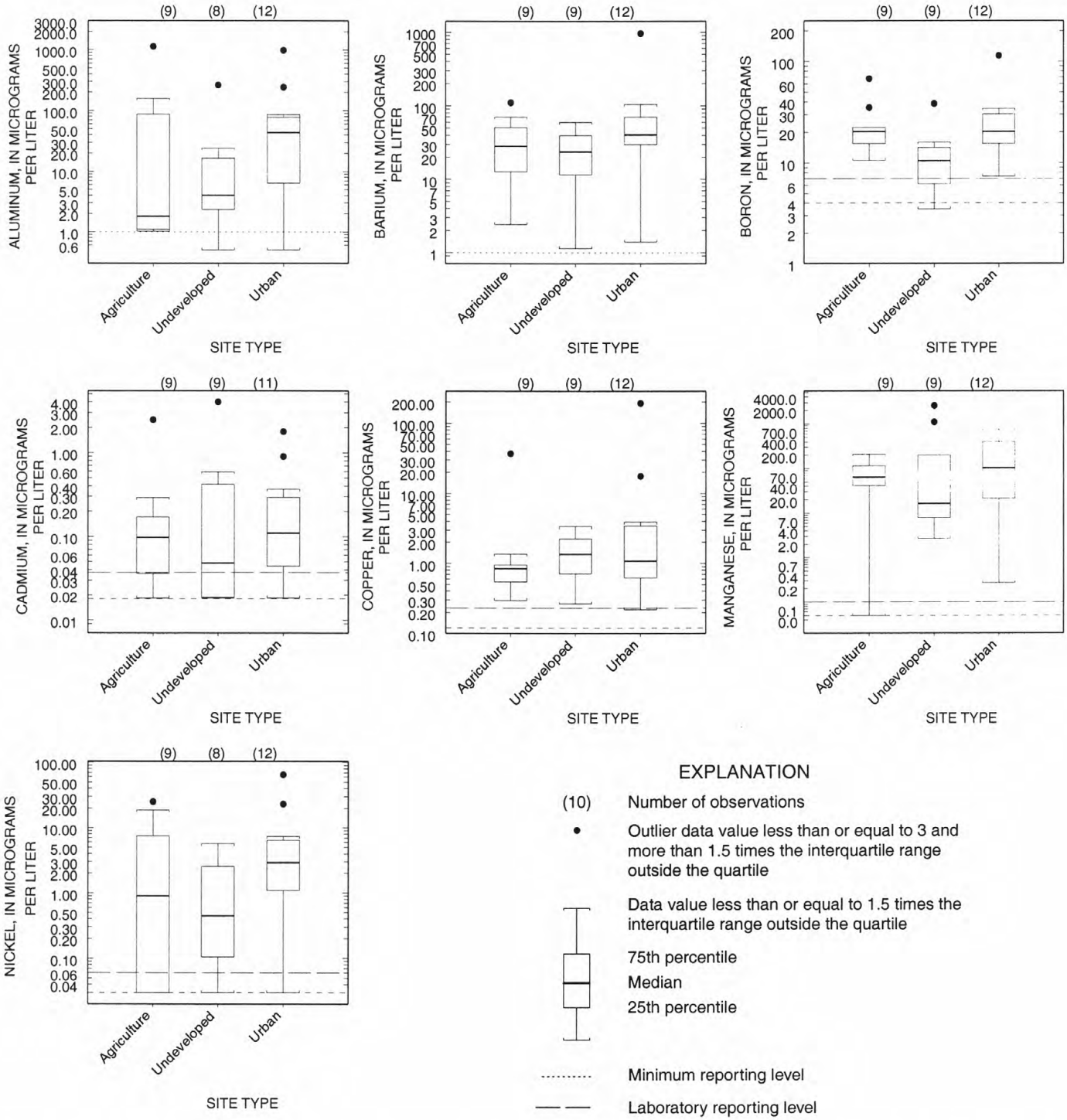


Figure 14. Distribution of selected trace-element concentrations in filtered samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001. ["Less-than" values reported as equal to one-half the minimum reporting level or long-term method detection level]

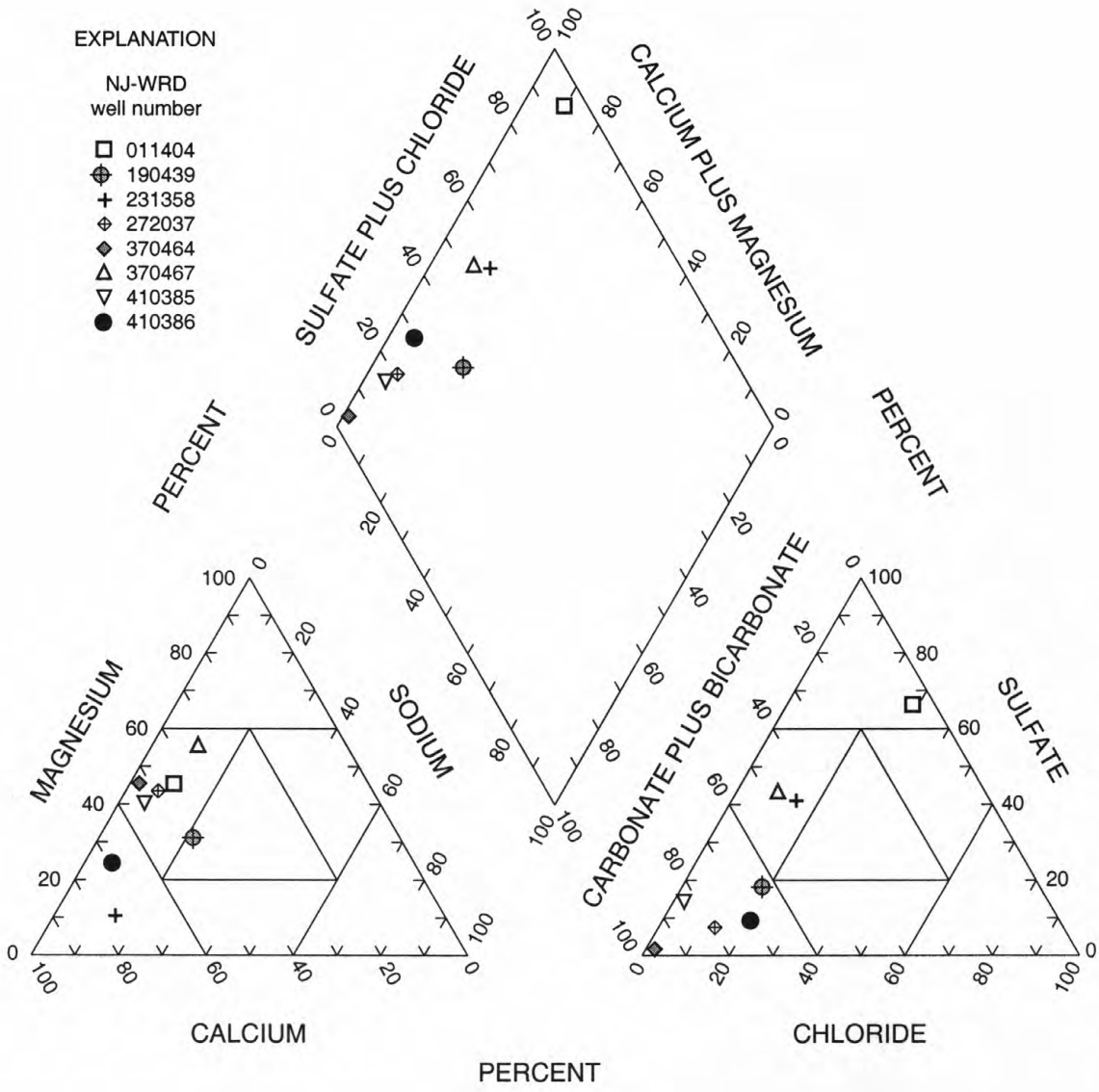


Figure 15. Trilinear diagram showing the distribution of major ions in filtered samples from eight sites in undeveloped land-use areas in the Ambient Ground-Water-Quality Network, water year 2001.
[Excludes site 231359 because data are not available]

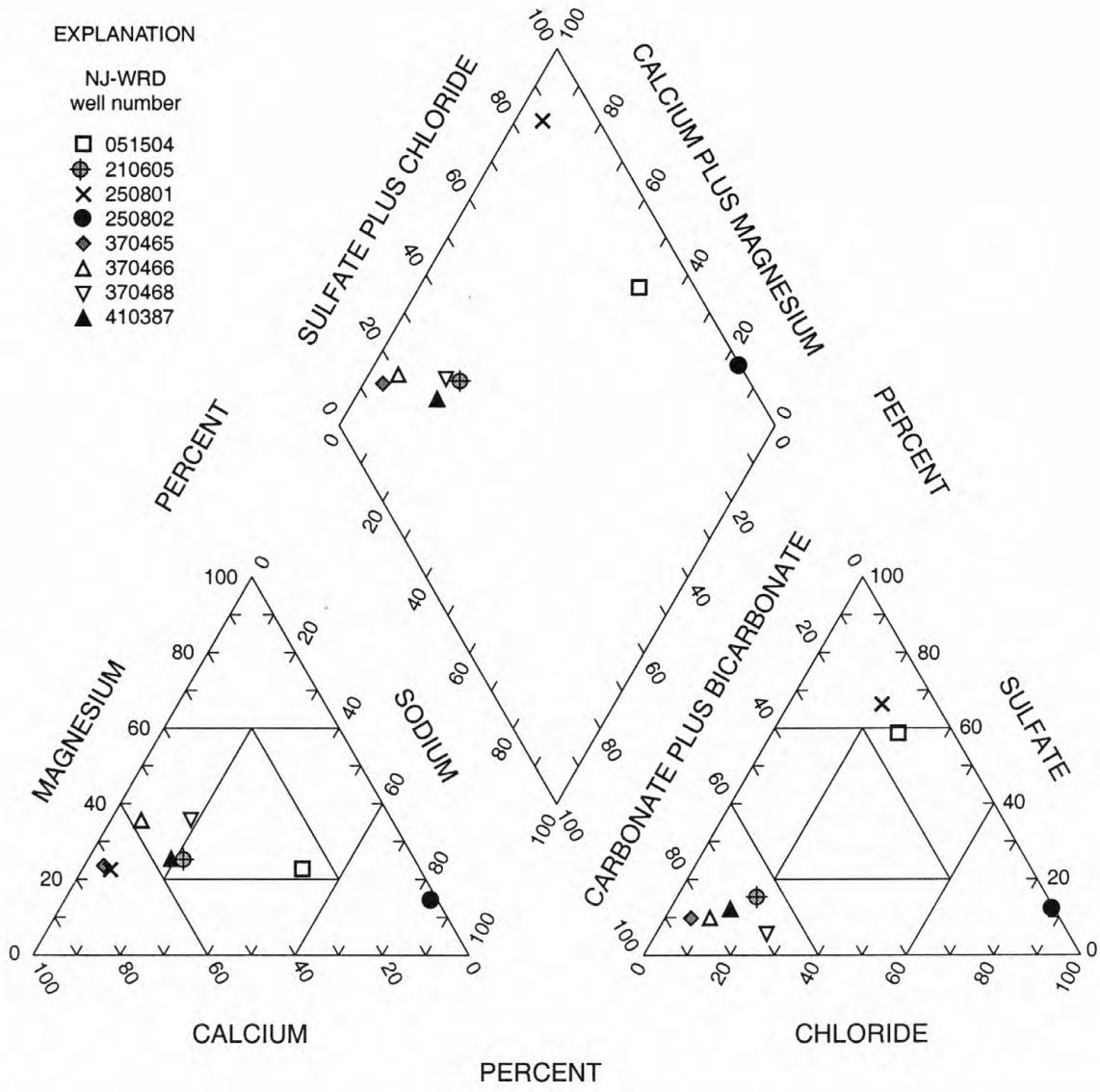


Figure 16. Trilinear diagram showing the distribution of major ions in filtered samples from eight sites in agricultural land-use areas in the Ambient Ground-Water-Quality Network, water year 2001.
[Excludes site 250800 because data are not available]

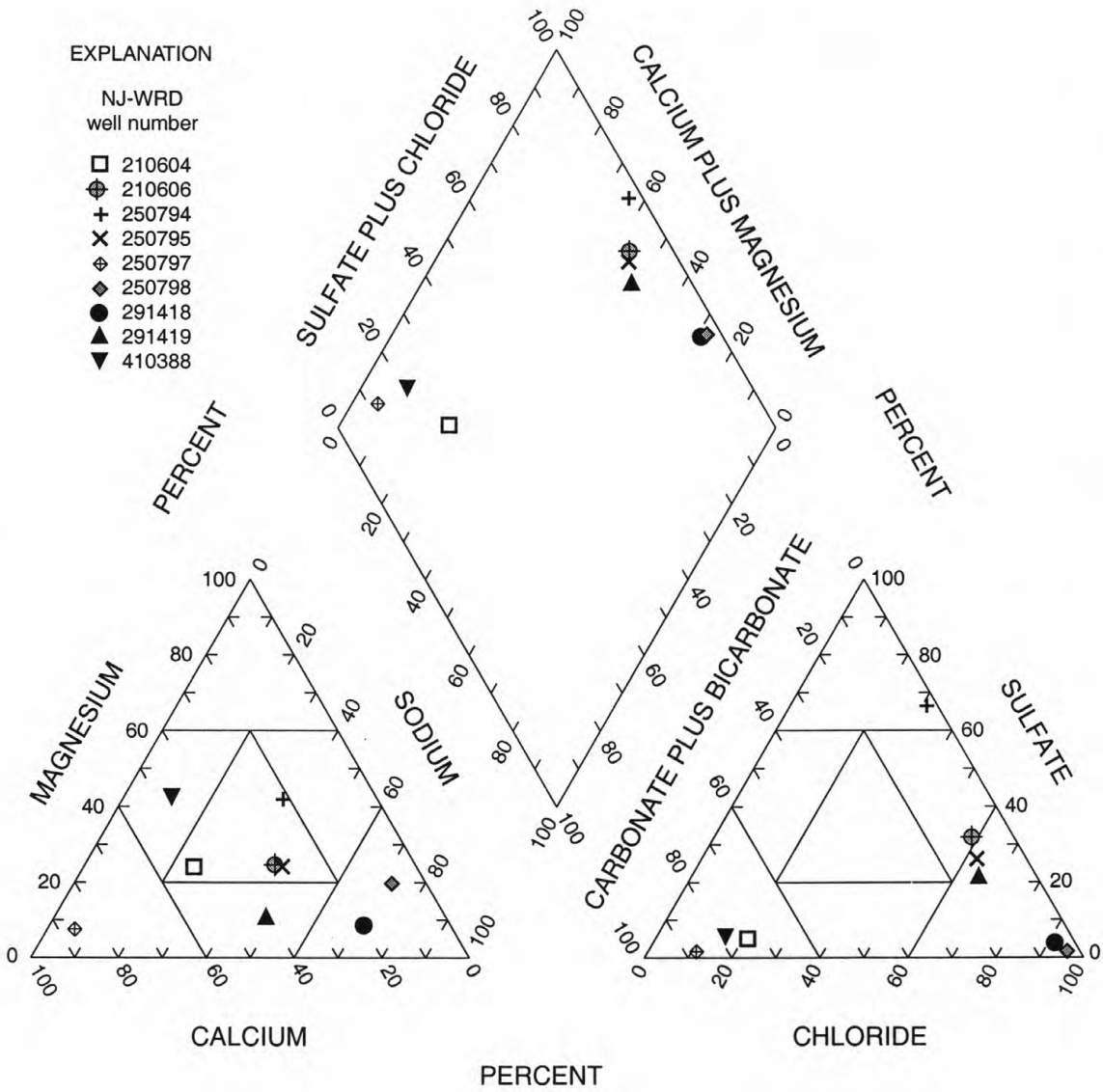


Figure 17. Trilinear diagram showing the distribution of major ions in filtered samples from nine sites in urban land-use areas in the Ambient Ground-Water-Quality Network, water year 2001.

[Excludes sites 250799, 291417, and 291420 because data are not available]

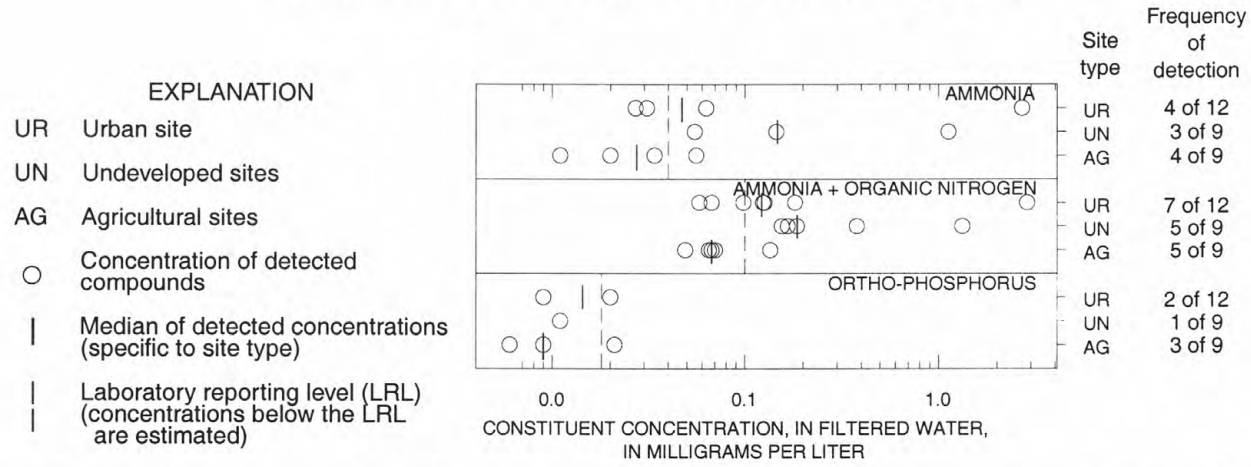


Figure 18. Concentration and detection frequency of nutrients detected in filtered samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001. [Constituents whose values were reported by the laboratory as less than the MRL or LRL are considered to be not detected]

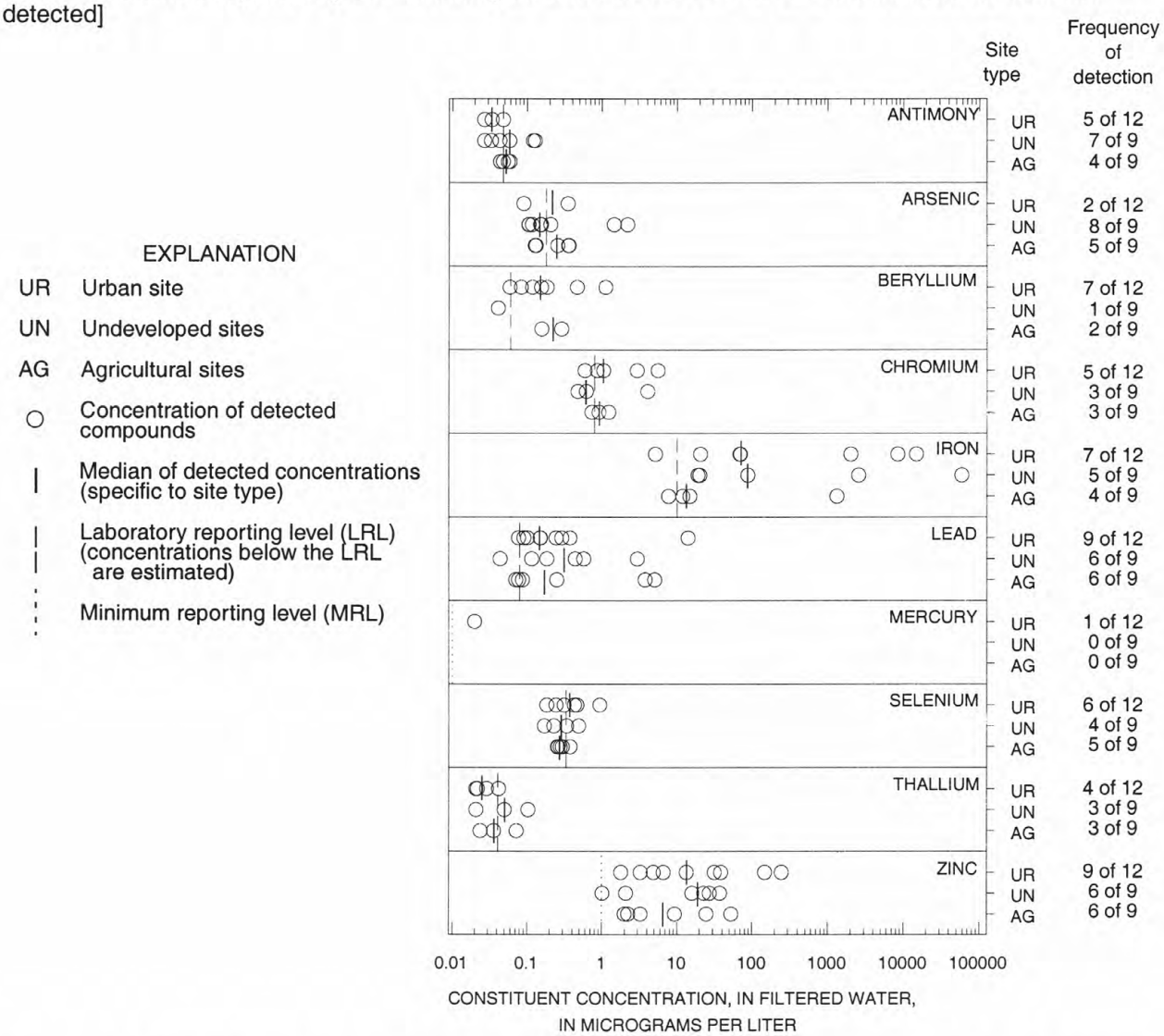


Figure 19. Concentration and detection frequency of trace elements detected in filtered-samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001. [Constituents whose values were reported by the laboratory as less than the MRL or LRL are considered to be not detected]

Table 5. Detection frequency of selected volatile organic compounds in samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001.
[AG, agriculture; UR, urban; UN, undeveloped]

CONSTITUENT	SITE TYPE AG	UR	UN
1,1,1-TRICHLOROETHANE	0 of 9	1 of 12	0 of 9
CHLORODIBROMOMETHANE	0 of 9	0 of 12	1 of 9
CHLOROFORM	0 of 9	5 of 12	1 of 9
Cis-1,2-DICHLOROETHENE	0 of 9	1 of 12	1 of 9
BROMODICHLOROMETHANE	0 of 9	0 of 12	1 of 9
FREON-113	0 of 9	1 of 12	0 of 9
METHYL TERT-BUTYL ETHER	1 of 9	5 of 12	0 of 9
METHYLENECHLORIDE	0 of 9	0 of 12	1 of 9
TETRACHLOROETHYLENE	0 of 9	1 of 12	0 of 9
TOLUENE	1 of 9	0 of 12	0 of 9
TRICHLOROETHYLENE	0 of 9	1 of 12	0 of 9

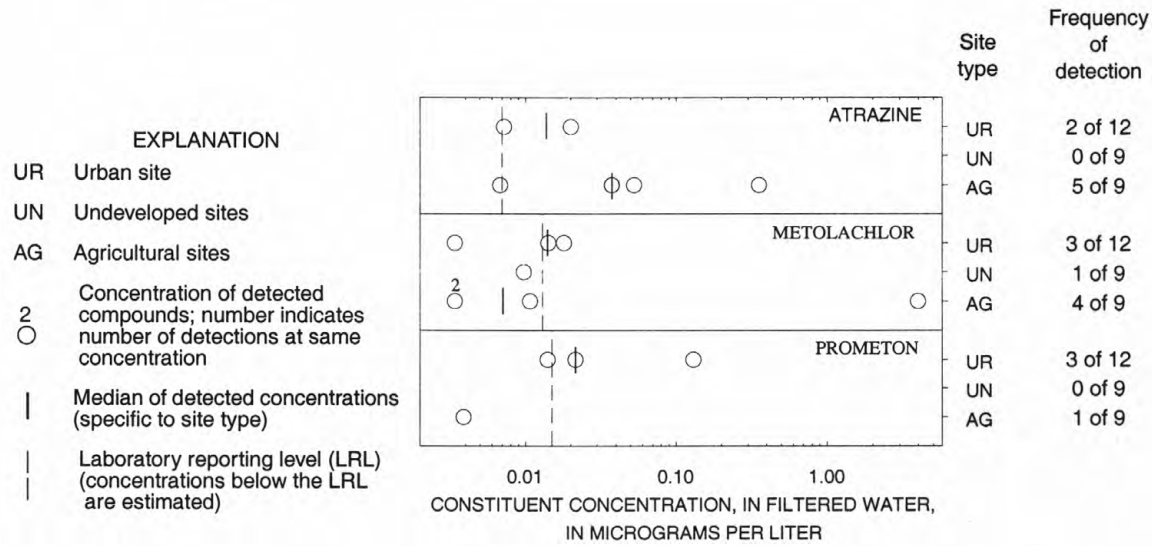


Figure 20. Concentration and detection frequency of pesticides detected in filtered samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001. [Constituents whose values were reported by the laboratory as less than the MRL or LRL are considered to be not detected]

Table 6. Detection frequency of selected pesticides in filtered samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001.
[All values are estimated due to poor recovery or poor precision; AG, agriculture; UR, urban; UN, undeveloped]

CONSTITUENT	SITE TYPE AG	UR	UN
DEETHYLATRAZINE	5 of 9	0 of 9	2 of 12

Table 7. Concentration of pesticides detected only once in filtered samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001.
[AG, agriculture; UR, urban; UN, undeveloped; E, estimated]

CONSTITUENT	CONCENTRATION (micrograms per liter)	SITE TYPE
CHLORPHYRIFOS	E.002	AG
CYANAZINE	0.046	UR
DIELDRIN	0.491	UR
NAPROPAMIDE	0.007	AG
TERBACIL	E.297	UN
TRIFLURALIN	E.006	UN

SPECIAL NETWORKS AND PROGRAMS

The USGS/New Jersey Department of Environmental Protection (NJDEP) cooperative Ambient Stream Monitoring Network (ASMN) and Ambient Ground Water Quality Network (AGWQN) are designed to meet the expanding need for surface and ground-water-quality data in the State of New Jersey. The major objectives of the network are to (1) support the National Environmental Performance Partnership System agreement (a program set up to control long-term environmental planning) and the watershed-management process; (2) to work synergistically with the NJDEP Ambient Biomonitoring Network, and atmospheric, ground-water, and coastal water-quality networks; (3) determine statewide water-quality status and trends; (4) measure water-quality near the downstream end of each Watershed Management Area (WMA); (5) define background water quality in each of the four physiographic provinces of New Jersey; (6) measure nonpoint-source contributions from major landuse areas, atmospheric deposition, and ground-water; (7) facilitate response of state and local water-management officials to emerging or watershed-specific water-quality issues.

The surface-water network consists of 112 stations located in 20 WMA's. These stations are segregated into five distinct types that together are used to define the surface-water-quality in the State. Background stations are located on reaches of streams that have remained relatively unaffected by human activity, to develop a baseline water-quality data base. Data from these sites are used in the development of water-quality standards and initiatives. Watershed Integrator stations are located at the furthest downstream point possible in each WMA to provide information on the combined water-quality effects within each WMA. Land Use Indicator stations are used to monitor the effects of the dominant land use in each WMA and provide data on nonpoint-source loading of contaminants to streams. Statewide Status stations are chosen randomly each year within the 20 WMA's to obtain a statistical basis that can be used to estimate water-quality indicators statewide. Five sites are located on the Delaware Main Stem—the border between New Jersey and Pennsylvania. Watershed Reconnaissance stations are also selected annually on the basis of specific project needs, determined by a committee of USGS and NJDEP personnel.

The surface-water network is sampled in four periods throughout the water year: November 1 to December 31, February 1 to March 31, May 1 to June 30, and August 1 to September 30. Samples for analysis for nutrients, major ions, and biochemical oxygen demand are collected from the entire network each sampling period. Samples for the analysis of water-column volatile organic compounds during February and March, filtered organic pesticides during May and June, and whole-water-recoverable trace elements during August and September are collected at all Statewide Status and Background sites. Samples for the analyses of trace elements and polyaromatic hydrocarbons in streambed sediments are also collected in August and September at 19 Statewide Status sites and 2 Background sites. Samples for the analyses of fecal coliform, E. coli, and enterococcus bacteria were collected synoptically in May, June, July, and August.

The Ambient Ground-Water-Quality Network (AGWQN) is designed to monitor the water quality of shallow wells. The quality of water from wells located at the water table is generally the first and most significantly affected part of the ground water system, and can be directly related to human activity at the land surface. The ground-water network will consist of 150 sites distributed throughout the State of New Jersey within three land-use types. Sixty wells are, or will be located, in agricultural areas, 60 in urban/suburban areas, and 30 in undeveloped areas. These areas are located throughout New Jersey's five Watershed Management Regions (WMR), which are further divided into 20 watershed-management areas (WMA) (fig. 11). The Passaic Region encompasses WMAs 3-6; the Lower Delaware Region, WMAs 17-20; the Raritan Region, WMAs 7-10; the Upper Delaware Region, WMAs 1, 2, and 11; and, the Atlantic Coastal Region, WMAs 12-16. Approximately 30 wells in one or several of the five WMR are sampled each year. Thus, the entire network is sampled over a 5-year cycle. Water year 2001 was the third year of operation of the first five-year cycle. Samples were collected from 30 wells in the Upper Delaware, Raritan, and Atlantic Coastal WMR's and were analyzed for physical characteristics, major ions, nutrients, trace elements, organic constituents, and radioactivity.

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the streamflow representative of undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities. At 10 of these sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the affects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program can be found at http://water.usgs.gov/hbn/.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations were operated in the Mississippi, Columbia, Colorado, and Rio Grande. From 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National

Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program can be found at http://water.usgs.gov/nasqan/.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 225 precipitation chemistry monitoring sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as all data from the individual sites, can be found at http://bqs.usgs.gov/acidrain/.

NOTE.--Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special inter-comparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

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

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

NAWQA study units are divided into three groups that are studied intensively on a rotational basis. Two NAWQA studies are currently run out of the New Jersey District of the USGS. The Long Island-New Jersey Coastal Plain (LINJ) study unit conducted intensive sampling from 1996 through 1998 and is currently in a low-intensity phase. The LINJ study unit is slated to resume intensive sampling starting in 2006. The Delaware River Basin (DELR) study unit conducted intensive sampling from 1999 through 2001, and is currently in a low-intensity phase. The DELR is scheduled to resume intensive sampling in 2009.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semi-annually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program is available through the world wide web at http://water.usgs.gov/nawqa/nawqa_home.html

Long Island-New Jersey Coastal Plain (LINJ) NAWQA fixed stations published in this report (fig.23) are: Raritan River at Queens Bridge, at Bound Brook, NJ (01403300)and Bound Brook at Middlesex, NJ (01403900). The location of ground-water sites that are sampled as part of the low-intensity-phase of the LINJ-NAWQA study are shown in figure 64. Ground-water data collected for the LINJ-NAWQA study are published in this report in the section titled "Water Quality at Miscellaneous Ground-Water Sites."

Delaware River Basin (DELR) NAWQA fixed stations published in this report (fig.24) are: Delaware River at Port Jervis, NY (01434000); Jordan Creek near Schnecksville, PA (01451800); Lehigh River at Glendon, PA (01454700); Delaware River at Trenton, NJ (01463500); Little Neshaminy Creek at Valley Rd. near Neshaminy, PA (01464907); Cooper River at Haddonfield, NJ (01467150); Tulpehocken Creek near Bernville, PA (01470779); French Creek near Phoenixville, PA (01472157); Schuylkill River at Philadelphia, PA (01474500); and Raccoon Creek near Swedesboro, NJ (01477120). The location of ground-water sites that are sampled as part of the DELR NAWQA study are shown in figure 63. Ground-water data collected for the DELR study are published in this record in the section titled "Water Quality at Miscellaneous Ground-Water Sites."

Water-quality data were collected at 23 additional surface-water synoptic sites in the Appalachian Plateau, Valley and Ridge and Coastal Plain Physiographic Provinces as part of the DELR NAWQA study. Data were collected as part of a synoptic survey of nutrients, pesticides, major ions, and dissolved organic carbon. Sampling was conducted from May 7 through May 16. The samplings were repeated from August 20 through August 29. The location of sites that were part

of the synoptic study are shown in figure 59. Synoptic survey data are published in this report in the section titled "Water Quality at Miscellaneous Surface-Water Sites." Continuous water temperature data was also collected at 17 of the synoptic sites. These sites are printed in italics below and shown in figure 60. Equinunk Creek at Equinunk, PA (01427203); *Callicoon Creek at Callicoon, NY (01427500)*; *Calkins Creek 1200 feet above mouth at Milanville, PA (01427702)*; West Branch Lackawaxen River near Aldenville, PA (01428750); *Middle Creek at Hawley, PA (01431250)*; Wallenpaupak Creek at East Sterling, PA (01431600); *Halfway Brook at Barryville, NY (01432180)*; Shohola Creek at Shohola, PA (01432512); Mongaup River at Mongaup, NY (01433510); *Neversink River near Claryville, NY (01435000)*; *Vandermark Creek at mouth at Milford, PA (01438302)*; *Sawkill Creek 2000 feet above mouth at Milford, PA (01438396)*; *Shimers Brook at Millville Road near Montague, NJ (01438399)*; *Raymondskill Creek below Swale Brook near Silver Spring, PA (01438712)*; *Dingmans Creek below Fulmer Falls near Dingmans Ferry, PA (01438890)*; *Toms Creek at Egypt Mills, PA (01439400)*; *Little Bushkill Creek at Bushkill, PA (01439680)*; *Flat Brook near Flatbrookville, NJ (01440000)*; *Brodhead Creek near Mountainhome, PA (01440304)*; *Marshalls Creek near Marshalls Creek, PA (01442550)*; *Lehigh River near Gouldsboro, PA (01447120)*; *Tobyhanna Creek at Warnertown, PA (01447530)*; and North Branch Rancocas Creek at Pemberton, NJ (01467000).

Fish-community surveys were conducted at 7 surface-water indicator sites as part of the DELR NAWQA study. Sampling was conducted from July 10 through July 21. Fish-community data are published in this report in the section titled "Water Quality at Miscellaneous Surface-Water Sites". These sites are (fig. 61): Flat Brook near Flatbrookville, NJ (01440000); Jordan Creek near Schnecksville, PA (01451800); Little Neshaminy Creek at Valley Road near Neshaminy, PA (01464907); Cooper River at Haddonfield, NJ (01467150); Tulpehocken Creek near Bernville, PA (014707790); French Creek near Phoenixville, PA (01472157); and Raccoon Creek near Swedesboro, NJ (01477120).

EXPLANATION OF THE RECORDS

The water-quality records published in this report are for the 2001 water year that began October 1, 2000, and ended September 30, 2001. A calendar of the water year is provided on the inside of the front cover. The records contain surface-water and ground-water-quality data. The locations of the stations where the data were collected are shown in figures 22-24, and 59-64. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. Generally the "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells.

Downstream Order System

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 mainstream station are listed before that station. A station on a tributary that enters between two mainstream 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 with respect to the stream to which it is immediately tributary is indicated by an indention in the "List of Stations" in the front of this report. Each indention represents one rank. This downstream order and system of indention shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both 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 eight-digit number for each station, such as 01396500, which appears just to the left of the station name, includes the two-digit Part number "01" plus the 6-digit downstream-order number "396500". The Part number designates the major drainage basin; for example, Part "01" covers the North Atlantic slope basins. In some areas where all 8-digit numbers are used up, 10-digit station numbers are assigned between the 8-digit numbers.

Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude (fig. 21). The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its

true latitude and longitude will be listed in the LOCATION paragraph of the station description.

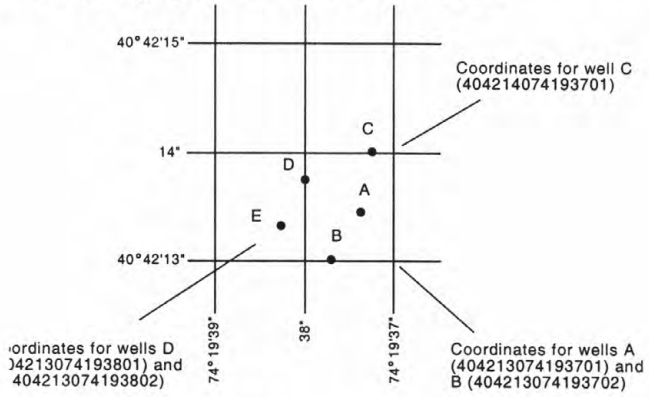


Figure 21.--System for numbering wells and miscellaneous sites (latitude and longitude)

Water Quality Records

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 22-24, and 59-61.

Classification of Records

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

A careful distinction needs to be made between "continuing records", as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values logged at short intervals by electronic data loggers. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently.

Arrangement of Records

Water-quality records from continuing-record and continuous-recording stations are listed in downstream order immediately after the "Introduction." Water-quality records from miscellaneous surface-water and groundwater sites are listed immediately after the continuing-record stations.

On-site Measurements and Sample Collection

Water-quality data must represent the in-situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on-site when the samples are collected. In addition, specific procedures must be used in collecting, treating, and shipping the samples to the laboratory. Procedures for on site measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4; Book 9, Chap. A1-A9. These references are listed under "PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS" section of this report. These methods are consistent with ASTM standards and generally follow ISO standards.

In streams, concentrations of various constituents may vary within the cross section depending on variables such as flow rate, the sources of the constituents, and mixing. Generally, constituents in solid phases are more variable in the cross section than are dissolved constituents. In many cases, samples must integrate several parts of the stream cross section to be representative, especially if loads will be calculated. One sample may be representative of the cross section when the distribution of constituents is homogeneous. All samples are obtained from multiple verticals.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. In some instances, apparent inconsistencies may exist in the data. For example, the orthophosphate-phosphorus concentration may exceed total phosphorus concentration. However, the difference in the inconsistent values normally is smaller than the precision of the analytical techniques. Inconsistencies between pH and carbonate and bicarbonate concentrations are commonly caused by intake or loss of carbon dioxide by the sample before it can be analyzed.

For chemical-quality stations equipped with continuous water-quality monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly recordings beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey, New Jersey District Office whose address is given on the back of the title page of this report.

Continuous-record water-quality data for periods for which the difference between the sensor's response and a known value did not exceed recalibration criteria were considered to be reliable and were not adjusted. Differences between sensor responses documented during cleaning or verification of sensor calibration that exceeded the criteria listed below (recalibration criteria) indicated the need for sensor recalibration and adjustment of the recorded data for the period between

inspections.

Water Temperature	±0.2 °C
Specific Conductance	greater of ±5 uS/cm or 3%
pH	±0.3 units
Dissolved Oxygen	greater of ±0.3 mg/L or 5%
Turbidity	greater of ±2 NTU or 5%

Continuous-record water-quality data for periods for which the differences between the sensor's response and a known value exceeded the criteria listed below (deletion criteria) were considered to be unreliable and were not published.

Water Temperature	±1.5 °C
Specific Conductance	±25 %
pH	±1.5 units
Dissolved Oxygen	greater of ±1.5 mg/L or 25%
Turbidity	±25 %

Water Temperature

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. 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, maximum, minimum and mean temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the New Jersey District Office.

Sediment

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

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 and in predicting long-term sediment-discharge characteristics of the stream.

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

Laboratory Measurements

Samples for biochemical-oxygen demand, fecal coliform, E. coli, enterococcus bacteria, hexavalent chromium, total suspended solids in surface water, and kjeldahl nitrogen in bottom material are analyzed at the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Chlorophyll A samples are analyzed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory. Samples for nutrients are analyzed at the New Jersey Department of Health or at the U.S. Geological Survey National Water-Quality Laboratory (NWQL) in Denver, Colorado. Sediment samples--parameter codes, 80154, 80157, and 80164--are analyzed in the U.S. Geological Survey Laboratories in Iowa City, Iowa. Replicate samples for the ASMN were analyzed by the U.S. Environmental Protection Agency, Region II, Division of Environmental Science and Assessment. All other samples are analyzed in the U.S. Geological Survey laboratory in Denver, Colorado. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the U.S. Geological Survey laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, A4, and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

Analyses of pesticides in surface-water and ground-water samples (schedule 2001)

Selected water samples from ASMN, AGWQN, and NAWQA study sites were analyzed for pesticides by use of NWQL schedule 2001. This table lists the pesticides on the schedule, the unit of measure (micrograms per liter, mg/L), the U.S. Geological Survey National Water Information System parameter code, and the reporting level. **Only pesticides measured at or above the minimum reporting level for one or more samples are listed in the water-quality tables.**

SCHEDULE DESCRIPTION.--Pesticides in filtered water extracted on C-18 Solid Phase Extraction (SPE) cartridge and analyzed by Gas Chromatography/Mass Spectrometry (GC/MS).

SAMPLE REQUIREMENTS.--1 liter of water filtered through 0.7-micron glass-fiber depth filter, chilled at 4° C (packed in ice).

CONTAINER REQUIREMENTS.--1 liter baked amber glass bottle (GCC) from NWQL.

PCODE.--The USGS/EPA parameter code.

COMMON NAME.--Common or trade name(s) for constituent

LRL.--Laboratory reporting level

PCode	Common Name	LRL (mg/L)
82660	2,6-Diethylaniline	0.0017
49260	Acetochlor	0.0041
46342	Alachlor	0.0024
34253	alpha-HCH	0.0046
39632	Atrazine	0.007
82673	Benfluralin	0.010
04028	Butylate	0.002
82680	Carbaryl	0.041
82674	Carbofuran	0.020
38933	Chlorpyrifos	0.005
04041	Cyanazine	0.018
82682	Dacthal	0.0030
04040	Deethylatrazine	0.006
39572	Diazinon	0.005
39381	Dieldrin	0.0048
82677	Disulfoton	0.021
82668	EPTC	0.0020
82663	Ethalfluralin	0.009
82672	Ethoprophos	0.005
04095	Fonofos	0.0027
39341	Lindane	0.0040
82666	Linuron	0.035
39532	Malathion	0.027
82686	Azinphos-methyl	0.05
82667	Parathion-methyl	0.007
39415	Metolachlor	0.013
82630	Metribuzin	0.006
82671	Molinate	0.0016
82684	Napropamide	0.007
34653	p,p¢-DDE	0.0025
39542	Parathion	0.007
82669	Pebulate	0.0016
82683	Pendimethalin	0.010
82687	cis-Permethrin	0.006
82664	Phorate	0.011
04037	Prometon	0.015
82676	Propyzamide	0.0041
04024	Propachlor	0.010
82679	Propanil	0.011
82685	Propargite	0.023
04035	Simazine	0.011
82670	Tebuthiuron	0.016
82665	Terbacil	0.034
82675	Terbufos	0.017
04022	Terbuthylazine	0.1
82681	Thiobencarb	0.0048
82678	Triallate	0.0023
82661	Trifluralin	0.009

Analyses of volatile organic compounds in surface-water and ground-water samples (schedule 2020/2021)

Selected samples from NAWQA study sites were analyzed for volatile organic compounds (VOCs) by use of NWQL schedules 2020/2021. The NWQL created this schedule to provide a method for accurate determination of VOCs in water in the nanogram per liter range. The method described in USGS Open-File Report 97-829 (Connor and others) is similar to USEPA method 524-2 (Mund, 1995) and the method described by Rose and Schroeder (1995). Minor improvements to instrument operating conditions include the following: additional compounds, quantitation ions that are different from those recommended in USEPA Method 524.2 because of interferences from the additional compounds, and a data reporting strategy for measuring detected compounds extrapolated at less than the lowest calibration standard or measured at less than the reporting limit. The laboratory reporting limit (LRL) is introduced as a statistically defined reporting limit designed to limit false positives and false negatives to less than 1 percent.

This table lists the volatile organic compounds on the schedule, the unit of measure (micrograms per liter (mg/L), the U.S. Geological Survey National Water Information System parameter code, the Union of Pure and Applied Chemistry (IUPAC) compound name, and the National Water Quality Laboratory compound name. Positive detections measured at less than LRL but greater than or equal to the long-term method-detection limit are reported as estimated concentrations (E) to alert the data user to decreased confidence in accurate quantitation. Values for analytes in the 2020/2021 schedules are preceded by an "E" in the following situations:

1. When the calculated concentration is less than the lowest calibration standard. The analyte meets all identification criteria to be positively identified, but the amount detected is below where it can be reliably quantified.

2. If a sample is diluted for any reason. The method reporting level is multiplied by the dilution factor to obtain the adjusted method reporting level. Values below the lowest calibration standard, multiplied by the dilution factor are qualified with an "E". For example, a value of 0.19 in a 1:2 dilution is reported as E0.1.

3. If the set spike has recoveries out of the specified range (60-140%).

4. If the analyte is also detected in the set blank. If the value in the sample is less than five times the blank value and greater than the blank value plus the long term method detection limit, the value is preceded by an "E" to indicate that the analyte is positively identified but not positively quantified because the analyte was also detected in the blank.

Only VOCs measured at or above the minimum reporting level for one or more samples are listed in the water-quality tables.

SCHEDULE DESCRIPTION.--The sample water is actively purged with helium to extract the volatile organic compounds. The volatile compounds are trapped onto a sorbent trap, thermally desorbed, separated by a megabore gas chromatographic capillary column, and finally determined by a full scan quadro-

pole mass spectrometer. Compound identification is confirmed by the gas chromatographic retention time and by the resultant mass spectrum, typically identified by three unique ions.

SAMPLE REQUIREMENTS.--Water collected in vials placed in stainless steel VOC sampler. Hydrochloric acid is used for preservation. Chilled at 4°C (packed in ice).

CONTAINER REQUIREMENTS.--40 milliliter baked amber septum glass vial, from OCALA Quality Water Service Unit.

PCODE.--The EPA/USGS parameter code

COMPOUND NAME.--IUPAC nomenclature.

LRL.--Laboratory reporting level.

PCode	Compound Name	LRL (mg/L)
77041	Carbon disulfide	0.07
34506	1,1,1-Trichloroethane	0.032
34516	1,1,2,2-Tetrachloroethane	0.09
34511	1,1,2-Trichloroethane	0.06
34496	1,1-Dichloroethane	0.035
34501	1,1-Dichloroethylene	0.04
77168	1,1-Dichloropropene	0.026
77443	1,2,3-Trichloropropane	0.16
77651	1,2-Dibromoethane	0.036
32103	1,2-Dichloroethane	0.13
34541	1,2-Dichloropropane	0.029
34546	trans-1,2-Dichloroethylene	0.032
77170	2,2-Dichloropropane	0.05
73547	trans-1,4-Dichloro-2-butene	0.7
77103	2-Hexanone	0.7
81552	Acetone	7.0
34215	Acrylonitrile	1.2
77613	1,2,3-Trichlorobenzene	0.27
77221	1,2,3-Trimethylbenzene	0.12
34551	1,2,4-Trichlorobenzene	0.19
77222	1,2,4-Trimethylbenzene	0.056
77226	1,3,5-Trimethylbenzene	0.044
34566	1,3-Dichlorobenzene	0.030
34571	1,4-Dichlorobenzene	0.050
77223	Isopropylbenzene	0.032
77342	Butylbenzene	0.19
77224	n-Propylbenzene	0.042
34536	1,2-Dichlorobenzene	0.048
77350	sec-Butylbenzene	0.032
77353	tert-Butylbenzene	0.06
34030	Benzene	0.021
81555	Bromobenzene	0.036
50002	Bromoethene	0.10
32104	Bromoform	0.06
32102	Tetrachloromethane	0.06
34301	Chlorobenzene	0.028
32105	Dibromochloromethane	0.18
34311	Chloroethane	0.12
32106	Chloroform	0.024
77093	cis-1,2-Dichloroethylene	0.038
34704	cis-1,3-Dichloropropene	0.09
82625	1,2-Dibromo-3-chloropropane	0.21
30217	Dibromomethane	0.050
32101	Bromodichloromethane	0.048
34668	Dichlorodifluoromethane	0.27
81577	Diisopropyl ether	0.10
77562	1,1,1,2-Tetrachloroethane	0.030
34396	Hexachloroethane	0.19
81576	Diethyl ether	0.17
50004	Ethyl tert-butyl ether	0.054
50005	tert-Pentyl methyl ether	0.11
34371	Ethylbenzene	0.030
77652	1,1,2-Trichlorotrifluoroethane	0.06
81607	Tetrahydrofuran	2.2
39702	Hexachlorobutadiene	0.14
50000	1,2,3,5-Tetramethylbenzene	0.20
73570	Ethyl methacrylate	0.18
81597	Methyl methacry late	0.35
81593	Methyl acrylonitrile	0.6
77297	Bromochloromethane	0.044
49991	Methyl acrylate	1.4
77424	Methyl iodide	0.12
78032	tert-Butyl methyl ether	0.17
34413	Bromomethane	0.26
34418	Chloromethane	0.25
34423	Dichloromethane	0.16
81595	2-Butanone	1.6
78133	4-Methyl-2-pentanone	0.37
85795	m- and p-Xylene	0.06
34696	Naphthalene	0.25
77275	2-Chlorotoluene	0.026
77135	o-Xylene	0.038
77356	4-Isopropyl-1-methylbenzene	0.07
49999	1,2,3,4-Tetramethylbenzene	0.23
77173	1,3-Dichloropropane	0.12
78109	3-Chloropropene	0.07
77128	Styrene	0.042
34475	Tetrachloroethylene	0.10
77220	o-Ethyl toluene	0.06
77277	4-Chlorotoluene	0.06
34010	Toluene	0.05
34699	trans-1,3-Dichloropropene	0.09
39180	Trichloroethylene	0.038
34488	Trichlorofluoromethane	0.09
39175	Vinyl chloride	0.11

Analyses of pesticides in ground-water samples (schedule 2060)

Selected water samples from the DELR-NAWQA study sites were analyzed for pesticides by use of NQWL schedule 2060. This table lists the pesticides analyzed for by the schedule, the unit of measure (micrograms per liter, mg/L), the U.S. Geological Survey National Water Information System parameter code, and the reporting level. **Only pesticides measured at or above the minimum reporting level for one or more samples are listed in the water-quality tables.**

SCHEDULE DESCRIPTION.--Determination of pesticides in filtered water by Graphitized Carbon-based Solid Phase Extraction (SPE) and analyzed by High Performance Liquid Chromatography/Mass Spectrometry (HPLC/MS).

SAMPLE REQUIREMENTS.--1 liter of water filtered through 0.7-micron glass-fiber depth filter, chilled at 4 C (packed in ice).

CONTAINER REQUIRMENTS.--1 liter baked amber glass bottle (GCC) from NWQL.

PCODE.--The EPA/USGS parameter code.

COMMON NAME.--Common or trade name(s) for constituent.

MRL.--Minimum reporting level.

PCode	Common Name	MRL (mg/L)
39732	2,4-D	0.021
50470	2,4-D methyl ester	0.0086
38746	2,4-DB	0.016
50355	2-Hydroxyatrazine	.008
61692	3(4-Chlorophenyl)-1-methylurea	0.024
49308	3-Hydroxycarbofuran	0.0058
50295	3-Ketocarbofuran	1.5
49315	Acifluoren	0.0066
49312	Aldicarb	0.04
49313	Aldicarb sulfone	0.02
49314	Aldicarb sulfoxide	0.0082
39632	Atrazine	0.009
50299	Bendiocarb	0.025
50300	Benomyl	0.0038
61693	Bensulfuron-methyl	0.015
38711	Bentazon	0.011
04029	Bromacil	0.033
49311	Bromoxynil	0.017
5030	Caffeine	0.0096
49310	Carbaryl	0.028
49309	Carbofuran	0.0056
61188	Chloramben methyl ester	0.018
50306	Chlorimuron-ethyl	0.0096
49306	Chlorothalonil	0.035
49305	Clopyralid	0.013
04031	Cycloate	0.013
49304	Dacthal monoacid	0.011
04040	Deethylatrazine	0.028
04039	Deethyldeisopropylatrazine	0.01
04038	Deisopropylatrazine	0.044
38442	Dicamba	0.012
49302	Dichloroprop	0.013
49301	Dinoseb	0.012
04033	Diphenamid	0.026
49300	Diuron	0.015
49297	Fenuron	0.031
61694	Flumetsulam	0.011
38811	Fluometuron	0.031
50356	Imazaquin	0.016
50407	Imazethapyr	0.017
61695	Imidacloprid	0.0068
38478	Linuron	0.014
38482	MCPA	0.016
38487	MCPB	0.015
50359	Metalaxyl	0.02
38501	Methiocarb	0.008
49296	Methomyl	0.0044
61696	Methomyl oxime	0.011
61697	Metsulfuron-methyl	0.025
49294	Neburon	0.012
50364	Nicosulfuron	0.013
49293	Norflurazon	0.016
49292	Oryzalin	0.017
38866	Oxamyl	0.012
50410	Oxamyl oxime	0.013
49291	Picloram	0.019
49236	Propham	0.0096
50471	Propiconazole	0.021
38538	Propoxur	0.008
38548	Siduron	0.016
50337	Sulfometuron-methyl	0.0088
82670	Tebuthiuron	.0062
04032	Terbacil	0.0098
61159	Tribenuron-methyl	0.0088
49235	Triclopyr	0.022

Analyses of pesticide metabolites in ground-water samples (schedule LCAA)

Ground-water samples from Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA) study sites were analyzed for pesticide metabolites by use of NWQL schedule LCAA (Hostetler and Thurman, 1999).

SCHEDULE DESCRIPTION.--Determination of pesticide metabolites in filtered water analyzed by High Performance Liquid Chromatograph-Diode Array Detection and High Performance Liquid Chromatograph/Mass Spectrometry.

SAMPLE REQUIREMENTS.--500 milliliter (ml) of water filtered through a 0.7-micron glass-fiber depth filter, chilled at 4 C (packed on ice).

CONTAINER REQUIREMENTS.--Four 125 baked amber glass bottle (GCC) from Ocala Quality Water Service Unit.

PCODE.--The USGS/EPA parameter code.

MRL.--Minimum reporting level.

PCode	Pesticide Metabolite (OA, Oxanilic Acid; ESA, Ethanesulfonic Acid)	MRL (ug/L)	Metabolite parent compound (PCode)
61030	Acetochlor OA	.05	Acetochlor (49260)
61029	Acetochlor ESA	.05	Acetochlor (49260)

PCode	Pesticide Metabolite (OA, Oxanilic Acid; ESA, Ethanesulfonic Acid)	MRL (ug/L)	Metabolite parent compound (PCode)
61031	Alachlor OA	.05	Alachlor (46342)
50009	Alachlor ESA	.05	Alachlor (46342)
62482	Dimethenamid OA	.05	Dimethenamid (61588)
61951	Dimethenamid ESA	.05	Dimethenamid (61588)
62483	Flufenacet OA	.05	Flufenacet (62481)
61952	Flufenacet ESA	.05	Flufenacet (62481)
61044	Metolachlor OA	.05	Metolachlor (39415)
61043	Metolachlor ESA	.05	Metolachlor (39415)

Polyaromatic hydrocarbons in stream bottom material

Stream bed sediments collected at stations in the Ambient Stream Monitoring Network were analyzed for polyaromatic hydrocarbons during the months of August and September. Full parameter names are listed in the table below; abbreviated parameter names are used in the station records.

PCode	Compound Name
39519	Total Polychlorinated Byphenyls
49429	Acenaphthene
49428	Acenaphthylene
49434	Anthracene
49436	Benzo(a)anthracene
49458	Benzo(b)fluoranthene
49397	Benzo(k)fluoranthene
49408	Benzo(g,h,i)perylene
49389	Benzo(a)pyrene
49450	Chrysene
49451	p-Cresol
49411	4h-Cyclopenta(d,e,f)phenanthrene
49461	Dibenzo(a,h)anthracene
49403	1, 2-Dimethylnaphthalene
49404	1, 6-Dimethylnaphthalene
49406	2, 6-Dimethylnaphthalene
49948	2-Ethylnaphthalene
49399	9h-Fluorene
49466	Fluoranthene
49400	Isophorone
49435	2-methylanthracene
49398	1-Methyl-9h-fluorene
49390	1-Methylindeno(1,2,3-c,d)pyrene
49410	1-Methylphenanthrene
49388	1-Methylpyrene
49402	Naphthalene
49409	Phenanthrene
49393	Phenanthridine
49387	Pyrene
49405	2, 3, 6-Trimethylnaphthalene

Methylene blue active substances

MBAS determinations made from January 1, 1970 through August 29, 1993, at the National Water Quality Laboratory in Denver (Analyzing Agency Code 80020) are positively biased. These data can be corrected by using the following equation, if concentrations of dissolved nitrate plus nitrite, as nitrogen, and dissolved chloride, determined concurrently with the MBAS data, are applied:

$$MBASCOR = M - 0.0088N - 0.00019C$$

where:

MBASCOR = corrected MBAS concentration, in mg/L;
M = reported MBAS concentration, in mg/L;
N = dissolved nitrate plus nitrite, as nitrogen, concentration, in mg/L; and
C = dissolved chloride concentration, in mg/L.

The detection limit of the new method is 0.02 mg/L, whereas the detection limit for the old method was 0.01 mg/L. A detection limit of 0.02 mg/L should be used with corrected MBAS data from January 1, 1970 through August 29, 1993.

Analysis of acid neutralizing capacity (ANC)

Prior to October 1, 1996, ANC was called ALKALINITY, LAB.

Analysis of inorganic carbon in bottom material

Prior to October 1996, the analysis of total inorganic carbon in bottom material by the National Water Quality Laboratory (NWQL) was subject to a systematic positive bias of 3 percent. That is, results calculated before this date were found to be about 3 percent higher than results calculated correctly with a new computer system. The average agreement between analysis results for duplicate samples (a measure of the NWQL's precision for this analysis) is 98 percent. The 3-percent bias, therefore, approximates the precision of the analytical method. The overall effect on historical data from New Jersey is minor. Ninety-three percent of the reported concentrations for this analysis were less than 1.7 grams per kilogram; values of this magnitude are unaffected because the difference is obscured by rounding prior to publication of the analysis results. The magnitude of the error is such that the 3 percent difference, effective October 1, 1996, is indiscernible in the relatively small data set for any station.

Data Presentation

Precision varies for different analytical methods used to determine the same constituent. The presence of trailing zeros after the decimal in values printed in this report does not necessarily indicate that the method used for the determination is as precise as the level implied by the rightmost zero.

The column headings for water-quality constituents include 5-digit EPA Storet parameter codes. The codes are included to permit accurate cross reference to data from other data bases using the same code system.

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

Station manuscript

The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the station with respect to the cultural and physical features in the vicinity and with respect to the reference place.

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

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

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

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

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made in the U.S. Geological Survey's distributed data system, NWIS, and subsequently to its web-based National data system, NWISWeb [http://water.usgs.gov/nwis/nwis]. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure the most recent updates. Updates to NWISWeb are currently made on an annual basis.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites which are not at a surface-water daily record station are published in separate tables following the continuous record data. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark codes

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

PRINTED OUTPUT	REMARK
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified but not quantified.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.
V	Analyte was detected in both the environmental sample and the associated blanks.

Quality-control data

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this District are described in the following sec-

tion. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

BLANK SAMPLES.--Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this District are:

Source solution blank - a blank solution that is transferred to a sample bottle in an area of the office laboratory with an atmosphere that is relatively clean and protected with respect to target analytes.

Ambient blank - a blank solution that is put in the same type of bottle used for an environmental sample, kept with the set of sample bottles before sample collection, and opened at the site and exposed to the ambient conditions.

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

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

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

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

Pump blank - a blank solution that is processed through the same pump-and-tubing system used for an environmental sample.

Standpipe blank - a blank solution that is poured from the containment vessel (standpipe) before the pump is inserted to obtain the pump blank.

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

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

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

Cannister blank - a blank solution that is taken directly from a stainless steel containment vessel just before the VOC sampler is submerged to obtain a field blank sample.

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

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

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

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

Split sample - a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

SPIKE SAMPLES.--Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the

extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

Concurrent sample - a type of spike sample that is collected at the same time with the same sampling and compositing devices then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

Split sample - a type of spike sample in which a sample is split into subsamples contemporaneous in time and space then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

Dissolved Trace-Element Concentrations

Note.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (mg/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's and 100's of nanograms per liter (ng/L). Data above the mg/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols in water year 1994. Full implementation of the protocols took place during the 1995 water year.

CURRENT WATER RESOURCES PROJECTS IN NEW JERSEY

The Geological Survey is currently involved in a number of hydrologic investigations in the State of New Jersey. The following is a list of these investigations. Results are published at the conclusion of short-term projects or periodically in the case of long-term projects. Hydrologic data from these projects are entered into the NWIS data base.

Delaware River Basin National Water Quality Assessment

Development of Database and Models to Support Source Water Assessment Program

Distribution of MTBE and Related Volatile Organic Compounds in Lakes in Northern NJ and Investigation of Lake-Well Interactions

Distribution of Radium and Related Radionuclides in Coastal-Plain Aquifers

Effects of Land Use, Septic Systems, and Sewering on the Distribution of Nitrate in Shallow Ground Water

EPA Technical Assistance Program

Estimation of the Relative Importance of Nonpoint Source Loads in the Raritan River Basin

Flood Characteristics of New Jersey Streams

Flow Characteristics and Basis for Development of Ecological Goals for New Jersey Streams

Geohydrology of the Naval Air Warfare Center, West Trenton, New Jersey

Ground-Water Data Collection Network

Ground-Water Levels and Chloride Concentrations in Major Aquifers of the Coastal Plain

Ground-Water Supply Availability in Southern Ocean County

Head of Tide Sampling Program for the New Jersey Harbour Toxic Contaminant Assessment Reduction Program

High-Flow Water Quality Management Objectives

Hydrology of Surficial Aquifer Systems

Hydrogeologic Support to McGuire Air Force Base, Burlington County, New Jersey

Hydrogeologic Support to Picatinny Arsenal, Morris County, New Jersey

Investigation of Contaminant Transport in a Fractured Rock Aquifer, Rutgers University, Busch Campus

Investigation of Ground-Water/Surface-Water Interaction in the Northern Passaic River Valley, New Jersey

Investigation of hydrogeology and Volatile Organic Compound Contamination in Fair Lawn, New Jersey

Investigation of Potential Threats to Water Supply from the Potomac-Raritan-Magothy Aquifer in Salem and Western Gloucester Counties, New Jersey

Lower Delaware Non-Point Source

Low Flow Characteristics of New Jersey Streams

Modeling and Experimental Investigation of Hydrocarbon Transport and Biodegradation in the Unsaturated Zone

Movement of Chromium in the Ground Water of Pennsauken Township, Camden County

New Jersey Drought Monitoring System

Long Island-New Jersey National Water Quality Assessment

New Jersey Tide Telemetry System

Pascack Brook Flood Warning System

Passaic Flood Warning System

Program to Maintain and Update Ground-Water Models to Evaluate Continued Water-Supply Development

Quality of Water Data Collection Network

Rahway Flood Warning System

CURRENT WATER RESOURCES PROJECTS IN NEW JERSEY--Continued

Refinement of a Data Model for Watershed Water Transfer Analysis

Small Watershed Flood Data Collection

Somerset County Flood-Information System

Surface Water Data Collection Network

Vulnerability Assessment of the Kirkwood-Cohansey Aquifer System to Radium, Mercury, and Trace Metals

Vulnerability of Public Supply Wells and Surface-Water Intakes in New Jersey for Chemicals of Concern (Source Water Assessment Program)

Water-Quality Characteristics of Upper-Delaware Watershed

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ACCESS TO USGS WATER DATA

The U.S. Geological Survey provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at

http://water.usgs.gov

Some water-quality and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on magnetic tape or 3-1/2 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices (see address on the back of the title page).

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Terms such as algae, water level, precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units on the inside of the back cover.

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

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

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

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

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

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

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

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the

Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type and the last two digits represent the weight percent of the hydrogen substituted chlorine.

Artificial substrate is a device that 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 multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection. (See also "Substrate")

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

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peaks per year will be published.

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

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

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

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

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

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

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

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

Blue-green algae (*Cyanophyta*) 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. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Bottom material (See "Bed material")

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

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

sphere 4/3 pr^3 cone 1/3 pr^3h cylinder pr^3h.

pi is the ratio of the circumference to the diameter of a circle; pi = 3.14159...
From cell volume, total algal biomass expressed as biovolume (mm^3/mL) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

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

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

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

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

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

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

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

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

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

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

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

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

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after

incubation at 41 Con mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus feacium, Streptococcus avium,* and their variants. (See also "Bacteria")

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

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

Estimated (E) value of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the laboratory reporting level (LRL) but greater than the long-term method detection level (LT-MDL), an 'E' code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an 'E' code even though the measured value is greater than the LRL. A value reported with an 'E' code should be used with caution. When no analyte is detected in a sample, the default reporting value is the LRL preceded by a less than sign (<).

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

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

Fecal coliform bacteria are present in the intestine 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 that produce blue colonies within 24 hours when incubated at 44.5 Cplus or minus 0.2 Con M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

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

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

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

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

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

Gage values are values that are recorded, transmitted and/or computed from a gaging station. Gage values

typically are collected at 5-, 15-, or 30-minute intervals.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

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

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

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

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

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

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

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

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

Horizontal datum (See "Datum")

Hydrologic benchmark 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 benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

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

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

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

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

Laboratory Reporting Level (LRL) is generally equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a non-detection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually based on the most current quality-control data and may, therefore, change. [Note: In several previous NWQL documents (Connor and others, 1998; NWQL Technical Memorandum 98.07, 1998), the LRL was called the non-detection value or NDV—a term that is no longer used.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

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

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

Minimum Reporting Level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method (Timme, 1995).

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

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

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

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

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

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

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

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

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

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

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

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. Organic mass is expressed in the same units as for ash mass and dry mass. (See also "Ash mass," "Biomass," and "Dry mass")

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

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

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

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

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

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

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

Classification	Size (mm)	Method of analysis
Clay	0.00024- 0.004	Sedimentation
Silt	0.004 - 0.062	Sedimentation
Sand	0.062 - 2.0	Sedimentation/sieve
Gravel	2.0 - 64.0	Sieve

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

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

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

Percent shading is determined by using a clinometer to estimate left and right bank shading. The values are added together and divided by 180 to determine percent shading relative to a horizontal surface.

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

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

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

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

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. (See also "Plankton")

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that

yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

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

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

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

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

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

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

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

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

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or non-exceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the non-exceedances of the $7Q_{10}$ occur less than 10

years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

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

Return period (See "Recurrence interval")

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

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

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

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

Seven-day 10-year low flow (7Q10) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-run average. The recurrence interval of the 7Q10 is 10 years; the chance that the annual 7-day minimum flow will be less than the 7Q10 is 10 percent in any given year. (See also "Recurrence interval" and "Annual 7-day minimum")

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

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

Stable isotope ratio (per MILL/MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific waters, to evaluate mixing of different waters, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

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

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

Substrate is the physical surface upon which an organism lives.

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

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

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on

USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

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

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

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

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

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

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

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

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

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

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

Taxa richness is the total number of distinct species or groups and usually decreases with pollution. (See also "Percent Shading")

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:	*Hexagenia*
Species:	*Hexagenia limbata*

Temperature preferences:

Cold – preferred water temperature for the species is less than 20 ˚C or spawning temperature preference less than 16 ˚C and native distribution is considered to be predominantly north of 45˚ N. latitude.

Warm – preferred water temperatures for the species is greater than 20 ˚C or spawning temperature preference greater than 16 ˚C and native distribution is considered to be predominantly south of 45˚ N. latitude.

Cool – intermediate between cold and warm water temperature preferences.

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

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

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

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

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

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

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

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

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

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

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

Total recoverable is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particu-

late matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

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

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

Trophic group:

Filter feeder – diet composed of suspended plant and/or animal material.

Herbivore – diet composed predominantly of plant material.

Invertivore – diet composed predominantly of invertebrates.

Omnivore – diet composed of at least 25-percent plant and 25-percent animal material.

Piscivore – diet composed predominantly of fish.

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

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

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water table is the level in the saturated zone at which the pressure is equal to the atmospheric pressure.

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

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2001, is called the "2001 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of

water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

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

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

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

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and 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. (See also "Plankton")

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

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

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

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

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

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

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

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

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

Section B. Surface Water

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

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

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

Section D. Interrelated Phases of the Hydrologic Cycle

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

Book 5. Laboratory Analysis

Section A. Water Analysis

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

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

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

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* by

L.J. Britton and P.E. Greeson, editors: USGS–TWRI book 5, chap. A4. 1989. 363 p.

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

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

Section C. Sediment Analysis

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

Book 6. Modeling Techniques

Section A. Ground Water

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

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

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

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

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

6-A6. A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction, by Eric D. Swain and Eliezer J. Wexler: USGS–TWRI book 6, chap. A5,1996. 125 p.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

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

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

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

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

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

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

Section B. Instruments for Measurement of Discharge

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

Book 9. Handbooks for Water-Resources Investigations

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

9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.

9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.

9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by F.D. Wilde, D.B.

Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.

9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.

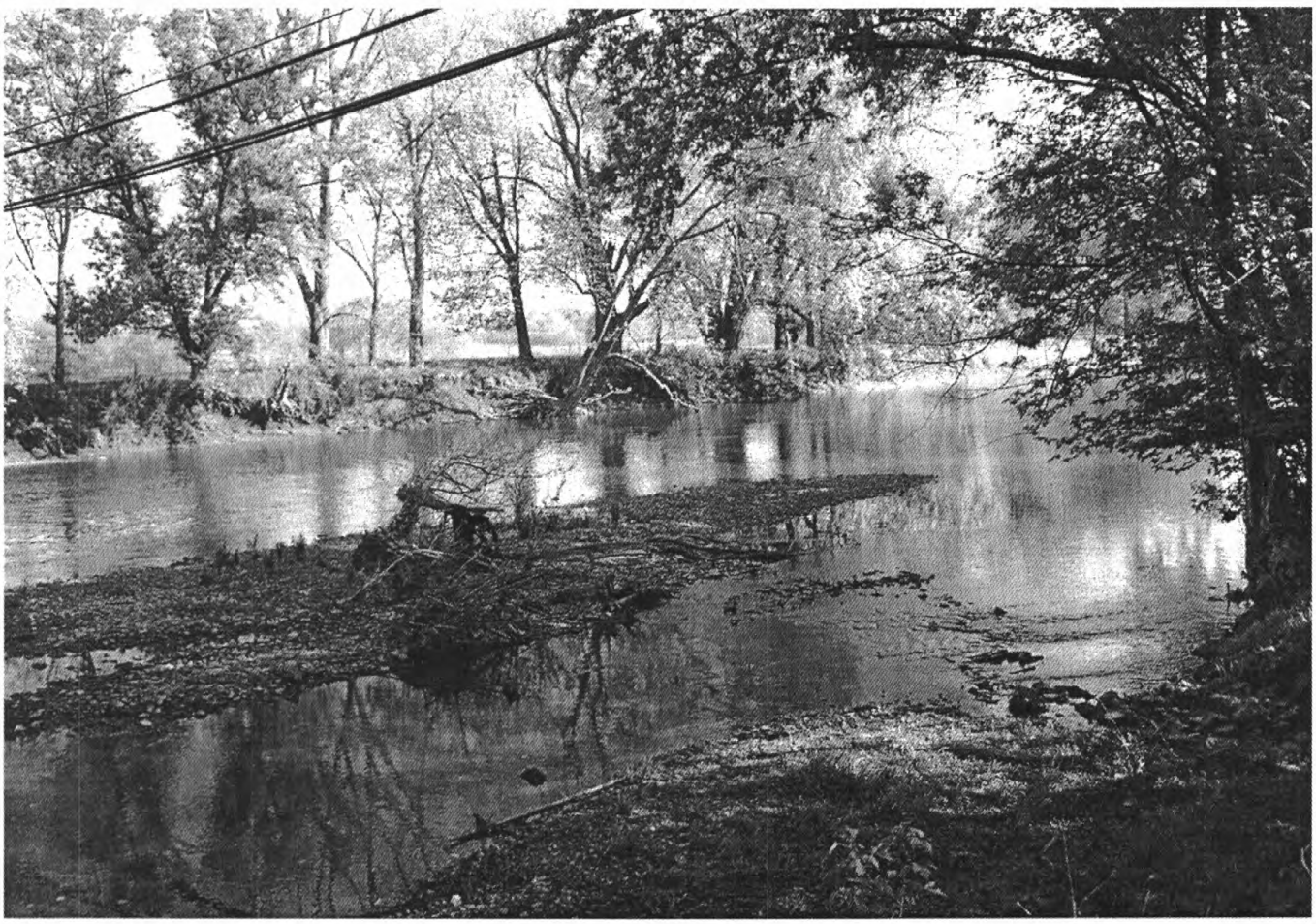
9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.

9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.

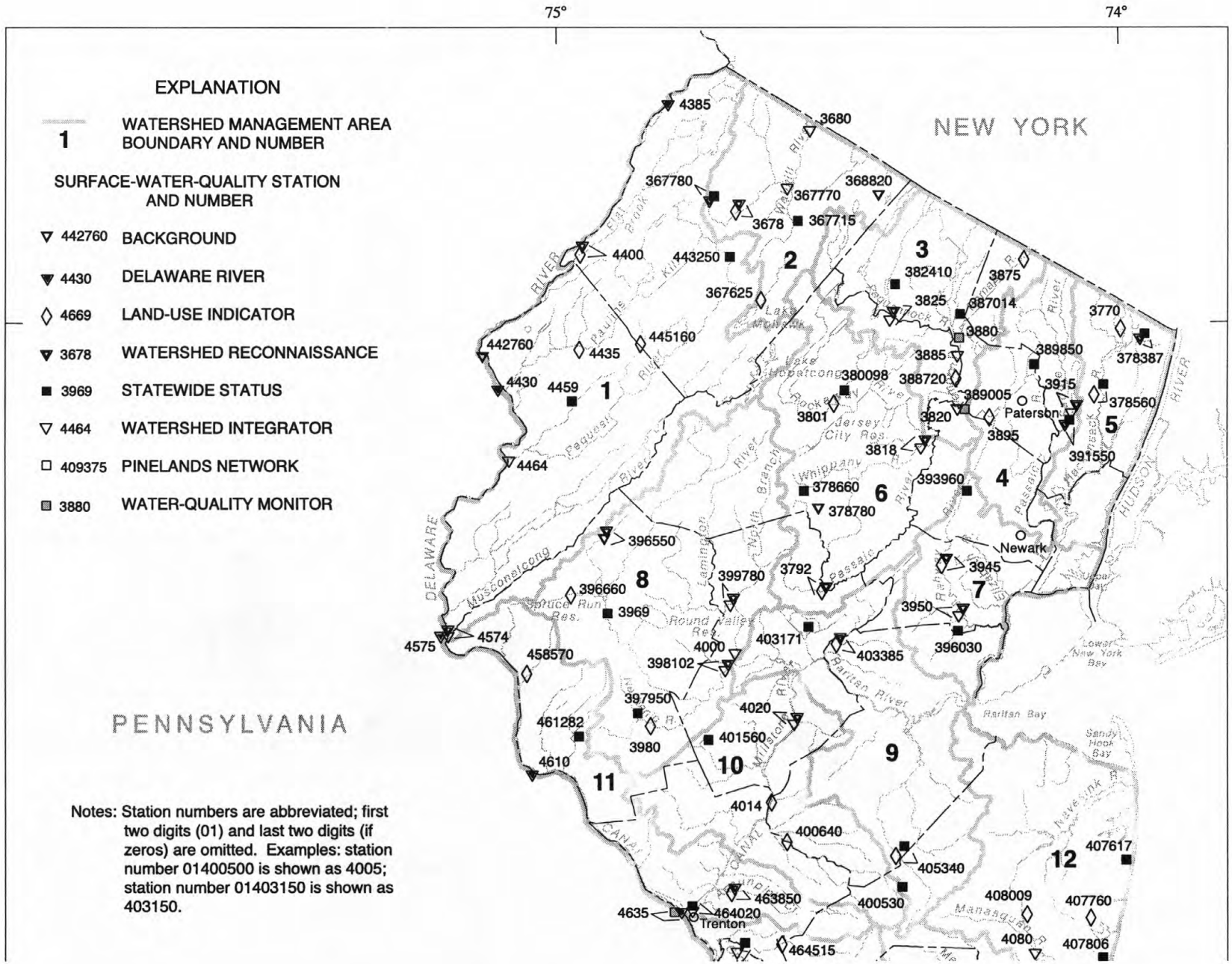
9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.

9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 p.

9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities*, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 p.



01398102 South Branch Raritan River at South Branch
Watershed Integrator Station
Ambient Stream Monitoring Network
(File photograph, U.S. Geological Survey, West Trenton, New Jersey



Notes: Station numbers are abbreviated; first two digits (01) and last two digits (if zeros) are omitted. Examples: station number 01400500 is shown as 4005; station number 01403150 is shown as 403150.

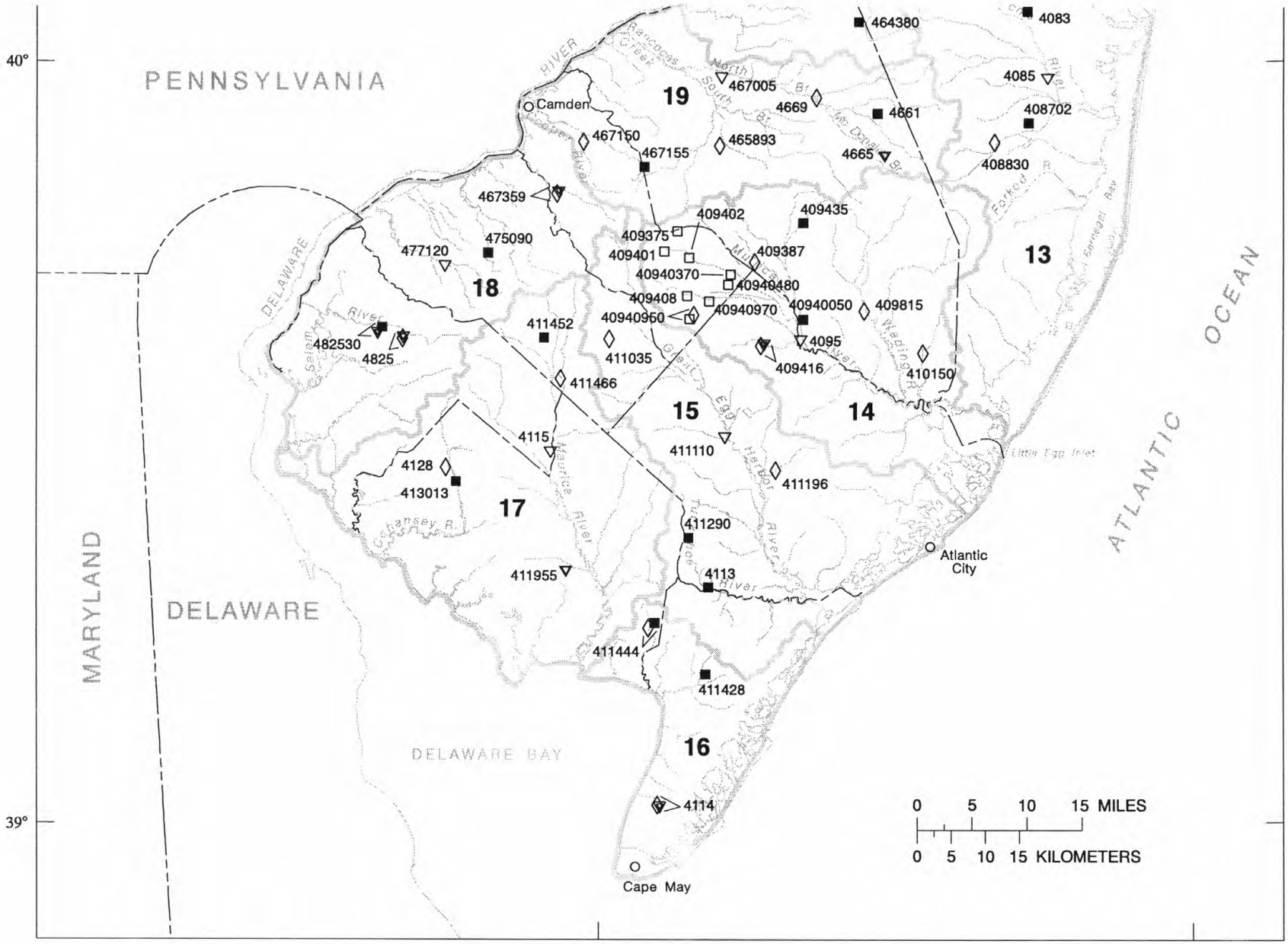


Figure 22. Locations and types of surface-water-quality stations.

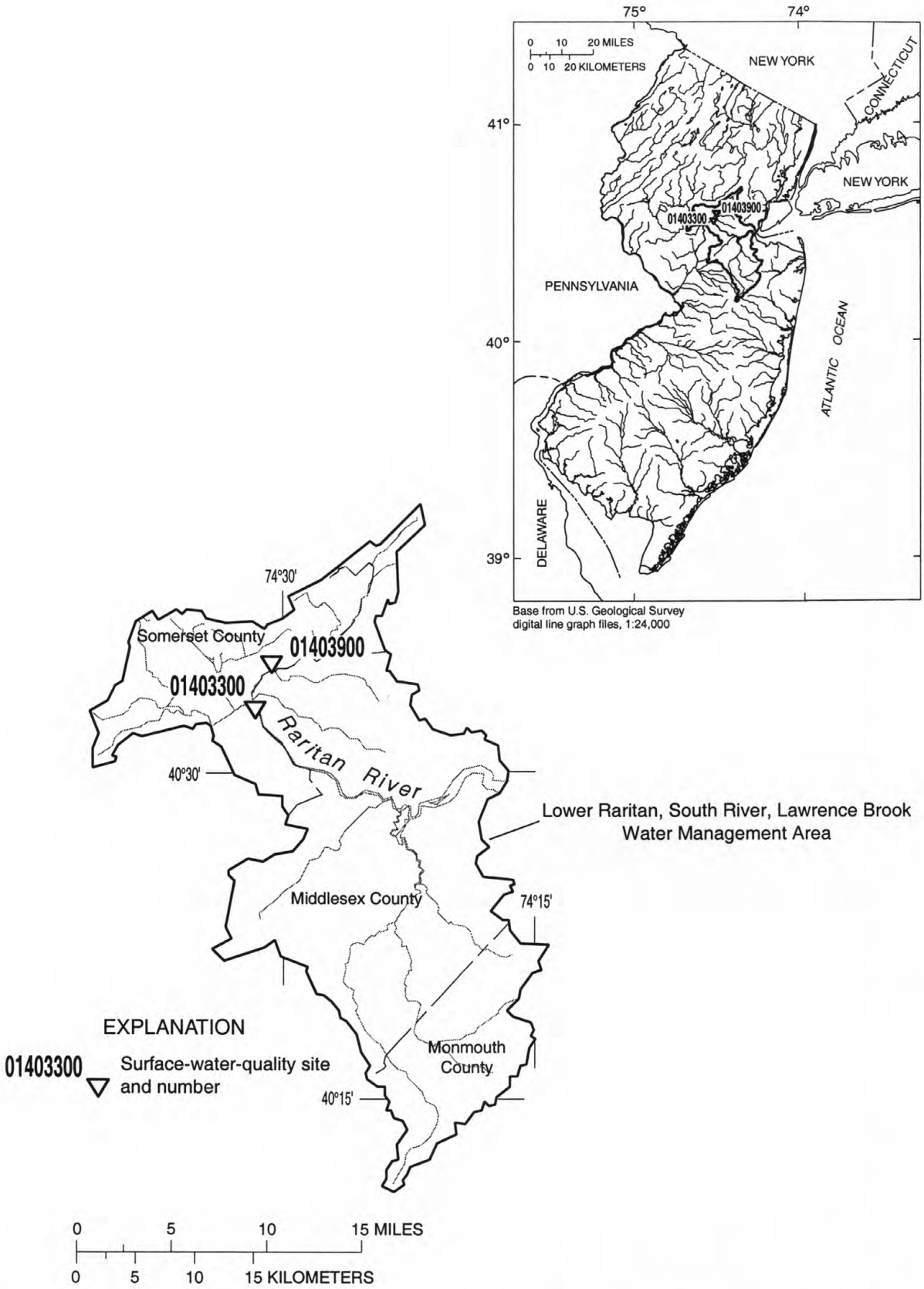


Figure 23. Location of stations in the Long Island-New Jersey National Water-Quality Assessment Program, surface-water low-intensity-phase network, water year 2001.

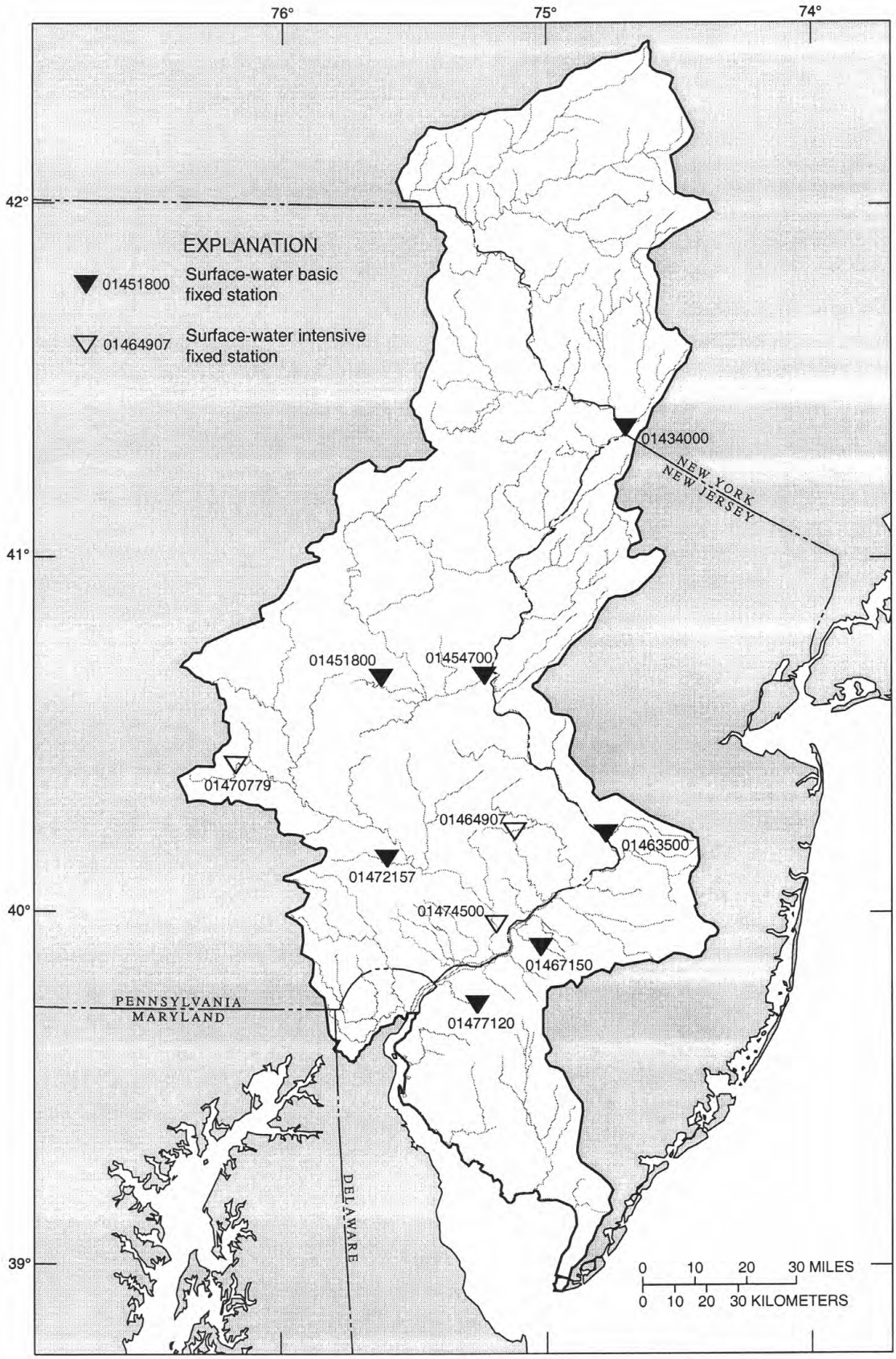


Figure 24. Location of the stations in the Delaware River National Water-Quality Assessment Program surface-water fixed station network, water year 2001.

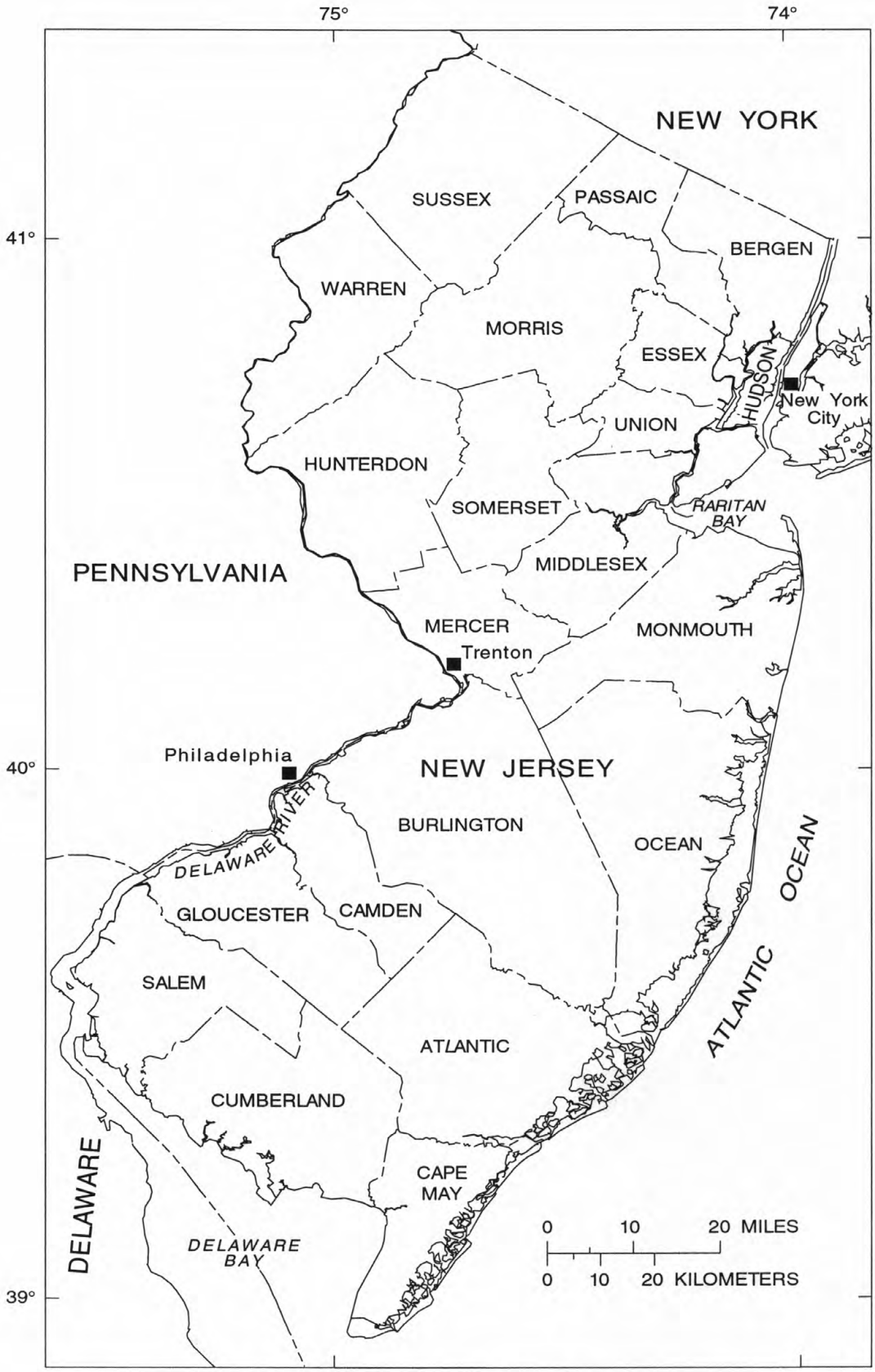


Figure 25. Counties in New Jersey.

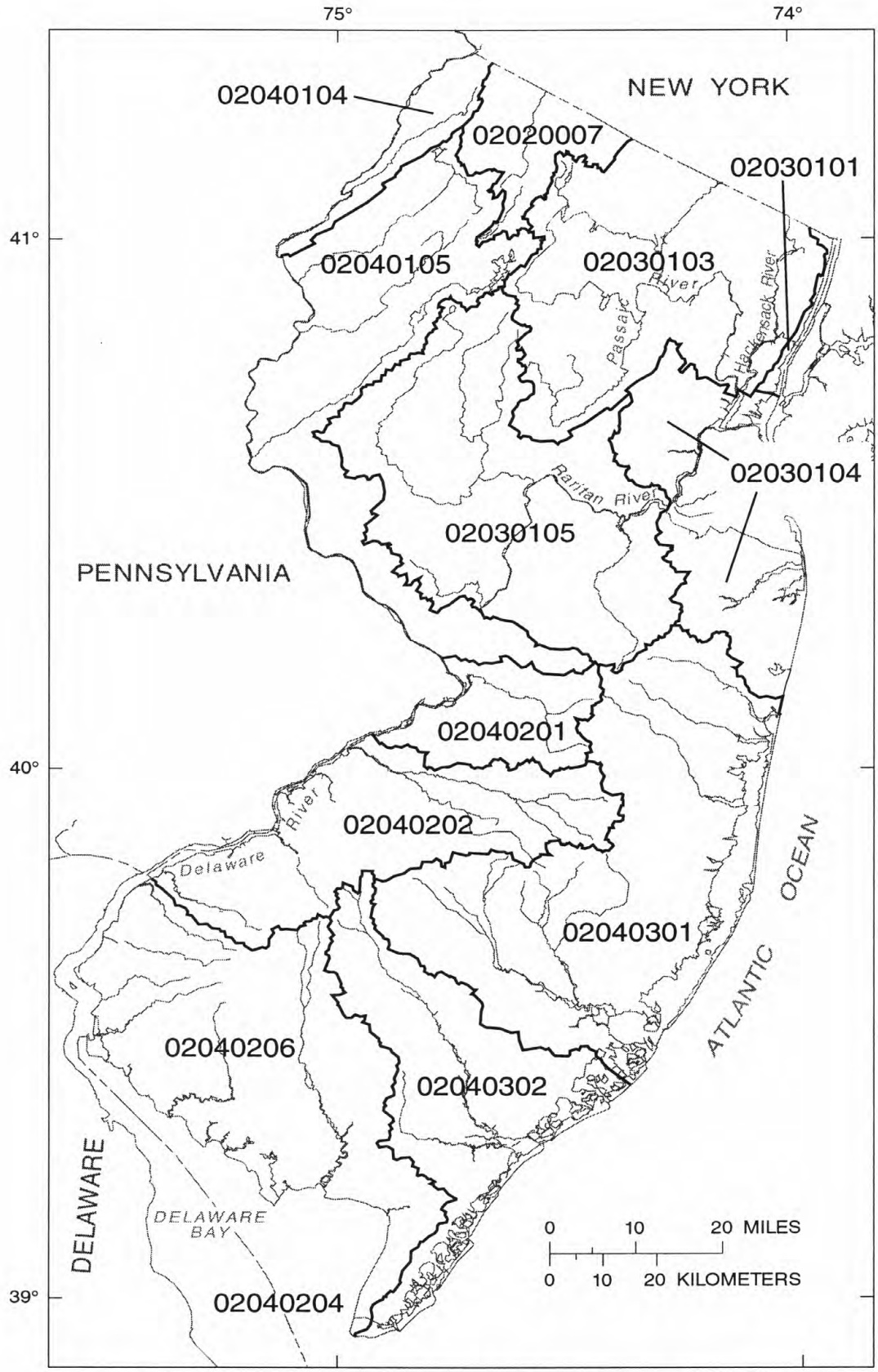


Figure 26. Cataloging units and codes in New Jersey. (Modified from Seaber and others, 1987)

01367625 WALLKILL RIVER AT SPARTA, NJ

LOCATION.--Lat 41°02'20", long 74°37'48", Sussex County, Hydrologic Unit 02020007, 0.4 mi northeast of Sparta, 1.2 mi downstream of outlet of Lake Mohawk, and 1.8 mi east of Fox Hollow Lake.

DRAINAGE AREA.--5.88 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
16...	1200	6.5	--	.066	.049	742	99	11.4	8.3	642	7.0	8.0	180
FEB													
14...	1330	15	--	.058	.043	744	101	13.2	8.3	770	<5.0	3.0	170
MAY													
17...	1210	3.0	3.7	.049	.036	745	93	9.5	8.0	772	14.5	13.5	230
AUG													
08...	1220	1.1	1.7	.101	.071	743	93	8.1	7.8	743	32.5	21.0	240

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
16...	43.9	17.8	1.57	53.9	144	107	E.1	5.5	17.2	345	335	<.030	.26
FEB													
14...	41.0	16.1	1.41	69.7	120	134	<.2	4.3	19.3	365	360	.060	.23
MAY													
17...	54.0	21.9	1.41	64.2	164	132	E.1	6.7	17.8	408	402	.070	.29
AUG													
08...	55.2	24.9	2.11	54.4	181	116	E.1	10.9	16.1	417	393	<.030	.20

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
16...	<.03	.38	.436	.005	.69	.81	.100	.015	.036	.9	<.1	2.9	.9
FEB													
14...	.10	.29	.462	.005	.69	.75	.080	.009	.020	.6	<.1	2.7	.6
MAY													
17...	.08	.33	1.07	.057	1.4	1.4	.132	.022	.047	.9	<.1	2.3	.9
AUG													
08...	<.03	.24	.910	.008	1.1	1.2	.060	.022	.035	.4	<.1	3.2	.4

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
16...	2.9	--	22	1
FEB				
14...	<1.0	--	18	<1
MAY				
17...	E1.3	3.00	36	1
AUG				
08...	<1.0	4.90	29	5

E Estimated value.
< Actual value is known to be less than the value shown.

01367625 WALLKILL RIVER AT SPARTA, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
05...	1105	<20	<100	90	01...	1105	<20	<100	20
11...	1103	490	100	280					
18...	1110	50	<100	30					
25...	1100	20	<100	20					

< Actual value is known to be less than the value shown.

01367715 WALLKILL RIVER AT SCOTT ROAD, AT FRANKLIN, NJ

LOCATION.--Lat 41°08'00", long 74°34'44", Sussex County, Hydrologic Unit 02020007, at bridge on on Scott Road, 1.2 mi north of Franklin, 1.7 mi south of Hamburg, and 3.4 mi downstream of Franklin Pond.

DRAINAGE AREA.--40.6 mi^2.

PERIOD OF RECORD.--Water year 1999, November 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
15...	0800	--	.151	.116	742		9.6	8.2	--	--	7.0	190	45.5
FEB													
08...	0830	--	.087	.066	758		12.0	7.7	--	--	.00	150	37.1
MAY													
10...	0800	3.5	.107	.081	750	77	7.4	8.3	598	11.0	16.5	200	46.0
AUG													
07...	0800	2.9	.112	.086	750	75	6.2	8.0	669	26.0	24.0	250	53.4

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
15...	19.4	2.20	33.3	171	63.6	E.1	8.5	14.4	298	290	<.030	.32	<.03
FEB													
08...	14.1	1.26	56.2	117	108	E.1	6.9	15.1	324	311	.070	.21	.04
MAY													
10...	21.3	1.33	40.6	173	79.1	E.1	5.4	14.2	349	313	<.030	.29	<.03
AUG													
07...	27.2	1.73	40.0	209	78.9	E.1	8.7	14.8	341	352	.050	.31	.04

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV													
15...	.39	.243	<.003	.56	.63	.036	.007	.018	.5	<.1	4.7	.5	E1.5
FEB													
08...	.29	.472	<.003	.68	.76	.054	.008	.015	.4	<.1	2.8	.4	3.4
MAY													
10...	.33	.250	.004	.54	.58	.072	.009	.025	.6	M	3.7	E.6	E1.8
AUG													
07...	.38	.557	.004	.87	.94	.074	.011	.023	<.1	<.1	3.3	<.1	E1.2

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV			
15...	--	E12	4
FEB			
08...	--	E12	1
MAY			
10...	3.20	20	1
AUG			
07...	9.10	32	5

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01367715 WALLKILL RIVER AT SCOTT ROAD, AT FRANKLIN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG 07...	0800	4	56.7	<.06	27	.06	<1	1.1	220	<1	130	<.01	1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 07...	<.4	<.05	25

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 08...	0830	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 08...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 08...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 10...	0800	<.004	<.002	<.005	E.005	<.010	<.041	<.020	<.005	<.018	<.003	E.003	<.005

< Actual value is known to be less than the value shown.

01367715 WALLKILL RIVER AT SCOTT ROAD, AT FRANKLIN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
10...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	E.005

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
10...	<.011	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
05...	1035	330	600	250
11...	1030	1300	800	2500
18...	1035	130	200	190
25...	1025	310	300	310
AUG				
01...	1035	110	100	90

E Estimated value.
< Actual value is known to be less than the value shown.

01367770 WALLKILL RIVER NEAR SUSSEX, NJ

LOCATION.--Lat 41°11'38", long 74°34'32", Sussex County, Hydrologic Unit 02020007, at bridge on Glenwood Road, 0.6 mi upstream from Papakating Creek, 1.7 mi southwest of Independence Corner, and 2.0 mi southeast of Sussex.

DRAINAGE AREA.--60.8 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
16...	1000	149	--	.138	.105	750	85	10.4	7.9	579	7.5	6.0	210
FEB													
14...	0940	177	--	.086	.065	754	93	13.0	7.4	538	6.0	1.0	160
MAY													
17...	0940	34	6.5	.097	.074	756	76	7.8	7.8	669	14.0	14.0	240
AUG													
14...	0930	12	5.4	.109	.084	751	86	7.3	8.1	754	25.0	22.5	250

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
16...	48.2	21.1	2.72	35.0	183	65.9	E.1	9.5	16.6	326	315	<.030	.35
FEB													
14...	38.8	16.2	1.52	40.6	133	75.5	<.2	7.4	16.1	297	280	.040	.22
MAY													
17...	54.9	25.0	2.15	42.8	198	82.3	E.1	6.6	17.2	367	359	.060	.39
AUG													
14...	55.2	28.1	3.92	46.8	213	93.4	E.1	10.5	19.5	397	402	.040	.39

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
16...	<.03	.35	1.42	.003	1.8	1.8	.063	.014	.024	.5	<.1	4.3	.4
FEB													
14...	.04	.29	.865	--	1.1	1.2	.112	.007	.018	.4	<.1	2.8	.4
MAY													
17...	.05	.43	2.15	.017	2.5	2.6	.112	.027	.057	.9	<.1	3.3	.9
AUG													
14...	.13	.49	3.74	.012	4.1	4.2	.067	.069	.087	.6	<.1	3.3	.6

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
16...	<1.0	--	25	7
FEB				
14...	<1.0	--	18	<1
MAY				
17...	E1.5	3.90	32	10
AUG				
14...	<1.0	2.10	50	4

E Estimated value.
< Actual value is known to be less than the value shown.

01367770 WALLKILL RIVER NEAR SUSSEX, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
05...	1010	330	400	380	01...	1040	140	300	130
11...	1030	3500	400	550					
18...	1015	130	400	60					
25...	1030	310	100	140					

01367780 PAPAKATING CREEK NEAR WYKERTOWN, NJ

LOCATION.--Lat 41°09'59", long 74°43'39", Sussex County, Hydrologic Unit 02020007, at bridge at intersection of County Route 629 and Gunn Road, 0.7 mi north of intersection of County Routes 629 and 519, and 1.7 mi northeast of Culvers Lake.

DRAINAGE AREA.--1.99 mi^2.

PERIOD OF RECORD.--Water Year 1999, November 2000 to September 2001.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
16...	1115	--	.129	.100	746	100	12.5	7.7	294	--	5.0	86	27.6
FEB													
14...	1115	--	.061	.047	749	97	13.6	7.7	310	4.0	1.0	77	24.3
MAY													
10...	1100	--	.142	.108	748	94	9.2	7.9	325	26.0	15.5	95	30.7
SEP													
17...	0800	12	.078	.057	747	87	9.4	7.8	419	--	11.0	130	41.2

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
16...	4.10	2.52	18.4	54	43.2	E.1	8.4	17.6	171	155	<.030	.23	<.03
FEB													
14...	3.91	1.16	24.9	37	53.8	<.2	8.0	16.7	177	158	.030	.14	<.03
MAY													
10...	4.49	1.27	22.9	62	51.2	E.1	4.7	12.1	201	165	<.030	.30	<.03
SEP													
17...	6.00	2.05	26.3	73	67.6	<.2	10.2	17.0	218	216	<.030	.20	<.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV													
16...	.28	.184	<.003	.41	.47	.060	.013	.022	.3	<.1	3.9	.3	2.1
FEB													
14...	.19	.704	.003	.85	.89	.051	.007	.014	.3	<.1	2.0	.3	E1.9
MAY													
10...	.79	.137	<.003	.44	.93	.392	.023	.122	2.4	M	3.9	E2.4	3.0
SEP													
17...	.40	.352	<.003	.55	.75	.217	.040	.077	3.2	<.1	2.8	3.2	<1.0

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01367780 PAPAKATING CREEK NEAR WYKERTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHLOROPHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 16...	--	E8	2
FEB 14...	--	E10	<1
MAY 10...	67.7	E9	6
SEP 17...	1.00	E9	10

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)
SEP 17...	0800	<2	11.3	<.06	9	E.03	<1	1.6	520	<1	187	<.01	<1

DATE	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
SEP 17...	<.4	<.05	15

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB 14...	1115	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYLETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 14...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 14...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

E Estimated value.
< Actual value is known to be less than the value shown.

01367780 PAPAKATING CREEK NEAR WYKERTOWN, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY													
23...	1000	E.003	<.002	<.005	.013	<.010	<.041	<.020	<.005	<.018	<.003	E.005	<.005

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
23...	<.005	<.002	<.004	<.035	<.027	<.050	.032	<.006	.026	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
23...	<.011	<.016	<.034	.009	<.009

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
05...	1140	1100	300	450
11...	1059	2200	<100	2800
18...	1120	330	<100	100
25...	1120	940	800	1090
AUG				
01...	1125	790	200	660

E Estimated value.
< Actual value is known to be less than the value shown.

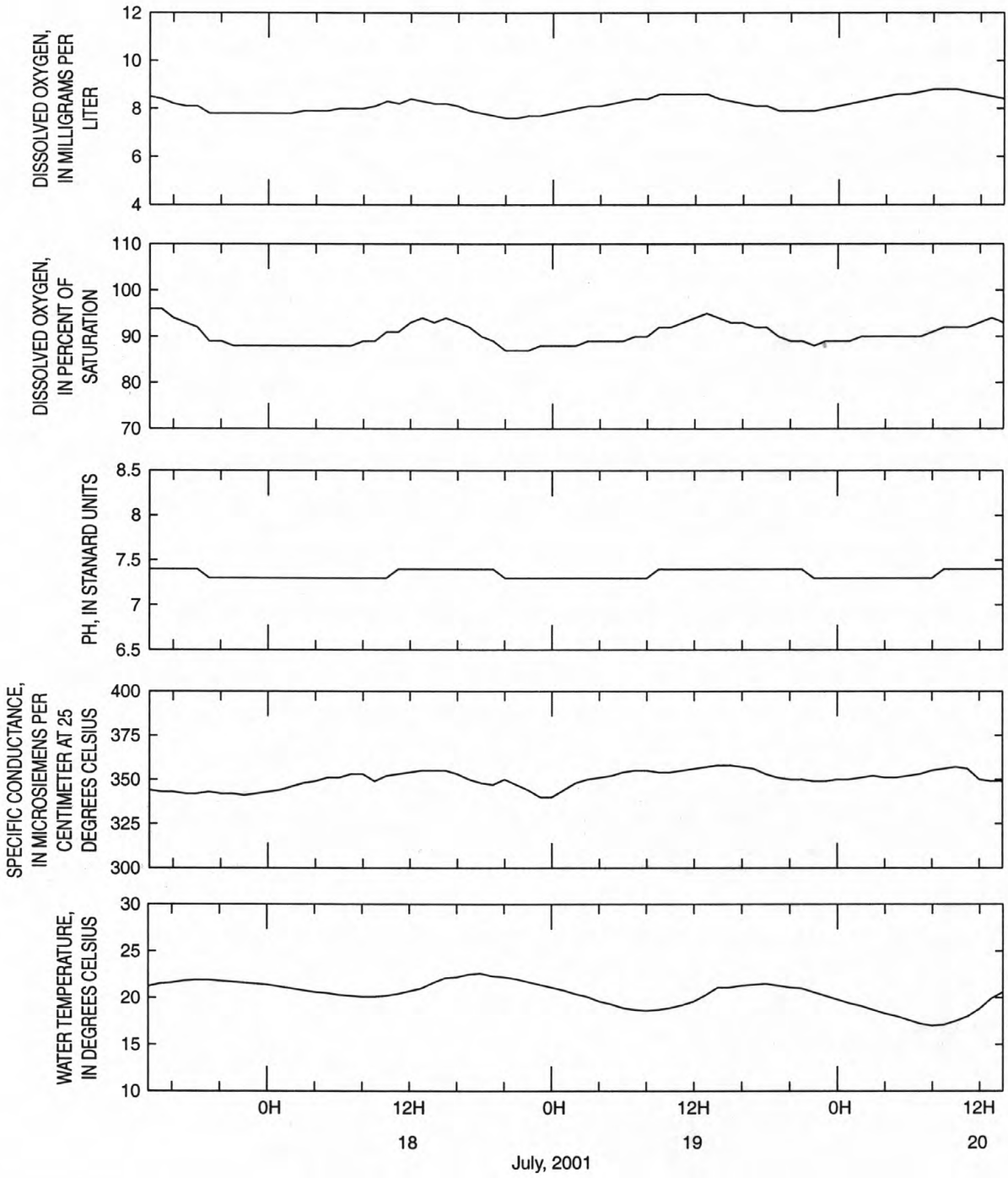


Figure 27. Reconnaissance Study -- Physical characteristics and concentrations of constituents measured at 01367780 Papakating Creek near Wykertown.

01367800 PAPAKATING CREEK AT PELLETTOWN, NJ

LOCATION.--Lat 41°09'45", long 74°40'31", Sussex County, Hydrologic Unit 02020007, at bridge on State Route 565 in Pellettown, 1.5 mi southeast of Wykertown, and 4.8 mi upstream of confluence with West Branch.

DRAINAGE AREA.--15.8 mi^2.

PERIOD OF RECORD.--Water years 1959-63, 1999 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 16...	1230	13	--	.182	.138	747	101	12.3	7.8	334	7.5	6.0	110
FEB 14...	1140	30	--	.082	.062	752	98	13.8	7.2	325	5.0	1.0	90
MAY 17...	1210	5.5	3.4	.093	.070	753	95	9.9	8.1	420	20.0	13.0	150
AUG 14...	1220	2.6	4.5	.094	.072	750	99	8.5	8.1	458	28.0	22.0	170

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 16...	34.8	5.04	2.53	18.9	78	41.3	E.1	10.3	20.2	197	182	<.030	.37
FEB 14...	28.8	4.43	1.57	22.5	52	49.7	<.2	8.2	21.3	189	172	<.030	.17
MAY 17...	50.8	6.54	1.31	20.8	115	39.8	<.2	7.9	22.4	240	226	.030	.27
AUG 14...	56.9	7.56	1.98	19.3	136	42.0	<.2	10.6	26.3	249	254	<.030	.26

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV 16...	<.03	.33	.464	<.003	.83	.80	.051	.014	.020	.3	<.1	5.2	.3
FEB 14...	<.03	.21	.897	<.003	1.1	1.1	.033	.008	.018	.3	<.1	2.5	.3
MAY 17...	.05	.31	1.76	.014	2.0	2.1	.068	.014	.025	.5	<.1	2.5	.5
AUG 14...	.06	.32	1.75	.006	2.0	2.1	<.022	.022	.034	.3	<.1	2.7	.3

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 16...	<1.0	--	E12	5
FEB 14...	<1.0	--	E9	<1
MAY 17...	<1.0	2.20	E13	4
AUG 14...	<1.0	2.30	18	<1

E Estimated value.
< Actual value is known to be less than the value shown.

01367800 PAPAKATING CREEK AT PELLETTOWN, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
05...	1025	790	100	400	01...	1055	790	200	110
11...	1045	2400	1800	830					
18...	1035	5400	1100	280					
25...	1115	1300	300	270					

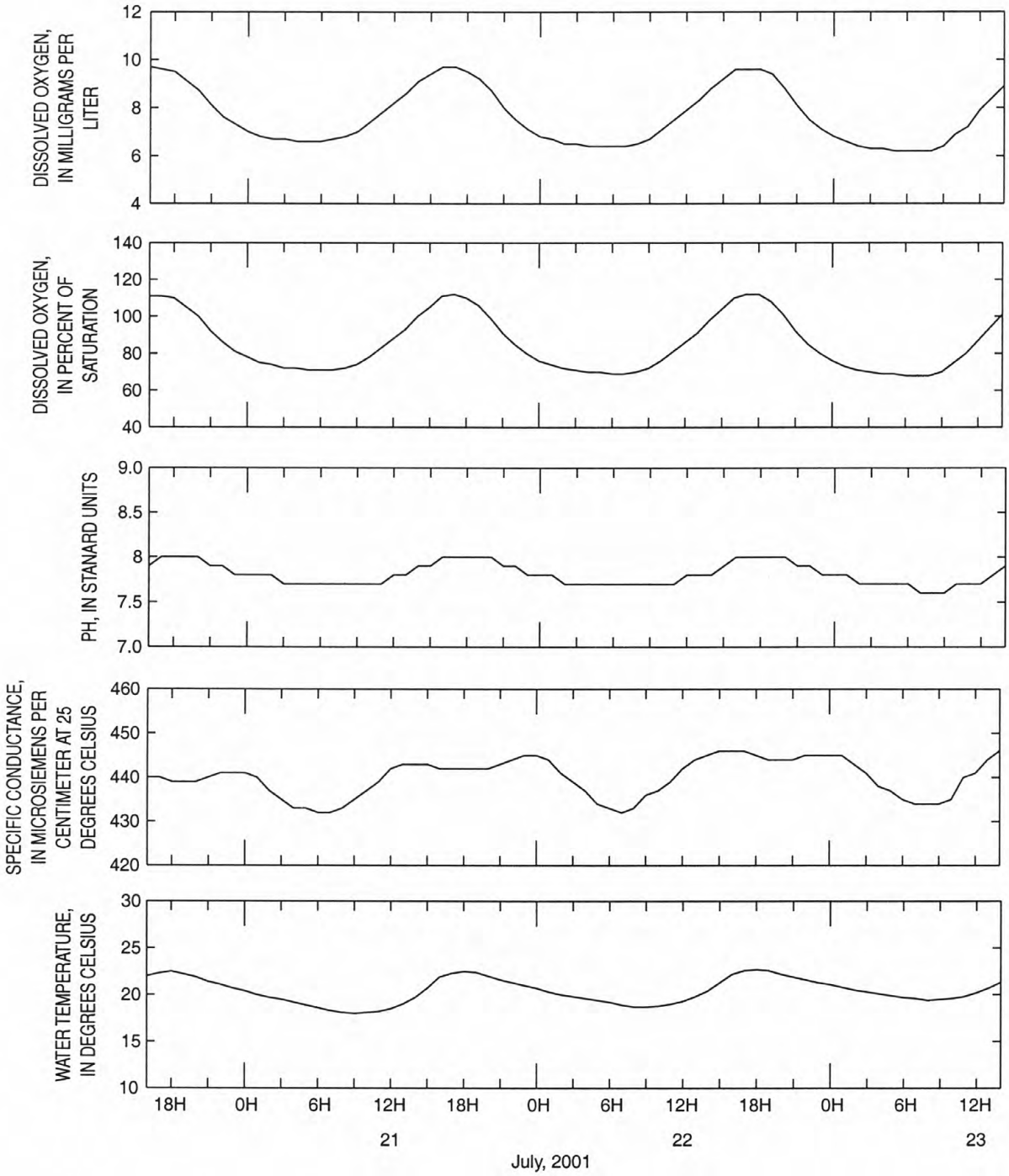


Figure 28. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01367800 Papakating Creek at Pellettown, water year 2001.

01368000 WALLKILL RIVER NEAR UNIONVILLE, NY

LOCATION.--Lat 41°15'36", long 74°32'58", Sussex County, New Jersey, Hydrologic Unit 02020007, at bridge on Quarryville-Milton Road, 2.0 mi south of New York-New Jersey State line, and 3.0 mi south of Unionville.

DRAINAGE AREA.--140 mi^2.

PERIOD OF RECORD.--Water years 1963-78, 1991 to September 1997, and November 2000 to August 2001.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
21...	1300	60	--	.168	.129	747	89	11.7	7.7	490	--	3.0	170
FEB													
14...	1040	280	--	.104	.079	754	85	12.0	7.7	437	8.0	1.0	120
MAY													
17...	1250	65	13	.133	.100	753	70	7.0	7.9	558	17.5	15.0	200
AUG													
27...	1210	16	7.1	.139	.103	747	156	12.6	7.8	647	26.5	25.0	220

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
21...	42.2	14.9	2.28	28.2	138	54.3	E.1	8.3	22.4	271	260	.050	.35
FEB													
14...	32.4	10.1	1.67	33.8	87	63.5	<.2	7.2	18.7	241	224	.040	.26
MAY													
17...	50.0	17.7	1.86	34.5	158	65.5	E.1	6.6	18.5	294	296	.080	.42
AUG													
27...	51.5	21.7	3.41	43.4	180	81.5	E.1	6.0	20.8	364	345	<.030	.43

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN,PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
21...	.05	.47	.947	<.003	1.3	1.4	.044	.014	.040	.8	<.1	4.5	.8
FEB													
14...	.05	.28	.971	.039	1.2	1.2	.055	.015	.031	.6	<.1	3.1	.6
MAY													
17...	.08	.47	1.41	.024	1.8	1.9	.130	.027	.065	.9	<.1	3.8	.9
AUG													
27...	.07	.54	1.98	.016	2.4	2.5	.184	.032	.057	1.2	<.1	4.5	1.2

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV				
21...	E1.7	--	21	9
FEB				
14...	<1.0	--	E10	2
MAY				
17...	E1.2	3.30	27	8
AUG				
27...	E1.4	28.9	38	1

E Estimated value.
< Actual value is known to be less than the value shown.

01368000 WALLKILL RIVER NEAR UNIONVILLE, NY--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
05...	0945	110	<100	210
11...	1010	330	100	150
18...	0955	130	200	30
25...	1015	110	<100	40
AUG				
01...	1015	50	100	30

< Actual value is known to be less than the value shown.

01368820 DOUBLE KILL AT WAWAYANDA, NJ

LOCATION.--Lat 41°11'13", long 74°25'13", Sussex County, Hydrologic Unit 02020007, 0.4 mi downstream of Wawayanda Lake, 3.5 mi east of Vernon, and 4.6 mi upstream of Wawayanda Creek.

DRAINAGE AREA.--6.46 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Background, New Jersey Department of Environmental Protection Watershed Management Area 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
16...	0930	4.1	--	.132	.098	760	92	11.7	7.4	256	3.0	5.0	66
FEB													
14...	1100	11	--	.132	.098	735	96	13.0	7.6	216	5.5	1.5	56
MAY													
24...	0930	7.3	2.8	.125	.093	728	102	9.7	7.5	238	15.5	15.5	65
AUG													
08...	0950	E.03	1.6	.152	.114	732	44	3.6	7.4	285	29.5	23.0	80

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
16...	16.9	5.79	.98	20.6	57	39.5	E.1	2.8	7.5	143	128	<.030	.29
FEB													
14...	14.4	4.82	.92	16.9	43	30.1	<.2	3.9	8.8	122	106	<.030	.21
MAY													
24...	16.9	5.51	.97	21.8	47	38.8	E.1	1.2	9.4	136	123	.030	.33
AUG													
08...	20.6	7.02	.82	23.6	64	44.1	<.2	7.0	5.8	179	148	.050	.38

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
16...	<.03	.32	<.037	<.003	--	--	.080	.005	.011	.4	<.1	4.7	.4
FEB													
14...	.04	.26	.078	<.003	.29	.33	.051	.004	.011	.4	<.1	4.1	.4
MAY													
24...	<.03	.40	.042	.003	.38	.44	.130	.012	.030	.7	<.1	4.3	.7
AUG													
08...	.06	.42	.150	<.003	.53	.57	.073	.020	.032	.3	<.1	4.3	.3

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
16...	E1.1	--	15	4
FEB				
14...	E1.6	--	E11	<1
MAY				
24...	E1.9	7.80	15	5
AUG				
08...	<1.0	1.70	20	4

E Estimated value.
< Actual value is known to be less than the value shown.

01368820 DOUBLE KILL AT WAWAYANDA, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG 08...	0950	<2	10.8	<.06	17	<.04	<1	.6	270	<1	418	<.01	<1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 08...	<.4	<.05	2

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 14...	1100	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 14...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 14...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 24...	0930	<.004	<.002	<.005	E.005	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

E Estimated value.
< Actual value is known to be less than the value shown.

01368820 DOUBLE KILL AT WAWAYANDA, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
24...	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	E.004

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
24...	<.011	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
05...	0947	<20	<100	350
11...	0946	210	200	2100
18...	0946	40	100	170
25...	0945	<20	<100	140
AUG				
01...	0945	1300	1700	540

E Estimated value.
< Actual value is known to be less than the value shown.

01377000 HACKENSACK RIVER AT RIVERVALE, NJ

LOCATION.--Lat 40°59'55", long 73°59'27", Bergen County, Hydrologic Unit 02030103, at bridge on Westwood Avenue in Rivervale, 1.5 mi upstream from Pascack Brook, 4.6 mi upstream from Oradell Dam, and 27.2 mi upstream from mouth.

DRAINAGE AREA.--58.0 mi^2.

PERIOD OF RECORD.--Water years 1962, 1964 to current year.

COOPERATION.--Field data and samples for laboratory analyes were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 5.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
28...	0800	23	--	.142	.106	757	72	9.0	7.6	428	--	5.5	130
FEB													
22...	0830	42	--	.105	.076	768	71	10.0	8.0	903	-5.0	1.5	160
MAY													
23...	0800	86	9.1	.119	.086	755	68	6.6	7.7	570	14.0	16.5	120
AUG													
09...	0800	86	16	.137	.099	758	60	4.9	7.6	502	27.0	25.0	110

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
28...	40.6	7.49	2.10	31.2	94	55.5	E.1	5.1	15.5	228	217	.060	.51
FEB													
22...	49.2	8.73	2.09	98.8	98	180	<.2	5.3	18.3	425	425	.120	.38
MAY													
23...	36.0	6.34	1.68	59.9	80	112	<.2	2.4	15.9	323	284	.150	.48
AUG													
09...	34.7	6.25	2.09	47.0	83	88.5	<.2	6.0	9.7	268	245	.200	.57

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
28...	.08	.52	.531	.005	1.0	1.1	.101	.020	.043	.6	<.1	5.1	.6
FEB													
22...	.11	.56	.777	.005	1.2	1.3	.088	.011	.031	.7	<.1	3.8	.7
MAY													
23...	.11	.59	.371	.016	.85	.96	.181	.021	.063	1.5	<.1	4.7	1.5
AUG													
09...	.20	.96	.189	.021	.76	1.2	.253	.011	.098	1.7	<.1	5.3	1.7

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
28...	E1.8	--	50	<1
FEB				
22...	E1.1	--	51	7
MAY				
23...	2.8	10.9	44	12
AUG				
09...	2.4	42.5	43	12

E Estimated value.
< Actual value is known to be less than the value shown.

01377000 HACKENSACK RIVER AT RIVERVALE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
05...	1015	5400	2100	4500	16...	1105	220	100	170
09...	1112	220	600	260	23...	1120	1700	500	340
					30...	1114	330	300	90

01378387 TENAKILL BROOK AT OLD CLOSTER DOCK ROAD, AT CLOSTER, NJ

LOCATION.--Lat 41°58'43", long 73°58'02", Bergen County, Hydrologic Unit 02030103, at bridge on Old Closter Dock Road, 0.4 mi upstream of Oradell Reservoir, 0.4 mi north of Closter, and 1.6 mi north of Demarest.

DRAINAGE AREA.--8.69 mi^2.

PERIOD OF RECORD.--Water Year 1999, November 2000 to September 2001.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Field data and samples for laboratory analyes were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 5.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
08...	1000	--	.078	.061	766	74	8.9	7.7	578	--	7.5	220	67.7
FEB													
01...	1000	--	.159	.120	763	86	11.3	7.5	671	5.5	4.0	150	45.1
MAY													
23...	1000	5.8	.201	.154	760	56	5.7	7.4	377	15.5	14.5	120	38.6
SEP													
05...	1030	3.5	.059	.043	766	84	8.1	8.0	587	23.0	17.5	210	67.5

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
08...	11.3	2.36	29.3	162	65.9	<.2	17.5	25.8	324	322	.060	.23	.09
FEB													
01...	8.68	2.79	68.0	91	127	<.2	12.5	25.8	372	352	.110	.35	.08
MAY													
23...	6.81	2.59	23.9	88	46.9	<.2	10.7	18.7	234	206	.150	.70	.14
SEP													
05...	11.1	2.05	30.9	159	71.4	<.2	17.4	27.7	348	324	<.030	E.29	<.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV													
08...	.24	1.27	.021	1.5	1.5	.045	.015	.031	.4	<.1	2.8	.4	E1.2
FEB													
01...	.48	1.73	.013	2.1	2.2	.067	.018	.040	.6	<.1	4.8	.6	E1.1
MAY													
23...	.78	.952	.034	1.6	1.7	.215	.052	.103	1.7	<.1	6.3	1.7	2.3
SEP													
05...	.30	E1.54	.034	--	--	.069	.033	.058	.5	<.1	2.3	.5	<1.0

E Estimated value.
< Actual value is known to be less than the value shown.

01378387 TENAKILL BROOK AT OLD CLOSTER DOCK ROAD, AT CLOSTER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHLOROPHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 08...	--	66	1
FEB 01...	--	51	1
MAY 23...	10.2	64	8
SEP 05...	12.7	65	5

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)
SEP 05...	1030	<2	126	<.06	63	<.04	<1	1.5	250	<1	76	<.01	1

DATE	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
SEP 05...	.4	<.05	3

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLOROWATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLOROWATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLOROWATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB 01...	1000	1.09	.67	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYLETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 01...	<.10	<.2	.10	.50	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	1.7

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 01...	<.2	<.20	<.10	<.10	1.1	<.10	.12	<.20	<.2

< Actual value is known to be less than the value shown.

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY													
23...	1000	<.004	<.002	<.005	.011	E.005	E.618	<.020	E.003	<.018	<.003	<.006	.051

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
23...	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	.061

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
23...	.041	<.016	<.034	<.005	E.007

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
05...	0945	>24000	5900	7500
09...	1104	2400	1800	2200

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
16...	1056	230	900	230
23...	1105	490	800	200
30...	1104	2400	500	320

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

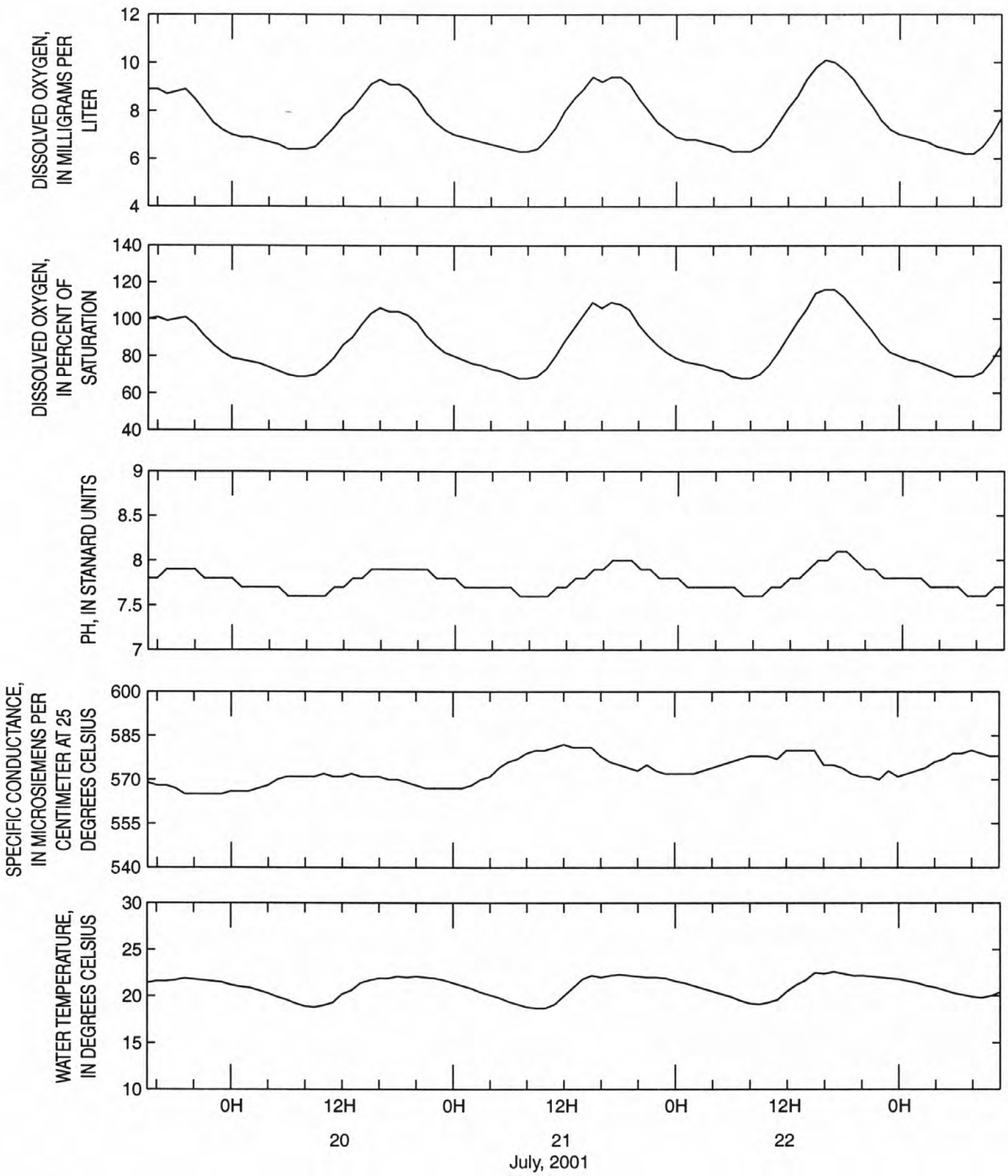


Figure 29. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01378387 Tenakill Brook at Old Closter Dock Road, at Closter, water year 2001.

01378560 COLES BROOK AT HACKENSACK, NJ

LOCATION.--Lat 40°54'40", long 74°02'26", Bergen County, Hydrologic Unit 02030103, at bridge on Main Street in Hackensack, 0.8 mi above mouth, and 1.9 mi northwest of Teaneck.

DRAINAGE AREA.--7.0 mi^2.

PERIOD OF RECORD.--Water years 1962, 1965, 1967, 1998 to current year.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 5.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
01...	1140	1.3	--	.100	.079	759	60	7.1	7.9	689	14.0	8.0	240
FEB													
13...	1130	5.5	--	.077	.056	769	106	14.0	7.8	855	8.0	4.0	220
MAY													
03...	0950	4.3	--	.090	.069	767	70	6.6	7.8	759	28.0	18.5	220
AUG													
13...	1030	4.1	10	.173	.132	759	68	5.8	7.2	130	28.0	23.0	37

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
01...	70.7	15.2	2.87	39.1	170	97.3	<.2	15.1	24.6	388	371	.070	.34
FEB													
13...	67.6	13.0	2.01	74.5	144	153	<.2	11.8	30.1	477	447	.060	.23
MAY													
03...	67.3	13.4	2.28	50.2	158	124	<.2	9.2	25.5	440	392	.150	.56
AUG													
13...	11.3	2.11	1.69	8.0	26	14.1	<.2	3.3	6.9	76	67	.120	.40

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
01...	.12	.41	.855	.010	1.2	1.3	.061	.027	.043	.4	<.1	3.4	.4
FEB													
13...	.05	.30	1.95	.017	2.2	2.3	.064	.008	.030	.6	<.1	3.3	.6
MAY													
03...	.20	.73	1.20	.074	1.8	1.9	.116	.023	.068	E.9	<.1	2.9	E.9
AUG													
13...	.13	.56	.731	.021	1.1	1.3	.100	.082	.131	1.2	<.1	4.5	1.1

< Actual value is known to be less than the value shown.

01378560 COLES BROOK AT HACKENSACK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
01...	E1.6	--	45	1
FEB				
13...	E1.0	--	30	6
MAY				
03...	E1.4	20.3	45	14
AUG				
13...	E1.6	10.3	18	3

DATE	TIME	SAMPLE TYPE	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
AUG												
13...	*0945*	*CHURN BLANK*	--	--	--	--	--	--	--	--	--	--
13...	*0946*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
13...	1030	ENVIRONMENTAL	--	--	--	--	--	--	2	32.3	<.06	20
13...	1030	BED MATERIAL	7.00	100	3.5	130	2.4	.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
AUG													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	*<.2*	--	--	*<.08*	--	--	*<.01*	--	*<.06*	--	--
13...	.04	<1	--	4.2	450	--	4	87	--	<.01	--	1	E.2
13...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA-TERIAL AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)
AUG													
13...	--	*4*	--	--	--	--	--	--	--	--	--	--	--
13...	--	*7*	--	--	--	--	--	--	--	--	--	--	--
13...	<.05	--	11	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	<1	.1	7.7	2.7	18	5600	27	87	.01	7.7

DATE	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)
AUG													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	<1	60	80	<50	E40	<50	90	E40	170	400	430	400	280

E Estimated value.
< Actual value is known to be less than the value shown.

01378560 COLES BROOK AT HACKENSACK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHALENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)
AUG 13...	370	510	80	930	310	<50	<50	<50	<50	<50	<50	E30	20

DATE	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 13...	<50	50	560	<50	50	760	<1	<1

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLOROWATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLOROWATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLOROWATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB 13...	1130	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYLETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 13...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	3.1

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 13...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY													
03...	0950	<.004	<.002	<.005	E.003	<.010	E.017	<.020	.005	<.018	<.003	<.006	.005

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
03...	.010	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.002	<.007	<.003	<.020	E.012

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
03...	E.006	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
05...	0915	>24000	3200	6000
09...	1034	1700	1800	3600
16...	1036	3500	700	350
23...	1030	1100	1500	360
30...	1032	2200	1000	460

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01378660 PASSAIC RIVER AT TEMPE WICK ROAD, NEAR MENDHAM, NJ

LOCATION.--Lat 40°46'17", long 74°34'12", Morris County, Hydrologic Unit 02030103, at bridge on Tempe Wick Road, 1.2 mi east of intersection of Tempe Wick Road and State Route 24, 0.6 mi upstream of Ledells Pond, and 1.7 mi east of Mendham.

DRAINAGE AREA.--1.80 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

COOPERATION.--Field data and sample for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV 29...	0800	--	.098	.077	754	89	11.4	7.4	181	20.0	4.5	53	12.9
FEB 27...	0800	--	.078	.059	753	80	10.8	7.5	265	--	2.5	48	12.0
MAY 24...	0800	--	.107	.084	749	72	7.5	7.1	213	14.0	12.6	55	13.5
AUG 14...	0800	6.8	.232	.182	750	79	7.2	7.0	207	20.0	19.0	52	12.8

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV 29...	5.07	1.06	12.2	33	19.7	E.1	23.3	15.2	120	111	E.030	.15	<.03
FEB 27...	4.43	.86	26.1	23	46.7	<.2	15.8	13.0	142	135	.040	.10	.04
MAY 24...	5.18	.86	17.6	34	30.4	E.1	23.5	15.0	129	128	<.030	.22	.03
AUG 14...	4.93	1.25	17.1	36	27.7	E.1	19.5	13.7	134	120	<.030	.31	<.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV 29...	.46	.303	<.003	.45	.76	.212	.010	.025	2.3	<.1	3.0	2.3	E1.8
FEB 27...	.20	.543	<.003	.64	.74	.046	.007	.021	.7	<.1	2.2	.7	<1.0
MAY 24...	.24	.348	<.003	.57	.58	.087	.015	.034	.8	<.1	3.1	.8	E1.4
AUG 14...	.46	.461	.004	.78	.92	.076	.023	.069	1.2	<.1	5.5	1.2	<1.1

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 29...	--	17	6
FEB 27...	--	18	3
MAY 24...	3.40	E10	6
AUG 14...	3.20	26	16

E Estimated value.
< Actual value is known to be less than the value shown.

01378660 PASSAIC RIVER AT TEMPE WICK ROAD, NEAR MENDHAM, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)
AUG												
14...	*0710*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
14...	0800	ENVIRONMENTAL	--	--	--	--	--	--	24	24.2	E.04	25
14...	0800	BED MATERIAL	7.00	130	1.4	210	4.5	<.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, DISSOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)
AUG													
14...	--	--	*<.2*	--	--	*<.08*	--	--	*<.01*	--	*<.06*	--	--
14...	.04	M	--	3.1	1070	--	2	80	--	<.01	--	2	.4
14...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MATERIAL AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)
AUG													
14...	--	*<1*	--	--	--	--	--	--	--	--	--	--	--
14...	<.05	--	9	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	<1	.1	15	4.8	11	10000	13	230	<.01	7.1

DATE	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<1	10000	E30	<50	E30	<50	E50	E30	90	220	200	170	120

DATE	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	190	240	E40	410	140	<50	<50	<50	<50	<50	<50	<50	<5

DATE	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG								
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	<50	<50	280	<50	E30	340	<1	3

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01378660 PASSAIC RIVER AT TEMPE WICK ROAD, NEAR MENDHAM, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB 27...	0800	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYLETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 27...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 27...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYLATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
MAY 24...	0800	<.004	<.002	<.005	E.002	<.010	E.060	<.020	<.005	<.018	<.003	E.003	E.002

DATE	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYLAZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)
MAY 24...	<.005	<.002	<.004	<.035	<.027	<.050	E.001	<.006	<.003	<.007	<.003	<.010	<.015

DATE	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 24...	<.011	<.016	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

01378660 PASSAIC RIVER AT TEMPE WICK ROAD, NEAR MENDHAM, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY				
23...	1155	5400	4500	4300
30...	1045	490	1100	900
JUN				
06...	1110	270	400	130
13...	1110	790	400	190
19...	1123	230	200	90

01378780 PRIMROSE BROOK AT MORRISTOWN NATIONAL HISTORICAL PARK, NJ

LOCATION.--Lat 40°45'54", long 74°31'48", Morris County, Hydrologic Unit 02030103, at bridge on Camp Trail Road in Morristown National Historical Park, 20 ft downstream of unnamed tributary, 500 ft west of Mount Kemble, and 2.4 mi northeast of Bernardsville.

DRAINAGE AREA.--1.07 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory. Analysis of the split and concurrent replicate samples was performed by the Laboratory Branch of the U.S. Environmental Protection Agency, Region II, Division of Environmental Science and Assessment.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Background, New Jersey Department of Environmental Protection Watershed Management Area 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
NOV												
16...	1050	ENVIRONMENTAL	.63	--	.044	.035	750	94	11.4	7.4	130	--
FEB												
26...	1010	ENVIRONMENTAL	2.6	--	.081	.062	749	95	12.4	6.7	88	11.0
MAY												
08...	1050	ENVIRONMENTAL	1.5	2.8	.040	.031	763	96	10.6	7.5	119	16.5
AUG												
21...	1150	ENVIRONMENTAL	.64	3.9	.052	.041	750	96	8.9	7.1	133	24.5
21...	*1150*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
21...	*1151*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	--	--	--	--

DATE	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
NOV													
16...	6.5	46	11.8	4.12	.96	5.4	38	5.8	E.1	27.3	14.9	94	94
FEB													
26...	3.5	31	7.86	2.72	.62	3.8	21	4.0	<.2	18.0	12.6	73	64
MAY													
08...	11.0	41	10.4	3.60	.55	5.6	31	5.5	E.1	23.0	14.9	90	89
AUG													
21...	18.0	47	12.0	4.10	.91	5.6	39	6.3	E.1	25.9	14.0	98	94
21...	--	*47*	*12.0*	*4.20*	*.99*	*6.0*	*39*	*5.8*	*<.1*	--	*13.0*	*100*	*68*
21...	--	*47*	*12.0*	*4.20*	*1.00*	*6.0*	*38*	*5.8*	*<.1*	--	*13.0*	*100*	*66*

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV													
16...	<.030	E.08	<.03	E.08	.124	<.003	--	--	.038	.004	--	--	.004
FEB													
26...	.050	E.09	.04	.13	.381	<.003	--	.51	.061	E.003	--	--	.011
MAY													
08...	<.030	E.08	<.03	.11	1.59	<.003	--	1.7	E.013	.005	--	--	.020
AUG													
21...	<.030	.12	<.03	.29	.337	<.003	.46	.63	.100	.014	<.020	<.020	.023
21...	*.025*	*.09*	*.03*	*<.10*	*.600*	*<.050*	*.69*	--	--	*.009*	*.042*	*.042*	*.022*
21...	*.025*	*.13*	*.03*	*.28*	*.270*	*<.050*	*.40*	*.55*	--	*.018*	*.046*	*.042*	*.032*

E Estimated value.
< Actual value is known to be less than the value shown.

01378780 PRIMROSE BROOK AT MORRISTOWN NATIONAL HISTORICAL PARK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV								
16...	.2	<.1	1.5	.2	<1.0	--	E12	3
FEB								
26...	.5	<.1	2.4	.5	<1.0	--	E12	6
MAY								
08...	.7	<.1	1.2	.7	<1.0	4.20	<13	5
AUG								
21...	1.0	<.1	1.8	1.0	--	.200	E13	6
21...	--	--	*.66*	--	--	--	*32*	*7*
21...	--	--	*.81*	--	--	--	*22*	*7*

DATE	TIME	SAMPLE TYPE	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
AUG												
21...	*1002*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
21...	1150	ENVIRONMENTAL	--	--	--	--	--	--	<2	12.0	E.03	9
21...	1150	BED MATERIAL	7.00	4000	17	780	66	<.2	--	--	--	--
21...	*1150*	*SPLIT REPLICATE*	--	--	--	--	--	--	*<2*	*13.0*	*<1.30*	*30*
21...	*1151*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	*<2*	*13.0*	*<1.30*	*21*

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
AUG													
21...	--	--	*<.2*	--	--	*<.08*	--	--	*<.01*	--	*<.06*	--	--
21...	E.03	<1	--	.9	280	--	<1	28	--	<.01	--	<1	<.4
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	*<1.00*	*<2*	--	*<1.5*	*350*	--	*3*	*20*	--	--	--	*<5*	*<1.8*
21...	*<1.00*	*<2*	--	*<2.5*	*260*	--	*2*	*20*	--	--	--	*<5*	*<1.8*

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA-TERIAL AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)
AUG													
21...	--	*<1*	--	--	--	--	--	--	--	--	--	--	--
21...	<.05	--	6	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	3	14	31	11	46	2500	33	510	.04	.4
21...	*<1.50*	--	*<8*	--	--	--	--	--	--	--	--	--	--
21...	*<1.50*	--	*<8*	--	--	--	--	--	--	--	--	--	--

DATE	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)
AUG													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	<1	80	<50	<50	<50	<50	E50	<50	<50	60	70	E50	<50

E Estimated value.
< Actual value is known to be less than the value shown.

01378780 PRIMROSE BROOK AT MORRISTOWN NATIONAL HISTORICAL PARK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)
AUG													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	E40	80	<50	110	E40	<50	<50	<50	<50	<50	<50	<50	<10

DATE	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG								
21...	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--
21...	<50	<50	<50	<50	<50	90	19	56

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB													
26...	1010	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB													
26...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB									
26...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY													
08...	1050	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
08...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
08...	<.011	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY				
23...	1213	130	<100	60
30...	1105	50	<100	80
JUN				
06...	1128	<20	<100	90
13...	1130	20	200	180
19...	1145	70	100	400

< Actual value is known to be less than the value shown.

01379200 DEAD RIVER NEAR MILLINGTON, NJ

LOCATION.--Lat 40°38'56", long 74°31'26", Morris County, Hydrologic Unit 02030103, at bridge on King George Road (Spur County Route 527), 100 ft upstream from mouth, 2.0 mi south of Millington, and 4.2 mi south of Basking Ridge.

DRAINAGE AREA.--20.8 mi^2.

PERIOD OF RECORD.--Water years 1962, 1963-65, 1967, 1998 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
14...	1310	E13	--	.143	.111	750	73	8.0	7.5	500	11.5	10.5	130
FEB													
26...	1310	153	--	.202	.159	757	90	12.0	6.6	558	11.5	3.0	87
MAY													
23...	1240	51	33	.226	.175	753	65	6.5	7.3	422	18.0	14.5	96
AUG													
30...	1140	5.5	20	.096	.071	759	91	8.2	7.5	712	25.5	20.0	160

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
14...	33.0	11.4	4.90	42.4	78	67.3	E.2	15.8	38.8	293	287	<.030	.52
FEB													
26...	22.2	7.74	1.54	63.9	28	135	<.2	10.4	14.6	311	278	.040	.26
MAY													
23...	24.5	8.34	2.70	38.7	55	68.8	E.1	13.3	25.1	252	223	.120	.71
AUG													
30...	41.3	14.4	6.99	72.1	79	109	.2	14.0	53.4	427	359	.070	.59

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
14...	<.03	.54	5.94	.014	6.5	6.5	.067	1.17	1.23	.7	<.1	4.8	.6
FEB													
26...	.16	.36	1.26	<.003	1.5	1.6	.080	.087	.096	.7	<.1	5.4	.7
MAY													
23...	.11	.89	1.90	.038	2.6	2.8	.245	.519	.619	1.9	<.1	6.9	1.9
AUG													
30...	.07	.64	E11.6	.015	--	--	.127	E2.57	2.70	.8	<.1	3.7	.8

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV				
14...	E1.1	--	230	4
FEB				
26...	E1.2	--	61	7
MAY				
23...	2.8	6.00	138	28
AUG				
30...	<1.0	4.50	312	11

E Estimated value.
< Actual value is known to be less than the value shown.

01379200 DEAD RIVER NEAR MILLINGTON, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY				
23...	1045	16000	500	3600
30...	1110	490	300	390
JUN				
06...	1045	2200	200	300
13...	1020	3500	1900	2500
19...	1015	3500	3000	890

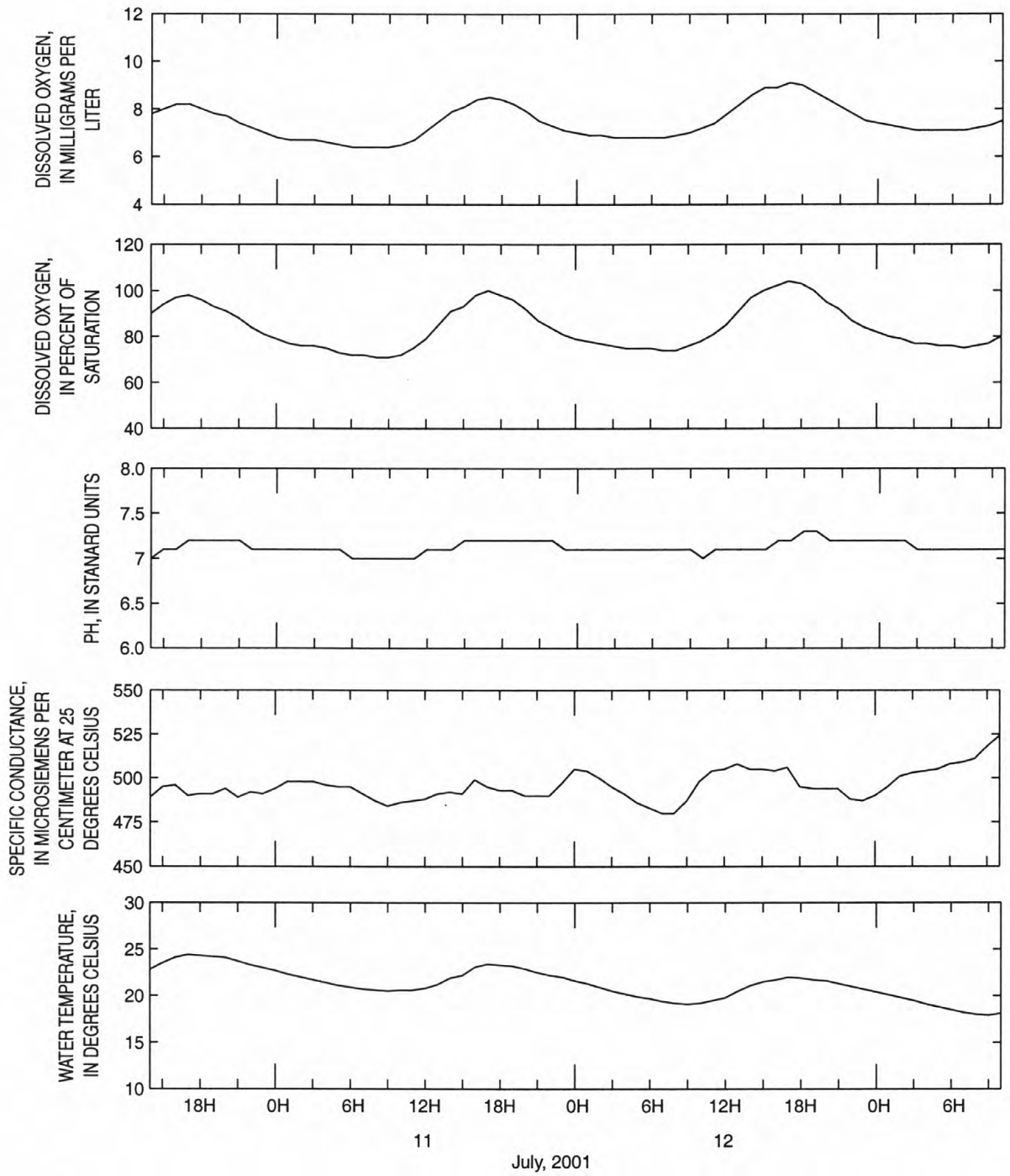


Figure 30. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01379200 Dead River near Millington, water year 2001.

01380098 BEAVER BROOK AT MORRIS AVENUE, AT DENVILLE, NJ

LOCATION.--Lat 40°54'21", long 74°29'50", Morris County, Hydrologic Unit 02030103, at bridge on Morris Avenue, 0.8 mi upstream of mouth, 1.3 mi northeast of Denville, and 1.4 mi downstream of White Meadow Lake.

DRAINAGE AREA.--22.1 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV 30...	1100	--	.160	.127	744	79	10.0	6.7	157	4.5	4.5	45	11.2
MAR 08...	1100	--	.081	.061	750	89	12.0	7.3	264	14.5	2.5	52	13.5
MAY 16...	1100	9.0	.163	.129	747	56	5.4	7.0	201	18.3	16.0	58	14.5
AUG 09...	1100	5.7	.187	.148	746	46	3.7	6.9	177	25.0	25.5	58	14.3

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV 30...	4.18	.94	10.9	27	20.7	<.2	10.7	11.1	89	87	.040	.25	.07
MAR 08...	4.35	.91	26.2	26	47.4	<.2	7.3	15.4	139	132	<.030	.14	<.03
MAY 16...	5.15	.93	15.0	38	29.9	E.1	9.3	8.8	144	107	.050	.29	.06
AUG 09...	5.34	.91	11.8	39	25.4	E.1	8.2	8.0	110	98	.080	.27	.09

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV 30...	.28	.244	<.003	.49	.52	.041	.008	.024	.7	<.1	4.0	.7	E1.1
MAR 08...	.19	.258	<.003	.40	.45	.032	.004	.015	.4	<.1	2.7	.3	<1.0
MAY 16...	.55	.191	.009	.48	.74	.078	.010	.068	.6	<.1	3.4	.6	E1.4
AUG 09...	.34	.133	<.003	.41	.48	.087	.014	.014	.6	<.1	3.8	.6	E1.7

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 30...	--	E8	5
MAR 08...	--	13	1
MAY 16...	3.20	14	16
AUG 09...	7.70	E11	5

E Estimated value.
< Actual value is known to be less than the value shown.

01380098 BEAVER BROOK AT MORRIS AVENUE, AT DENVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG 09...	1100	E2	10.7	<.06	14	E.02	<1	1.1	1090	<1	184	<.01	<1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 09...	<.4	<.05	3

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
MAR 08...	1100	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
MAR 08...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	E.1

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
MAR 08...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 16...	1100	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

E Estimated value.
< Actual value is known to be less than the value shown.

01380098 BEAVER BROOK AT MORRIS AVENUE, AT DENVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
16...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (&2665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
16...	<.011	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY				
23...	1040	3500	2000	2300
30...	0945	230	<100	300
JUN				
06...	1015	330	500	120
13...	1020	210	200	200
19...	1025	790	700	430

< Actual value is known to be less than the value shown.

01380100 BEAVER BROOK AT ROCKAWAY, NJ

LOCATION.--Lat 40°54'08", long 74°30'06", Morris County, Hydrologic Unit 02030103, at bridge on Gill Road in Rockaway, and 0.2 mi above mouth.

DRAINAGE AREA.--22.7 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 13...	1110	12	--	.192	.151	748	82	9.3	7.2	196	--	9.0	55
FEB 12...	1050	63	--	.092	.070	764	94	13.4	7.2	292	3.0	1.0	71
MAY 02...	1110	19	4.1	.128	.100	756	95	8.9	7.5	213	30.5	18.0	55
AUG 22...	1140	4.8	5.0	.146	.114	750	88	7.6	7.0	205	26.0	22.0	58

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 13...	13.5	5.19	1.62	13.3	33	26.5	E.1	10.9	14.6	114	106	.030	.30
FEB 12...	19.3	5.63	1.33	25.5	34	46.7	E.1	7.6	23.9	163	152	.040	.25
MAY 02...	14.5	4.59	.97	16.6	35	33.7	E.1	6.8	12.7	132	111	<.030	.27
AUG 22...	14.6	5.21	1.03	13.7	40	30.6	E.1	8.2	9.9	121	108	<.030	.25

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV 13...	.03	.34	.071	<.003	.37	.42	.042	.011	.027	.4	<.1	5.4	.4
FEB 12...	.04	.22	.352	.003	.60	.57	.113	.006	.018	.9	<.1	3.0	.9
MAY 02...	<.03	.34	.123	.006	.39	.46	.104	.013	.029	.5	<.1	3.4	.5
AUG 22...	<.03	.29	.213	<.003	.46	.50	.043	.017	.044	.4	<.1	3.4	.4

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 13...	4.8	--	E13	3
FEB 12...	<1.0	--	E13	4
MAY 02...	E1.8	7.70	E7	12
AUG 22...	<1.0	2.80	E11	14

E Estimated value.
< Actual value is known to be less than the value shown.

01380100 BEAVER BROOK AT ROCKAWAY, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23...	1055	5400	1200	2000	06...	1028	220	300	120
30...	1000	170	<100	310	13...	1030	340	200	150
					19...	1039	940	100	400

< Actual value is known to be less than the value shown.

01381800 WHIPPANY RIVER NEAR PINE BROOK, NJ

LOCATION.--Lat 40°50'42", long 74°20'51", Morris County, Hydrologic Unit 02030103, at site of former bridge on Edwards Road, 200 ft downstream from bridges on Interstate 280, 0.4 mi upstream from Rockaway River, and 1.2 mi southwest of Pine Brook. Water-quality samples collected 450 ft upstream at bridge on Ridgedale Avenue.

DRAINAGE AREA.--68.5 mi^2.

PERIOD OF RECORD.--Water years 1963 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
14...	1100	74	--	.336	.257	755	71	7.9	7.4	460	--	10.0	130
FEB													
15...	1100	199	--	.153	.116	758	84	10.9	7.3	754	5.0	4.0	130
MAY													
10...	1100	50	--	.093	.067	758	73	6.9	7.5	568	24.0	18.0	160
AUG													
30...	1030	27	3.9	.118	.087	759	91	8.0	7.8	631	25.0	21.5	170

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
14...	32.6	11.0	3.51	36.1	74	75.3	E.1	15.1	25.1	268	250	.030	.66
FEB													
15...	35.2	10.9	2.67	85.9	65	165	E.1	11.0	24.8	412	381	.170	.45
MAY													
10...	39.6	14.2	3.32	47.4	86	104	E.1	13.2	25.3	350	310	.200	.59
AUG													
30...	43.9	15.4	3.65	53.7	94	116	<.2	13.5	28.8	379	332	.090	.42

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
14...	<.03	.75	1.55	.003	2.2	2.3	.125	.164	.255	1.1	<.1	8.3	1.1
FEB													
15...	.19	.50	1.45	.056	1.9	1.9	.086	E.048	.099	.7	<.1	4.6	.7
MAY													
10...	.20	.84	2.56	.042	3.2	3.4	.190	.160	.324	1.8	M	3.2	E1.8
AUG													
30...	.07	.49	E3.14	.011	--	--	.079	.280	.289	.5	<.1	3.9	.5

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01381800 WHIPPANY RIVER NEAR PINE BROOK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
14...	E1.3	--	67	10
FEB				
15...	<1.0	--	46	7
MAY				
10...	E1.7	13.1	78	27
AUG				
30...	<1.3	11.3	99	<1

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY				
23...	1015	9200	4400	8200
30...	0926	5400	<100	2300

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN				
06...	0945	330	100	150
13...	0953	330	400	320
19...	1000	2200	1300	490

E Estimated value.
< Actual value is known to be less than the value shown.

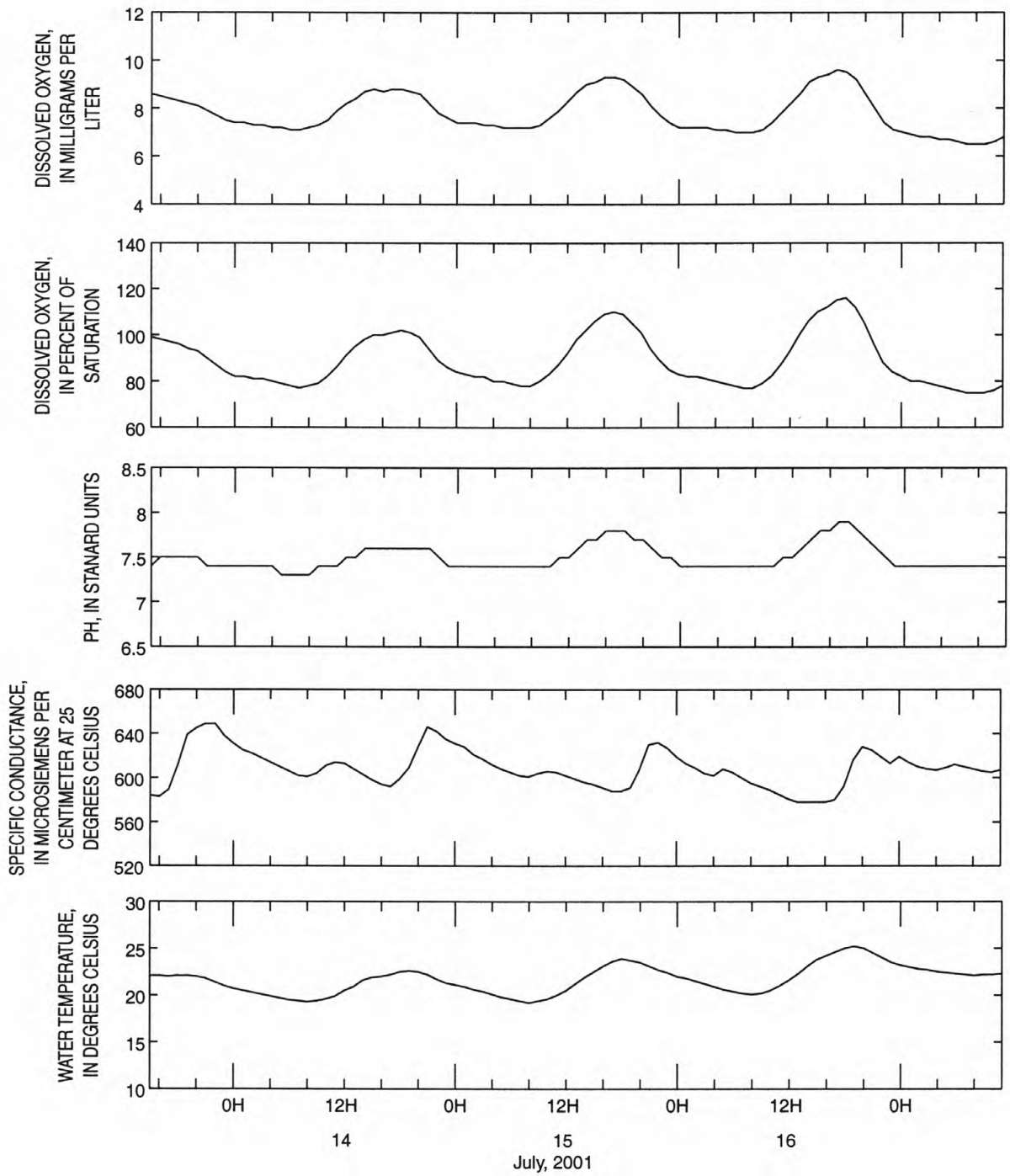


Figure 31. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01381800 Whippany River near Pine Brook, water year 2001.

01382000 PASSAIC RIVER AT TWO BRIDGES, NJ

LOCATION.--Lat 40°53'50", long 74°16'23", Passaic County, Hydrologic Unit 02030103, at bridge on Two Bridges Road in Two Bridges, and 50 ft upstream from Pompton River.

DRAINAGE AREA.--361 mi^2.

PERIOD OF RECORD.--Water years 1962 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1969 to September 1974.
pH: June 1969 to September 1974.
WATER TEMPERATURE: October 1962 to May 1969 (once daily), June 1969 to September 1974.
DISSOLVED OXYGEN: June 1969 to September 1974.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
14...	1020	336	--	.348	.278	753	51	5.6	7.3	418	12.0	10.5	100
FEB													
21...	1230	810	--	.168	.128	759	98	12.9	7.6	504	5.0	3.5	97
MAY													
02...	0930	230	14	.150	.114	760	91	8.5	7.6	590	25.5	18.5	140
AUG													
23...	1320	143	20	.129	.094	755	87	7.2	7.5	590	27.0	24.5	140

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
14...	25.6	9.13	4.57	37.2	67	60.9	E.1	12.6	32.4	244	230	.060	.72
FEB													
21...	24.7	8.49	2.52	51.5	51	96.7	<.2	11.3	22.3	276	255	.050	.31
MAY													
02...	35.2	12.1	3.55	54.2	84	105	E.1	9.9	29.1	344	310	.080	.46
AUG													
23...	35.9	12.7	5.65	53.6	83	102	<.2	13.6	34.8	342	325	<.030	.40

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
14...	.16	.84	1.62	.019	2.3	2.5	.173	.358	.445	1.2	<.1	8.9	1.1
FEB													
21...	.04	.43	1.48	.013	1.8	1.9	.052	.155	.187	.6	<.1	4.6	.6
MAY													
02...	.10	.76	2.41	.034	2.9	3.2	.250	.294	.473	1.5	<.1	4.7	1.5
AUG													
23...	.03	.71	3.65	.032	4.0	4.4	.324	.497	.592	2.1	<.1	4.3	2.1

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
14...	2.7	--	109	15
FEB				
21...	<1.2	--	61	8
MAY				
02...	3.3	43.4	113	22
AUG				
23...	E1.6	78.0	141	29

E Estimated value.
< Actual value is known to be less than the value shown.

01382000 PASSAIC RIVER AT TWO BRIDGES, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
02...	1300	110	100	40
11...	1155	220	<100	90
18...	1200	130	100	30
25...	1145	40	20	<100
AUG				
02...	1250	80	<100	20

< Actual value is known to be less than the value shown.

01382410 MACOPIN RIVER AT ECHO LAKE, NJ

LOCATION.--Lat 41°02'54", long 74°24'22", Passaic County, Hydrologic Unit 02030103, at bridge on Echo Lake Road, 0.1 mi downstream of Echo Lake, 1.0 mi southwest of community of Echo Lake, and 1.6 mi east of Newfoundland.

DRAINAGE AREA.--4.42 mi^2.

PERIOD OF RECORD.--Water year 1998, October 1999 to present.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
21...	0945	--	.256	.189	737	95	11.6	7.4	120	--	5.5	36	9.20
FEB													
14...	1000	--	.254	.188	744	100	13.3	7.4	133	4.0	2.5	35	8.88
MAY													
22...	1030	3.1	.189	.141	736	79	7.9	7.2	125	16.0	13.5	39	10.3
AUG													
02...	1030	1.3	.066	.048	748	79	7.1	7.7	309	27.0	19.5	100	26.8

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
21...	3.21	.50	8.1	22	13.6	<.2	3.7	8.0	78	60	.080	.53	.09
FEB													
14...	3.22	.57	9.3	21	16.6	<.2	3.9	8.4	84	65	.040	.43	.06
MAY													
22...	3.29	.53	7.7	27	14.9	<.2	3.5	7.5	81	65	.030	.39	.06
AUG													
02...	8.89	.68	20.0	85	39.8	E.1	11.1	8.1	173	167	<.030	.11	.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV													
21...	.74	.179	.004	.71	.92	.147	.007	.032	.9	<.1	6.9	.9	E1.7
FEB													
14...	.55	.249	<.003	.68	.80	.173	.008	.025	1.0	<.1	6.9	1.0	E1.8
MAY													
22...	.55	.181	<.003	.57	.73	.161	.013	.036	1.1	<.1	5.4	1.1	2.2
AUG													
02...	.14	.227	<.003	.34	.37	.040	.024	.027	.3	<.1	2.2	.3	<1.0

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV			
21...	--	E7	7
FEB			
14...	--	E12	4
MAY			
22...	16.9	E7	9
AUG			
02...	.400	13	4

E Estimated value.
< Actual value is known to be less than the value shown.

01382410 MACOPIN RIVER AT ECHO LAKE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG 02...	1030	M	9.6	<.06	17	<.04	<1	1.1	100	<1	41	<.01	<1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 02...	<.4	<.05	2

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 14...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 14...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 14...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 22...	1030	<.004	<.002	<.005	E.005	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01382410 MACOPIN RIVER AT ECHO LAKE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
22...	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	E.002

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
22...	<.011	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
02...	0945	<20	<100	70
09...	0945	<20	<100	40
16...	1000	20	100	20
23...	0955	<20	100	10
30...	0935	<20	<100	20

E Estimated value.
< Actual value is known to be less than the value shown.

01382500 PEQUANNOCK RIVER AT MACOPIN INTAKE DAM, NJ

LOCATION.--Lat 41°01'05", long 74°24'07", Morris County, Hydrologic Unit 02030103, at culvert on crossover between northbound and southbound lanes on State Route 23, 1,000 ft downstream from Macopin Intake Dam, 0.6 mi downstream from Macopin River, and 2.8 mi northwest of Butler.

DRAINAGE AREA.--63.7 mi^2.

PERIOD OF RECORD.--Water years 1924, 1962-69, 1973-79, 1991 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
29...	1000	14	--	.252	.193	752	115	14.5	7.6	155	7.0	5.0	41
FEB													
21...	1000	15	--	.127	.096	750	101	13.5	7.9	229	3.5	2.5	47
MAY													
24...	1000	12	2.1	.254	.196	750	89	9.0	7.5	218	15.0	14.0	48
AUG													
29...	1000	.33	.8	.069	.051	750	78	6.9	7.3	291	--	20.5	84

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
29...	10.3	3.71	.91	11.9	24	20.4	<.2	6.8	9.3	94	80	<.030	.35
FEB													
21...	12.1	4.00	.71	22.2	24	42.8	<.2	7.4	10.3	122	116	<.030	.17
MAY													
24...	12.4	4.19	.94	20.6	29	36.8	E.1	7.3	9.1	129	110	<.030	.36
AUG													
29...	22.0	7.14	1.08	21.7	61	44.4	E.1	6.4	11.2	160	150	<.030	.28

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
29...	<.03	.44	.401	.008	.75	.84	.079	.009	.021	.5	<.1	6.5	.5
FEB													
21...	.04	.25	.472	<.003	.65	.72	<.022	.006	.011	.3	<.1	3.4	.3
MAY													
24...	<.03	.39	.202	<.003	.56	.59	.100	.027	.034	.7	<.1	6.3	.7
AUG													
29...	<.03	.20	E.087	<.003	--	--	.028	.011	.010	.2	<.1	2.4	.2

E Estimated value.
< Actual value is known to be less than the value shown.

01382500 PEQUANNOCK RIVER AT MACOPIN INTAKE DAM, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
29...	<1.0	--	17	<1
FEB				
21...	<1.0	--	E12	1
MAY				
24...	E1.4	3.30	13	3
AUG				
29...	<1.0	1.40	18	1

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
02...	1002	50	<100	480
09...	1000	20	200	270
16...	1015	<20	<100	20
23...	1010	50	<100	20
30...	0950	<20	100	50

E Estimated value.
< Actual value is known to be less than the value shown.

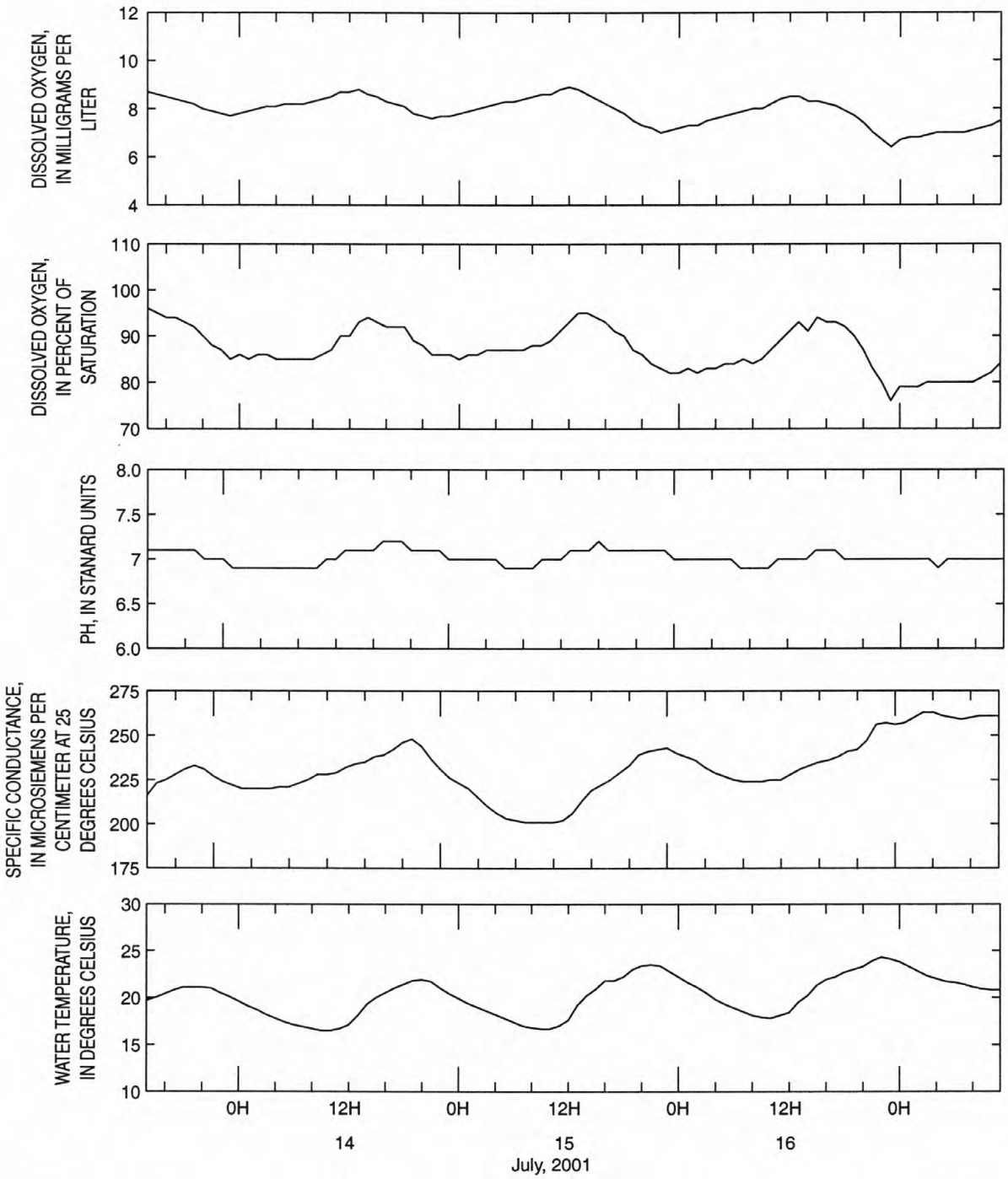


Figure 32. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01382500 Pequannock River at Macopin Intake Dam, water year 2001.

01387014 WANAQUE RIVER AT WANAQUE AVENUE, AT POMPTON LAKES, NJ

LOCATION.--Lat 41°00'25", long 74°17'34", Passaic County, Hydrologic Unit 02030103, at bridge on Wanaque Avenue in Pompton Lakes, 0.1 mi north of intersection of Wanaque Avenue and Paterson Hamburg Turnpike, and 0.1 mi downstream of Lake Inez.

DRAINAGE AREA.--48.0 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
21...	1000	--	.071	.055	751	99	10.0	7.4	240	5.5	14.0	60	16.4
FEB													
15...	1000	--	.068	.051	752	104	13.6	7.6	363	7.5	3.5	72	19.9
MAY													
22...	1100	7.0	.100	.077	752	83	8.8	7.6	235	19.1	12.0	57	15.6
AUG													
16...	1100	2.2	.067	.051	758	92	8.5	7.5	271	21.5	19.0	67	17.6

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
21...	4.72	1.62	20.2	40	32.7	<.2	5.4	15.1	134	122	.530	.89	.53
FEB													
15...	5.47	1.71	39.0	39	68.4	<.2	7.5	18.1	204	188	.200	.36	.20
MAY													
22...	4.48	1.81	22.6	33	41.4	<.2	5.3	15.3	145	130	.150	.39	.22
AUG													
16...	5.50	1.96	28.1	40	45.7	<.2	4.8	22.5	158	152	.120	.27	.45

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV													
21...	.97	.306	.011	1.2	1.3	.095	.064	.083	.8	<.1	3.7	.8	2.9
FEB													
15...	.35	.930	.006	1.3	1.3	.214	.012	.030	1.4	<.1	2.6	1.3	E1.0
MAY													
22...	.48	.715	.021	1.1	1.2	.118	.023	.054	.9	<.1	4.4	.9	3.2
AUG													
16...	.41	.430	.012	.70	.84	.063	.037	.043	.4	<.1	3.0	.4	E1.3

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV			
21...	--	36	5
FEB			
15...	--	24	7
MAY			
22...	9.40	24	3
AUG			
16...	6.80	37	3

E Estimated value.
< Actual value is known to be less than the value shown.

01387014 WANAQUE RIVER AT WANAQUE AVENUE, AT POMPTON LAKES, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG 16...	1100	<2	10.3	<.06	36	E.02	<1	2.5	140	<1	93	.15	<1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 16...	E.2	<.05	10

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 15...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 15...	<.10	<.2	.11	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.3

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 15...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 22...	1100	<.004	<.002	<.005	E.006	<.010	E.169	<.020	<.005	<.018	<.003	<.006	.013

E Estimated value.
< Actual value is known to be less than the value shown.

01387014 WANAQUE RIVER AT WANAQUE AVENUE, AT POMPTON LAKES, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
22...	<.005	<.002	<.004	<.035	E.070	<.050	<.013	<.006	<.002	<.007	<.003	<.010	E.006

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
22...	E.004	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
02...	1026	9200	2200	5700
09...	1020	790	300	620
16...	1015	330	100	30
23...	1030	490	400	150
30...	1010	170	200	160

E Estimated value.
< Actual value is known to be less than the value shown.

01387500 RAMAPO RIVER NEAR MAHWAH, NJ

LOCATION.--Lat 41°05'51", long 74°09'48", Bergen County, Hydrologic Unit 02030103, 350 ft downstream from bridge on State Highway 17, 0.6 mi downstream from Mahwah River, and 1.0 mi west of Mahwah. Water-quality samples collected at bridge, 350 ft upstream from gage, at high flows.

DRAINAGE AREA.--120 mi^2.

PERIOD OF RECORD.--Water years 1963 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: February 1964 to June 1965.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Mixed Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 16...	0800	105	--	.106	.082	753	76	9.2	7.7	410	--	6.5	83
FEB 20...	0830	235	--	.062	.047	756	87	11.9	7.6	447	3.5	2.0	81
MAY 08...	0800	72	2.3	.077	.060	762	72	7.4	7.8	541	8.0	14.0	130
AUG 02...	0800	22	3.9	.077	.060	760	70	6.1	7.4	686	23.0	22.0	150

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 16...	23.0	6.22	1.95	36.1	60	59.4	E.1	7.3	15.3	199	192	<.030	.31
FEB 20...	22.6	5.85	1.16	45.7	47	79.2	<.2	6.8	12.6	221	206	.090	.24
MAY 08...	34.9	9.90	1.92	51.2	86	98.1	<.2	4.7	15.8	293	274	.120	.47
AUG 02...	39.5	11.5	3.00	69.5	93	127	E.1	7.5	21.6	370	347	.270	.57

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN,PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV 16...	<.03	.28	1.65	.005	2.0	1.9	.058	.157	.158	.6	<.1	3.5	.6
FEB 20...	.10	.25	.853	.007	1.1	1.1	.058	<.050	E.035	.4	<.1	2.4	.4
MAY 08...	.17	.56	1.34	.033	1.8	1.9	.200	.114	.151	E1.3	<.1	2.5	E1.3
AUG 02...	.28	.74	2.65	.074	3.2	3.4	.139	.397	.460	.9	<.1	2.9	.9

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 16...	5.0	--	39	7
FEB 20...	E1.7	--	19	2
MAY 08...	2.6	15.8	42	<1
AUG 02...	E1.6	25.6	78	7

E Estimated value.
< Actual value is known to be less than the value shown.

01387500 RAMAPO RIVER NEAR MAHWAH, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
05...	0900	460	1600	2000	16...	0923	9200	1600	130
09...	0927	1200	800	570	23...	0915	1700	<100	200
					30...	0913	3500	400	350

< Actual value is known to be less than the value shown.

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ

LOCATION.--Lat 40°59'33", long 74°16'44", Passaic County, Hydrologic Unit 02030103, in Pompton Lakes, at bridge on Paterson-Hamburg Turnpike, 2.0 mi upstream from mouth, and 450 ft downstream from dam.

DRAINAGE AREA.--160 mi^2.

PERIOD OF RECORD.--Water years 1923, 1962-67, 1982, 1987 to current year.
NUTRIENT AND INORGANIC CHEMICAL DATA: Water years 1923, 1962-67, 1982, 1987-96.

PERIOD OF DAILY RECORD.--
DISSOLVED OXYGEN: April 1989 to current year.
SPECIFIC CONDUCTANCE: April 1989 to current year.
WATER TEMPERATURE: April 1989 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1989, pumping system, data recorded hourly.

REMARKS.--Stage is measured on right end of dam at pumping station, 450 ft upstream from bridge. Nutrient and inorganic chemical data from 1987-96 was collected at the same location (above dam); data from earlier years was probably collected at bridge, 450 ft below dam. Interruptions in the daily record were due to instrument or pumping system malfunction. The calibration of water-quality sensors is verified by regular inspections. Cleaning or recalibration is needed occasionally as a result of sensor fouling or drift. When a sensor is recalibrated, the continuous-record water-quality data for the period between inspections are adjusted to account for the difference between the sensor's response and a known value. The adjustment may be constant over the period or may be prorated. Continuous-record water-quality data for periods for which the difference between the sensor's response and a known value does not exceed recalibration criteria are considered to be reliable and are not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection"). Data from the following periods were adjusted:
DISSOLVED OXYGEN: Oct. 1 to Nov. 21, Dec. 21 to Jan. 18, Apr. 3 to May 15, May 31 to Jun. 18, Jun. 19 to Sept. 13, and Sept. 17 to Sept. 30.
SPECIFIC CONDUCTANCE: Nov. 8 to Nov. 21, Jan. 18 to Feb. 1, May 15 to May 31, Jul. 18 to Aug. 23, Aug. 30 to Sept. 13.

EXTREMES FOR PERIOD OF DAILY RECORD.--
DISSOLVED OXYGEN: maximum, 15.2 mg/L, Jan. 15, 2000; minimum, 4.5 mg/L, Aug. 4, 1999.
SPECIFIC CONDUCTANCE: maximum, 842 uS/cm, Jan. 18, 1999; minimum, 88 uS/cm, Sept. 7, 1999.
WATER TEMPERATURE: maximum, 31.5 °C, Jul. 5, 1999; minimum, 0.0 °C, on several days during winters.

EXTREMES FOR CURRENT YEAR.--
DISSOLVED OXYGEN: Maximum, 15.0 mg/L, Feb. 24; minimum, 5.7 mg/L, Aug. 10.
SPECIFIC CONDUCTANCE: Maximum, 828 uS/cm, Mar. 12; minimum, 193 uS/cm, Dec. 19.
WATER TEMPERATURE: Maximum, 29.9°C, Aug. 9; minimum, 0.4°C, Jan. 2, 3, 4, 5.

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.5	9.1	9.3	14.7	11.2	12.2	---	---	---	14.1	13.9	14.1
2	9.4	8.7	9.1	12.9	10.8	11.7	---	---	---	14.2	14.0	14.2
3	9.4	8.6	8.9	---	---	---	---	---	---	14.3	14.0	14.1
4	9.4	8.6	8.9	12.1	10.8	11.3	---	---	---	---	---	---
5	10.0	8.6	9.0	11.9	10.6	11.1	---	---	---	---	---	---
6	10.2	8.8	9.1	12.1	10.6	11.2	---	---	---	---	---	---
7	9.4	8.9	9.1	12.0	10.7	11.2	---	---	---	14.6	14.1	14.3
8	10.3	9.0	9.4	11.6	9.7	10.5	---	---	---	14.2	13.9	14.0
9	10.6	9.2	9.6	10.4	9.6	9.9	---	---	---	14.1	13.8	14.0
10	11.2	9.4	9.9	10.3	9.8	10.1	---	---	---	14.3	13.9	14.1
11	10.4	9.7	10.0	10.4	10.2	10.3	---	---	---	14.3	14.0	14.2
12	10.1	9.4	9.8	10.6	10.3	10.4	---	---	---	14.4	14.1	14.2
13	10.2	9.4	9.8	10.7	10.4	10.5	---	---	---	14.5	14.2	14.3
14	10.1	9.3	9.7	10.5	10.4	10.5	---	---	---	14.5	14.3	14.4
15	9.7	8.9	9.3	10.9	10.5	10.7	---	---	---	14.5	14.2	14.3
16	9.0	8.9	8.9	11.0	10.9	10.9	14.1	13.7	13.9	14.4	14.2	14.3
17	9.4	9.0	9.2	11.0	10.8	10.9	13.7	12.3	13.2	14.5	14.3	14.4
18	9.4	9.1	9.2	11.3	10.9	11.1	13.2	12.3	12.7	14.5	14.3	14.4
19	9.7	9.2	9.5	11.5	11.1	11.3	13.5	13.1	13.4	14.3	14.1	14.2
20	9.8	9.4	9.5	11.6	11.3	11.4	13.8	13.3	13.6	14.2	14.1	14.1
21	9.8	9.4	9.6	---	---	---	13.9	13.7	13.8	14.3	14.0	14.2
22	9.8	9.3	9.5	---	---	---	13.9	13.7	13.7	14.6	14.3	14.5
23	10.0	9.3	9.6	---	---	---	14.2	13.9	14.1	14.6	14.4	14.5
24	10.0	9.4	9.6	---	---	---	14.2	14.0	14.1	14.6	14.4	14.5
25	10.1	9.4	9.7	---	---	---	14.2	14.0	14.1	14.7	14.5	14.6
26	10.5	9.7	10.0	---	---	---	14.3	14.0	14.1	14.8	14.6	14.7
27	11.1	9.5	10.0	---	---	---	14.0	13.9	13.9	14.6	14.4	14.5
28	11.4	9.4	10.2	---	---	---	14.0	13.8	13.9	14.8	14.6	14.7
29	11.3	9.5	10.5	---	---	---	14.0	13.8	13.9	14.8	14.5	14.7
30	12.1	10.4	11.2	---	---	---	13.8	13.6	13.7	14.5	14.3	14.4
31	14.5	11.0	11.9	---	---	---	14.0	13.6	13.8	14.5	14.3	14.4
MONTH	14.5	8.6	9.6	14.7	9.6	10.9	14.3	12.3	13.7	14.8	13.8	14.3

PASSAIC RIVER BASIN

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.5	14.3	14.4	14.2	14.0	14.1	---	---	---	9.7	9.2	9.5
2	14.4	14.2	14.3	14.2	14.0	14.1	---	---	---	9.6	9.0	9.3
3	14.3	14.1	14.3	14.3	14.0	14.1	---	---	---	9.2	8.5	8.9
4	14.5	14.3	14.4	14.3	14.1	14.2	12.4	11.9	12.2	8.8	7.7	8.3
5	14.5	14.4	14.4	14.4	14.0	14.2	12.0	11.5	11.8	8.4	7.7	8.1
6	14.7	14.4	14.6	14.6	14.2	14.4	11.7	11.4	11.5	8.9	8.2	8.5
7	14.9	14.6	14.8	14.7	14.4	14.5	11.6	11.3	11.4	9.0	8.4	8.7
8	14.9	14.6	14.8	14.5	14.3	14.4	11.5	11.2	11.4	9.1	8.5	8.8
9	14.6	14.2	14.4	14.3	14.0	14.2	11.4	10.3	11.0	9.1	8.0	8.6
10	14.3	14.0	14.2	14.3	13.9	14.1	10.3	10.0	10.2	8.6	7.8	8.2
11	14.5	14.2	14.4	14.1	13.9	14.0	10.2	9.8	10.0	8.5	7.8	8.2
12	14.7	14.5	14.6	14.2	13.6	14.0	10.1	9.9	10.0	8.4	7.5	8.0
13	14.8	14.5	14.7	13.8	13.6	13.7	10.1	9.7	9.8	8.2	7.5	7.8
14	14.7	14.4	14.6	13.8	13.6	13.7	10.1	9.4	9.8	8.4	7.7	8.1
15	14.5	14.3	14.4	13.9	13.7	13.8	9.7	9.2	9.4	8.7	7.8	8.2
16	14.4	14.2	14.3	13.9	13.4	13.7	9.6	9.2	9.4	8.7	7.8	8.3
17	14.4	14.1	14.3	13.6	13.4	13.5	9.8	9.3	9.6	8.8	8.2	8.5
18	14.6	14.4	14.5	13.8	13.4	13.5	10.2	9.6	10.0	8.8	8.5	8.7
19	14.6	14.5	14.5	---	---	---	10.4	10.1	10.3	8.9	8.1	8.5
20	14.6	14.5	14.5	---	---	---	10.5	10.2	10.4	8.7	8.0	8.4
21	14.6	14.4	14.5	---	---	---	10.5	10.2	10.4	8.9	8.4	8.6
22	14.7	14.4	14.6	---	---	---	10.5	9.6	10.2	9.1	8.6	8.9
23	14.7	14.3	14.5	---	---	---	10.5	9.3	9.8	9.2	9.0	9.1
24	15.0	14.7	14.8	---	---	---	9.7	9.0	9.3	9.3	8.9	9.1
25	14.8	14.6	14.7	---	---	---	9.5	9.0	9.3	9.3	8.9	9.1
26	14.7	14.5	14.6	---	---	---	9.7	9.4	9.5	9.4	9.2	9.3
27	14.6	14.2	14.4	---	---	---	9.6	9.3	9.5	9.3	9.2	9.2
28	14.4	14.1	14.2	---	---	---	9.6	9.3	9.5	9.3	9.0	9.2
29	---	---	---	---	---	---	9.8	9.4	9.6	9.3	8.8	9.0
30	---	---	---	---	---	---	10.0	9.4	9.7	9.3	8.8	9.1
31	---	---	---	---	---	---	---	---	---	9.3	8.4	8.8
MONTH	15.0	14.0	14.5	14.7	13.4	14.0	12.4	9.0	10.2	9.7	7.5	8.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.9	8.4	8.6	---	---	---	8.1	7.0	7.5	8.0	6.5	7.1
2	9.1	8.7	8.9	---	---	---	7.7	6.7	7.1	7.9	6.5	7.2
3	9.1	9.0	9.1	---	---	---	7.4	6.5	6.9	8.2	6.9	7.6
4	9.1	8.9	9.0	---	---	---	7.2	6.6	6.8	8.3	7.2	7.6
5	9.1	8.7	8.9	---	---	---	7.2	6.3	6.7	8.4	6.9	7.6
6	9.0	8.6	8.8	7.5	7.0	7.2	7.3	6.1	6.7	8.3	6.0	7.2
7	8.9	8.5	8.7	7.7	7.0	7.3	7.2	6.4	6.8	8.5	6.5	7.5
8	8.9	8.5	8.7	7.7	6.9	7.3	7.1	6.1	6.6	8.6	7.1	7.8
9	8.9	8.4	8.7	7.4	6.5	7.0	7.2	5.8	6.5	8.6	7.3	7.9
10	9.0	8.4	8.7	7.3	6.6	6.9	6.9	5.7	6.4	8.2	7.2	7.6
11	9.0	8.5	8.7	7.3	6.4	6.9	7.0	6.3	6.6	8.5	6.9	7.7
12	9.2	8.4	8.8	7.6	6.7	7.2	---	---	---	8.4	7.3	7.7
13	8.8	8.2	8.5	7.9	7.0	7.5	---	---	---	---	---	---
14	9.0	8.1	8.4	8.0	7.3	7.6	---	---	---	---	---	---
15	10.9	8.3	9.9	7.9	7.1	7.5	---	---	---	---	---	---
16	10.5	9.2	9.7	7.9	7.1	7.4	8.2	6.6	7.5	---	---	---
17	9.7	8.4	9.2	7.9	7.0	7.4	7.8	6.6	7.1	---	---	---
18	9.5	7.5	8.6	8.0	6.5	7.2	8.0	6.6	7.3	---	---	---
19	9.9	8.3	8.9	9.3	7.9	8.6	7.7	6.4	7.0	---	---	---
20	9.1	7.5	8.4	9.0	8.0	8.5	7.6	6.3	6.8	---	---	---
21	8.5	7.0	7.9	9.3	8.6	9.0	7.6	6.3	7.0	---	---	---
22	8.2	6.6	7.4	9.1	7.8	8.4	7.5	6.2	6.9	---	---	---
23	7.8	6.3	7.0	8.5	7.6	8.0	7.0	6.1	6.6	---	---	---
24	8.6	7.3	8.0	8.5	7.6	8.0	7.5	6.6	7.0	---	---	---
25	9.9	8.2	8.7	8.1	7.3	7.7	7.7	6.7	7.1	---	---	---
26	9.5	8.0	8.5	7.4	6.9	7.2	7.9	6.8	7.3	---	---	---
27	8.9	8.2	8.6	7.9	6.9	7.4	7.8	6.8	7.2	---	---	---
28	8.7	7.5	8.1	8.2	7.1	7.6	8.2	6.8	7.4	---	---	---
29	8.0	7.2	7.5	8.2	7.3	7.8	8.2	7.0	7.5	---	---	---
30	7.7	6.2	7.2	8.4	7.5	7.9	7.7	6.5	7.1	---	---	---
31	---	---	---	8.1	7.3	7.7	7.6	6.3	6.8	---	---	---
MONTH	10.9	6.2	8.5	9.3	6.4	7.6	8.2	5.7	7.0	8.6	6.0	7.5
YEAR	15.0	5.7	10.5									

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	371	368	370	508	491	497	309	299	305	336	328	332
2	378	371	374	512	484	499	301	291	297	338	336	338
3	379	373	375	506	481	493	293	290	291	338	337	338
4	378	375	376	505	477	494	290	289	289	341	338	339
5	385	376	383	518	505	512	293	290	292	348	341	344
6	399	384	390	527	518	524	295	293	294	355	348	351
7	401	393	398	532	527	530	298	295	296	362	355	358
8	402	398	400	535	532	533	301	298	299	372	362	366
9	404	400	402	536	529	533	304	301	302	387	372	379
10	412	403	408	529	511	518	313	304	308	402	387	394
11	434	412	424	530	521	527	321	313	317	423	402	413
12	429	418	423	529	524	526	329	321	325	453	423	438
13	428	420	424	525	519	522	336	329	332	483	453	472
14	437	423	430	519	509	514	343	332	336	499	483	493
15	449	423	436	509	486	497	383	343	361	509	499	504
16	449	437	445	486	470	476	419	380	393	516	509	513
17	443	437	440	470	460	466	523	379	455	522	516	520
18	441	431	435	460	450	452	379	199	262	535	522	528
19	455	441	452	451	443	447	199	193	195	556	535	544
20	461	452	455	443	423	434	202	194	197	575	556	567
21	474	461	469	424	422	422	222	202	214	644	575	608
22	474	465	469	422	410	416	234	222	227	673	644	665
23	479	474	477	410	404	407	248	234	241	683	672	675
24	486	474	479	404	403	404	262	248	254	700	683	696
25	485	467	479	403	403	403	276	262	269	703	697	701
26	487	479	483	403	379	398	285	276	281	697	681	691
27	490	478	482	379	358	369	295	285	289	681	665	671
28	490	479	485	358	343	353	305	295	300	665	643	655
29	492	488	490	343	320	330	313	305	309	643	624	631
30	500	486	492	320	309	314	319	313	316	624	616	619
31	492	487	490	---	---	---	328	319	323	619	592	602
MONTH	500	368	437	536	309	460	523	193	296	703	328	508

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	633	599	624	519	490	506	256	249	252	426	409	416
2	627	594	605	490	454	477	266	254	260	426	419	423
3	594	567	581	454	431	440	282	265	273	432	424	427
4	567	543	553	433	431	432	295	281	287	432	422	428
5	543	520	533	442	433	437	303	295	298	439	425	432
6	520	500	509	478	442	457	314	303	309	449	439	445
7	500	496	497	522	478	499	324	314	318	457	449	453
8	538	497	515	605	522	566	328	324	326	464	457	460
9	560	538	550	707	605	651	333	328	329	465	463	464
10	574	560	568	750	707	737	331	305	320	467	464	466
11	588	574	581	806	745	773	305	281	291	475	467	470
12	585	574	577	828	806	821	285	281	282	479	473	475
13	574	539	562	815	689	763	291	284	287	479	478	478
14	539	494	515	689	611	648	300	290	295	481	478	479
15	494	457	476	613	535	571	313	295	303	496	481	489
16	457	437	445	535	461	495	330	306	316	500	496	499
17	437	431	433	461	398	425	333	318	327	505	500	503
18	462	435	449	400	368	386	346	331	339	511	504	507
19	465	461	463	368	354	361	349	341	344	518	509	513
20	465	458	462	355	348	352	353	347	350	520	517	518
21	458	439	448	351	333	344	362	351	356	521	519	520
22	439	425	431	333	253	300	368	360	364	519	512	516
23	425	415	419	253	231	236	382	364	374	530	511	520
24	419	416	418	248	235	242	388	382	384	538	530	536
25	450	419	429	258	248	254	388	386	387	533	525	528
26	506	450	471	270	258	264	388	387	387	525	506	515
27	550	506	537	294	270	283	392	388	389	506	486	497
28	542	519	534	311	293	301	399	392	396	486	467	476
29	---	---	---	321	310	316	405	399	403	467	450	458
30	---	---	---	326	298	319	410	405	408	450	435	441
31	---	---	---	298	252	272	---	---	---	437	428	432
MONTH	633	415	507	828	231	449	410	249	332	538	409	477

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	428	410	424	---	---	---	466	443	458	514	493	504
2	411	301	374	---	---	---	457	442	450	501	491	495
3	301	239	256	---	---	---	476	453	465	497	488	494
4	239	220	226	---	---	---	472	447	461	493	483	489
5	232	222	226	---	---	---	457	443	452	489	483	486
6	244	229	237	372	362	366	458	443	450	493	486	489
7	262	242	251	393	372	382	459	454	456	495	491	493
8	278	262	271	393	385	390	476	459	470	499	490	495
9	293	278	286	396	391	394	486	474	479	500	497	499
10	309	293	302	398	393	396	486	471	478	501	495	499
11	329	309	316	397	393	395	493	479	485	499	492	495
12	336	326	331	397	394	395	---	---	---	499	495	498
13	355	333	345	398	394	397	---	---	---	501	496	498
14	375	355	364	402	398	400	---	---	---	498	488	492
15	392	375	383	405	402	403	---	---	---	488	488	488
16	400	392	396	409	405	407	517	500	510	495	486	489
17	395	350	372	413	409	411	521	512	518	500	489	496
18	350	334	341	422	413	417	521	509	516	502	493	499
19	336	326	329	427	422	424	522	501	512	503	491	494
20	332	325	329	435	427	431	510	492	503	498	489	494
21	331	327	329	443	434	438	511	490	500	492	488	491
22	340	330	335	455	442	445	499	489	493	496	488	491
23	346	331	338	469	455	460	505	496	500	495	489	491
24	335	255	289	482	467	473	515	503	508	495	489	490
25	255	235	243	483	470	477	517	509	514	518	495	508
26	241	235	238	471	466	468	512	508	510	517	504	510
27	252	238	245	477	466	472	516	504	512	514	510	513
28	262	248	256	477	469	474	512	503	507	514	510	512
29	283	261	272	480	470	474	508	486	501	514	508	511
30	295	277	285	482	470	477	498	484	489	511	506	508
31	---	---	---	474	458	466	517	493	509	---	---	---
MONTH	428	220	306	483	362	428	522	442	489	518	483	497
YEAR	828	193	431									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	15.5	16.0	10.5	10.0	10.5	5.0	4.5	5.0	1.0	.5	.5
2	18.5	16.0	17.0	10.5	10.0	10.0	4.5	3.5	4.0	.5	.5	.5
3	18.5	16.5	17.5	11.0	10.0	10.5	3.5	3.5	3.5	.5	.5	.5
4	18.0	17.0	17.5	11.0	10.5	10.5	3.5	3.0	3.5	.5	.5	.5
5	18.0	17.0	17.5	11.0	10.0	10.5	3.5	3.5	3.5	.5	.5	.5
6	17.0	17.0	17.0	10.5	10.0	10.0	4.0	3.5	4.0	.5	.5	.5
7	17.0	16.0	16.5	10.0	9.5	10.0	4.0	3.5	3.5	.5	.5	.5
8	16.0	15.5	15.5	10.0	9.5	10.0	3.5	3.0	3.5	.5	.5	.5
9	15.5	14.5	15.0	10.5	10.0	10.0	3.0	3.0	3.0	.5	.5	.5
10	14.5	13.0	13.5	10.5	10.0	10.0	3.0	3.0	3.0	.5	.5	.5
11	13.5	12.5	13.0	10.5	10.5	10.5	3.0	3.0	3.0	1.0	.5	1.0
12	15.0	13.0	13.5	10.5	10.0	10.0	3.0	3.0	3.0	1.0	1.0	1.0
13	14.5	13.0	13.5	10.0	10.0	10.0	3.0	2.0	2.0	1.0	1.0	1.0
14	14.5	13.0	13.5	10.0	9.5	10.0	2.5	2.0	2.5	1.0	1.0	1.0
15	16.0	14.0	15.0	9.5	9.0	9.5	2.5	2.5	2.5	1.0	1.0	1.0
16	16.0	15.0	15.5	9.0	8.5	8.5	3.0	2.5	2.5	1.5	1.0	1.0
17	15.0	14.5	15.0	8.5	8.0	8.5	5.5	2.5	3.5	1.5	1.0	1.5
18	14.5	14.0	14.5	8.0	7.5	8.0	5.5	3.5	5.0	1.5	1.5	1.5
19	14.0	14.0	14.0	7.5	7.0	7.5	3.5	3.0	3.0	2.0	1.5	2.0
20	14.0	13.5	13.5	7.0	6.5	6.5	3.0	2.5	2.5	2.0	2.0	2.0
21	13.5	13.0	13.5	6.5	5.5	6.0	2.5	2.0	2.0	2.0	1.5	2.0
22	14.0	13.5	13.5	5.5	4.5	5.0	2.0	1.5	2.0	1.5	1.5	1.5
23	13.5	13.0	13.5	4.5	3.0	4.0	1.5	1.0	1.0	1.5	1.0	1.5
24	13.5	13.0	13.0	3.5	3.0	3.0	1.5	1.0	1.5	1.0	1.0	1.0
25	14.5	13.0	13.5	3.5	3.5	3.5	1.5	1.0	1.0	1.0	1.0	1.0
26	14.0	13.5	13.5	4.0	3.5	3.5	1.5	1.0	1.0	1.0	1.0	1.0
27	14.5	13.5	13.5	4.5	3.5	4.0	1.5	1.5	1.5	1.0	1.0	1.0
28	14.0	13.0	13.5	4.5	4.5	4.5	1.5	1.0	1.5	1.0	1.0	1.0
29	13.0	11.5	12.5	5.0	4.5	5.0	1.5	1.0	1.5	1.5	1.0	1.0
30	11.5	11.0	11.0	5.0	5.0	5.0	1.5	1.0	1.5	1.5	1.0	1.5
31	11.0	10.5	10.5	---	---	---	1.0	1.0	1.0	1.5	1.5	1.5
MONTH	18.5	10.5	14.4	11.0	3.0	7.8	5.5	1.0	2.6	2.0	.5	1.0

PASSAIC RIVER BASIN

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.0	1.5	1.5	3.0	3.0	3.0	5.0	5.0	5.0	17.5	15.0	16.5
2	2.0	2.0	2.0	3.0	3.0	3.0	5.5	5.0	5.0	19.0	16.5	17.5
3	2.5	2.0	2.5	3.0	3.0	3.0	6.5	5.0	6.0	20.0	18.5	19.0
4	2.0	2.0	2.0	3.0	3.0	3.0	7.5	6.5	7.0	24.0	20.0	22.0
5	2.0	1.5	1.5	3.0	2.0	2.5	9.0	7.5	8.0	23.5	20.5	22.0
6	1.5	1.0	1.5	2.0	1.5	1.5	8.5	8.5	8.5	21.0	19.0	20.0
7	1.0	1.0	1.0	2.5	1.5	2.0	8.5	8.0	8.5	20.0	18.5	19.0
8	1.5	1.0	1.5	3.0	2.5	2.5	8.5	8.0	8.0	19.0	18.0	18.5
9	2.0	1.5	2.0	3.5	3.0	3.0	10.5	8.0	8.5	22.0	18.5	20.0
10	2.5	2.0	2.0	3.5	3.0	3.5	12.0	10.0	11.0	22.0	19.5	21.0
11	2.5	2.5	2.5	4.0	3.5	4.0	12.0	11.0	11.5	21.5	19.5	20.5
12	2.5	2.0	2.0	4.5	3.5	4.0	11.0	10.5	11.0	22.0	20.5	21.0
13	2.0	1.5	2.0	4.5	4.0	4.5	11.5	10.5	11.0	22.0	21.0	21.5
14	2.0	2.0	2.0	4.5	4.0	4.0	12.0	11.0	11.5	21.0	20.0	20.5
15	2.5	2.0	2.0	4.0	4.0	4.0	13.5	12.0	12.5	20.5	19.5	19.5
16	2.5	2.5	2.5	5.0	4.0	4.5	13.0	12.5	13.0	19.5	19.0	19.0
17	3.0	2.5	2.5	5.5	5.0	5.5	13.0	12.0	12.5	19.0	18.0	18.5
18	2.5	2.5	2.5	5.5	5.0	5.0	12.0	11.5	11.5	18.0	17.5	17.5
19	2.5	2.0	2.5	5.5	4.5	5.0	12.0	11.0	11.5	20.0	17.5	18.5
20	2.5	2.0	2.0	6.0	5.0	5.5	11.5	11.0	11.5	20.0	18.5	19.5
21	2.5	2.0	2.5	6.0	5.5	6.0	12.5	11.5	12.0	18.5	18.0	18.5
22	2.5	2.5	2.5	5.5	4.5	5.0	15.5	12.0	13.0	18.0	17.5	18.0
23	2.5	2.0	2.5	5.0	4.0	4.5	16.0	14.5	15.0	17.5	17.0	17.5
24	2.0	2.0	2.0	5.5	4.5	5.0	18.0	15.0	16.5	19.5	16.5	17.5
25	2.0	2.0	2.0	5.5	4.5	5.0	18.0	15.5	16.5	18.5	17.0	17.5
26	2.5	2.0	2.0	5.0	4.5	4.5	17.0	15.0	16.0	17.0	16.5	16.5
27	3.0	2.5	2.5	4.5	3.5	4.0	17.0	15.5	16.0	16.5	16.5	16.5
28	3.0	3.0	3.0	5.5	4.0	4.5	16.5	15.5	16.0	18.5	16.5	17.0
29	---	---	---	5.5	5.0	5.0	17.0	15.0	16.0	19.5	17.5	18.5
30	---	---	---	5.0	5.0	5.0	17.0	15.0	15.5	19.0	17.5	18.0
31	---	---	---	5.0	4.5	5.0	---	---	---	18.5	17.0	17.5
MONTH	3.0	1.0	2.1	6.0	1.5	4.1	18.0	5.0	11.5	24.0	15.0	18.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.0	17.5	17.5	---	---	---	26.0	24.5	25.0	25.5	24.0	25.0
2	17.5	16.5	17.0	---	---	---	26.0	25.0	25.5	25.5	24.0	24.5
3	17.0	15.5	16.5	---	---	---	25.5	24.5	25.0	24.0	23.0	23.5
4	18.0	16.5	17.0	---	---	---	26.0	25.0	25.5	24.0	22.5	23.5
5	19.5	17.0	18.0	---	---	---	28.5	25.0	26.5	24.5	23.0	23.5
6	20.5	18.5	19.5	24.5	23.5	24.0	27.5	26.5	27.0	25.0	23.0	23.5
7	22.0	19.0	20.5	24.0	22.5	23.0	28.5	27.0	27.5	23.0	22.0	22.5
8	22.0	19.5	21.0	23.5	23.0	23.0	29.5	27.5	28.5	23.0	22.0	22.5
9	23.0	20.0	21.5	26.5	22.5	24.5	30.0	28.5	29.0	23.5	22.5	23.0
10	22.5	20.5	21.5	25.5	23.0	24.0	29.0	28.5	28.5	24.0	23.0	23.5
11	22.0	20.5	21.0	25.5	24.0	24.5	28.5	27.5	28.0	24.5	23.0	24.0
12	23.5	21.0	22.0	24.5	24.0	24.0	---	---	---	24.5	23.0	23.5
13	25.5	22.5	24.0	24.5	23.5	24.0	---	---	---	24.0	22.0	23.0
14	24.5	23.0	24.0	24.5	23.0	23.5	---	---	---	23.5	22.0	22.5
15	24.0	22.0	23.0	24.5	23.0	23.5	---	---	---	22.0	21.0	21.5
16	26.0	22.5	24.5	26.0	23.5	24.5	26.5	25.5	26.0	23.0	20.5	22.0
17	25.0	22.0	23.0	26.0	24.0	25.0	26.0	25.5	25.5	23.5	20.5	22.0
18	23.0	21.5	22.0	26.0	25.0	25.5	26.0	25.0	25.5	22.5	20.5	21.5
19	23.5	22.0	22.5	26.0	24.5	25.0	26.5	25.0	26.0	23.0	20.5	21.5
20	25.5	23.5	24.0	27.0	24.5	25.5	27.0	25.5	26.0	21.0	20.5	20.5
21	25.5	24.0	25.0	27.0	24.5	26.0	26.5	25.5	26.0	21.0	20.5	20.5
22	24.0	23.5	24.0	26.0	25.0	25.5	26.5	25.5	26.0	21.5	20.5	21.0
23	24.0	23.0	23.5	25.5	24.5	25.0	26.5	25.0	25.5	23.5	21.0	22.0
24	23.0	21.5	22.0	26.0	25.5	25.5	26.5	24.5	25.5	22.5	21.5	22.0
25	23.5	21.0	22.0	28.0	26.0	27.0	27.5	25.0	25.5	22.0	21.0	21.0
26	24.0	22.0	23.0	28.0	26.5	27.5	25.0	24.0	24.5	21.0	20.0	20.5
27	26.0	22.5	24.0	26.5	25.5	26.0	25.0	24.0	24.5	20.0	19.5	19.5
28	26.5	23.5	25.0	26.0	25.0	25.5	25.0	24.5	25.0	19.5	19.0	19.0
29	25.5	24.5	25.0	25.5	24.5	25.0	26.5	24.0	25.5	19.0	18.0	18.5
30	26.0	24.5	25.5	25.5	24.0	24.5	26.0	24.5	25.5	18.0	17.0	17.5
31	---	---	---	27.0	24.0	25.5	25.0	24.0	24.5	---	---	---
MONTH	26.5	15.5	22.0	28.0	22.5	24.9	30.0	24.0	26.0	25.5	17.0	22.0
YEAR	30.0	.5	12.9									

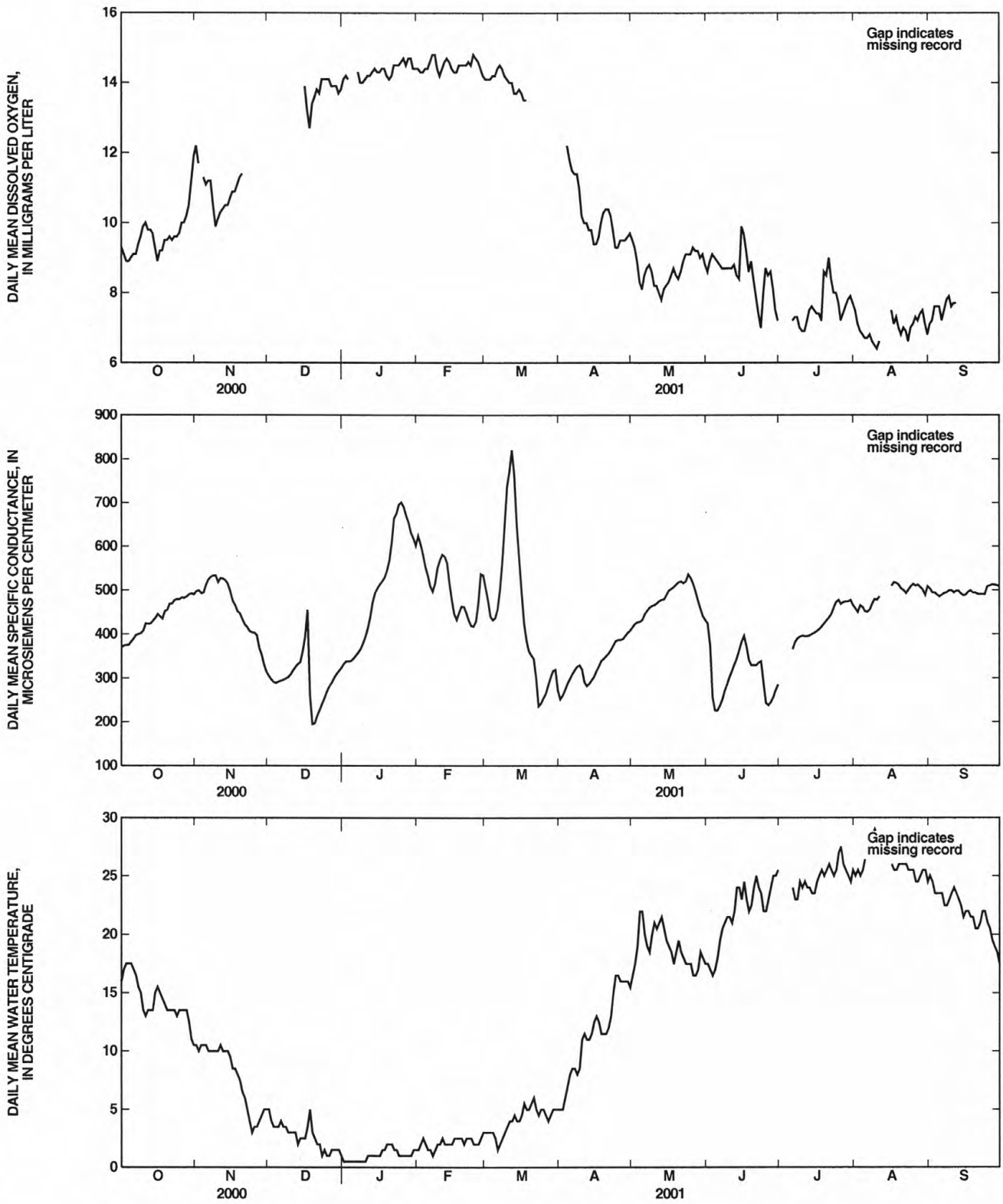


Figure 33. Physical characteristics and concentrations of constituents measured at 01388000 Ramapo River at Pompton Lakes, water year 2001.

Cross section of specific conductance, water temperature, and dissolved oxygen concentration measurements (distance from left bank looking downstream); and recorded hourly specific conductance, water temperature, and dissolved oxygen measurements from the water-quality monitor at the station, Ramapo River at Pompton Lakes, NJ.

May 31, 2001

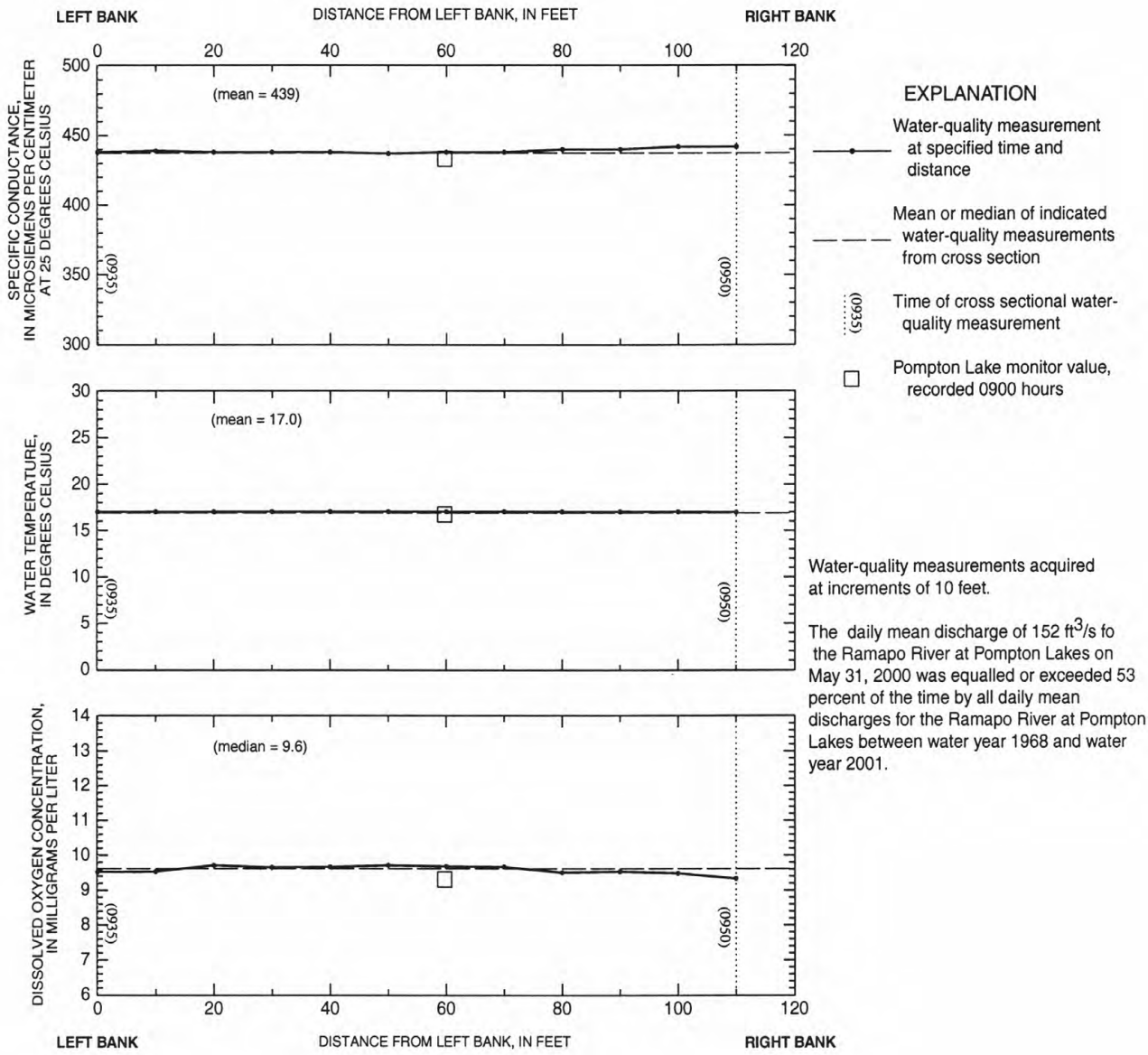


Figure 34. Cross sectional water-quality measurements with recorded monitor values, at Ramapo River at Pompton Lakes, May 31, 2001.

01388500 POMPTON RIVER AT POMPTON PLAINS, NJ

LOCATION.--Lat 40°58'09", long 74°16'56", Passaic County, Hydrologic Unit 02030103, at Passaic Valley Water Commission pumping station, 100 ft upstream from bridge on Jackson Avenue (Pompton Plains Cross Road), 800 ft below confluence of Pequannock and Ramapo Rivers, and 0.7 mi east of Pompton Plains.

DRAINAGE AREA.--355 mi^2.

PERIOD OF RECORD.--Water years 1962-69, 1971-75, 1979-80, 1992, 1994, 1998 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
21...	1000	135	--	.076	.059	757	90	11.1	7.7	417	--	6.0	110
FEB													
14...	1000	491	--	.070	.053	766	99	13.8	7.8	495	7.0	2.0	82
MAY													
10...	1000	146	4.0	.066	.050	763	93	8.7	8.0	431	--	18.5	110
SEP													
06...	1030	42	19	.066	.049	766	76	7.1	7.8	448	21.0	19.0	110

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
21...	30.0	8.08	1.95	34.9	67	63.2	E.1	8.0	22.3	218	216	.080	.31
FEB													
14...	23.0	5.95	1.78	60.8	44	104	<.2	6.7	14.9	269	248	<.030	.24
MAY													
10...	29.3	8.10	1.82	40.2	67	78.5	E.1	3.5	18.4	247	223	<.030	.34
SEP													
06...	29.1	9.23	2.32	41.4	66	82.7	E.1	6.4	19.9	246	234	.030	.28

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
21...	.07	.47	1.73	.011	2.0	2.2	<.022	.039	.058	.5	<.1	2.6	.4
FEB													
14...	<.03	.26	.971	.006	1.2	1.2	.070	.041	.025	.4	<.1	2.4	.4
MAY													
10...	<.03	.62	.729	.021	1.1	1.4	.272	.007	.055	1.7	E.00	3.0	E1.7
SEP													
06...	<.03	1.0	.722	.003	1.0	1.7	.364	.009	.088	2.0	<.1	3.1	2.0

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
21...	E1.1	--	64	<1
FEB				
14...	E1.3	--	27	4
MAY				
10...	2.8	28.4	48	1
SEP				
06...	3.3	102	75	17

E Estimated value.
< Actual value is known to be less than the value shown.

01388500 POMPTON RIVER AT POMPTON PLAINS, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
02...	1055	2800	900	740	16...	1100	170	600	50
09...	1040	700	<100	290	23...	1045	130	200	30
					30...	1025	330	600	90

< Actual value is known to be less than the value shown.

01388720 BEAVER DAM BROOK AT RYERSON ROAD, AT LINCOLN PARK, NJ

LOCATION.--Lat 40°55'35", long 74°17'35", Morris County, Hydrologic Unit 02030103, at bridge on Ryerson Road in Lincoln Park, 643 ft north of intersection of Ryerson Road and Park Avenue, and 0.3 mi upstream of mouth.

DRAINAGE AREA.--13.1 mi^2.

PERIOD OF RECORD.--December 2000 to August 2001.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
DEC													
13...	1150	4.0	--	.297	.232	773	84	12.1	7.4	390	--	1.0	120
FEB													
21...	1000	24	--	.202	.155	757	85	11.4	7.3	377	7.0	3.0	100
MAY													
03...	1310	8.7	--	.221	.171	762	105	9.9	7.6	411	34.0	18.0	120
AUG													
23...	1020	1.3	11	.271	.208	756	61	5.5	6.8	471	24.0	20.0	120

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
DEC													
13...	33.7	9.09	1.52	25.9	78	46.3	E.1	14.0	35.9	233	215	.180	.47
FEB													
21...	28.6	7.58	1.22	26.2	57	55.8	<.2	11.9	29.1	209	197	.190	.28
MAY													
03...	34.5	8.94	1.73	27.1	82	55.6	E.1	10.2	27.1	247	216	<.030	.32
AUG													
23...	34.5	9.01	3.07	39.6	87	75.9	E.1	12.2	26.2	280	257	.080	.44

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
DEC													
13...	.15	.57	.346	.007	.81	.92	.073	.014	.033	.6	<.1	6.0	.6
FEB													
21...	.14	.35	.627	<.003	.90	.98	<.022	.009	.024	.4	<.1	4.3	.4
MAY													
03...	.04	.43	.362	.010	.68	.79	.072	.008	.032	E.7	<.1	4.6	E.7
AUG													
23...	.12	.51	1.02	.013	1.5	1.5	.088	.010	.046	.6	<.1	5.4	.6

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
DEC				
13...	E1.7	--	46	4
FEB				
21...	<1.0	--	40	5
MAY				
03...	E1.3	13.3	44	7
AUG				
23...	<1.0	2.20	53	5

E Estimated value.
< Actual value is known to be less than the value shown.

01388720 BEAVER DAM BROOK AT RYERSON ROAD, AT LINCOLN PARK, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY				
23...	0930	1300	1800	400
30...	0900	790	700	1900
JUN				
06...	0910	1300	600	710
13...	0924	1100	400	820
19...	0930	3500	1400	1400

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ

LOCATION.--Lat 40°53'47", long 74°16'10", Passaic County, Hydrologic Unit 02030103, on left bank, 400 ft downstream from the Pompton River in Two Bridges.

DRAINAGE AREA.--734 mi^2.

PERIOD OF RECORD.--Water years 1987 to current year.
NUTRIENT AND INORGANIC CHEMICAL DATA: Water years 1987-96.

PERIOD OF DAILY RECORD.--
DISSOLVED OXYGEN: August 1989 to current year. Unpublished fragmentary water-quality records for the period March to July 1989 are available at the U.S. Geological Survey office in West Trenton, N.J.
SPECIFIC CONDUCTANCE: August 1989 to current year.
WATER TEMPERATURE: August 1989 to current year.

INSTRUMENTATION.--Water-quality monitor(s) since March 1989, pumping system, data recorded hourly. Multiple-point monitoring is necessary at this site because of poor mixing below the confluence with the Pompton River. Three intakes, left, middle, and right, are positioned at 70, 160, and 220 ft, respectively, from the edge of the monitor house on the left bank (looking downstream).
Three monitors, water pumped continuously.--Water years 1989-99.
One monitor, water pumped sequentially.--Water years 2000 to current year.

REMARKS.--The station is 400 ft downstream from the confluence of the Pompton River with the left bank of the Passaic River. One water-quality sensor (monitor) measures the characteristics of water pumped sequentially from three separate intakes. The station is impacted by occasional diversion of water from the Pompton River 750 ft upstream from its junction with the left bank of the Passaic River, which is 400 ft upstream from the station. Interruptions in the daily record were due to instrument or pumping-system malfunction. The calibration of water quality sensors is verified by regular inspections. Cleaning or recalibration is needed occasionally as a result of sensor fouling or drift. When a sensor is recalibrated, the continuous-record water-quality data for the period between inspections are adjusted to account for the difference between the sensor's response and a known value. The adjustment may be constant over the period or may be prorated. Continuous-record water-quality data for periods for which the difference between the sensor's response and a known value does not exceed recalibration criteria are considered to be reliable and are not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection"). Data from the following period were adjusted:
DISSOLVED OXYGEN: Oct. 11 to Nov. 21, Feb. 27 to Mar. 19, Apr. 3 to Apr. 23, Jul 3 to Jul. 18.

EXTREMES FOR PERIOD OF DAILY RECORD.--
DISSOLVED OXYGEN: maximum, 20.0 mg/L (measuring limit of instrument) from left and right intakes, on many days during July-September, 1999, from right and middle on July 25, 2001; minimum, 1.3 mg/L from right intake, May 29, 1991.
SPECIFIC CONDUCTANCE: maximum, 2,910 uS/cm from middle intake, Jan. 16, 1999; minimum, 101 uS/cm from right intake, Sept. 19, 20, 1999.
WATER TEMPERATURE: maximum, 31.5°C from left intake, July 7, 1999; minimum, 0.0°C from left, middle, and right intakes, on many days during winters.

EXTREMES FOR CURRENT YEAR.--
DISSOLVED OXYGEN: Maximum, 20.0 mg/L from middle and right intakes, July 25; minimum, 3.8 mg/L from middle intake, Nov. 12, June 21.
SPECIFIC CONDUCTANCE: Maximum, 1,370 uS/cm from right intake, Jan. 11; minimum, 147 uS/cm from right intake, June 18.
WATER TEMPERATURE: Maximum, 30.1°C from middle intake, Aug. 9; minimum, 0.0°C from left intake, Dec. 30, 31.

OXYGEN DISSOLVED (MG/L), LEFT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.4	9.3	9.9	10.9	9.2	9.7	12.3	11.6	12.0	14.4	13.8	14.1
2	10.7	9.0	9.9	11.2	9.4	10.0	12.8	12.1	12.4	14.8	12.4	13.9
3	11.0	8.7	9.8	11.0	9.2	10.0	13.3	12.8	13.0	14.9	14.7	14.8
4	11.3	8.4	9.6	11.2	9.2	10.1	13.6	13.3	13.4	14.7	14.5	14.6
5	10.0	7.5	8.8	11.3	9.2	10.1	13.5	13.1	13.3	14.5	14.3	14.4
6	8.6	7.4	8.0	10.8	9.0	9.7	13.3	13.0	13.2	14.3	14.1	14.1
7	9.4	7.9	8.6	10.2	8.9	9.6	13.5	11.7	12.9	14.2	14.0	14.1
8	10.4	8.4	9.2	10.8	9.3	9.9	12.4	11.7	11.9	14.2	13.9	14.0
9	10.6	8.8	9.6	10.9	9.7	10.2	12.9	11.6	12.1	14.0	13.8	13.9
10	11.6	9.4	10.3	10.5	8.4	9.3	13.0	11.5	12.1	14.1	13.9	14.0
11	12.2	9.8	10.8	9.5	8.4	9.0	12.9	11.4	12.0	14.2	14.0	14.1
12	11.9	9.7	10.7	9.9	9.3	9.6	12.9	11.2	11.8	14.1	13.9	14.0
13	11.5	9.4	10.3	10.1	9.8	10.0	11.9	10.9	11.3	14.1	13.9	14.0
14	11.2	9.0	10.0	9.9	9.1	9.6	13.7	11.1	12.5	14.3	14.0	14.1
15	11.2	8.7	9.9	10.4	9.0	9.7	13.6	13.0	13.3	14.1	13.4	13.8
16	9.6	8.5	9.1	10.9	10.3	10.6	13.1	12.3	12.6	13.6	13.3	13.4
17	8.8	7.5	7.9	10.8	10.5	10.7	12.6	11.0	11.9	13.6	13.2	13.4
18	8.2	7.4	7.7	11.0	10.6	10.8	13.1	11.9	12.5	13.9	13.3	13.6
19	8.4	7.3	7.9	11.5	10.7	11.1	13.3	13.1	13.3	13.9	13.2	13.5
20	9.5	8.0	8.6	12.2	11.1	11.6	13.5	13.1	13.3	13.7	13.1	13.3
21	9.9	8.2	8.9	12.6	11.3	11.8	14.4	13.5	14.0	14.3	13.5	13.9
22	9.9	8.3	8.9	12.8	11.4	12.0	14.3	14.0	14.1	14.6	13.9	14.2
23	10.2	8.1	8.9	13.2	11.6	12.3	14.8	14.1	14.6	14.6	14.0	14.3
24	9.9	8.4	9.1	13.6	12.0	12.6	14.9	14.6	14.7	14.5	13.9	14.2
25	10.0	8.2	9.1	13.9	12.3	12.9	14.9	14.5	14.7	14.5	13.7	14.1
26	9.8	8.3	8.9	13.1	11.5	12.3	14.9	12.8	14.0	14.6	13.8	14.3
27	9.7	8.2	9.0	12.4	11.6	12.1	14.5	13.7	14.2	14.6	13.9	14.3
28	10.6	8.2	9.2	12.2	12.0	12.0	14.3	13.9	14.2	14.6	13.8	14.3
29	10.5	8.4	9.3	12.1	11.8	12.0	14.2	13.4	13.9	14.8	14.1	14.5
30	10.5	8.3	9.2	12.1	11.7	11.8	13.8	12.7	13.2	14.9	13.2	13.9
31	10.3	8.5	9.2	---	---	---	14.1	12.5	13.2	14.2	13.1	13.6
MONTH	12.2	7.3	9.2	13.9	8.4	10.8	14.9	10.9	13.1	14.9	12.4	14.0

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

OXYGEN DISSOLVED (MG/L), LEFT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.5	13.4	13.9	15.0	13.1	14.0	13.5	13.3	13.4	12.4	9.7	11.2
2	14.2	13.4	13.8	14.7	13.0	13.9	13.6	13.3	13.4	12.0	9.0	10.6
3	14.7	13.3	14.0	14.9	12.9	13.9	13.5	12.7	13.3	11.3	8.9	10.2
4	14.8	13.6	14.2	14.4	12.9	13.6	13.3	12.5	12.9	10.6	8.4	9.6
5	14.5	13.4	13.8	14.9	13.3	14.1	13.3	12.2	12.7	9.7	6.7	8.3
6	15.2	13.8	14.4	15.8	13.6	14.8	12.7	11.8	12.2	7.9	5.8	7.0
7	15.0	13.8	14.4	15.9	13.8	14.9	13.0	11.8	12.3	9.7	5.7	7.6
8	15.0	13.6	14.3	15.8	13.5	14.7	12.7	12.0	12.3	10.1	8.3	9.1
9	14.7	13.5	14.2	15.0	13.2	14.1	13.4	11.6	12.5	11.2	7.5	8.9
10	14.3	12.8	13.7	15.8	13.4	14.6	11.8	10.4	11.1	9.8	7.6	8.6
11	15.2	13.2	14.2	16.0	13.3	14.6	11.7	11.0	11.4	9.1	7.0	8.1
12	15.5	13.9	14.7	16.0	13.3	14.7	11.9	11.3	11.6	9.0	6.5	7.5
13	15.6	13.8	14.7	15.1	12.9	13.5	12.2	11.3	11.7	8.6	6.0	7.1
14	14.9	13.8	14.2	14.4	13.2	13.8	12.6	11.0	11.7	7.7	5.7	6.6
15	14.9	13.2	14.1	14.7	13.6	14.1	12.6	10.7	11.6	7.8	5.7	6.6
16	14.5	13.3	14.0	14.7	13.6	14.1	12.7	10.2	11.4	7.5	5.9	6.5
17	14.8	12.9	13.9	14.4	13.2	13.8	12.3	10.5	11.4	6.8	5.6	6.1
18	15.5	13.6	14.5	14.6	13.4	14.0	13.6	10.7	12.1	6.2	5.2	5.7
19	15.4	13.8	14.6	14.7	13.5	14.1	14.4	10.9	12.5	5.9	4.6	5.3
20	15.0	13.4	14.3	14.6	13.2	13.8	14.1	10.9	12.6	6.8	5.3	5.9
21	14.9	13.0	14.1	13.7	13.0	13.3	13.8	10.8	12.4	6.2	5.3	5.7
22	15.4	13.3	14.4	13.3	12.9	13.1	14.1	10.4	12.3	7.7	5.3	6.3
23	15.5	13.7	14.7	13.7	13.3	13.5	13.3	9.8	11.7	8.2	7.4	7.7
24	15.7	13.6	14.7	13.5	13.3	13.4	12.4	9.1	10.9	7.4	6.0	6.3
25	15.4	13.1	13.7	13.9	13.3	13.6	12.1	8.6	10.5	6.3	6.0	6.2
26	14.6	12.7	13.6	13.9	13.3	13.6	12.9	9.6	11.5	6.4	6.2	6.3
27	14.9	13.2	14.0	14.5	13.6	14.0	12.6	9.6	11.4	7.4	6.3	6.7
28	14.9	12.9	13.8	14.4	13.6	13.9	12.7	9.5	11.4	8.7	7.4	8.2
29	---	---	---	14.2	13.3	13.7	12.5	9.6	11.3	8.8	7.6	8.3
30	---	---	---	13.7	13.1	13.3	12.9	9.9	11.6	7.6	7.0	7.3
31	---	---	---	13.7	13.3	13.5	---	---	---	7.3	6.7	7.0
MONTH	15.7	12.7	14.2	16.0	12.9	13.9	14.4	8.6	12.0	12.4	4.6	7.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.3	6.6	6.9	9.3	7.4	8.2	14.9	9.3	11.5	8.3	5.7	6.8
2	9.1	7.3	8.7	9.3	6.4	7.8	14.8	9.3	11.6	8.0	6.1	6.9
3	9.2	8.7	9.0	10.2	7.2	8.8	13.1	9.2	10.7	7.8	5.9	6.6
4	9.4	8.8	9.1	10.3	8.4	9.2	11.0	7.1	9.6	8.0	5.9	6.8
5	9.4	8.6	9.0	8.7	7.7	8.0	9.4	6.0	7.7	8.6	6.9	7.6
6	9.2	8.1	8.7	7.8	6.7	7.3	10.7	6.4	8.2	8.6	6.6	7.6
7	9.2	8.0	8.6	7.8	7.1	7.4	12.1	6.6	8.7	8.9	6.8	7.7
8	9.7	7.7	8.6	7.5	6.9	7.2	12.8	7.1	9.5	9.2	7.1	8.0
9	9.3	7.3	8.1	8.1	7.2	7.6	13.1	7.5	9.9	10.5	7.4	8.7
10	7.8	6.3	6.9	7.9	7.1	7.5	11.6	4.7	8.6	10.4	7.1	8.8
11	8.6	6.0	7.6	8.1	7.1	7.5	6.0	4.2	5.1	8.6	6.6	7.7
12	10.0	7.1	8.6	7.8	7.0	7.4	5.2	4.2	4.5	7.3	5.6	6.4
13	7.1	5.3	5.9	8.0	7.3	7.6	5.7	4.5	5.1	7.1	5.6	6.2
14	6.0	5.0	5.4	8.8	7.3	8.0	5.9	5.0	5.4	7.9	5.8	6.9
15	6.1	5.3	5.6	9.8	7.7	8.5	7.3	5.2	6.3	7.5	6.4	6.9
16	6.4	5.1	5.5	10.5	7.3	8.6	7.3	5.7	6.4	7.6	6.6	7.1
17	7.3	5.3	6.8	10.8	7.3	8.7	8.6	5.6	6.9	7.7	6.8	7.2
18	7.7	6.8	7.2	10.4	7.1	8.5	9.1	6.5	7.7	8.8	6.9	7.7
19	7.8	7.0	7.4	10.2	6.5	8.1	9.3	5.4	7.4	9.1	6.6	7.6
20	7.4	6.1	6.7	9.7	6.4	7.9	11.4	5.7	7.5	8.0	6.6	7.1
21	6.6	6.0	6.2	10.3	6.4	8.0	8.3	5.9	7.0	7.9	6.6	7.1
22	6.9	6.2	6.5	11.4	6.8	8.8	8.9	6.0	7.3	7.0	6.1	6.5
23	7.2	5.8	6.3	11.3	7.4	9.2	9.0	5.8	7.4	7.1	6.0	6.4
24	8.2	7.2	7.8	13.4	8.2	10.2	8.1	6.0	6.9	7.6	5.8	6.4
25	8.5	7.8	8.1	14.0	8.7	10.9	8.8	6.3	7.4	8.0	5.8	6.6
26	8.7	7.6	8.1	10.8	8.1	9.3	10.1	6.6	8.0	9.0	6.0	7.1
27	8.6	7.5	8.0	10.1	6.7	8.3	9.2	6.3	7.8	11.4	6.1	8.9
28	8.9	6.9	7.9	11.7	7.1	9.1	9.2	6.0	7.5	11.1	7.5	9.0
29	9.6	6.9	8.1	15.4	8.3	11.2	9.8	6.5	8.0	9.8	7.7	8.7
30	9.4	7.1	8.4	14.0	9.1	11.4	8.0	6.2	7.1	9.8	7.1	8.3
31	---	---	---	15.1	8.8	11.4	7.7	5.5	6.5	---	---	---
MONTH	10.0	5.0	7.5	15.4	6.4	8.6	14.9	4.2	7.7	11.4	5.6	7.4
YEAR	16.0	4.2	10.5									

PASSAIC RIVER BASIN

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

OXYGEN DISSOLVED (MG/L), MIDDLE INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.8	8.8	9.2	10.7	9.2	9.7	8.6	8.3	8.4	12.6	11.6	12.2
2	10.1	8.5	9.3	11.0	9.5	10.0	10.0	8.6	9.5	13.6	12.0	12.7
3	10.2	8.2	9.0	11.0	9.1	10.0	12.5	10.0	10.8	13.4	12.8	13.1
4	10.1	8.0	8.8	11.2	9.2	10.1	12.8	12.0	12.4	13.6	13.0	13.2
5	9.5	7.5	8.4	10.6	9.0	9.9	12.7	12.2	12.4	13.2	12.6	12.9
6	8.3	7.2	7.7	10.6	8.8	9.6	12.7	12.4	12.5	12.9	12.5	12.7
7	8.6	7.2	7.8	10.3	8.6	9.5	12.6	11.7	12.2	12.8	12.2	12.5
8	9.4	7.3	8.3	10.6	9.1	9.9	12.1	11.7	11.9	13.1	12.3	12.6
9	10.4	7.7	9.2	11.0	9.6	10.2	12.2	11.7	11.9	13.1	12.6	12.8
10	10.8	8.7	9.7	10.6	7.6	9.3	12.7	11.6	12.1	12.8	12.3	12.6
11	11.5	9.5	10.4	7.6	5.0	5.8	12.7	11.5	12.0	13.1	12.5	12.8
12	11.7	9.8	10.6	5.0	3.8	4.2	12.4	11.2	11.7	13.1	12.8	12.9
13	11.4	9.6	10.4	5.2	4.7	5.1	11.6	10.9	11.3	13.1	12.8	12.9
14	11.0	9.2	10.0	7.0	5.2	6.0	13.6	11.2	12.1	13.2	12.8	13.0
15	11.0	9.0	9.9	7.6	6.7	7.2	12.2	11.8	12.1	13.5	12.7	13.1
16	9.8	8.7	9.3	8.9	7.6	7.9	12.1	11.9	12.0	12.7	11.6	12.1
17	9.5	7.9	8.3	8.8	8.2	8.4	12.0	11.1	11.7	12.2	11.3	11.6
18	7.9	6.9	7.3	9.1	8.7	9.0	13.1	12.0	12.5	12.2	11.5	11.9
19	8.3	6.3	7.3	9.7	9.1	9.5	13.2	11.5	12.7	12.5	12.0	12.2
20	8.1	7.2	7.6	10.3	9.7	10.0	11.5	10.1	10.5	12.2	11.6	11.9
21	8.8	7.2	7.9	11.0	10.1	10.6	11.1	10.2	10.6	12.8	12.2	12.6
22	9.1	7.7	8.2	11.6	10.6	11.0	11.4	11.1	11.2	12.9	12.6	12.8
23	9.2	7.3	8.1	11.9	11.1	11.5	11.5	11.4	11.5	12.6	12.2	12.5
24	9.5	7.3	8.5	12.8	11.4	12.0	11.5	10.9	11.2	12.2	11.7	12.0
25	9.9	8.0	8.9	13.1	11.9	12.4	11.0	10.8	10.9	11.8	11.6	11.7
26	9.9	8.3	9.1	13.1	11.4	12.2	11.2	11.0	11.1	12.5	11.5	12.0
27	9.4	8.2	8.8	11.6	9.8	10.6	12.1	11.1	11.7	12.7	12.1	12.4
28	9.5	7.9	8.8	9.8	8.8	9.2	12.8	12.1	12.4	12.9	12.3	12.6
29	9.1	7.2	8.4	8.8	8.5	8.6	13.3	12.8	13.1	12.9	12.7	12.8
30	9.1	7.5	8.4	8.5	8.2	8.3	13.2	12.8	13.1	13.2	12.6	12.9
31	10.0	8.3	9.0	---	---	---	12.9	12.2	12.6	12.7	11.9	12.2
MONTH	11.7	6.3	8.8	13.1	3.8	9.3	13.6	8.3	11.7	13.6	11.3	12.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.6	12.2	12.3	12.8	12.2	12.5	13.4	12.7	13.2	11.4	9.6	10.5
2	12.4	12.0	12.2	12.9	12.2	12.6	12.8	12.1	12.5	11.3	9.2	10.2
3	12.3	11.9	12.1	12.9	12.2	12.5	12.6	11.9	12.2	10.9	8.9	9.9
4	12.6	12.1	12.4	12.8	12.2	12.5	12.7	11.2	12.0	10.2	8.4	9.2
5	12.4	12.0	12.3	13.0	12.1	12.6	13.0	11.0	12.0	9.2	7.0	8.2
6	12.2	11.8	12.0	13.8	12.5	13.2	12.5	10.8	11.4	7.8	5.9	7.0
7	12.6	11.8	12.2	14.5	13.1	13.8	12.1	10.7	11.3	7.8	5.7	6.8
8	13.1	12.1	12.6	14.7	13.0	13.9	12.1	11.1	11.5	8.3	6.7	7.3
9	13.0	12.2	12.6	14.5	12.9	13.7	12.2	11.0	11.6	8.7	6.7	7.4
10	12.5	11.8	12.1	14.3	13.0	13.6	11.8	10.4	11.1	9.0	6.9	7.7
11	12.5	11.7	12.2	14.6	13.1	13.8	11.7	11.0	11.3	9.0	7.1	7.9
12	13.2	12.4	12.8	15.1	13.3	14.2	11.5	11.1	11.3	8.8	6.5	7.5
13	13.6	12.7	13.0	13.9	13.2	13.5	11.5	10.7	11.1	8.5	6.0	7.1
14	13.0	12.3	12.8	13.9	13.0	13.4	11.5	10.3	10.9	7.6	5.7	6.6
15	12.6	11.9	12.3	13.4	12.7	13.1	11.1	10.2	10.6	7.8	5.9	6.7
16	12.6	11.9	12.2	12.7	11.9	12.5	10.8	9.9	10.3	7.4	6.0	6.7
17	12.7	11.9	12.3	12.3	11.7	11.9	10.6	9.9	10.3	6.8	5.7	6.2
18	13.3	12.2	12.8	13.1	12.1	12.6	11.9	10.0	10.9	6.1	5.2	5.7
19	13.7	12.9	13.3	13.3	12.6	12.9	12.1	10.5	11.3	6.0	4.7	5.4
20	13.7	12.8	13.2	13.7	12.4	13.0	11.9	10.7	11.3	6.7	5.4	6.0
21	13.4	12.4	12.9	13.4	12.8	13.0	11.6	10.4	11.0	6.1	5.5	5.7
22	13.6	12.1	12.9	13.3	12.8	13.1	12.5	9.9	11.2	6.6	5.4	6.1
23	14.3	12.8	13.6	13.7	13.1	13.5	11.9	9.4	10.8	6.6	6.0	6.3
24	14.4	13.2	13.8	13.3	12.5	12.9	11.0	8.5	9.9	6.3	5.9	6.1
25	13.6	12.8	13.3	13.0	12.4	12.7	10.7	8.1	9.5	6.4	6.1	6.2
26	12.8	11.9	12.3	13.0	12.0	12.5	10.8	8.4	9.8	6.4	6.2	6.3
27	12.7	12.0	12.4	13.8	12.6	13.2	11.0	9.3	10.2	6.9	6.3	6.7
28	12.7	12.2	12.4	14.1	13.1	13.5	11.2	9.2	10.3	7.3	6.9	7.1
29	---	---	---	13.9	13.2	13.6	11.5	9.3	10.2	7.8	7.3	7.6
30	---	---	---	13.7	13.1	13.3	11.5	9.5	10.5	7.4	7.0	7.2
31	---	---	---	13.7	13.3	13.5	---	---	---	7.3	6.8	7.1
MONTH	14.4	11.7	12.6	15.1	11.7	13.1	13.4	8.1	11.1	11.4	4.7	7.2

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

OXYGEN DISSOLVED (MG/L), MIDDLE INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.3	6.7	7.0	6.6	5.4	6.1	18.0	9.7	12.5	8.4	5.9	6.9
2	9.1	7.3	8.4	7.5	5.7	6.6	17.9	9.7	12.8	8.4	6.2	7.0
3	9.2	8.5	8.9	7.6	5.6	6.6	13.7	9.6	11.3	7.9	6.0	6.7
4	8.5	5.9	7.0	7.1	5.8	6.5	11.4	8.9	10.0	8.1	6.1	7.0
5	5.9	5.3	5.5	7.0	6.1	6.4	11.0	8.0	9.0	8.8	7.0	7.7
6	5.5	5.0	5.2	7.0	5.9	6.4	12.8	6.8	9.1	8.6	7.0	7.7
7	5.6	4.9	5.2	7.2	6.1	6.6	14.6	7.1	9.9	9.0	7.0	7.8
8	5.8	5.1	5.4	6.9	6.2	6.6	15.9	7.6	10.8	9.5	7.3	8.2
9	5.9	5.3	5.6	7.5	6.7	7.1	15.9	8.0	11.1	10.6	7.6	8.8
10	5.9	5.5	5.7	7.4	6.3	6.7	12.2	5.7	9.3	10.3	7.8	9.0
11	5.8	5.5	5.6	7.8	6.3	6.9	7.4	5.3	6.6	8.3	6.7	7.5
12	5.9	5.2	5.5	7.8	6.5	7.0	5.3	4.1	4.8	6.9	5.8	6.4
13	5.8	4.7	5.3	7.9	6.4	7.1	5.6	4.2	4.9	7.1	5.7	6.2
14	5.9	5.1	5.4	8.5	6.4	7.4	5.4	5.1	5.2	7.7	5.9	6.6
15	6.1	5.3	5.6	10.1	6.8	8.2	5.6	5.1	5.3	6.8	6.3	6.6
16	6.3	5.1	5.5	10.9	7.1	8.8	6.1	5.2	5.6	6.9	6.6	6.8
17	7.2	5.4	6.7	10.8	7.4	8.8	6.6	5.3	5.8	7.4	6.8	7.0
18	6.8	4.6	5.8	10.4	7.0	8.4	7.2	5.4	6.1	8.7	6.8	7.6
19	4.6	4.3	4.4	10.0	6.8	8.2	8.2	5.2	6.5	9.0	6.7	7.6
20	4.3	3.9	4.1	10.0	6.8	8.3	9.3	5.7	6.8	7.4	6.7	7.1
21	4.2	3.8	3.9	11.9	6.3	8.8	7.6	5.8	6.6	7.3	6.5	6.8
22	4.3	3.9	4.1	12.2	7.9	9.6	7.7	5.6	6.4	6.9	6.2	6.5
23	7.1	4.2	4.8	13.6	7.1	9.7	8.4	5.9	7.1	6.8	6.0	6.3
24	8.1	7.1	7.8	18.6	8.6	12.4	6.9	5.8	6.5	6.9	5.9	6.2
25	8.0	7.1	7.7	20.0	11.8	14.8	6.8	5.2	5.8	6.7	5.9	6.3
26	7.1	5.3	6.1	13.7	10.1	11.5	8.7	5.6	6.8	6.2	5.9	6.0
27	5.3	4.9	5.0	12.9	7.5	9.9	8.8	6.1	7.3	6.9	6.0	6.4
28	5.3	4.7	4.9	12.4	7.8	9.8	10.0	6.1	7.5	8.1	6.6	7.4
29	5.5	4.5	5.0	16.0	9.1	12.1	9.9	6.6	8.0	8.5	7.1	7.6
30	6.8	4.6	5.5	14.6	9.7	12.0	8.1	6.4	7.1	8.8	7.1	7.9
31	---	---	---	15.4	9.1	11.7	7.8	5.6	6.6	---	---	---
MONTH	9.2	3.8	5.8	20.0	5.4	8.6	18.0	4.1	7.7	10.6	5.7	7.1
YEAR	20.0	3.8	9.6									

OXYGEN DISSOLVED (MG/L), RIGHT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.5	8.5	8.9	10.2	9.0	9.5	8.7	8.4	8.5	12.7	11.8	12.3
2	9.9	8.2	9.0	10.5	9.3	9.9	9.9	8.7	9.4	12.5	12.1	12.4
3	9.5	7.9	8.6	10.7	9.2	10.0	10.9	9.9	10.5	12.9	12.4	12.7
4	9.6	7.8	8.4	10.9	9.1	10.0	11.8	10.9	11.4	12.9	12.6	12.8
5	8.8	7.6	8.2	10.6	9.1	9.9	12.2	11.7	11.9	12.7	12.3	12.5
6	8.3	7.1	7.7	10.2	8.9	9.6	12.2	11.8	12.0	12.4	12.1	12.2
7	8.2	7.1	7.5	10.1	8.7	9.5	12.1	11.8	11.9	12.3	11.9	12.0
8	8.8	7.3	8.0	10.5	9.2	9.9	12.2	11.8	12.0	12.1	11.8	11.9
9	9.3	7.8	8.6	11.1	9.7	10.3	12.3	11.8	12.0	11.9	11.6	11.7
10	10.6	8.5	9.5	10.7	7.6	9.5	13.0	11.7	12.3	11.9	11.6	11.8
11	11.3	9.5	10.4	7.6	5.1	5.9	12.8	11.6	12.1	12.2	11.5	11.9
12	11.5	9.9	10.8	5.1	3.9	4.3	12.5	11.4	11.8	12.2	11.9	12.1
13	11.6	10.0	10.8	5.3	4.8	5.2	11.6	11.0	11.3	12.3	11.8	12.0
14	11.2	9.6	10.4	6.6	5.3	5.9	12.4	11.2	11.8	12.3	11.9	12.1
15	11.2	9.4	10.3	7.6	6.6	7.2	12.3	11.9	12.2	12.3	11.8	12.1
16	10.3	8.9	9.7	8.2	7.6	7.8	12.2	12.0	12.1	12.2	11.1	11.6
17	10.1	8.1	8.6	8.6	8.2	8.3	12.0	10.6	11.4	11.4	11.0	11.2
18	8.1	6.8	7.2	9.1	8.6	8.9	11.3	9.9	10.6	12.2	11.4	11.8
19	8.4	6.4	7.3	9.7	9.1	9.5	10.4	9.6	9.9	12.5	11.8	12.1
20	7.8	6.7	7.3	10.3	9.7	10.1	10.3	9.9	10.1	12.4	11.6	12.0
21	7.8	6.8	7.2	11.0	10.3	10.7	11.3	10.3	10.7	12.9	12.4	12.8
22	8.4	6.9	7.5	11.6	10.8	11.2	11.5	11.0	11.2	13.0	12.7	12.9
23	8.4	7.1	7.7	12.0	11.2	11.6	11.6	11.5	11.6	12.7	12.3	12.6
24	8.8	7.2	8.1	12.7	11.6	12.1	11.6	10.9	11.3	12.4	11.7	12.1
25	9.3	7.7	8.4	13.2	12.0	12.5	11.2	10.9	11.0	12.0	11.7	11.8
26	9.2	8.0	8.6	13.1	11.5	12.2	11.4	11.1	11.3	12.5	11.7	12.1
27	9.0	8.0	8.6	11.7	9.8	10.3	12.2	11.2	11.8	12.7	12.2	12.4
28	9.0	7.9	8.6	9.8	8.9	9.2	12.8	12.2	12.5	12.8	12.3	12.5
29	9.1	7.3	8.4	8.9	8.6	8.7	13.3	12.8	13.1	12.9	12.5	12.7
30	9.0	7.5	8.2	8.7	8.3	8.5	13.4	13.0	13.2	13.0	12.3	12.7
31	9.4	8.1	8.7	---	---	---	13.0	12.3	12.7	12.7	11.9	12.2
MONTH	11.6	6.4	8.6	13.2	3.9	9.3	13.4	8.4	11.5	13.0	11.0	12.2

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

OXYGEN DISSOLVED (MG/L), RIGHT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.6	12.2	12.4	12.9	12.3	12.6	12.7	10.9	11.6	10.2	9.3	9.7
2	12.5	12.1	12.4	13.0	12.4	12.7	11.5	10.4	10.9	10.6	9.0	9.7
3	12.4	12.1	12.3	13.1	12.4	12.7	12.2	10.9	11.5	10.7	8.6	9.4
4	12.8	12.3	12.5	13.0	12.3	12.7	12.7	10.7	11.6	10.2	8.2	8.9
5	12.6	12.2	12.4	13.2	12.2	12.7	13.2	10.6	11.8	9.5	7.1	8.3
6	12.4	11.9	12.2	13.9	12.6	13.3	12.7	10.4	11.2	7.8	6.1	7.1
7	12.8	12.0	12.4	14.6	13.2	13.9	11.9	9.9	10.7	7.1	5.9	6.4
8	13.3	12.3	12.8	14.9	13.3	14.0	11.9	10.7	11.1	7.5	6.4	6.9
9	13.1	12.4	12.7	14.6	13.0	13.8	11.3	10.6	10.9	8.5	6.8	7.5
10	12.6	11.9	12.3	14.5	13.1	13.7	11.2	9.3	10.2	8.7	7.0	7.7
11	12.6	11.8	12.3	14.7	13.2	14.0	9.4	9.2	9.3	9.1	7.2	8.0
12	13.3	12.5	13.0	15.1	13.4	14.3	9.3	8.3	8.7	9.1	6.8	7.8
13	13.7	12.8	13.1	14.2	12.8	13.8	9.9	8.6	9.0	9.0	6.3	7.5
14	13.1	12.3	12.8	12.8	12.6	12.7	10.5	9.1	9.6	8.0	5.9	6.8
15	12.6	12.0	12.3	12.7	12.4	12.6	10.6	9.6	10.1	8.0	6.0	6.9
16	12.6	11.9	12.2	12.5	11.9	12.2	10.5	9.6	9.9	7.7	6.1	6.8
17	12.7	12.0	12.3	11.9	11.6	11.7	10.0	9.7	9.8	7.0	5.8	6.3
18	13.3	12.2	12.9	12.3	11.6	11.8	10.4	9.7	10.1	6.2	5.3	5.8
19	13.8	13.0	13.4	12.7	12.1	12.4	11.3	10.3	10.8	6.1	4.8	5.5
20	13.7	12.8	13.3	13.0	12.3	12.6	11.5	10.7	11.1	7.0	5.5	6.1
21	13.5	12.5	13.0	12.8	12.3	12.6	11.3	10.4	10.8	6.2	5.5	5.8
22	13.6	12.2	13.0	12.6	11.9	12.2	10.9	9.6	10.3	6.7	5.6	6.1
23	14.4	12.9	13.6	12.7	11.3	12.1	10.3	8.9	9.7	6.7	6.1	6.4
24	14.5	13.3	13.9	11.3	10.6	10.9	9.6	8.0	8.9	6.4	6.0	6.1
25	13.7	12.9	13.4	11.8	10.8	11.2	8.8	7.2	8.1	6.4	6.2	6.3
26	12.9	11.7	12.2	12.5	11.3	11.8	9.9	7.6	8.8	6.5	6.3	6.4
27	12.8	12.0	12.4	13.7	12.2	12.8	10.4	9.1	9.8	7.0	6.5	6.8
28	12.8	12.3	12.6	14.3	13.0	13.6	10.4	9.0	9.8	7.4	6.9	7.2
29	---	---	---	14.1	13.3	13.7	10.1	9.0	9.6	7.9	7.4	7.6
30	---	---	---	13.9	13.0	13.3	10.1	9.3	9.8	7.5	7.1	7.3
31	---	---	---	13.2	12.6	12.9	---	---	---	7.5	6.8	7.1
MONTH	14.5	11.7	12.7	15.1	10.6	12.8	13.2	7.2	10.2	10.7	4.8	7.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.3	6.7	7.0	5.4	4.5	4.8	17.0	9.6	12.8	8.3	5.9	6.9
2	7.5	7.3	7.4	5.9	4.5	5.1	16.8	9.9	13.0	8.2	6.2	7.1
3	7.4	6.2	6.8	6.8	4.8	5.8	14.6	9.6	11.9	7.8	5.9	6.7
4	6.2	5.7	6.0	6.7	5.6	6.1	12.2	9.2	10.3	8.2	6.1	7.0
5	5.7	5.3	5.5	6.5	5.9	6.2	10.8	8.0	9.3	8.4	7.0	7.7
6	5.5	5.0	5.2	6.6	5.9	6.2	12.9	6.8	9.4	8.3	7.2	7.6
7	5.6	5.0	5.3	7.2	6.0	6.6	14.9	7.0	10.2	8.7	7.0	7.7
8	5.8	5.1	5.4	6.6	5.9	6.2	14.9	7.5	10.9	9.3	7.2	8.1
9	5.9	5.3	5.6	6.6	5.8	6.1	14.9	7.7	11.0	10.5	7.7	8.9
10	5.9	5.6	5.7	7.2	5.7	6.2	12.8	8.5	10.2	10.4	8.0	9.2
11	5.8	5.5	5.6	7.5	5.8	6.4	9.4	5.3	7.1	8.2	6.7	7.5
12	6.0	5.2	5.5	7.6	5.8	6.5	5.3	4.1	4.7	6.8	5.8	6.3
13	5.8	4.7	5.3	8.0	5.9	6.9	5.6	4.2	4.9	6.9	5.7	6.2
14	6.0	5.1	5.5	8.7	6.1	7.3	5.4	5.1	5.3	7.7	6.0	6.6
15	6.3	5.4	5.7	10.6	6.6	8.2	5.6	5.1	5.3	6.9	6.4	6.7
16	6.6	5.1	5.6	11.9	7.0	9.0	6.2	5.2	5.6	7.0	6.6	6.8
17	6.7	5.4	6.0	11.2	7.3	8.8	6.7	5.3	5.8	7.3	6.8	7.1
18	5.4	4.6	4.9	10.6	7.0	8.5	7.4	5.4	6.2	8.4	6.9	7.6
19	4.6	4.3	4.5	10.4	6.8	8.2	8.8	5.2	6.7	8.5	6.7	7.5
20	4.4	4.0	4.1	10.2	6.8	8.4	8.7	5.8	6.9	7.4	6.7	7.1
21	4.3	3.9	4.0	13.3	6.2	9.1	7.9	5.7	6.7	7.2	6.5	6.8
22	4.4	3.9	4.1	12.5	7.8	9.8	8.1	5.6	6.5	6.8	6.2	6.5
23	4.9	4.3	4.5	14.0	7.1	10.0	8.7	5.8	7.1	6.8	6.1	6.4
24	5.5	4.8	5.1	19.0	8.5	13.0	7.0	5.8	6.5	6.8	5.9	6.3
25	5.4	5.1	5.2	20.0	11.7	15.6	6.4	5.2	5.8	6.6	5.9	6.2
26	5.3	5.0	5.1	14.4	10.3	11.8	8.7	5.6	6.9	6.2	5.9	6.1
27	5.2	4.8	5.0	13.9	7.5	10.3	9.2	6.1	7.4	6.8	6.1	6.4
28	5.3	4.8	5.0	13.6	7.8	10.2	9.5	6.0	7.6	8.1	6.6	7.3
29	5.3	4.6	4.9	17.5	9.0	12.7	10.1	6.6	8.1	8.4	7.1	7.6
30	5.5	4.3	4.9	15.8	9.7	12.4	8.2	6.4	7.2	8.6	7.2	7.9
31	---	---	---	15.9	9.1	12.1	7.9	5.6	6.7	---	---	---
MONTH	7.5	3.9	5.3	20.0	4.5	8.5	17.0	4.1	7.9	10.5	5.7	7.1
YEAR	20.0	3.9	9.4									

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), LEFT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	347	329	339	716	627	682	323	315	319	395	354	370
2	345	336	341	725	623	702	323	312	317	553	347	411
3	354	337	344	731	594	711	320	309	315	356	346	352
4	373	346	359	739	678	713	315	300	308	353	345	350
5	381	360	374	724	648	686	319	305	313	358	344	353
6	376	357	363	721	478	684	319	307	313	400	357	377
7	369	350	360	750	688	719	561	303	375	430	400	412
8	379	354	367	743	688	714	588	549	575	402	390	396
9	380	366	375	746	671	717	616	473	568	500	394	459
10	385	368	378	726	304	416	620	585	605	519	476	500
11	521	369	410	432	300	374	636	588	617	476	438	452
12	569	436	501	448	431	440	644	601	627	439	426	435
13	580	423	528	455	444	450	650	610	633	450	428	440
14	575	453	523	455	434	449	710	494	609	461	441	452
15	561	463	523	434	406	418	647	467	566	579	457	501
16	587	423	497	444	424	438	720	532	627	581	526	555
17	433	383	405	441	431	436	532	283	382	571	518	537
18	423	391	402	437	424	431	396	223	297	518	505	511
19	685	385	453	430	422	426	232	219	227	560	499	520
20	398	380	389	428	418	424	251	231	240	600	515	555
21	422	395	407	426	416	421	249	240	244	632	599	621
22	434	408	418	418	406	412	258	246	253	637	610	619
23	445	414	424	418	398	409	273	256	266	617	593	602
24	550	416	472	417	401	410	278	265	272	600	580	588
25	601	418	528	416	399	409	290	275	283	592	588	590
26	617	503	575	577	255	388	361	290	324	594	585	590
27	609	486	551	345	281	328	344	313	324	599	581	589
28	630	411	508	346	342	344	364	317	329	594	579	588
29	603	445	526	346	337	342	471	339	397	579	556	567
30	592	473	548	338	323	330	529	378	484	673	547	586
31	674	543	620	---	---	---	543	349	456	628	567	591
MONTH	685	329	445	750	255	494	720	219	402	673	344	499

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	567	535	546	493	478	485	243	234	238	417	402	409
2	558	540	552	478	458	464	249	240	244	428	411	421
3	541	530	534	462	433	450	255	244	251	439	424	432
4	530	513	519	433	422	428	261	253	257	446	432	441
5	513	490	500	547	432	487	269	260	266	666	446	624
6	647	494	583	581	537	547	278	268	273	680	639	664
7	618	536	565	584	559	571	278	276	277	669	456	548
8	536	507	517	582	545	566	287	278	283	479	452	458
9	548	505	517	784	548	635	290	282	287	602	472	535
10	588	536	558	755	671	711	282	257	269	655	487	592
11	547	535	541	672	649	656	275	257	265	710	612	667
12	543	537	541	659	651	655	262	254	258	704	676	695
13	537	526	531	682	584	625	264	259	261	742	678	715
14	533	499	516	591	518	549	270	264	266	743	715	732
15	499	473	486	518	471	495	283	269	277	742	696	720
16	473	450	457	471	425	449	290	282	287	749	701	728
17	460	435	447	425	372	401	298	289	295	751	702	731
18	443	427	434	372	340	355	301	292	297	747	715	734
19	455	440	448	344	326	334	312	293	303	744	706	731
20	458	451	454	328	321	324	329	312	322	744	720	736
21	457	445	449	322	292	313	339	328	334	756	715	736
22	445	430	436	292	260	276	342	335	337	748	420	645
23	510	422	458	261	226	235	344	335	340	472	420	451
24	510	462	487	242	234	238	358	344	349	490	465	478
25	591	446	496	250	240	246	360	351	356	528	490	510
26	545	470	505	258	249	253	372	347	357	547	517	528
27	502	462	479	274	257	263	386	372	379	586	509	560
28	504	491	499	288	272	277	394	385	389	509	426	443
29	---	---	---	298	285	290	394	386	391	433	382	413
30	---	---	---	299	261	280	406	391	399	390	377	383
31	---	---	---	268	238	251	---	---	---	390	380	386
MONTH	647	422	502	784	226	423	406	234	304	756	377	576

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), LEFT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	422	390	406	350	333	342	778	675	742	778	736	763
2	415	252	312	345	324	334	773	722	759	791	753	775
3	319	260	282	353	332	341	797	765	785	802	755	785
4	265	253	260	370	350	360	815	514	744	788	755	773
5	258	250	255	375	352	364	796	480	638	800	754	778
6	268	251	260	376	364	371	771	588	698	810	768	792
7	285	263	274	391	370	380	723	624	693	818	783	802
8	307	279	294	391	368	382	737	687	710	819	784	802
9	323	304	314	392	352	374	766	709	748	833	802	818
10	344	323	333	406	388	398	751	457	685	837	816	825
11	353	337	346	409	394	403	617	450	550	830	762	800
12	391	347	360	411	396	404	642	390	551	830	580	722
13	470	391	429	418	399	412	515	386	431	664	600	629
14	525	470	492	424	408	417	462	393	417	660	425	548
15	526	493	509	426	413	420	460	398	440	696	438	521
16	547	514	522	431	421	427	462	450	457	444	399	418
17	554	157	291	435	421	430	500	458	479	489	422	469
18	305	261	290	445	431	439	548	493	519	545	485	523
19	321	305	313	460	437	445	620	540	574	587	527	549
20	331	294	314	478	446	453	640	473	562	611	480	587
21	349	322	336	485	447	460	533	435	492	677	408	518
22	354	347	351	555	456	483	575	455	513	677	474	550
23	363	259	343	585	458	516	596	441	552	509	448	474
24	283	240	270	604	485	539	441	391	418	541	455	489
25	260	258	259	599	470	539	482	426	452	565	410	501
26	266	257	261	640	500	550	544	452	497	552	416	456
27	283	266	273	666	474	590	641	535	590	552	466	486
28	300	280	291	684	602	638	681	623	660	519	478	493
29	319	293	308	684	596	643	714	628	691	592	475	510
30	339	313	328	730	608	689	744	714	734	661	497	577
31	---	---	---	762	654	725	750	723	739	---	---	---
MONTH	554	157	329	762	324	460	815	386	597	837	399	624
YEAR	837	157	471									

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), MIDDLE INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	500	462	483	732	669	703	349	307	329	596	519	554
2	520	476	494	756	692	709	384	349	364	587	447	539
3	547	448	515	752	677	713	407	356	385	603	529	569
4	561	512	538	775	680	719	406	343	374	570	540	554
5	586	446	533	784	727	771	430	373	409	599	536	571
6	609	543	583	775	674	752	430	383	410	588	536	563
7	659	543	592	803	715	759	565	408	480	605	546	580
8	689	549	616	788	717	753	588	549	576	643	549	598
9	688	393	501	768	650	740	615	558	589	731	570	670
10	605	546	577	741	381	554	621	582	605	806	708	739
11	589	537	568	673	387	446	636	588	617	1030	806	935
12	585	542	566	397	328	369	645	600	627	960	845	896
13	586	555	570	415	388	398	650	608	634	907	810	855
14	595	551	579	453	415	426	650	464	578	836	745	795
15	632	566	600	499	453	475	1160	581	923	785	612	710
16	643	586	619	475	424	443	909	647	802	880	778	842
17	692	611	641	496	454	469	647	290	472	1170	832	1040
18	681	591	638	519	494	509	398	228	298	1050	995	1030
19	753	629	699	540	514	530	253	221	235	995	823	905
20	731	565	652	586	520	564	268	249	261	968	806	888
21	669	541	582	607	553	585	290	268	278	806	728	754
22	601	533	561	620	584	604	317	290	305	750	715	729
23	652	548	610	624	592	608	348	317	332	776	747	762
24	717	588	627	629	506	604	378	348	364	769	755	764
25	636	574	606	644	589	616	398	374	383	760	724	738
26	608	521	562	627	330	490	428	398	411	724	693	706
27	648	583	614	447	274	339	481	428	452	703	679	688
28	760	604	670	274	230	241	513	481	499	691	651	670
29	760	625	720	273	241	257	514	498	506	694	652	677
30	749	627	695	307	273	289	530	509	519	693	641	672
31	716	653	672	---	---	---	564	526	546	869	643	758
MONTH	760	393	596	803	230	548	1160	221	470	1170	447	734

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), MIDDLE INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	763	633	706	579	546	561	264	239	251	511	444	489
2	636	587	617	546	529	537	287	257	273	523	486	502
3	588	561	577	529	518	522	306	279	292	546	514	529
4	561	543	554	519	509	514	318	294	307	557	520	543
5	543	523	532	534	509	515	331	313	322	673	554	658
6	531	518	521	730	534	619	338	327	333	686	643	670
7	1050	531	742	982	730	846	340	327	334	676	589	627
8	1050	928	972	1140	982	1080	349	331	340	665	546	627
9	958	921	938	1140	1040	1070	357	300	345	708	655	685
10	921	778	845	1160	1020	1070	300	264	277	711	677	694
11	797	678	751	1120	880	970	280	265	271	717	677	703
12	678	574	613	880	769	817	284	265	273	713	680	700
13	574	539	553	769	608	667	310	276	289	746	681	720
14	539	529	533	608	534	560	327	298	309	747	719	736
15	543	538	540	534	505	516	352	318	339	744	697	722
16	567	541	552	507	497	504	362	348	354	752	703	730
17	554	539	545	500	463	484	370	356	364	753	703	732
18	555	525	542	463	425	443	367	344	357	747	715	735
19	525	502	509	450	415	433	399	350	380	746	706	732
20	504	489	495	456	402	429	415	396	406	746	722	738
21	497	483	489	406	310	382	426	407	416	758	717	739
22	501	494	498	310	262	282	414	396	403	752	682	721
23	497	484	491	264	228	240	405	388	397	684	475	530
24	604	485	518	296	240	264	418	400	409	491	463	479
25	683	604	660	334	272	297	419	403	410	530	491	512
26	857	637	733	351	313	330	452	419	437	549	518	530
27	757	647	697	371	336	352	473	448	458	589	549	566
28	647	579	609	387	360	373	482	466	475	550	413	465
29	---	---	---	396	366	385	488	439	480	413	375	392
30	---	---	---	393	267	307	511	439	494	389	373	384
31	---	---	---	270	242	254	---	---	---	392	382	387
MONTH	1050	483	619	1160	228	536	511	239	360	758	373	612

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	424	390	407	443	400	424	785	733	765	785	748	771
2	418	263	332	464	398	415	778	759	769	792	753	777
3	320	263	285	492	446	461	803	768	790	804	754	785
4	265	257	262	468	432	446	828	766	810	791	754	773
5	258	255	257	474	419	438	831	721	797	802	753	779
6	265	257	261	475	401	429	828	721	807	812	767	791
7	279	265	272	444	410	430	811	708	764	820	782	801
8	301	279	290	435	390	409	759	703	743	821	784	803
9	324	301	313	453	390	415	772	736	757	833	802	819
10	349	324	338	499	442	460	757	497	702	838	816	827
11	376	348	362	505	454	472	771	582	716	840	794	818
12	428	376	397	497	464	478	771	501	686	831	574	719
13	476	424	445	530	497	516	637	528	593	665	602	630
14	534	476	498	597	526	563	539	396	436	729	614	657
15	534	500	515	643	581	617	430	394	408	748	452	540
16	555	513	525	683	608	642	498	418	468	452	389	415
17	563	175	300	681	637	667	539	498	525	492	421	475
18	262	211	236	698	655	684	598	527	559	549	486	526
19	224	210	217	736	690	713	652	589	612	588	525	550
20	244	224	233	746	706	728	687	517	640	615	583	600
21	279	244	262	706	658	688	709	659	688	690	531	637
22	315	279	298	701	623	653	690	598	630	690	476	551
23	347	269	325	703	629	671	619	542	594	511	451	476
24	288	245	274	723	665	711	699	579	664	546	458	501
25	273	261	266	738	676	718	592	499	534	589	515	557
26	306	272	289	759	697	728	616	523	560	618	465	556
27	335	306	321	796	638	753	675	613	633	559	508	530
28	358	335	347	792	717	760	700	657	678	563	508	541
29	391	357	372	756	689	728	724	683	705	653	529	580
30	416	390	401	758	735	746	748	724	737	693	621	658
31	---	---	---	777	738	757	751	723	742	---	---	---
MONTH	563	175	330	796	390	591	831	394	662	840	389	648
YEAR	1170	175	559									

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), RIGHT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	631	579	607	784	733	767	351	309	331	595	519	554
2	642	595	622	776	755	768	391	350	368	625	535	590
3	672	613	641	781	760	773	436	390	401	640	625	632
4	672	645	661	789	759	776	465	436	448	645	621	631
5	691	617	650	783	757	774	498	465	485	647	623	636
6	716	674	698	775	738	758	521	484	507	648	619	634
7	718	677	700	803	752	782	565	503	545	643	619	636
8	716	685	703	788	724	761	588	549	575	809	643	722
9	721	674	696	767	727	755	616	558	589	917	809	875
10	720	679	702	753	667	726	621	583	604	1050	856	900
11	727	682	702	692	385	447	636	589	616	1370	1050	1290
12	739	715	730	396	328	368	644	600	627	1360	1230	1290
13	746	722	738	413	388	397	650	608	634	1230	1130	1190
14	757	722	734	455	413	425	763	509	610	1130	1030	1070
15	772	732	755	502	455	477	1160	580	925	1050	1000	1040
16	783	763	776	475	422	442	910	648	802	1000	936	978
17	794	747	773	505	455	473	648	454	566	1320	989	1180
18	790	746	772	527	505	517	475	277	326	1100	1040	1090
19	772	685	743	550	525	539	288	265	272	1040	913	981
20	748	686	716	589	529	573	268	264	265	1010	811	912
21	714	687	700	614	560	593	290	268	278	811	730	758
22	713	677	696	623	587	607	316	290	305	752	717	731
23	740	696	708	627	591	612	347	316	332	778	749	764
24	742	681	712	650	599	627	377	347	363	771	757	766
25	725	681	705	684	644	660	398	374	383	763	727	741
26	695	680	689	680	445	616	427	397	410	727	697	710
27	744	691	725	577	268	367	481	427	451	710	687	695
28	760	744	754	268	228	240	513	481	498	700	660	679
29	760	721	738	275	242	258	512	497	506	714	662	693
30	752	697	731	309	275	291	529	510	518	716	678	702
31	753	701	737	---	---	---	564	526	546	902	661	782
MONTH	794	579	710	803	228	572	1160	264	487	1370	519	834

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	779	639	720	582	548	563	337	308	326	580	559	564
2	642	591	621	548	531	539	330	324	326	619	580	594
3	591	564	579	531	520	525	330	324	327	636	609	626
4	564	544	556	522	512	516	340	330	335	645	620	638
5	544	525	534	537	512	517	349	340	344	667	636	656
6	533	519	523	735	537	622	357	349	353	683	641	667
7	1050	533	745	987	735	850	371	357	364	675	641	661
8	1060	931	974	1150	987	1080	387	371	379	693	648	674
9	960	923	940	1150	1040	1080	398	387	391	705	654	688
10	923	781	848	1160	1030	1080	389	338	367	708	675	697
11	801	680	755	1120	883	972	362	337	353	712	675	700
12	680	575	615	883	771	819	359	354	355	705	677	696
13	575	541	555	771	654	691	366	356	362	743	679	715
14	541	530	535	654	555	580	370	366	368	744	716	733
15	546	540	543	555	517	530	379	369	375	748	696	721
16	570	543	555	517	504	512	385	379	382	751	703	730
17	557	543	548	504	494	499	395	385	390	752	704	732
18	558	527	544	496	491	493	408	394	400	748	716	735
19	527	504	510	492	480	485	422	405	414	745	707	732
20	506	491	497	485	482	484	430	417	424	745	720	737
21	500	485	491	488	450	482	442	424	434	753	716	736
22	503	496	500	450	317	379	454	434	444	752	680	720
23	499	486	492	384	291	328	465	448	455	686	476	531
24	607	486	520	395	371	390	478	457	466	491	464	479
25	689	607	663	400	394	397	484	470	476	529	491	511
26	934	664	778	405	400	403	490	469	477	548	518	530
27	784	651	711	414	405	409	501	473	485	589	548	566
28	651	582	613	422	413	418	526	498	511	551	413	465
29	---	---	---	431	422	427	540	517	526	413	372	392
30	---	---	---	430	332	386	565	538	547	386	372	382
31	---	---	---	351	284	308	---	---	---	390	381	387
MONTH	1060	485	624	1160	284	573	565	308	405	753	372	626

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), RIGHT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	425	390	407	522	451	477	785	752	768	781	749	769
2	418	237	350	549	520	531	777	759	770	794	754	777
3	260	234	251	547	484	505	799	769	789	805	755	786
4	262	256	260	493	443	459	827	786	810	790	755	774
5	256	255	256	482	422	447	830	786	811	802	755	780
6	264	255	259	484	405	438	826	782	808	812	770	792
7	277	264	270	458	413	436	807	733	764	821	784	802
8	299	277	288	445	407	423	759	726	741	821	785	803
9	321	298	310	497	445	465	771	734	756	832	802	818
10	347	321	336	528	484	494	752	726	742	835	814	824
11	374	346	360	543	527	530	769	726	749	837	791	816
12	424	374	394	567	543	561	769	542	696	832	575	720
13	471	423	441	581	555	575	636	523	592	666	601	631
14	527	471	493	643	574	616	544	395	435	730	613	659
15	527	492	509	677	622	651	429	392	407	748	455	543
16	547	512	522	700	646	673	496	416	466	455	392	417
17	555	172	331	714	669	692	537	496	524	494	423	476
18	205	147	179	722	687	707	596	527	557	549	487	527
19	222	205	215	737	692	719	650	587	611	594	526	552
20	241	222	230	746	708	729	686	641	655	637	586	605
21	276	241	259	708	678	693	707	657	687	689	637	664
22	311	276	295	702	620	654	689	595	630	688	475	551
23	334	309	324	706	658	673	643	592	607	508	449	474
24	325	280	304	720	689	709	698	588	668	542	456	497
25	289	281	286	735	700	720	592	498	534	598	519	562
26	308	287	298	762	728	747	614	523	559	620	465	557
27	333	308	320	796	745	766	673	614	632	558	508	530
28	358	333	346	793	738	762	700	670	678	571	508	544
29	394	358	374	756	708	729	721	690	706	652	528	580
30	451	394	418	761	737	750	746	721	735	693	642	663
31	---	---	---	777	739	759	751	722	741	---	---	---
MONTH	555	147	330	796	405	616	830	392	665	837	392	650
YEAR	1370	147	592									

TEMPERATURE, WATER (DEG. C), LEFT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	15.0	15.5	11.0	9.5	10.0	5.5	5.0	5.5	1.0	.5	.5
2	17.5	15.5	16.5	11.0	9.0	10.0	5.0	3.5	4.5	1.0	.0	.5
3	18.0	16.0	17.0	11.0	9.5	10.0	3.5	2.5	3.0	1.0	.0	.5
4	18.5	16.5	17.5	11.5	10.5	11.0	3.0	2.0	2.5	1.0	.5	.5
5	18.0	17.0	17.5	11.0	10.5	10.5	3.5	2.5	3.0	.5	.5	.5
6	17.5	16.5	17.0	11.5	10.0	10.5	3.5	2.5	3.0	1.0	.5	.5
7	17.0	15.5	16.5	10.5	9.5	10.0	3.5	1.5	2.5	1.0	.5	1.0
8	16.0	14.0	15.0	10.0	9.0	9.5	2.0	1.5	2.0	1.0	.5	1.0
9	14.0	12.5	13.5	10.0	9.5	10.0	3.0	1.5	2.0	1.5	1.0	1.0
10	12.5	11.5	12.0	11.5	10.0	11.0	3.0	1.0	2.0	1.5	.5	1.0
11	13.5	11.0	12.0	11.5	11.0	11.0	3.0	1.5	2.5	1.5	.5	1.0
12	13.5	11.5	12.5	11.0	10.5	11.0	4.5	3.0	3.5	2.0	1.0	1.5
13	14.5	12.0	13.0	10.5	10.0	10.0	4.0	3.0	3.5	2.0	1.0	1.5
14	15.0	13.0	14.0	10.5	10.0	10.0	3.0	3.0	3.0	1.5	1.0	1.5
15	15.5	14.0	15.0	10.0	8.5	9.0	3.5	2.5	3.0	2.0	1.5	2.0
16	15.5	15.0	15.0	8.5	8.0	8.5	3.5	3.0	3.0	3.0	2.0	2.5
17	15.0	14.5	14.5	9.0	8.0	8.5	7.5	3.5	5.5	3.0	2.0	2.5
18	14.5	14.0	14.5	8.0	7.5	8.0	5.0	4.0	4.5	2.5	2.5	2.5
19	14.5	13.5	14.0	7.5	6.5	7.0	4.0	3.0	3.5	2.5	2.5	2.5
20	15.0	13.0	13.5	7.0	6.0	6.5	3.0	2.5	3.0	2.5	2.0	2.0
21	15.0	13.0	14.0	6.5	5.5	6.0	2.5	2.0	2.0	2.0	1.0	1.5
22	15.0	13.0	14.0	6.0	4.5	5.0	2.5	2.0	2.5	1.5	1.0	1.0
23	14.0	12.5	13.0	5.0	4.0	4.5	2.0	1.0	1.5	1.5	.5	1.0
24	13.5	12.0	13.0	4.5	3.0	4.0	1.5	1.0	1.0	1.5	1.0	1.5
25	14.0	12.5	13.0	4.0	3.0	3.5	1.5	.5	1.0	2.0	1.5	1.5
26	14.5	13.0	13.5	5.5	3.0	4.0	1.0	.0	.5	2.0	1.0	1.5
27	14.5	13.5	13.5	5.5	5.0	5.0	1.5	.5	1.0	2.0	1.0	2.0
28	14.5	13.0	13.5	5.5	5.0	5.5	1.5	1.0	1.0	2.5	1.5	2.0
29	13.0	11.0	12.0	5.5	5.0	5.5	1.5	.5	1.0	2.0	1.5	2.0
30	11.5	10.0	11.0	6.0	5.5	5.5	1.0	.0	.5	2.0	2.0	2.0
31	11.0	9.5	10.0	---	---	---	.5	.0	.5	2.5	2.0	2.0
MONTH	18.5	9.5	14.1	11.5	3.0	8.0	7.5	.0	2.5	3.0	.0	1.4

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

TEMPERATURE, WATER (DEG. C), LEFT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.0	2.0	2.5	3.5	2.5	3.0	5.0	4.5	4.5	18.0	16.0	17.0
2	3.0	2.5	2.5	3.5	3.0	3.5	5.5	4.5	5.0	19.0	17.5	18.5
3	2.5	2.0	2.5	4.5	3.5	4.0	6.5	5.0	5.5	20.0	18.5	19.0
4	2.5	1.5	2.0	4.0	3.0	3.5	7.5	5.5	6.5	21.5	19.5	20.5
5	2.5	.5	1.5	3.0	2.0	2.5	8.5	6.5	7.5	23.0	21.0	22.0
6	2.5	.5	1.5	2.5	1.5	2.0	8.5	7.5	7.5	22.0	20.0	21.0
7	3.0	1.5	2.0	4.0	2.0	3.0	8.0	7.5	7.5	20.0	17.0	18.5
8	2.5	2.0	2.0	4.0	3.0	3.5	8.0	7.0	7.5	18.5	17.0	17.5
9	3.0	2.5	3.0	4.0	3.5	3.5	10.5	7.5	8.5	20.0	16.5	18.0
10	4.5	3.0	3.5	4.5	3.0	4.0	11.5	10.0	10.5	20.5	17.0	18.5
11	3.5	2.0	2.5	5.0	3.5	4.5	10.5	10.0	10.0	21.5	18.0	20.0
12	2.5	1.5	2.0	5.5	4.0	4.5	10.0	9.0	9.5	23.0	19.5	21.0
13	3.5	2.0	2.5	5.0	4.0	4.5	11.0	9.5	10.0	23.0	19.5	21.0
14	3.0	2.5	2.5	4.5	4.0	4.5	11.5	10.0	11.0	21.0	19.0	20.0
15	3.5	3.0	3.5	4.5	3.5	4.0	12.5	10.5	11.5	20.5	18.0	19.0
16	3.5	2.5	3.0	5.5	4.5	5.0	12.5	11.5	12.0	19.0	17.5	18.0
17	3.5	3.0	3.0	5.5	5.0	5.5	12.0	11.0	11.5	18.0	17.0	17.5
18	3.0	1.5	2.5	6.0	5.0	5.5	11.0	10.0	10.5	17.0	16.5	16.5
19	3.0	1.5	2.5	6.0	4.0	5.0	11.0	9.5	10.5	19.0	16.0	17.5
20	4.0	2.5	3.5	6.0	5.0	5.5	11.5	10.0	11.0	19.5	17.0	18.0
21	4.5	3.5	4.0	6.0	5.5	5.5	12.5	11.0	12.0	18.5	18.0	18.0
22	3.5	1.5	2.0	5.5	5.0	5.0	15.0	12.0	13.5	18.0	16.0	17.0
23	3.0	1.0	2.0	5.5	4.0	4.5	17.0	14.0	15.5	16.5	16.0	16.0
24	3.0	2.0	2.5	5.5	4.5	5.0	17.5	15.5	16.5	17.0	15.5	16.5
25	3.0	2.5	3.0	5.5	4.0	5.0	17.5	14.5	15.5	17.0	16.5	16.5
26	3.5	2.5	3.0	5.5	4.5	4.5	15.0	13.0	14.5	16.5	16.0	16.5
27	4.0	2.5	3.0	5.0	3.5	4.0	15.5	13.5	14.5	16.5	16.0	16.0
28	4.0	3.0	3.5	5.5	4.0	5.0	16.0	14.5	15.5	17.5	16.0	17.0
29	---	---	---	5.5	5.0	5.0	16.0	14.0	15.0	18.5	16.5	17.5
30	---	---	---	5.0	4.5	5.0	16.5	14.0	15.5	18.5	17.0	18.0
31	---	---	---	5.0	4.5	4.5	---	---	---	18.0	16.5	17.5
MONTH	4.5	.5	2.6	6.0	1.5	4.3	17.5	4.5	10.9	23.0	15.5	18.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.5	16.0	17.0	26.0	24.5	25.5	25.5	23.0	24.0	25.5	23.5	24.5
2	17.0	15.0	16.0	24.5	22.0	23.0	26.0	23.5	24.5	25.0	23.0	24.0
3	17.5	16.0	16.5	23.0	21.0	22.0	25.5	24.5	25.0	24.5	22.5	23.0
4	17.5	16.5	17.0	22.5	22.0	22.5	26.0	24.0	25.0	23.5	21.5	22.5
5	18.5	17.0	18.0	23.5	22.0	23.0	26.5	23.5	25.0	23.5	21.0	22.0
6	19.5	18.5	19.0	23.0	22.0	22.5	27.0	24.5	25.5	23.5	21.0	22.0
7	20.5	19.0	19.5	23.0	21.5	22.5	28.0	25.5	26.5	23.5	20.5	22.0
8	21.0	19.5	20.5	23.0	21.5	22.0	29.0	27.0	28.0	23.5	21.0	22.0
9	21.0	19.5	20.5	24.0	21.0	22.5	29.5	27.5	28.5	24.0	21.5	22.5
10	20.5	19.5	20.5	25.0	23.0	24.0	30.0	27.5	28.5	24.5	22.5	23.0
11	20.5	20.0	20.0	25.0	23.0	24.0	27.5	26.5	27.0	24.5	22.5	23.5
12	22.0	20.0	21.0	23.5	22.5	23.0	26.5	24.5	25.5	24.0	22.0	23.0
13	23.5	21.5	22.5	23.0	22.0	22.5	25.0	24.0	24.5	23.5	21.5	22.5
14	23.5	23.0	23.5	22.5	21.5	22.0	26.0	24.0	25.0	22.0	20.0	21.0
15	24.0	23.0	23.5	23.5	21.0	22.0	26.0	24.0	25.0	20.0	18.0	19.0
16	25.0	24.0	24.0	24.5	21.5	23.0	26.0	24.0	25.0	19.0	17.5	18.0
17	24.0	21.0	22.0	25.0	22.5	23.5	26.0	24.5	25.0	19.0	17.5	18.0
18	23.0	21.0	21.5	25.0	23.0	24.0	26.0	24.0	25.0	19.5	17.5	18.5
19	23.0	22.0	22.5	25.5	23.0	24.0	26.0	24.0	25.0	20.0	18.0	19.0
20	23.5	22.5	23.0	25.5	23.0	24.0	26.0	24.5	25.0	20.0	19.0	19.5
21	23.5	22.5	23.0	26.0	23.0	24.5	26.0	24.0	25.0	21.0	19.5	20.0
22	23.5	22.0	22.5	26.5	23.0	24.5	26.5	24.0	25.0	21.5	20.5	21.0
23	23.5	22.0	23.0	26.5	23.5	25.0	25.0	24.0	24.5	22.0	20.5	21.0
24	22.0	21.5	22.0	27.5	25.0	26.0	24.5	22.5	23.5	22.0	21.0	21.5
25	23.5	21.5	22.0	28.0	26.0	27.0	25.0	22.5	23.5	21.5	20.5	21.0
26	24.0	22.0	23.0	27.0	26.0	26.5	25.0	22.5	23.5	20.5	19.0	20.0
27	24.5	22.5	23.5	26.5	23.5	25.5	24.5	23.0	24.0	19.0	18.0	18.5
28	25.5	24.0	25.0	25.5	23.5	24.5	25.0	23.5	24.0	18.5	17.0	17.5
29	25.5	24.5	25.0	24.5	23.0	23.5	25.5	23.5	24.5	17.5	16.5	17.0
30	26.0	24.5	25.5	24.5	23.0	23.5	25.0	23.5	24.0	16.5	15.5	15.5
31	---	---	---	25.0	22.5	23.5	25.0	24.0	24.5	---	---	---
MONTH	26.0	15.0	21.4	28.0	21.0	23.7	30.0	22.5	25.1	25.5	15.5	20.8
YEAR	30.0	.0	12.8									

PASSAIC RIVER BASIN

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

TEMPERATURE, WATER (DEG. C), MIDDLE INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.0	14.5	15.0	10.5	9.5	10.0	6.0	5.5	5.5	.5	.0	.0
2	16.5	15.0	16.0	10.5	9.5	10.0	5.5	4.0	4.5	.5	.0	.5
3	17.5	15.5	16.5	11.0	9.5	10.0	4.0	3.0	3.5	.5	.0	.5
4	18.0	16.5	17.0	11.5	10.5	11.0	3.0	2.0	2.5	.5	.5	.5
5	17.5	17.0	17.5	11.0	10.5	11.0	3.0	2.5	2.5	.5	.5	.5
6	17.5	17.0	17.5	11.5	10.0	10.5	3.0	2.5	2.5	.5	.5	.5
7	17.0	16.0	17.0	10.5	9.5	10.0	3.0	2.0	2.5	1.0	.5	.5
8	16.0	14.5	15.5	10.0	9.5	9.5	2.5	1.5	2.0	1.0	.5	1.0
9	14.5	13.0	13.5	10.5	9.5	10.0	2.5	1.5	2.0	1.5	1.0	1.5
10	13.0	12.0	12.5	12.5	10.0	11.5	2.5	1.5	2.0	1.5	1.0	1.5
11	12.5	11.0	12.0	12.5	12.0	12.5	3.0	2.0	2.5	1.5	1.0	1.0
12	13.5	11.5	12.5	12.0	11.0	11.5	4.0	3.0	3.5	2.0	1.0	1.5
13	14.0	12.0	13.0	11.0	10.5	11.0	4.0	3.5	3.5	2.0	1.0	1.5
14	14.5	13.0	14.0	11.0	10.5	10.5	3.5	3.0	3.0	2.0	1.5	1.5
15	15.5	14.0	15.0	10.5	9.5	10.0	3.5	3.0	3.0	2.5	1.5	2.0
16	15.0	15.0	15.0	9.5	8.5	9.0	3.0	2.5	3.0	3.5	2.0	3.0
17	15.0	14.5	15.0	8.5	8.0	8.5	7.5	3.0	5.0	3.5	3.0	3.0
18	15.0	14.5	14.5	8.0	7.5	8.0	5.5	4.0	5.0	3.5	2.5	3.0
19	14.5	13.5	14.0	7.5	6.5	7.0	4.0	3.0	3.5	3.0	2.5	2.5
20	14.5	13.5	14.0	7.0	5.5	6.5	3.0	2.0	2.5	2.5	1.5	2.5
21	14.5	13.0	14.0	6.0	5.0	5.5	2.0	1.0	1.5	1.5	.5	1.0
22	14.5	13.0	14.0	5.0	4.0	4.5	1.5	1.0	1.5	1.0	.5	.5
23	14.0	12.5	13.5	4.0	3.0	3.5	1.0	.5	.5	1.0	.5	.5
24	13.5	12.5	13.0	4.0	2.5	3.0	1.0	.5	.5	1.0	.5	1.0
25	13.5	12.5	13.0	3.5	2.0	2.5	.5	.5	.5	1.5	1.0	1.5
26	14.5	13.0	13.5	5.5	3.0	4.0	.5	.0	.0	1.5	1.0	1.5
27	14.0	13.5	13.5	6.5	5.0	6.0	.5	.0	.5	2.0	1.0	1.5
28	14.5	13.0	14.0	6.5	6.0	6.5	.5	.5	.5	2.0	1.5	2.0
29	13.0	11.5	12.5	6.0	6.0	6.0	.5	.5	.5	2.0	1.5	2.0
30	11.5	10.5	11.0	6.0	5.5	6.0	.5	.0	.0	2.5	2.0	2.0
31	11.0	9.5	10.0	---	---	---	.5	.0	.0	2.5	2.0	2.5
MONTH	18.0	9.5	14.2	12.5	2.0	8.2	7.5	.0	2.3	3.5	.0	1.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.5	2.0	2.0	3.0	2.5	3.0	5.0	5.0	5.0	17.5	16.0	17.0
2	2.5	2.0	2.0	3.0	3.0	3.0	5.5	5.0	5.0	19.0	17.5	18.5
3	2.0	1.5	1.5	4.0	3.0	3.5	7.5	5.0	6.0	20.0	18.5	19.5
4	1.5	1.0	1.5	4.0	3.5	4.0	9.0	6.5	7.5	21.5	19.5	20.5
5	1.5	.5	1.0	3.5	2.0	3.0	10.0	7.5	8.5	22.5	21.0	22.0
6	1.5	.5	1.0	2.5	2.0	2.5	10.0	9.0	9.0	21.5	20.0	21.0
7	3.0	1.5	2.0	4.0	2.0	3.0	9.0	8.5	9.0	20.0	17.5	19.0
8	2.5	2.0	2.0	5.0	3.5	4.0	9.0	8.0	8.5	19.0	17.0	18.0
9	3.0	2.0	2.5	4.5	4.0	4.5	10.5	8.0	9.0	19.0	17.0	18.0
10	4.0	2.5	3.5	5.0	3.5	4.5	11.0	10.0	10.5	20.0	17.5	18.5
11	3.5	2.0	3.0	5.0	4.0	4.5	10.5	10.0	10.0	21.0	18.5	19.5
12	2.0	1.5	1.5	6.0	4.0	5.0	10.0	9.5	9.5	22.5	19.5	21.0
13	2.5	1.5	2.0	5.5	4.5	5.0	12.0	10.0	10.5	22.0	19.5	20.5
14	2.5	2.0	2.5	5.0	4.0	4.5	13.0	10.5	11.5	21.0	19.0	20.0
15	3.0	2.5	3.0	5.0	4.0	4.5	13.5	12.0	12.5	20.0	18.0	19.0
16	3.0	3.0	3.0	6.5	5.0	5.5	13.5	13.0	13.0	18.5	17.5	18.0
17	3.0	2.5	3.0	6.5	6.5	6.5	13.0	12.0	12.5	18.0	17.0	17.5
18	2.5	1.5	2.0	6.5	5.5	6.0	12.0	11.0	11.5	17.0	16.5	16.5
19	2.5	1.5	2.0	6.5	5.5	6.0	12.0	10.5	11.0	18.5	16.0	17.0
20	3.0	2.0	2.5	7.0	6.0	6.5	12.0	10.5	11.5	19.0	17.0	18.0
21	4.0	3.0	3.5	7.0	5.5	6.0	13.0	11.5	12.5	18.5	18.0	18.0
22	3.5	2.0	3.0	5.5	5.0	5.0	15.5	12.5	14.0	18.0	16.0	17.0
23	2.5	1.5	2.0	5.5	4.0	5.0	17.5	14.5	16.0	16.0	15.5	15.5
24	3.0	1.5	2.5	6.0	5.0	5.5	18.0	16.0	17.0	17.0	15.5	16.0
25	3.0	2.5	2.5	6.0	4.5	5.5	18.0	15.5	16.0	17.0	16.5	16.5
26	3.5	3.0	3.0	6.0	4.5	5.0	15.5	14.5	15.0	16.5	16.0	16.5
27	4.0	3.0	3.5	5.5	3.5	4.5	15.5	14.0	14.5	16.5	16.0	16.0
28	4.0	3.0	3.5	6.5	4.5	5.5	16.0	14.5	15.5	17.5	16.0	16.5
29	---	---	---	6.0	5.5	6.0	16.0	14.5	15.5	18.5	17.0	17.5
30	---	---	---	6.0	5.0	5.0	16.0	15.0	15.5	18.5	17.0	17.5
31	---	---	---	5.0	4.5	5.0	---	---	---	18.0	16.5	17.0
MONTH	4.0	.5	2.4	7.0	2.0	4.7	18.0	5.0	11.4	22.5	15.5	18.2

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

TEMPERATURE, WATER (DEG. C), MIDDLE INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.5	16.0	17.0	26.5	25.0	26.0	26.0	23.0	24.5	25.5	24.0	24.5
2	17.0	15.0	16.5	25.0	23.0	23.5	26.5	24.0	25.0	25.0	23.5	24.0
3	17.5	16.0	16.5	23.5	22.0	23.0	25.5	24.5	25.0	24.5	22.5	23.0
4	18.0	17.0	17.5	23.0	22.0	22.5	26.0	24.5	25.0	23.0	22.0	22.5
5	18.5	17.0	18.0	23.5	22.5	23.0	26.5	24.5	25.0	23.5	21.5	22.0
6	19.0	18.0	18.5	23.5	22.5	23.0	27.0	24.5	26.0	23.5	21.0	22.0
7	19.5	18.5	19.0	23.0	22.0	22.5	28.0	25.5	27.0	23.5	21.0	22.0
8	20.0	18.5	19.5	23.0	21.5	22.0	29.5	27.0	28.0	23.5	21.0	22.0
9	20.0	19.0	19.5	23.5	21.5	22.5	30.0	27.5	28.5	24.0	21.5	22.5
10	20.5	19.0	20.0	24.5	23.0	24.0	29.5	27.5	28.5	24.0	22.5	23.0
11	20.5	19.5	20.0	24.5	23.5	24.0	28.0	27.0	27.5	24.0	22.5	23.5
12	21.5	19.5	20.5	24.0	23.0	23.5	27.0	25.0	26.0	24.0	22.5	23.0
13	23.0	21.0	22.0	23.5	22.5	23.0	25.0	24.5	25.0	23.5	21.5	22.5
14	23.5	22.5	23.0	23.0	22.0	22.5	25.5	24.0	24.5	22.5	20.0	21.0
15	23.5	23.0	23.5	24.0	21.5	22.5	25.0	24.5	25.0	20.0	18.0	19.0
16	24.5	23.5	24.0	24.5	22.0	23.0	25.5	25.0	25.0	18.0	17.5	18.0
17	24.0	21.0	22.0	25.0	23.0	24.0	26.0	25.0	25.0	18.5	17.5	18.0
18	22.5	21.0	21.5	25.0	23.5	24.5	26.0	24.0	25.0	19.5	17.5	18.5
19	23.0	21.5	22.5	25.5	24.0	24.5	25.5	24.5	25.0	20.0	18.0	19.0
20	24.0	22.5	23.0	25.5	23.5	24.5	26.0	24.5	25.0	19.5	19.0	19.5
21	24.0	22.5	23.0	26.0	23.5	25.0	25.5	24.5	25.0	20.5	19.5	20.0
22	23.5	22.0	22.5	26.0	24.0	25.0	26.0	24.5	25.0	21.0	20.0	21.0
23	23.0	22.0	22.5	26.5	24.5	25.5	25.0	24.0	24.5	21.5	20.5	21.0
24	22.0	21.5	22.0	27.5	25.5	26.0	24.5	23.5	24.0	22.0	21.0	21.5
25	23.0	21.5	22.0	28.5	26.5	27.5	24.5	23.0	23.5	21.5	21.0	21.5
26	23.5	22.0	23.0	27.5	26.5	27.0	25.0	23.0	24.0	21.0	19.5	20.0
27	24.5	22.5	23.5	26.5	25.0	26.0	24.5	23.0	24.0	19.5	17.5	18.5
28	25.5	23.5	24.5	25.0	24.0	24.5	25.5	23.5	24.0	18.0	17.0	17.5
29	26.0	24.5	25.5	24.5	23.5	24.0	25.5	23.5	24.5	17.0	16.5	16.5
30	26.0	25.0	26.0	24.5	23.0	23.5	25.0	24.0	24.0	16.5	15.5	15.5
31	---	---	---	25.0	23.0	24.0	25.0	24.0	24.0	---	---	---
MONTH	26.0	15.0	21.3	28.5	21.5	24.1	30.0	23.0	25.2	25.5	15.5	20.8
YEAR	30.0	.0	12.9									

TEMPERATURE, WATER (DEG. C), RIGHT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.5	14.0	14.5	10.0	9.5	9.5	6.0	5.5	5.5	.0	.0	.0
2	16.0	14.5	15.5	10.0	9.5	9.5	5.5	4.0	4.5	.5	.0	.0
3	17.0	15.5	16.0	10.5	9.5	10.0	4.0	3.0	3.0	.5	.0	.0
4	18.0	16.0	17.0	11.0	10.5	10.5	3.0	2.0	2.5	.5	.0	.0
5	17.5	17.0	17.5	11.0	10.5	10.5	2.5	2.0	2.0	.5	.0	.0
6	17.5	17.0	17.5	11.0	10.0	10.5	2.5	1.5	2.0	.5	.0	.0
7	17.5	16.0	17.0	10.0	9.5	10.0	2.5	1.5	2.0	.5	.0	.5
8	16.0	15.0	15.5	10.0	9.5	9.5	2.0	1.5	2.0	1.0	.5	.5
9	15.0	13.0	14.0	10.0	9.5	10.0	2.5	1.5	2.0	1.5	.5	1.0
10	13.0	11.5	12.0	12.5	10.0	11.0	2.5	1.0	2.0	1.5	1.0	1.5
11	12.0	11.0	11.5	12.5	12.0	12.5	3.0	2.0	2.5	1.5	.5	1.0
12	12.0	11.0	11.5	12.0	11.0	11.5	4.0	3.0	3.5	1.5	.5	1.0
13	13.0	12.0	12.5	11.0	10.5	10.5	4.0	3.0	3.5	2.0	1.0	1.5
14	14.0	13.0	13.5	11.0	10.5	10.5	3.5	3.0	3.5	2.0	1.0	1.5
15	15.0	14.0	14.5	10.5	9.5	10.0	3.5	3.0	3.0	2.5	1.5	2.0
16	15.0	15.0	15.0	9.5	8.5	9.0	3.0	2.5	3.0	3.5	2.0	3.0
17	15.5	15.0	15.0	8.5	8.0	8.5	6.0	3.0	4.5	3.5	3.0	3.5
18	15.0	14.5	15.0	8.0	7.5	8.0	6.5	4.5	6.0	3.5	2.5	3.0
19	14.5	13.5	14.0	7.5	6.5	7.0	4.5	2.5	3.5	3.0	2.5	2.5
20	14.0	13.5	13.5	6.5	5.5	6.0	2.5	2.0	2.5	2.5	1.5	2.5
21	14.0	13.0	13.5	6.0	5.0	5.5	2.0	1.0	1.5	1.5	.5	1.0
22	14.0	13.0	13.5	5.0	4.0	4.5	1.5	1.0	1.5	.5	.0	.5
23	13.5	13.0	13.0	4.0	3.0	3.5	1.0	.5	.5	.5	.0	.5
24	13.5	12.5	13.0	3.0	2.5	3.0	1.0	.5	.5	1.0	.5	.5
25	13.5	12.5	13.0	3.0	2.0	2.5	.5	.0	.5	1.5	1.0	1.5
26	14.0	13.0	13.5	4.5	3.0	3.5	.5	.0	.0	1.5	1.0	1.0
27	14.0	13.5	13.5	7.0	4.5	6.0	.5	.0	.0	2.0	1.0	1.5
28	14.0	13.0	13.5	6.5	6.0	6.5	.5	.5	.5	2.0	1.5	2.0
29	13.0	12.0	12.5	6.0	6.0	6.0	.5	.0	.5	2.0	1.5	1.5
30	12.0	10.5	11.0	6.0	5.5	6.0	.0	.0	.0	2.5	1.5	2.0
31	10.5	9.5	10.0	---	---	---	.0	.0	.0	2.5	2.0	2.5
MONTH	18.0	9.5	14.0	12.5	2.0	8.1	6.5	.0	2.2	3.5	.0	1.3

PASSAIC RIVER BASIN

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

TEMPERATURE, WATER (DEG. C), RIGHT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.5	2.0	2.0	3.0	2.5	3.0	6.0	5.5	5.5	17.5	16.0	17.0
2	2.5	2.0	2.0	3.0	2.5	3.0	6.0	5.0	5.5	19.5	17.5	18.5
3	2.0	1.0	1.5	4.0	3.0	3.5	8.0	5.5	6.5	21.0	19.5	20.0
4	1.5	1.0	1.0	4.0	3.5	4.0	9.5	6.5	8.0	22.0	20.5	21.0
5	1.5	.5	1.0	3.5	2.0	3.0	11.0	8.0	9.0	22.5	21.0	22.0
6	1.5	.5	1.0	2.5	2.0	2.0	11.0	9.5	9.5	21.5	20.0	21.0
7	3.0	1.5	2.0	4.0	2.0	3.0	9.5	9.0	9.5	20.0	18.0	19.5
8	2.5	2.0	2.0	5.0	3.0	4.0	9.5	8.5	9.0	19.5	17.5	18.0
9	3.0	2.0	2.5	4.5	4.0	4.0	11.5	8.5	9.5	19.0	17.0	18.0
10	4.0	2.5	3.5	5.0	3.5	4.5	13.5	11.5	12.5	20.0	17.5	18.5
11	3.5	2.0	3.0	5.0	4.0	4.5	13.5	11.5	12.5	21.5	18.5	20.0
12	2.0	1.0	1.5	6.0	4.0	5.0	11.5	11.0	11.0	22.5	19.5	21.0
13	2.5	1.0	2.0	5.5	5.0	5.0	13.0	11.0	12.0	22.0	19.5	20.5
14	2.5	2.0	2.5	5.0	4.5	5.0	14.0	12.0	13.0	21.0	19.0	20.0
15	3.0	2.5	3.0	5.0	4.5	5.0	14.0	13.0	13.5	20.0	18.0	19.0
16	3.0	3.0	3.0	6.5	5.0	5.5	14.0	13.5	13.5	18.5	17.5	18.0
17	3.0	2.5	3.0	7.0	6.5	6.5	13.5	12.5	13.0	18.0	17.0	17.5
18	2.5	1.5	2.0	7.0	6.5	6.5	12.5	11.5	12.0	17.0	16.5	16.5
19	2.5	1.0	2.0	7.0	6.0	6.5	12.0	11.0	11.5	18.5	16.0	17.0
20	3.0	2.0	2.5	7.5	6.5	7.0	12.5	10.5	11.5	19.5	17.0	18.0
21	4.0	3.0	3.5	7.5	6.5	7.0	13.5	11.5	12.5	18.5	18.0	18.0
22	3.5	2.0	2.5	6.5	5.5	6.0	16.0	13.0	14.0	18.0	16.0	17.0
23	2.0	1.5	2.0	7.0	4.5	5.5	18.0	15.0	16.5	16.0	15.5	15.5
24	3.0	1.5	2.5	7.0	6.0	6.5	19.0	17.0	18.0	17.0	15.5	16.0
25	3.0	2.5	2.5	6.5	5.0	6.0	19.0	17.0	17.5	17.0	16.5	16.5
26	3.5	3.0	3.0	6.5	5.0	5.5	17.0	15.0	15.5	16.5	16.0	16.5
27	4.0	3.0	3.5	5.5	3.5	4.5	16.0	14.0	14.5	16.5	16.0	16.0
28	3.5	3.0	3.5	7.0	4.5	5.5	16.0	14.5	15.5	17.5	16.0	16.5
29	---	---	---	6.5	6.0	6.0	16.0	15.0	15.5	18.5	17.0	18.0
30	---	---	---	6.0	5.0	5.5	16.0	15.0	15.5	18.5	17.0	18.0
31	---	---	---	5.5	5.0	5.0	---	---	---	18.0	16.5	17.5
MONTH	4.0	.5	2.4	7.5	2.0	5.0	19.0	5.0	12.1	22.5	15.5	18.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.5	16.0	17.0	26.5	26.0	26.5	25.5	23.0	24.0	25.0	24.0	24.5
2	17.0	15.5	16.0	26.0	24.0	25.0	26.0	24.0	25.0	24.5	23.0	24.0
3	17.5	16.0	16.5	24.0	22.5	23.0	25.5	24.5	25.0	24.5	22.5	23.0
4	18.0	17.0	17.5	23.0	22.0	22.5	26.0	24.5	25.0	23.0	22.0	22.5
5	18.5	17.0	18.0	24.0	22.5	23.0	26.0	24.5	25.0	23.0	21.5	22.0
6	19.0	18.0	18.5	23.5	22.5	23.0	27.0	24.5	26.0	23.0	21.0	22.0
7	19.5	18.5	19.0	23.0	22.0	22.5	28.5	25.5	27.0	23.5	21.0	22.0
8	20.0	19.0	19.5	23.0	22.0	22.0	29.0	27.0	28.0	23.5	21.0	22.0
9	20.5	19.0	19.5	23.5	22.0	22.5	30.0	27.5	28.5	24.0	21.5	22.5
10	20.5	19.5	20.0	24.5	23.0	24.0	29.5	28.5	29.0	24.0	22.5	23.5
11	20.5	19.5	20.0	25.0	24.5	24.5	28.5	27.0	27.5	24.0	22.5	23.5
12	22.0	19.5	20.5	24.5	23.5	24.0	27.0	25.0	26.0	23.5	22.5	23.0
13	23.0	21.5	22.0	24.0	22.5	23.0	25.0	24.5	25.0	23.5	21.5	22.5
14	23.5	22.5	23.0	23.5	22.0	22.5	25.5	24.0	24.5	22.5	20.0	21.0
15	24.0	23.0	23.5	24.0	21.5	22.5	25.0	24.5	25.0	20.0	18.0	18.5
16	24.5	23.5	24.0	25.0	22.0	23.5	26.0	25.0	25.0	18.0	17.5	18.0
17	24.0	21.5	22.5	25.0	23.0	24.0	26.0	25.0	25.5	18.5	17.5	18.0
18	22.5	21.0	21.5	25.0	24.0	24.5	26.0	24.0	25.0	19.5	17.5	18.5
19	23.0	21.5	22.5	25.5	24.0	24.5	26.0	24.5	25.0	19.5	18.0	19.0
20	24.0	22.5	23.5	25.5	23.5	24.5	26.0	24.5	25.0	19.5	19.0	19.5
21	24.0	22.5	23.0	26.5	23.5	25.0	26.0	24.5	25.0	20.5	19.5	20.0
22	23.5	22.0	22.5	26.5	24.0	25.0	26.5	24.5	25.5	21.0	20.5	21.0
23	23.0	22.5	23.0	27.0	24.5	25.5	25.0	24.0	24.5	21.5	20.5	21.0
24	22.5	22.0	22.5	27.5	25.5	26.5	24.5	23.5	24.0	22.0	21.0	21.5
25	23.0	21.5	22.5	28.5	26.5	27.5	24.5	23.0	23.5	21.5	21.0	21.5
26	23.5	22.0	23.0	28.0	26.5	27.0	25.0	23.0	24.0	21.0	19.5	20.0
27	24.5	22.5	23.5	26.5	25.0	26.0	24.5	23.0	24.0	19.5	17.5	18.5
28	25.5	23.5	24.5	25.5	24.0	24.5	25.0	23.5	24.0	18.0	16.5	17.5
29	26.0	24.5	25.5	24.5	23.5	24.0	25.5	23.5	24.5	17.0	16.5	16.5
30	26.5	25.0	26.0	24.0	23.0	23.5	25.0	24.0	24.0	16.5	15.5	15.5
31	---	---	---	25.0	23.0	24.0	25.0	24.0	24.5	---	---	---
MONTH	26.5	15.5	21.4	28.5	21.5	24.2	30.0	23.0	25.3	25.0	15.5	20.8
YEAR	30.0	.0	13.0									

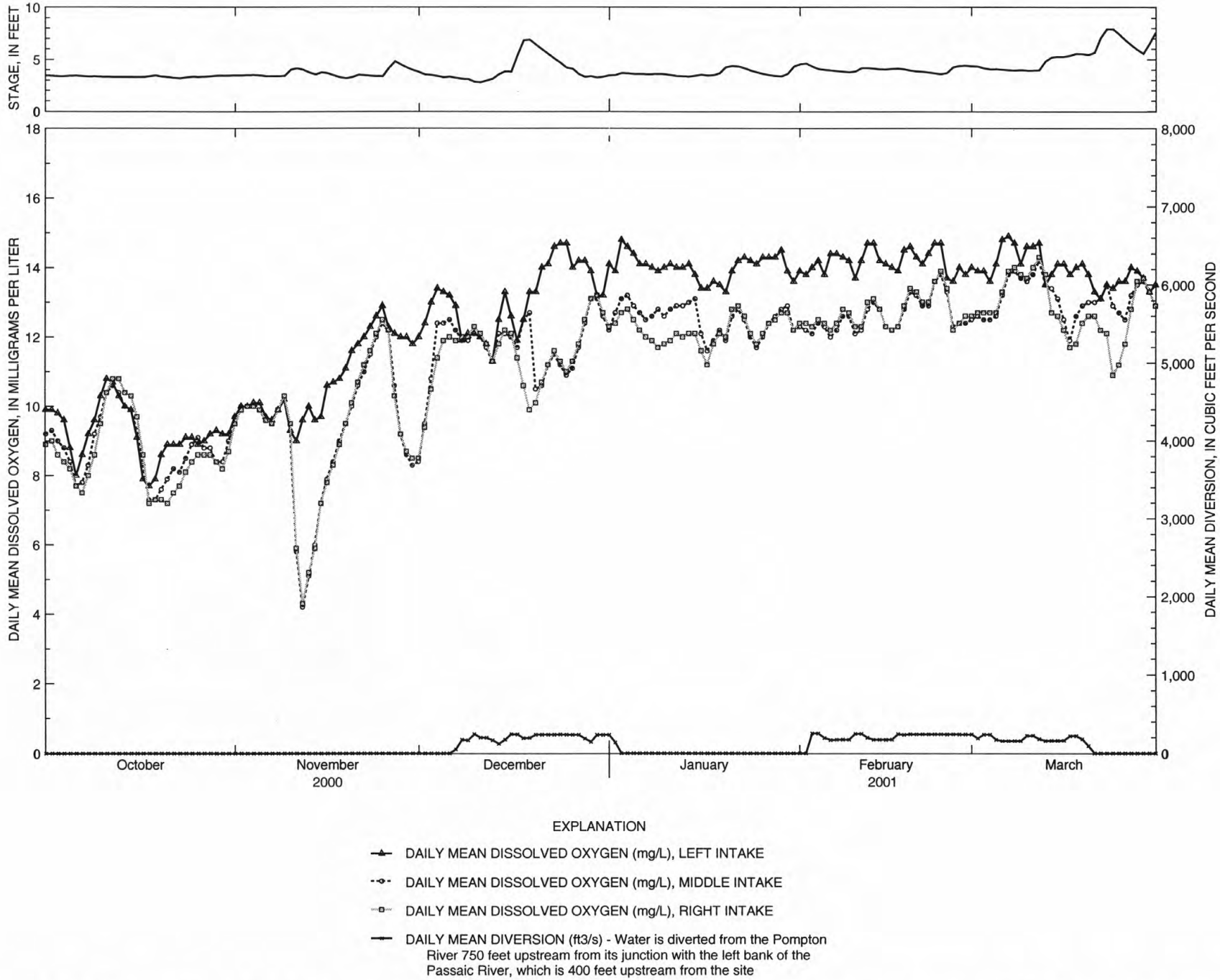


Figure 35. Physical characteristics, concentrations of constituents, stage, and daily diversion measured at 01389005 Passaic River below Pompton River at Two Bridges, water year 2001.

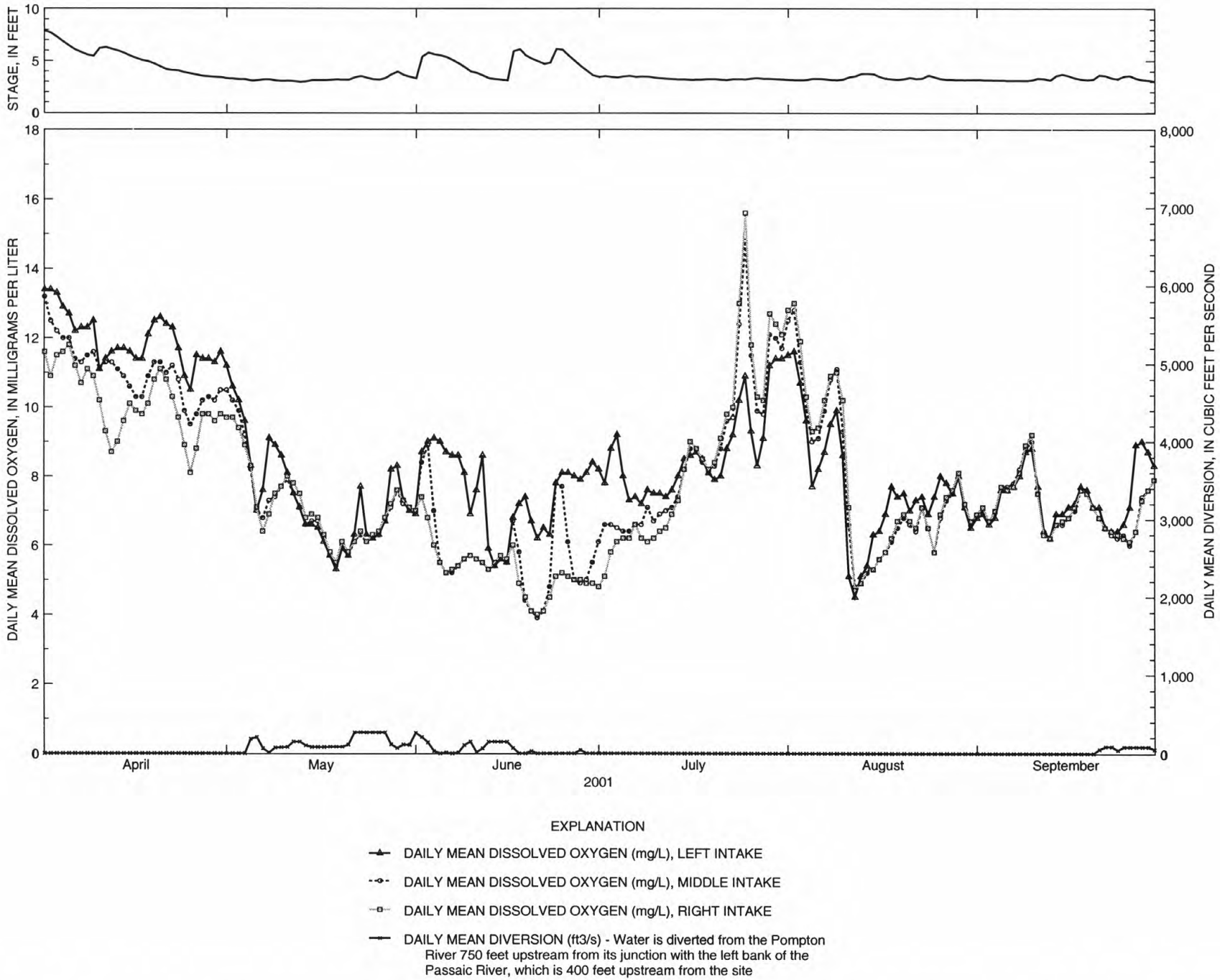


Figure 35. Physical characteristics, concentrations of constituents, stage, and daily diversion measured at 01389005 Passaic River below Pompton River at Two Bridges--continued, water year 2001.

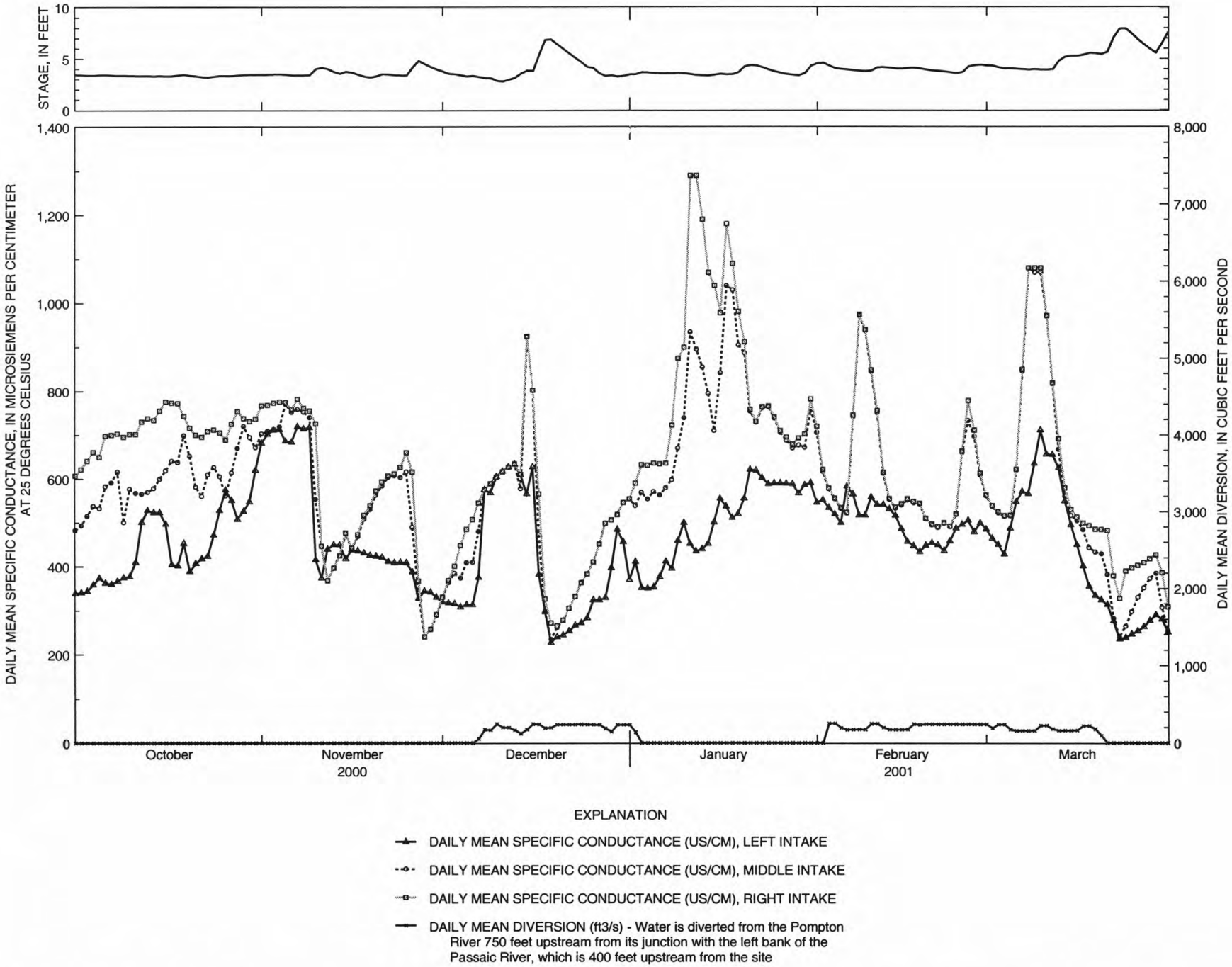


Figure 35. Physical characteristics, concentrations of constituents, stage, and daily diversion measured at 01389005 Passaic River below Pompton River at Two Bridges--continued, water year 2001.

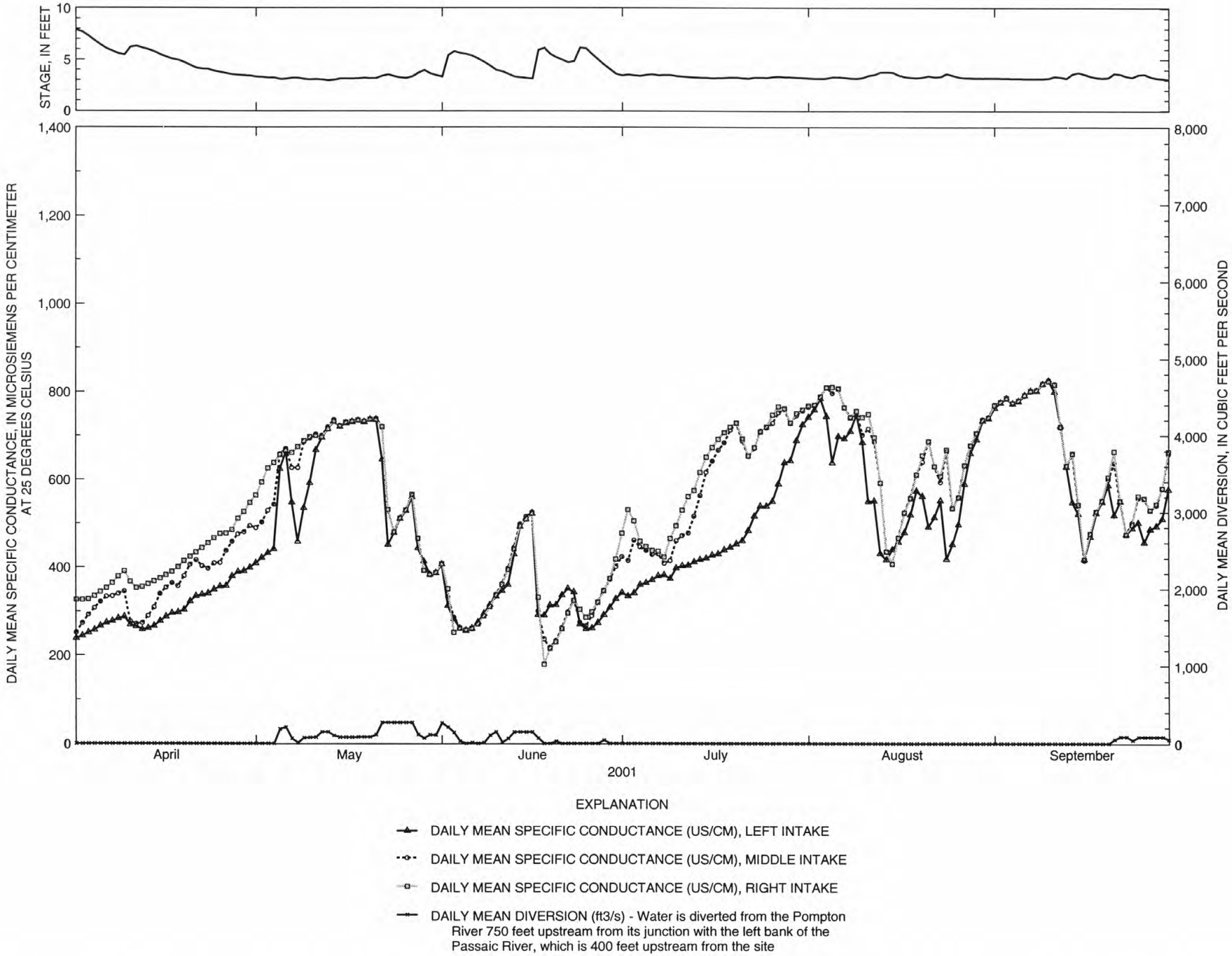


Figure 35. Physical characteristics, concentrations of constituents, stage, and daily diversion measured at 01389005 Passaic River below Pompton River at Two Bridges--continued, water year 2001.

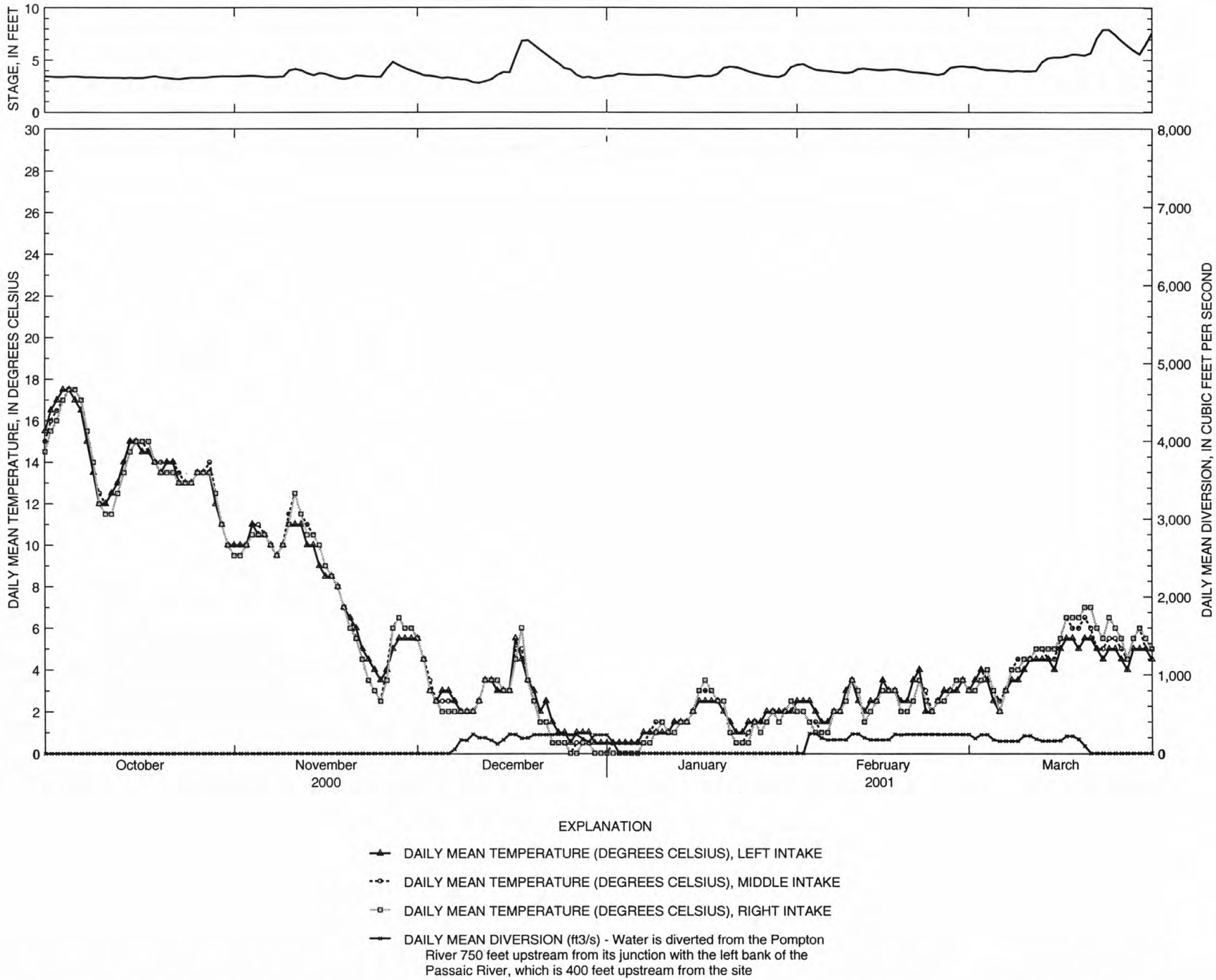


Figure 35. Physical characteristics, concentrations of constituents, stage, and daily diversion measured at 01389005 Passaic River below Pompton River at Two Bridges--continued, water year 2001.

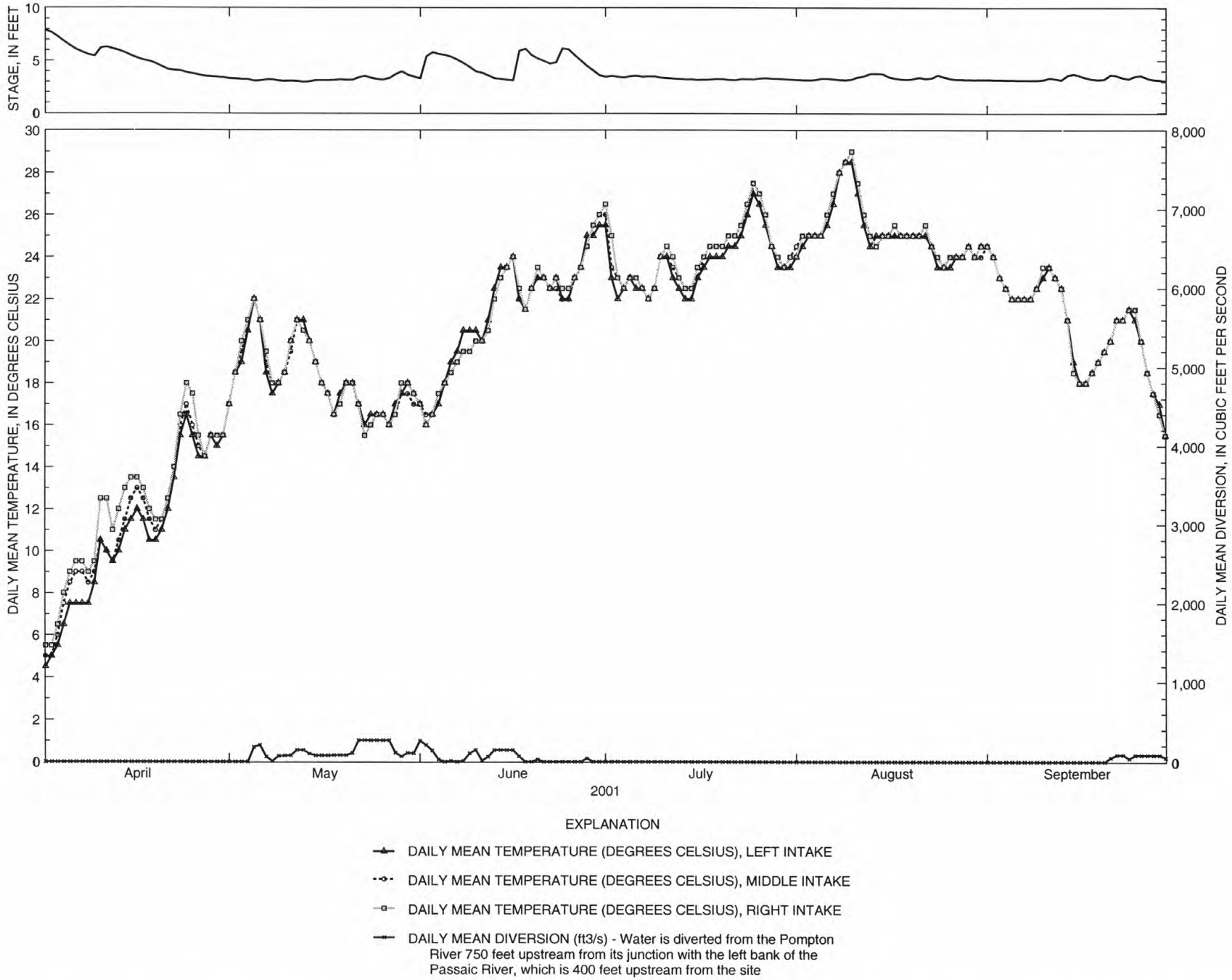


Figure 35. Physical characteristics, concentrations of constituents, stage, and daily diversion measured at 01389005 Passaic River below Pompton River at Two Bridges--continued.

Cross section of specific conductance, water temperature, and dissolved oxygen concentration measurements (distance from left bank looking downstream); and recorded hourly specific conductance, water temperature, and dissolved oxygen concentration measurements from the water-quality monitor at the station, Passaic River below Pompton River at Two Bridges, NJ.

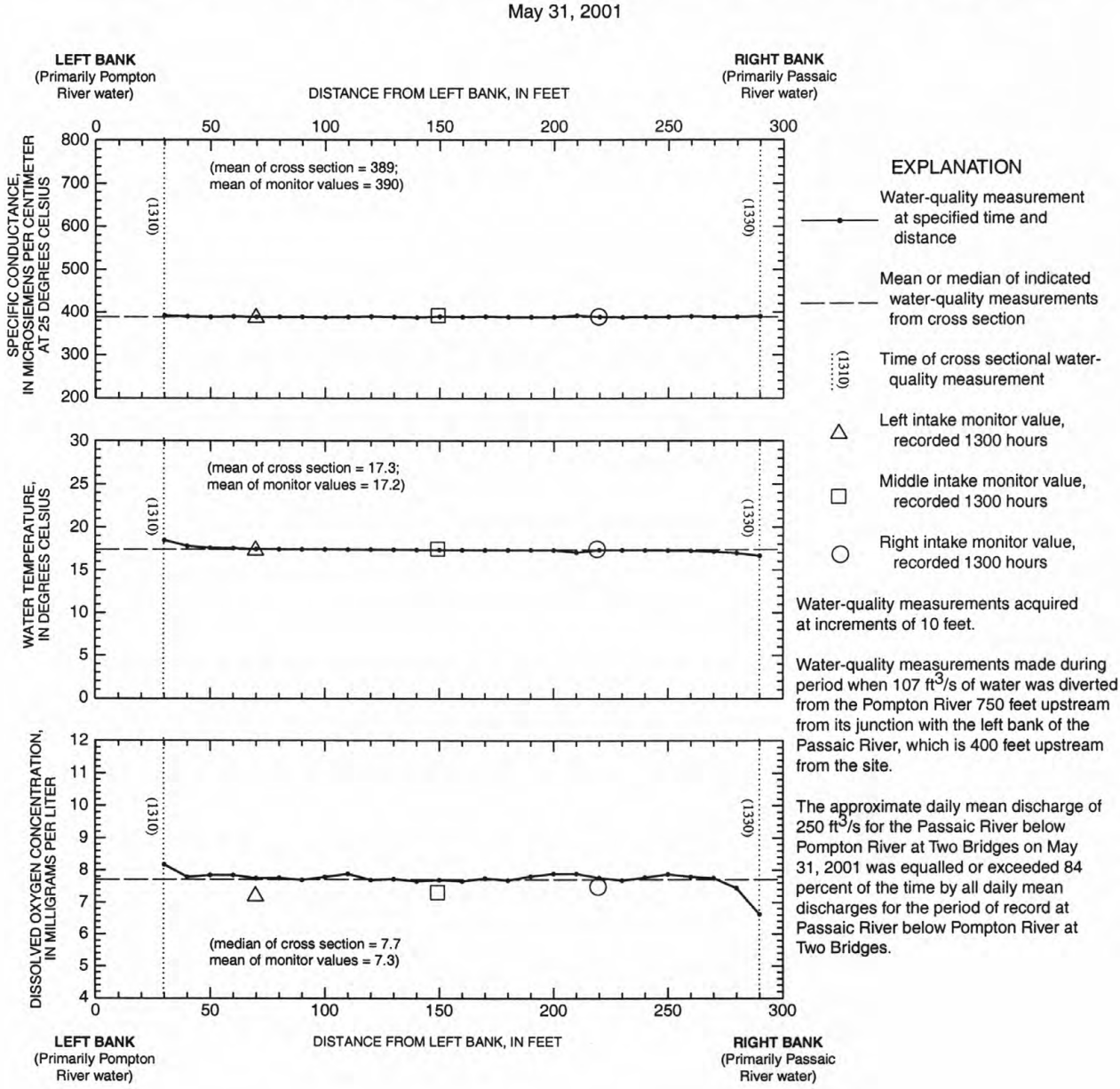


Figure 36. Cross sectional water-quality measurements with recorded monitor values, at Passaic River below Pompton River at Two Bridges, May 31, 2001.

Cross section of specific conductance, water temperature, and dissolved oxygen concentration measurements (distance from left bank looking downstream); and recorded hourly specific conductance, water temperature, and dissolved oxygen concentration measurements from the water-quality monitor at the station, Passaic River below Pompton River at Two Bridges, NJ.

July 3, 2001

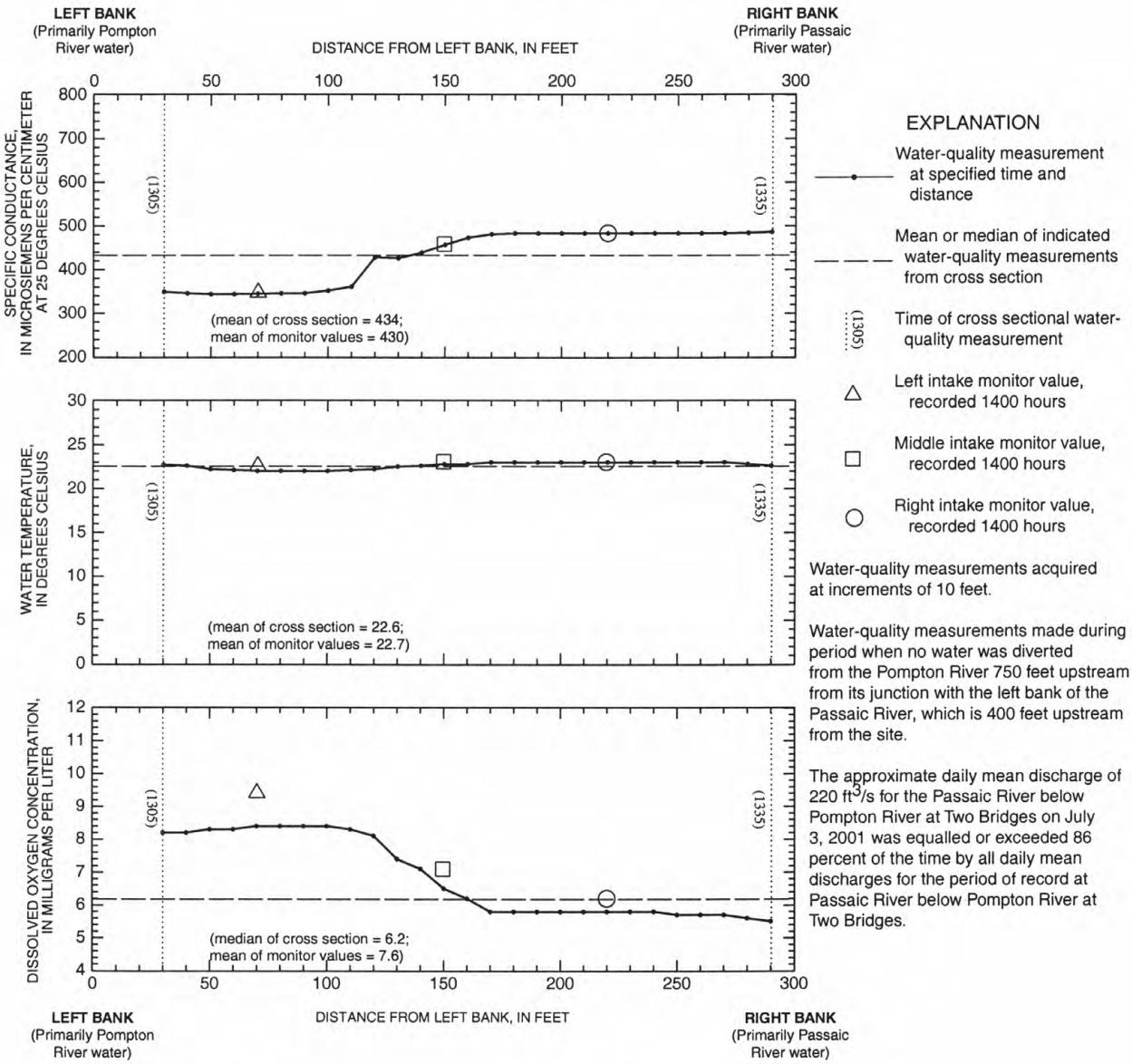


Figure 37. Cross sectional water-quality measurements with recorded monitor values, at Passaic River below Pompton River at Two Bridges, July 3, 2001.

01389500 PASSAIC RIVER AT LITTLE FALLS, NJ

LOCATION.--Lat 40°53'05", long 74°13'35", Passaic County, Hydrologic Unit 02030103, 0.6 mi downstream from Beatties Dam in Little Falls, and 1.0 mi upstream from Peckman River.

DRAINAGE AREA.--762 mi^2.

PERIOD OF RECORD.--Water years 1963-96, 1998 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1980 to November 1986.
WATER TEMPERATURE: Water years 1963 to 1980 (once daily), September 1980 to November 1986.
DISSOLVED OXYGEN: October 1970 to September 1980 (once daily).
SUSPENDED-SEDIMENT DISCHARGE: August 1963 to July 1965.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
08...	1030	131	--	.121	.093	763	90	10.2	8.0	722	--	10.0	170
FEB													
14...	1000	1150	--	.151	.116	765	94	12.9	7.7	554	4.5	2.5	98
MAY													
10...	1000	181	9.2	.122	.091	763	88	8.2	7.6	654	17.0	18.5	160
SEP													
05...	1000	106	9.9	.107	.079	761	72	6.3	7.9	718	21.0	22.0	170

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
08...	43.2	15.1	7.05	67.9	108	111	E.1	12.3	53.0	398	393	.070	.48
FEB													
14...	26.1	8.09	2.35	64.0	49	115	<.2	10.1	20.1	308	282	.060	.32
MAY													
10...	39.9	13.6	5.07	60.6	92	117	E.1	11.9	33.2	388	350	.100	.59
SEP													
05...	43.3	15.0	7.03	72.7	99	121	E.1	12.2	49.4	404	380	<.030	E.47

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
08...	.05	.54	4.17	.016	4.7	4.7	.102	.933	1.01	.7	<.1	4.2	.7
FEB													
14...	.06	.32	1.51	.020	1.8	1.8	.070	.124	.144	.5	<.1	4.1	.5
MAY													
10...	.08	.85	3.03	.047	3.6	3.9	.185	.381	.526	1.3	M	4.1	E1.3
SEP													
05...	<.03	.66	E4.41	.020	--	--	.136	E.744	.780	.9	<.1	4.2	.9

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV				
08...	E1.3	--	187	12
FEB				
14...	E1.8	--	53	8
MAY				
10...	2.0	37.2	145	10
SEP				
05...	E1.2	33.9	188	17

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01389500 PASSAIC RIVER AT LITTLE FALLS, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
02...	1215	2800	500	150
09...	1210	490	200	240
16...	1200	2200	200	2700
23...	1200	1300	800	360
30...	1130	2200	600	190

01389850 GOFFLE BROOK AT HAWTHORNE, NJ

LOCATION.--Lat 40°56'20", long 74°09'48", Passaic County, Hydrologic Unit 02030103, at bridge on Wagaraw Road in Hawthorne, 0.2 mi upstream from mouth and Passaic River, and 1.2 mi east of Haledon.

DRAINAGE AREA.--8.77 mi^2.

PERIOD OF RECORD.--April 1998 to September 1998 and November 2000 to September 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFL/TRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
28...	1000	--	.146	.117	762	101	12.1	7.7	432	--	7.5	140	41.2
FEB													
06...	1000	--	.062	.046	761	97	13.2	8.0	3180	5.0	2.0	220	63.8
JUN													
05...	1000	2.6	.121	.091	762	85	8.4	7.6	575	--	16.0	170	49.5
SEP													
05...	1000	2.2	.032	.023	762	84	7.6	7.8	530	22.0	20.0	200	61.1

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFL/TRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
28...	9.49	2.63	26.6	97	57.6	E.1	11.2	16.8	239	231	<.030	.24	<.03
FEB													
06...	14.6	3.31	518	113	903	<.2	8.8	29.3	1780	1620	.050	<.10	.04
JUN													
05...	10.9	2.54	45.7	108	98.2	<.2	12.4	17.3	344	309	.050	.34	.06
SEP													
05...	12.6	1.58	29.4	143	74.9	<.2	14.2	21.8	318	301	.050	E.25	<.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV													
28...	.28	1.60	.004	1.8	1.9	.069	.032	.050	1.0	<.1	4.2	1.0	2.1
FEB													
06...	.30	2.59	<.003	--	2.9	.045	.018	.023	.7	<.1	3.6	.7	3.7
JUN													
05...	.38	1.74	.026	2.1	2.1	.073	.040	.064	.5	<.1	3.5	.5	<1.0
SEP													
05...	.24	E1.42	.012	--	--	<.022	.014	.029	.2	<.1	1.3	.2	<1.0

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV			
28...	--	38	<1
FEB			
06...	--	E45	5
JUN			
05...	2.90	42	4
SEP			
05...	6.60	37	2

E Estimated value.
< Actual value is known to be less than the value shown.

01389850 GOFFLE BROOK AT HAWTHORNE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)
SEP													
05...	1000	--	--	--	--	--	--	<2	143	<.06	38	E.03	<1
05...	1000	7.70	140	1.3	380	3.6	.5	--	--	--	--	--	--

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)
SEP													
05...	1.7	210	<1	150	<.01	<1	E.3	<.05	4	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	<1	.1	11	3.2

DATE	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA-TERIAL AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)
SEP													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	32	7200	31	200	.02	10	<1	60	E20	<50	E10	<50	90

DATE	ANTHRA-CENE, 2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)
SEP													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	E30	70	250	300	270	180	270	270	60	440	220	<50	<50

DATE	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)
SEP													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	<50	<50	M	<50	E10	140	E20	E20	160	<50	E20	370	<1

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
SEP	
05...	--
05...	<1

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01389850 GOFFLE BROOK AT HAWTHORNE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB 06...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	.28	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 06...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.6

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 06...	<.2	E.19	<.10	<.10	<.1	.34	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
JUN 05...	1000	<.004	<.002	<.005	E.005	<.010	E.027	<.020	<.005	<.018	<.003	E.003	.126

DATE	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)
JUN 05...	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	.016	E.013

DATE	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
JUN 05...	E.010	E.006	<.034	<.005	E.007

E Estimated value.
< Actual value is known to be less than the value shown.

01389850 GOFFLE BROOK AT HAWTHORNE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
02...	1130	24000	5400	8600	23...	1125	490	500	300
09...	1116	2200	2900	1900	30...	1055	2400	200	500

01391500 SADDLE RIVER AT LODI, NJ

LOCATION.--Lat 40°53'25", long 74°04'51", Bergen County, Hydrologic Unit 02030103, 560 ft upstream from bridge on Outwater Lane in Lodi and 3.2 mi upstream from mouth. Water-quality samples collected at bridge on Outwater Lane at high flows.

DRAINAGE AREA.--54.6 mi^2.

PERIOD OF RECORD.--Water years 1962 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
21...	0800	35	--	.108	.084	755	63	7.9	8.0	803	--	5.5	220
FEB													
15...	0830	78	--	.091	.069	755	67	8.9	7.5	960	3.0	3.0	210
MAY													
22...	0800	199	29	.314	.238	755	57	5.6	7.2	526	14.0	15.5	120
AUG													
08...	0800	26	2.6	.114	.087	759	56	4.6	7.6	914	30.0	24.5	240

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
21...	59.5	17.7	6.10	63.4	139	122	<.2	15.0	30.4	442	430	.810	1.4
FEB													
15...	59.0	15.1	4.50	93.1	124	179	<.2	10.5	29.5	527	489	1.18	1.7
MAY													
22...	32.7	9.09	5.14	48.1	67	84.1	E.1	7.2	18.4	304	265	.980	2.0
AUG													
08...	66.2	19.1	6.78	74.0	148	146	E.1	11.3	31.5	480	474	.100	.66

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
21...	.76	1.4	7.05	.260	8.4	8.5	.147	1.29	1.31	1.3	<.1	4.3	1.3
FEB													
15...	1.22	1.8	5.22	.155	6.9	7.0	.148	.644	.635	1.1	<.1	3.8	1.1
MAY													
22...	1.01	3.0	4.21	.331	6.2	7.2	.593	.919	1.19	5.9	<.1	14	5.9
AUG													
08...	.14	.75	6.79	.103	7.5	7.5	.097	1.40	1.43	.9	<.1	3.9	.9

E Estimated value.
< Actual value is known to be less than the value shown.

01391500 SADDLE RIVER AT LODI, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
21...	3.5	--	161	1
FEB				
15...	3.7	--	80	10
MAY				
22...	4.7	27.3	90	45
AUG				
08...	E1.3	10.6	152	6

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
05...	0845	16000	8000	4500	16...	1014	1400	900	260
09...	1018	5400	1900	1260	23...	1015	5400	2600	250
					30...	1007	1700	1000	380

E Estimated value.

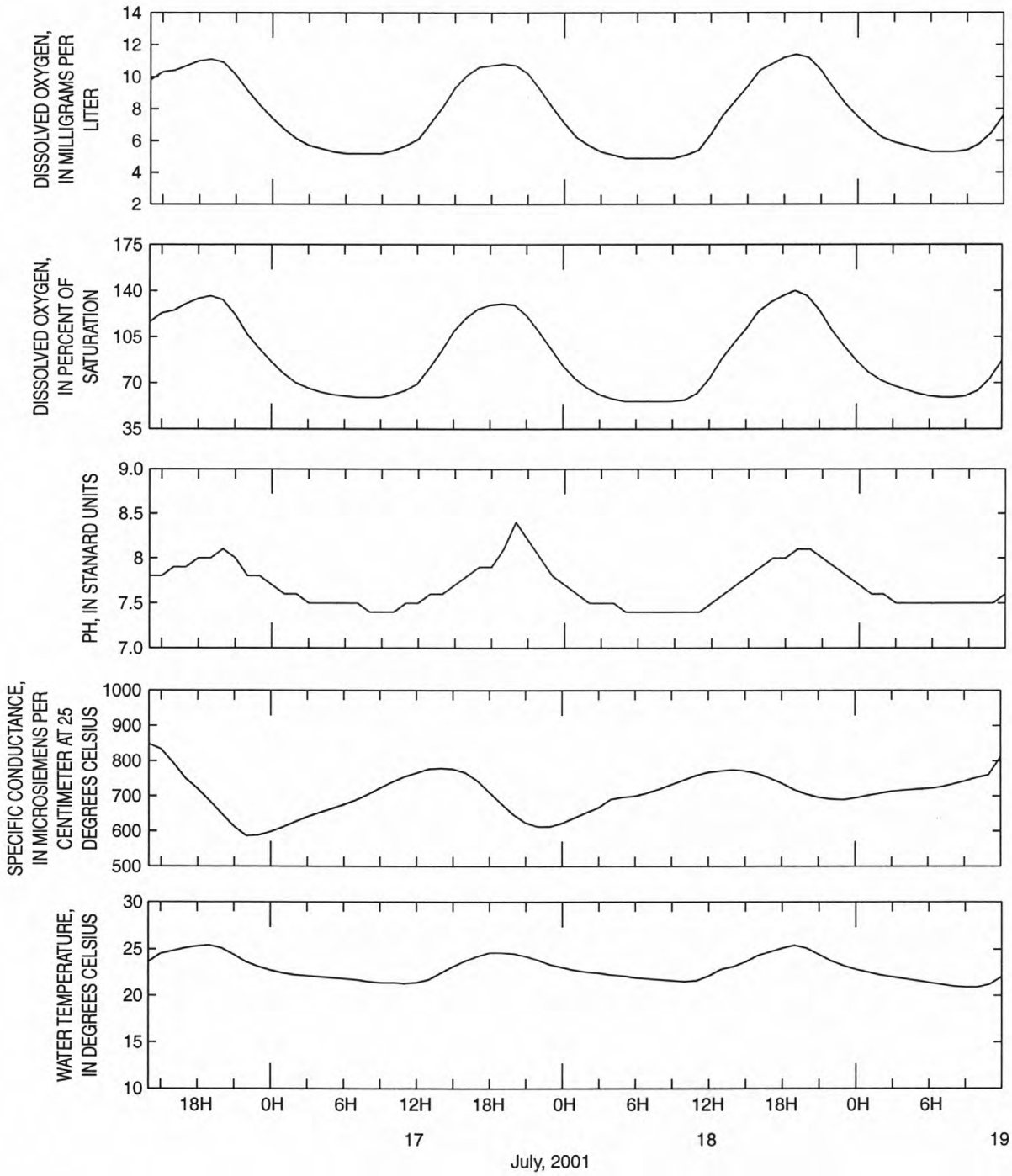


Figure 38. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01391500 Saddle River at Lodi, water year 2001.

01391550 SADDLE RIVER AT GARFIELD, NJ

LOCATION.--Lat 41°51'50", long 74°06'06", Bergen County, Hydrologic Unit 02030103, at bridge on Marcellus Place just north of intersection with Saddle River Avenue, 0.3 mi southeast of Garfield, and 0.3 mi upstream of mouth.

DRAINAGE AREA.--60.4 mi^2.

PERIOD OF RECORD.--November 2000 to September 2001.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
08...	1000	--	.103	.081	762	76	8.7	7.6	792	--	9.5	250	69.5
FEB													
28...	1000	--	.105	.079	764	99	12.7	7.7	977	2.5	5.0	190	55.0
MAY													
08...	1100	--	.102	.078	772	68	7.0	7.5	780	20.0	14.5	230	65.1
AUG													
08...	1000	1.6	.115	.087	760	64	5.1	7.6	796	27.0	26.5	250	67.8

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
08...	18.9	6.19	65.0	160	129	E.1	13.1	32.9	479	463	.200	.76	.23
FEB													
28...	13.4	3.90	108	114	202	E.1	10.0	27.2	553	508	.910	1.3	.91
MAY													
08...	16.9	5.10	74.4	141	148	E.1	11.6	30.4	529	465	.250	.85	.28
AUG													
08...	18.7	5.98	75.1	153	153	E.1	11.4	33.2	498	484	.070	.60	.10

DATE	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN,PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV													
08...	.87	7.23	.138	8.0	8.1	.096	1.17	1.19	.6	<.1	4.3	.6	2.0
FEB													
28...	1.5	4.07	.131	5.3	5.5	.081	.432	.478	.8	<.1	4.0	.8	2.9
MAY													
08...	.99	6.39	.172	7.2	7.4	.089	.870	.927	.9	<.1	4.3	.9	2.9
AUG													
08...	.62	6.05	.038	6.6	6.7	.064	1.11	1.18	.4	<.1	3.7	.4	2.1

E Estimated value.
< Actual value is known to be less than the value shown.

01391550 SADDLE RIVER AT GARFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV			
08...	--	161	11
FEB			
28...	--	78	3
MAY			
08...	9.00	125	2
AUG			
08...	5.30	153	2

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)
AUG													
08...	1000	--	--	--	--	--	--	E2	108	<.06	150	.09	<1
08...	1000	7.00	150	1.7	300	4.8	.5	--	--	--	--	--	--

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)
AUG													
08...	8.6	110	<1	53	<.01	2	E.3	E.05	13	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	<1	.2	9.5	2.6

DATE	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA-TERIAL AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)
AUG													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	20	6300	32	180	.06	7.4	<1	60	E30	<50	<50	<50	<50

DATE	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)
AUG													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	<50	70	210	220	220	160	180	250	E40	460	180	<50	<50

DATE	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)
AUG													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	<50	<50	<50	<50	<50	37	<50	<50	260	<50	E30	390	<1

E Estimated value.
< Actual value is known to be less than the value shown.

01391550 SADDLE RIVER AT GARFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG	
08...	--
08...	1

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLOROWATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLOROWATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLOROWATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB													
28...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYLETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB													
28...	.79	<.2	.14	2.50	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.8

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB									
28...	<.2	<.20	<.10	<.10	.4	.21	.52	<.20	1.0

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
MAY													
08...	1100	<.004	<.002	<.005	E.005	<.010	<.041	<.020	<.005	<.018	<.003	E.003	.079

DATE	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)
MAY													
08...	<.005	<.002	<.004	<.035	<.027	<.050	E.002	<.006	<.002	<.007	<.003	<.010	.016

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
08...	E.005	<.016	<.034	<.005	E.004

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
05...	0815	>24000	4900	5200
09...	1004	1700	1800	1900
16...	1000	5400	1400	200
23...	0955	3500	2500	200
30...	0953	5400	1200	280

E Estimated value.
> Actual value is known to be greater than the value shown.

PASSAIC RIVER BASIN

01391550 SADDLE RIVER AT GARFIELD, NJ

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

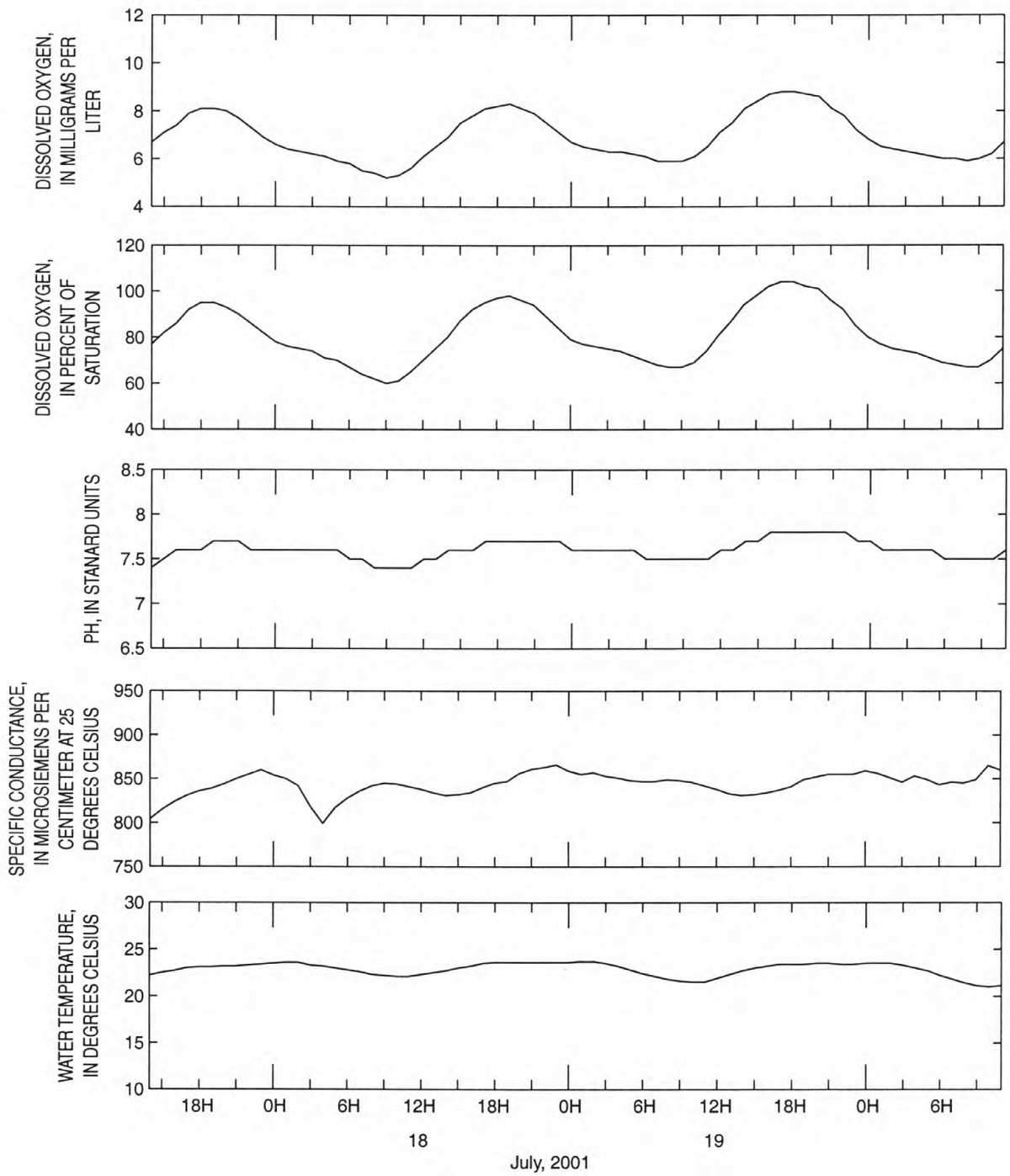


Figure 39. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01391550 Saddle River at Garfield, water year 2001.

01393960 WEST BRANCH RAHWAY RIVER AT NORTHFIELD AVENUE, AT WEST ORANGE, NJ

LOCATION.--Lat 40°46'11", long 74°17'00", Essex County, Hydrologic Unit 02030104, at bridge on Northfield Avenue in West Orange, 0.1 mi upstream of Orange Reservoir, and 2.2 mi east of Northfield.

DRAINAGE AREA.--7.09 mi^2.

PERIOD OF RECORD.--Water Year 1999 and November 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
14...	1000	--	.074	.055	750	85	9.4	7.6	577	--	10.0	180	45.0
FEB													
14...	1000	--	.073	.054	758	77	10.3	7.7	1270	8.0	3.0	210	52.0
MAY													
24...	1100	2.8	.124	.090	752	69	7.0	7.4	670	20.5	14.0	150	37.4
AUG													
15...	1100	4.6	.158	.115	756	62	5.4	7.4	411	21.5	21.5	110	29.3

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
14...	16.0	1.75	44.0	71	121	E.1	13.3	30.4	341	319	.040	.25	<.03
FEB													
14...	18.4	2.10	197	59	384	<.2	12.4	27.1	810	736	<.030	.26	.03
MAY													
24...	13.1	1.91	76.1	63	160	E.1	11.7	23.1	405	366	.060	.40	.07
AUG													
15...	10.1	1.69	33.2	46	83.9	<.2	9.1	15.2	262	216	.100	.45	.18

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV													
14...	.25	.925	<.003	1.2	1.2	.068	.083	.096	.6	<.1	3.7	.6	2.7
FEB													
14...	.32	1.74	.003	2.0	2.1	.106	.020	.044	1.1	<.1	2.8	1.1	E1.7
MAY													
24...	.52	1.00	.025	1.4	1.5	.076	.064	.088	.6	<.1	4.1	.6	E1.4
AUG													
15...	.54	1.35	.037	1.8	1.9	.099	.062	.092	1.1	<.1	5.4	1.1	3.9

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV			
14...	--	94	3
FEB			
14...	--	67	3
MAY			
24...	10.7	70	2
AUG			
15...	14.6	79	5

E Estimated value.
< Actual value is known to be less than the value shown.

01393960 WEST BRANCH RAHWAY RIVER AT NORTHFIELD AVENUE, AT WEST ORANGE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG 15...	1100	<2	25.4	<.06	70	E.03	M	4.0	260	2	45	<.01	1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 15...	<.4	<.05	8

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 14...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 14...	<.10	<.2	.48	<.10	.19	<.2	<.2	<.2	<.10	<.2	<.10	<.10	1.7

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 14...	<.2	<.20	<.10	<.10	.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 24...	1100	<.004	<.002	<.005	.009	<.010	E1.2	<.020	.006	<.018	<.003	E.011	.020

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01393960 WEST BRANCH RAHWAY RIVER AT NORTHFIELD AVENUE, AT WEST ORANGE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
24...	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.002	<.007	<.003	.014	.054

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
24...	E.011	<.016	<.034	<.005	E.003

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
02...	1105	>24000	5700	6800
11...	1100	70	200	10
18...	1100	16000	39000	2400
25...	1100	2400	1100	430
AUG				
02...	1125	790	600	710

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01394500 RAHWAY RIVER NEAR SPRINGFIELD

LOCATION.--Lat 40°41'11", long 74°18'44", Union County, Hydrologic Unit 02030104, downstream from bridge on eastbound U.S. Highway 22, 100 ft downstream from Pope Brook, and 1.5 mi south of Springfield.

DRAINAGE AREA.--25.5 mi^2.

PERIOD OF RECORD.--Water years 1978 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
08...	1100	E10	--	.060	.047	762	62	7.2	7.6	650	--	8.8	220
FEB													
01...	1100	52	--	.145	.111	763	89	11.8	7.5	712	3.5	3.5	120
MAY													
09...	1045	13	3.6	.070	.054	767	58	5.9	7.6	743	22.0	14.5	220
AUG													
16...	1045	9.8	4.4	.085	.062	764	57	5.1	7.6	617	25.0	21.0	200

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
08...	67.2	13.5	2.12	37.8	138	91.5	.2	16.6	37.5	366	355	.050	.20
FEB													
01...	34.7	7.96	2.27	83.7	59	158	<.2	11.4	21.7	379	362	.070	.27
MAY													
09...	67.1	13.7	2.23	53.6	127	127	E.1	15.0	35.0	454	396	.150	.79
AUG													
16...	60.0	12.3	2.35	38.7	121	93.8	<.2	15.4	33.7	364	334	.080	.32

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
08...	.07	.23	1.35	.010	1.6	1.6	.068	.025	.048	.4	<.1	2.1	.4
FEB													
01...	.08	.53	1.59	.012	1.9	2.1	.063	.034	.063	.7	<.1	4.5	.7
MAY													
09...	.19	.52	1.29	.053	2.1	1.8	.121	.041	.083	.8	<.1	2.5	.8
AUG													
16...	.05	.37	1.17	.025	1.5	1.5	.075	.071	.116	.6	<.1	3.0	.6

E Estimated value.
< Actual value is known to be less than the value shown.

01394500 RAHWAY RIVER NEAR SPRINGFIELD--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
08...	<1.0	--	77	7
FEB				
01...	E1.0	--	50	1
MAY				
09...	E1.2	8.90	81	<1
AUG				
16...	<1.0	7.30	78	2

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN				
19...	0955	9200	3000	1600
26...	1000	2400	1800	280
JUL				
02...	0920	>24000	53000	8800
10...	1025	330	100	120

E Estimated value.
> Actual value is known to be greater than the value shown.

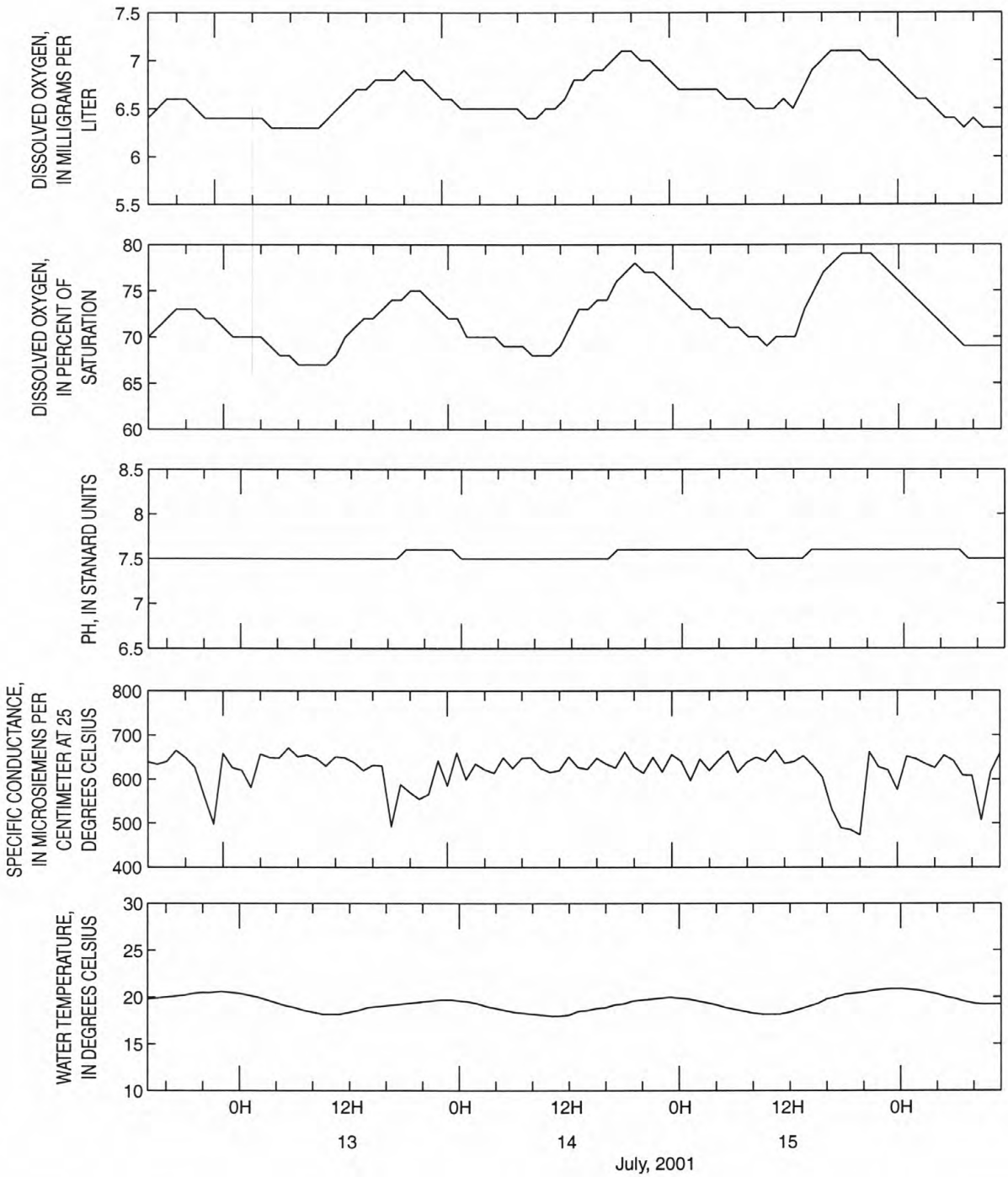


Figure 40. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01394500 Rahway River near Springfield, water year 2001.

01395000 RAHWAY RIVER AT RAHWAY, NJ

LOCATION.--Lat 40°37'08", long 74°17'01", revised, Union County, Hydrologic Unit 02030104, at St. Georges Avenue bridge in Rahway and 0.9 mi upstream from Robinsons Branch.

DRAINAGE AREA.--40.9 mi^2.

PERIOD OF RECORD.--Water years 1923-24, 1952, 1962, 1967-70, 1979 to current year.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory. Analyses of the split and concurrent replicate samples were performed by the Laboratory Branch of the U.S. Environmental Protection Agency, Region II, Division of Environmental Science and Assessment.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
DEC												
12...	0800	ENVIRONMENTAL	13	--	.061	.046	748	69	8.6	7.9	592	7.0
12...	*0800*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
12...	*0801*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	--	--	--	--
FEB												
28...	0800	ENVIRONMENTAL	39	--	.116	.086	760	84	10.7	7.4	1110	--
JUN												
12...	0800	ENVIRONMENTAL	19	5.4	.084	.061	755	72	6.5	7.7	657	21.0
12...	*0830*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
12...	*0831*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	--	--	--	--
AUG												
21...	0800	ENVIRONMENTAL	10	5.1	.119	.087	762	74	6.3	7.8	479	22.5
21...	*0800*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
21...	*0801*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	--	--	--	--

DATE	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
DEC													
12...	5.0	210	64.4	11.6	1.96	30.4	136	69.1	E.1	17.9	44.3	341	329
12...	--	*200*	*61.0*	*12.0*	*2.20*	*30.0*	*140*	*67.0*	*.2*	--	*60.0*	*360*	*321*
12...	--	*200*	*61.0*	*12.0*	*2.20*	*30.0*	*140*	*70.0*	*.2*	--	*54.0*	*350*	*318*
FEB													
28...	5.0	160	47.5	8.94	2.07	137	77	241	<.2	10	29.1	566	527
JUN													
12...	20.0	210	64.1	12.5	2.25	42.6	129	97.6	E.1	16.5	38.8	378	357
12...	--	*200*	*61.0*	*12.0*	*2.40*	*42.0*	*120*	*99.0*	*.2*	--	*42.0*	*410*	*335*
12...	--	*200*	*61.0*	*12.0*	*2.40*	*42.0*	*120*	*100*	*.2*	--	*42.0*	*420*	*336*
AUG													
21...	23.5	170	51.2	9.00	2.11	26.8	111	60.6	<.2	11.6	36.1	279	268
21...	--	*160*	*51.0*	*9.10*	*2.40*	*29.0*	*100*	*58.0*	*.3*	--	*35.0*	*300*	*248*
21...	--	*160*	*51.0*	*9.10*	*2.40*	*29.0*	*110*	*58.0*	*.3*	--	*35.0*	*310*	*254*

E Estimated value.
< Actual value is known to be less than the value shown.

01395000 RAHWAY RIVER AT RAHWAY, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
DEC													
12...	.120	.34	.16	.39	1.53	.007	1.9	1.9	.040	.033	--	--	.074
12...	*.130*	*.18*	*.12*	*.23*	*1.10*	*<.050*	*1.3*	*1.3*	*--*	*<.030*	*--*	*--*	*.070*
12...	*.130*	*.26*	*.13*	*.71*	*1.00*	*<.050*	*1.3*	*1.7*	*--*	*.030*	*--*	*--*	*.070*
FEB													
28...	.030	.22	<.03	.35	1.26	.011	1.5	1.6	.070	.019	--	--	.054
JUN													
12...	.040	.26	.03	.49	1.12	.026	1.4	1.6	.157	.046	.050	.030	.104
12...	*.080*	*<1.0*	*.08*	*.53*	*1.00*	*.032*	*--*	*1.5*	*--*	*.040*	*.062*	*.049*	*.090*
12...	*.084*	*.41*	*.09*	*.54*	*1.00*	*.032*	*1.4*	*1.5*	*--*	*.030*	*.036*	*.055*	*.080*
AUG													
21...	<.030	.37	<.03	.43	.786	.007	1.2	1.2	.119	.062	.050	.060	.104
21...	*.061*	*.44*	*.05*	*.62*	*.590*	*<.050*	*1.0*	*1.2*	*--*	*.035*	*.032*	*.030*	*.075*
21...	*.053*	*.20*	*.06*	*.54*	*.580*	*<.050*	*.78*	*1.1*	*--*	*.057*	*.032*	*.033*	*.074*

DATE	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
DEC								
12...	.4	<.1	2.3	.4	E1.8	--	81	<1
12...	*--*	*--*	*1.5*	*--*	*--*	*--*	*85*	*<10*
12...	*--*	*--*	*1.6*	*--*	*--*	*--*	*85*	*<10*
FEB								
28...	.7	<.1	3.5	.7	E1.2	--	46	16
JUN								
12...	1.1	<.1	2.8	1.1	E1.7	27.7	89	18
12...	*--*	*--*	*3.0*	*--*	*--*	*--*	*83*	*<10*
12...	*--*	*--*	*2.4*	*--*	*--*	*--*	*83*	*<10*
AUG								
21...	.7	<.1	4.3	.7	2.8	15.8	76	11
21...	*--*	*--*	*3.4*	*--*	*--*	*--*	*90*	*9*
21...	*--*	*--*	*3.8*	*--*	*--*	*--*	*89*	*7*

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
12...	1016	16000	25000	820	02...	0945	>24000	9000	4700
19...	1030	790	1000	240	10...	0958	2200	1500	240
26...	1030	490	100	230					

E Estimated value.
> Actual value is known to be greater than the value shown.
< Actual value is known to be less than the value shown.

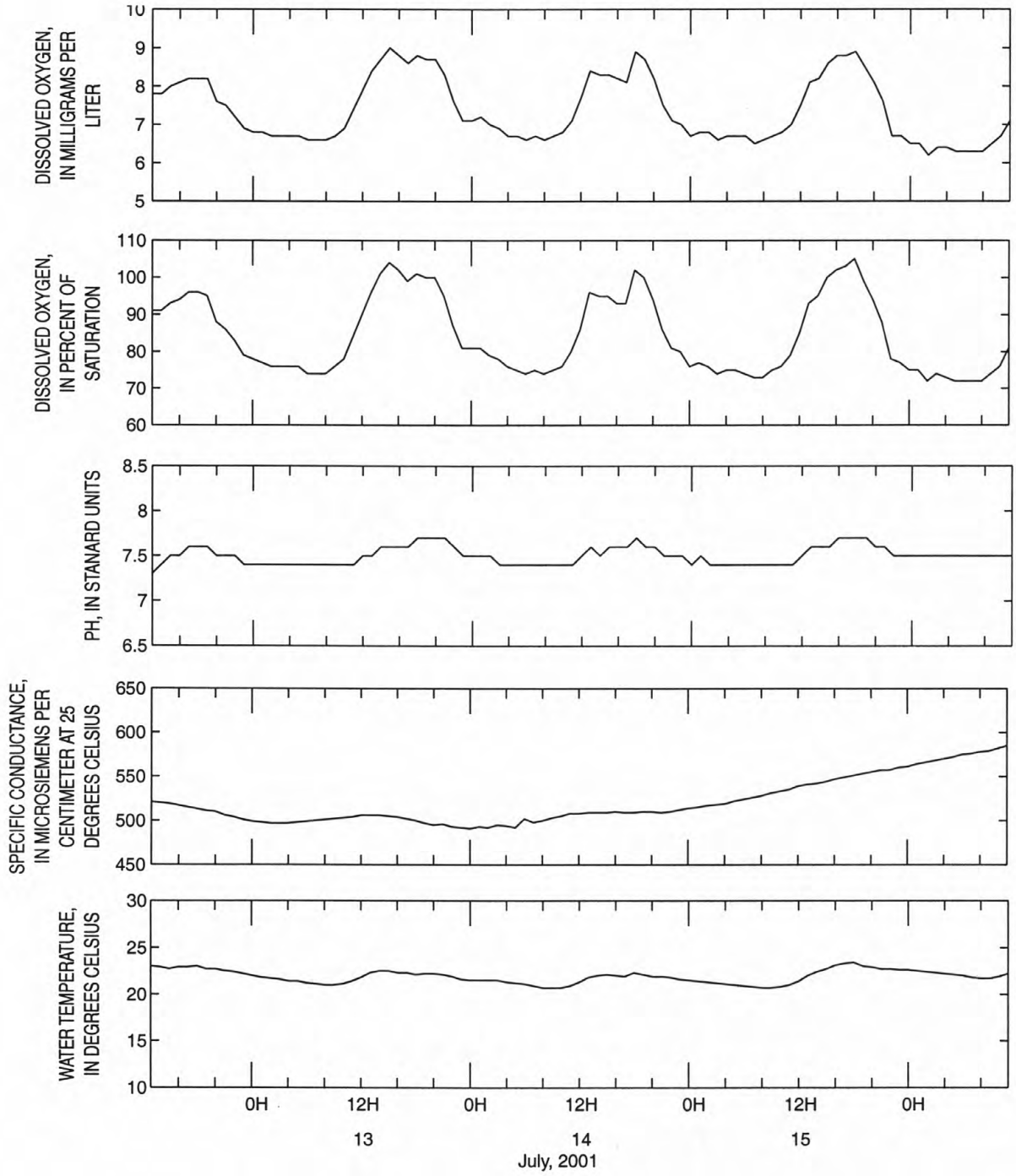


Figure 41. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01395000 Rahway River at Rahway, water year 2001.

01396030 SOUTH BRANCH RAHWAY RIVER AT COLONIA, NJ

LOCATION.--Lat 40°34'57", long 74°18'04", Middlesex County, Hydrologic Unit 02030104, at bridge on Dover Street in Colonia at intersection of Dover Street and Maplewood Avenue, 1.9 mi upstream of mouth, and 2.2 mi southwest at Rahway.

DRAINAGE AREA.--9.31 mi^2.

PERIOD OF RECORD.--December 2000 to August 2001.

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory. Analysis of the split and concurrent replicate samples was performed by the Laboratory Branch of the U.S. Environmental Protection Agency, Region II, Division of Environmental Science and Assessment.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)
DEC												
12...	1000	ENVIRONMENTAL	--	.069	.052	753	97	11.5	8.0	649	9.0	7.5
12...	*1000*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
12...	*1001*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	--	--	--	--
FEB												
06...	0930	ENVIRONMENTAL	--	.143	.108	762	97	12.9	7.4	7450	8.5	2.5
JUN												
12...	0930	ENVIRONMENTAL	14	.261	.183	760	74	6.7	7.5	406	26.0	20.0
12...	*0930*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
12...	*0931*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	--	--	--	--
AUG												
21...	1030	ENVIRONMENTAL	3.5	.101	.071	763	95	8.3	8.0	619	--	22.0
21...	*1030*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
21...	*1031*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	--	--	--	--

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
DEC													
12...	220	65.8	13.9	2.56	35.8	139	97.2	E.1	14.1	33.2	373	351	.060
12...	*210*	*62.0*	*14.0*	*2.80*	*37.0*	*140*	*96.0*	*.2*	*--*	*38.0*	*380*	*338*	*<.050*
12...	*210*	*62.0*	*14.0*	*2.80*	*37.0*	*140*	*97.0*	*.1*	*--*	*37.0*	*390*	*338*	*<.050*
FEB													
06...	280	86.9	16.0	6.07	1360	61	2230	<.2	8.7	46.6	4190	3800	.220
JUN													
12...	98	29.1	6.28	2.75	37.6	63	68.7	E.1	8.1	20.8	240	216	.280
12...	*94*	*28.0*	*5.90*	*3.00*	*37.0*	*62*	*73.0*	*.3*	*--*	*21.0*	*270*	*210*	*.330*
12...	*95*	*28.0*	*6.00*	*2.90*	*37.0*	*61*	*72.0*	*.2*	*--*	*21.0*	*280*	*209*	*.330*
AUG													
21...	200	57.8	12.6	2.72	39.6	131	92.2	E.1	11.1	39.0	343	337	<.030
21...	*200*	*58.0*	*13.0*	*3.20*	*44.0*	*120*	*87.0*	*.2*	*--*	*39.0*	*370*	*319*	*.034*
21...	*190*	*57.0*	*12.0*	*3.00*	*44.0*	*120*	*86.0*	*.2*	*--*	*37.0*	*380*	*314*	*.040*

DATE	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN,PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)
DEC													
12...	.18	.06	.22	1.25	.006	1.4	1.5	.040	.025	--	--	.052	.4
12...	*.12*	*<.05*	*.17*	*.880*	*<.050*	*1.0*	*1.1*	*--*	*<.030*	*--*	*--*	*.050*	*--*
12...	*.10*	*<.05*	*.25*	*.980*	*<.050*	*1.1*	*1.2*	*--*	*<.030*	*--*	*--*	*.050*	*--*
FEB													
06...	.65	.23	.78	1.40	<.003	2.1	2.2	.112	.024	--	--	.062	1.7
JUN													
12...	1.0	.29	1.2	1.07	.068	2.1	2.3	.249	.100	.070	.040	.178	1.6
12...	*1.3*	*.34*	*1.5*	*1.00*	*.073*	*2.3*	*2.5*	*--*	*.080*	*.029*	*.036*	*.140*	*--*
12...	*1.4*	*.35*	*1.7*	*.990*	*.071*	*2.4*	*2.7*	*--*	*.080*	*.026*	*.046*	*.150*	*--*
AUG													
21...	.26	<.03	.30	.791	.005	1.0	1.1	.091	.046	.030	.040	.067	.5
21...	*.35*	*.05*	*.49*	*.640*	*<.050*	*.99*	*1.1*	*--*	*.036*	*.030*	*.029*	*.043*	*--*
21...	*--*	*.03*	*.32*	*.580*	*<.050*		*.90*	*--*	*.031*	*.030*	*.029*	*.035*	*--*

E Estimated value.
< Actual value is known to be less than the value shown.

01396030 SOUTH BRANCH RAHWAY RIVER AT COLONIA, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
DEC							
12...	<.1	2.7	.4	E1.6	--	74	<1
12...	--	*1.7*	--	--	--	*76*	*<10*
12...	--	*2.0*	--	--	--	*76*	*<10*
FEB							
06...	<.1	4.9	1.7	4.4	--	86	15
JUN							
12...	<.1	10	1.6	5.9	11.3	75	9
12...	--	*10*	--	--	--	*69*	*<10*
12...	--	*10*	--	--	--	*70*	*<10*
AUG							
21...	<.1	4.1	.5	E1.1	8.10	110	4
21...	--	*3.6*	--	--	--	*140*	*4*
21...	--	*3.0*	--	--	--	*120*	*3*

DATE	TIME	SAMPLE TYPE	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)
AUG												
21...	1030	ENVIRONMENTAL	--	--	--	--	--	--	<2	142	<.06	110
21...	1030	BED MATERIAL	7.70	200	2.4	440	2.6	<.2	--	--	--	--
21...	*1030*	*SPLIT REPLICATE*	--	--	--	--	--	--	*<2*	*160*	*<1.30*	*140*
21...	*1031*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	*<2*	*160*	*<1.30*	*120*

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)
AUG													
21...	.13	2	3.8	170	<1	34	<.01	3	<.4	<.05	6	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	<1	15
21...	*<1.00*	*<2*	*3.5*	*200*	*<2*	*37*	--	*<5*	*<1.8*	*<1.50*	*<8*	--	--
21...	*<1.00*	*<2*	*3.4*	*180*	*<2*	*37*	--	*<5*	*<1.8*	*<1.50*	*<8*	--	--

DATE	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MATERIAL AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)
AUG													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	12	5.2	28	8400	38	240	.01	.1	<1	130	100	M	E50
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)
AUG													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	E30	E50	E40	170	510	520	510	310	440	570	80	1100	360
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01396030 SOUTH BRANCH RAHWAY RIVER AT COLONIA, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHALENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)
AUG													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	<50	M	M	<50	E10	<50	M	E32	<50	E50	640	E20	E50
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG			
21...	--	--	--
21...	900	<1	1
21...	--	--	--
21...	--	--	--

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB													
06...	0930	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYLETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB													
06...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	3.2

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB									
06...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
JUN													
12...	0930	<.004	<.002	<.005	.083	<.010	E.061	<.020	.007	<.018	E.001	E.028	.604

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
JUN													
12...	<.005	<.002	<.004	<.035	.043	E.013	.042	<.006	<.002	<.007	<.003	.047	.721

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
JUN					
12...	E.008	<.016	<.034	<.005	E.009

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01...	1110	2400	1000	490	15...	1105	3500	400	870
08...	1040	790	1200	320	22...	1020	5400	1700	240
					29...	1140	9200	4200	990

E Estimated value.
< Actual value is known to be less than the value shown.

01396550 SPRUCE RUN AT NEWPORT, NJ

LOCATION.--Lat 40°43'29", long 74°54'34", Hunterdon County, Hydrologic Unit 02030105, at bridge on Newport Road, 1.2 mi northwest of Woodglen, and 6.4 mi upstream from Spruce Run Reservoir.

DRAINAGE AREA.--5.67 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Background and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
NOV												
02...	1040	ENVIRONMENTAL	1.9	--	.065	.051	746	102	12.1	7.8	149	--
FEB												
08...	0910	ENVIRONMENTAL	9.5	--	.063	.049	756	97	14.0	6.7	143	5.5
MAY												
07...	1100	ENVIRONMENTAL	3.8	1.6	.066	.051	760	104	10.9	7.6	145	15.0
AUG												
09...	0900	ENVIRONMENTAL	1.3	1.1	.074	.057	745	95	8.2	7.4	149	27.5

DATE	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
NOV													
02...	7.0	53	12.4	5.37	1.13	7.1	41	9.9	E.1	18.9	12.8	98	93
FEB													
08...	.00	39	9.10	3.90	.83	8.9	23	17.5	<.2	14.8	12.5	93	85
MAY													
07...	13.0	47	11.0	4.62	.86	7.2	33	12.3	<.2	13.9	12.9	83	86
AUG													
09...	21.5	51	12.0	5.18	1.05	7.3	39	10.4	E.1	14.6	11.6	105	87

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)
NOV													
02...	.080	E.09	.08	.21	.199	<.003	--	.41	.065	E.003	.004	.1	<.1
FEB													
08...	<.030	.16	.03	.15	.879	<.003	1.0	1.0	.048	.006	.008	.3	<.1
MAY													
07...	<.030	.14	<.03	.18	.672	<.003	.81	.85	.068	E.003	.008	E.7	<.1
AUG													
09...	.030	.13	.04	.15	.289	<.003	.42	.44	<.022	.008	.013	.2	<.1

E Estimated value.
< Actual value is known to be less than the value shown.

01396550 SPRUCE RUN AT NEWPORT, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV 02...	2.0	.1	E1.4	--	<13	2
FEB 08...	2.0	.3	2.4	--	<13	<1
MAY 07...	1.9	E.7	E2.0	3.00	E8	6
AUG 09...	2.0	.2	2.2	1.60	<13	3

DATE	TIME	SAMPLE TYPE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
AUG 09...	*0830*	*FIELD BLANK*	--	--	--	--	--	--	*<.2*	--	--	*<.08*
09...	0900	ENVIRONMENTAL	<2	17.6	<.06	7	<.04	<1	--	1.2	110	--

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 09...	--	--	*<.01*	--	*<.06*	--	--	--	*<1*	--
09...	<1	7	--	<.01	--	<1	.4	<.05	--	2

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 08...	0910	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 08...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 08...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

< Actual value is known to be less than the value shown.

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY													
07...	1100	<.004	<.002	<.005	E.007	<.010	<.041	<.020	<.005	<.018	<.003	E.011	<.005

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
07...	<.005	<.002	<.004	<.035	<.027	<.050	E.002	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
07...	<.011	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
12...	0930	<20	<100	20	02...	0900	20	<100	110
19...	0830	230	300	310	09...	0800	40	100	180
26...	0930	<20	100	210					

E Estimated value.
< Actual value is known to be less than the value shown.

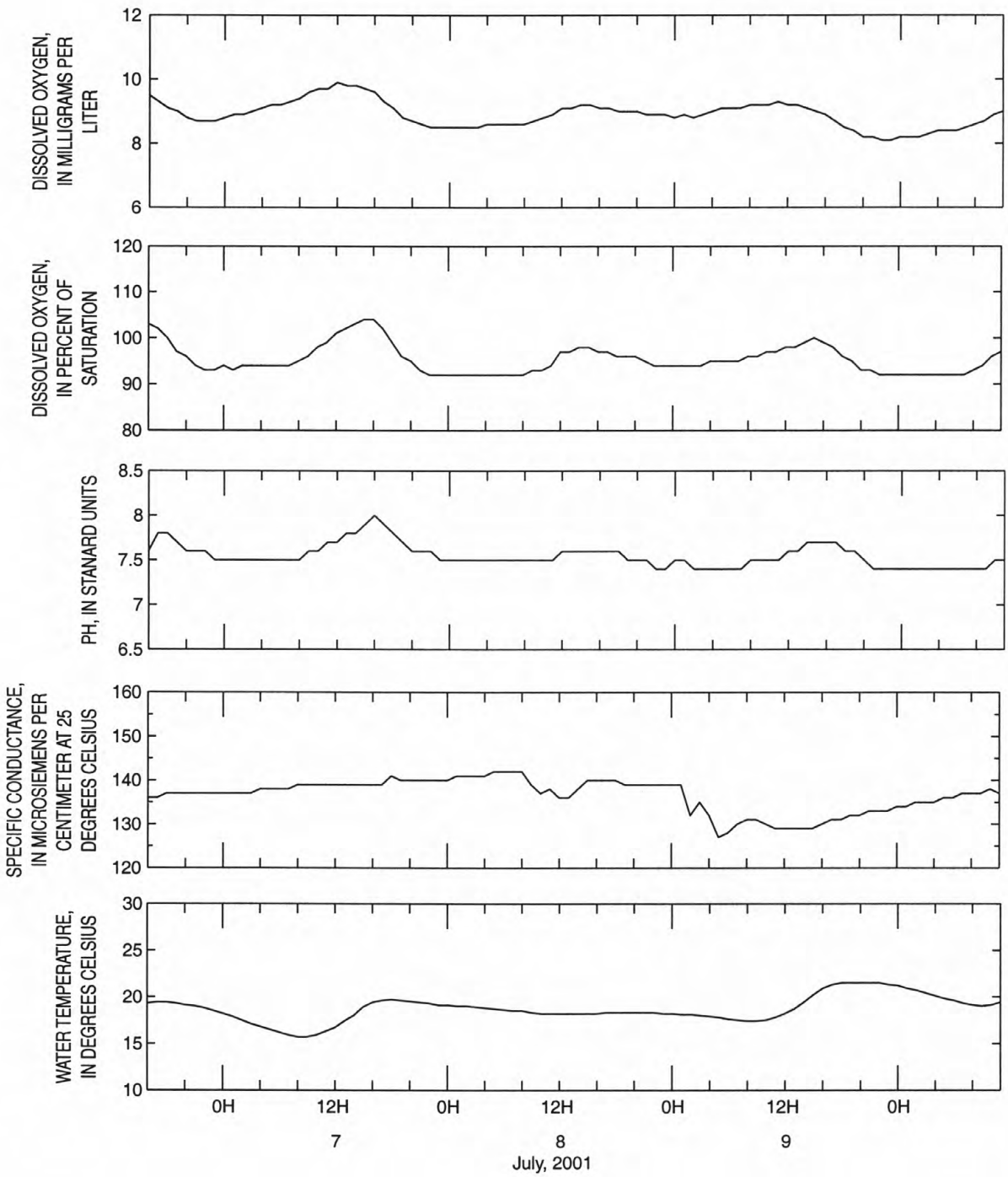


Figure 42. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01396550 Spruce Run at Newport, water year 2001.

01396660 MULHOCKAWAY CREEK AT VAN SYCKEL, NJ

LOCATION.--Lat 40°38'51", long 74°58'09", Hunterdon County, Hydrologic Unit 02030105, at bridge on Jutland Road, 0.2 mi south of Van Syckel, and 0.3 mi upstream from Spruce Run Reservoir, 0.8 mi north of Perryville.

DRAINAGE AREA.--11.8 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 1997 to August 1998.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
15...	1100	8.0	--	.074	.058	752	96	11.4	7.8	227	--	7.5	83
FEB													
14...	1120	19	--	.049	.038	758	96	12.9	7.6	316	4.0	3.0	75
MAY													
31...	1030	11	1.7	.059	.044	755	95	10.0	7.8	250	16.0	12.5	79
AUG													
22...	1100	6.2	.9	.040	.030	758	102	9.4	8.0	258	27.0	19.0	92

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
15...	21.0	7.31	1.73	10.9	66	19.6	E.1	15.4	13.7	138	132	<.030	.14
FEB													
14...	19.5	6.43	1.42	27.6	46	52.3	<.2	12.2	14.9	173	166	<.030	.10
MAY													
31...	20.5	6.85	1.08	16.1	57	30.1	<.2	14.6	13.6	161	141	<.030	.13
AUG													
22...	23.2	8.32	1.35	11.8	75	24.2	E.1	14.6	12.7	155	145	<.030	.20

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
15...	<.03	.11	.565	<.003	.71	.67	.034	.009	.010	.3	<.1	2.5	.3
FEB													
14...	.07	.13	.990	<.003	1.1	1.1	.028	.007	.013	.3	<.1	1.7	.3
MAY													
31...	<.03	.12	.925	E.003	1.1	1.0	.026	.016	.022	.3	<.1	1.8	.3
AUG													
22...	<.03	.10	.860	<.003	1.1	.96	.044	.015	.018	.4	<.1	1.4	.4

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV				
15...	E2.2	--	E10	7
FEB				
14...	<1.0	--	14	<1
MAY				
31...	E1.4	.700	E8	3
AUG				
22...	<1.0	4.80	E12	8

E Estimated value.
< Actual value is known to be less than the value shown.

01396660 MULHOCKAWAY CREEK AT VAN SYCKEL, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
12...	0900	<20	<100	<10	02...	0825	<20	<100	<10
19...	0900	700	600	460	09...	0820	130	300	90
26...	0900	<20	<100	220					

< Actual value is known to be less than the value shown.

01396900 CAPOOLONG CREEK AT LANSDOWNE, NJ

LOCATION.--Lat 40°36'28", long 74°54'58", Hunterdon County, Hydrologic Unit 02030105, at bridge on Lower Lansdowne Road, 0.5 mi west of Lansdowne, 0.4 mi above mouth, and 2.0 mi south of Clinton.

DRAINAGE AREA.--14.1 mi^2.

PERIOD OF RECORD.--May 1959 to October 1964 and December 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
DEC													
13...	1030	--	.024	.019	774	95	13.9	7.6	206	1.0	.5	70	16.7
FEB													
22...	0930	--	.025	.019	770	101	14.1	7.8	179	-2.5	2.0	55	13.3
MAY													
22...	1030	28	.134	.105	751	90	9.2	7.6	160	17.0	13.5	52	12.9
AUG													
15...	1000	1.7	.060	.046	757	100	9.1	7.7	185	25.0	19.5	62	15.0

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
DEC													
13...	6.75	1.45	9.4	53	12.8	<.2	13.6	14.0	120	119	<.030	E.06	.07
FEB													
22...	5.30	1.44	10.1	33	14.4	<.2	14.3	15.1	114	107	<.030	E.06	.03
MAY													
22...	4.81	1.95	8.8	39	12.0	<.2	11.3	11.3	111	95	.040	.35	.07
AUG													
15...	5.92	2.07	9.4	48	12.5	<.2	15.2	12.7	115	110	<.030	.15	<.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
DEC													
13...	E.07	2.93	<.003	--	--	<.022	.014	.014	.1	<.1	.91	.1	<1.0
FEB													
22...	.09	2.94	<.003	--	3.0	<.022	.013	.018	.2	<.1	.95	.2	<1.0
MAY													
22...	.58	1.81	.011	2.2	2.4	.202	.050	.113	1.8	<.1	4.3	1.7	3.5
AUG													
15...	.19	1.98	<.003	2.1	2.2	<.022	.037	.041	.2	<.1	1.8	.2	<1.0

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
DEC			
13...	--	17	3
FEB			
22...	--	14	4
MAY			
22...	11.5	E11	24
AUG			
15...	1.90	E13	<1

E Estimated value.
< Actual value is known to be less than the value shown.

01396900 CAPOOLONG CREEK AT LANSDOWNE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG 15...	1000	<2	58.2	<.06	17	<.04	<1	1.1	70	<1	11	<.01	<1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 15...	E.3	<.05	3

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 22...	0930	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 22...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 22...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 22...	1030	.008	<.002	<.005	.030	<.010	E.007	<.020	<.005	<.018	<.003	E.013	.018

E Estimated value.
< Actual value is known to be less than the value shown.

01396900 CAPOOLONG CREEK AT LANSDOWNE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
22...	<.005	<.002	<.004	<.035	<.027	<.050	E.010	<.006	<.002	E.002	<.003	<.010	E.004

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
22...	E.003	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
12...	1015	<20	<100	<10
19...	1000	<20	<100	10
26...	1000	<20	<100	400
AUG				
02...	0950	20	<100	70
09...	0843	1300	600	580

E Estimated value.
< Actual value is known to be less than the value shown.

01397950 THIRD NESHANIC RIVER AT COPPER HILL, NJ

LOCATION.--Lat 40°28'29", long 74°51'48", Hunterdon County, Hydrologic Unit 02030105, at bridge on State Route 31 at Copper Hill, 0.6 mi upstream of mouth, 2.3 mi south of Flemington, and 2.5 mi west of Reaville.

DRAINAGE AREA.--10.3 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV 15...	0930	--	.107	.086	758	81	10.0	7.7	300	--	6.0	120	29.0
MAR 01...	0900	--	.051	.038	758	108	15.2	7.8	235	-1.0	1.0	80	19.6
MAY 16...	0930	5.2	.076	.060	760	66	6.9	7.5	299	16.1	13.5	120	30.6
AUG 30...	0900	14	.077	.060	762	58	5.4	7.5	399	--	19.0	170	45.4

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV 15...	10.7	2.60	11.3	89	13.8	E.1	8.9	36.2	179	169	<.030	.24	.42
MAR 01...	7.45	1.43	11.8	39	17.6	<.2	11.9	26.6	136	134	<.030	.22	.03
MAY 16...	9.93	1.67	13.0	72	12.6	E.1	12.0	46.9	200	176	.030	.40	.04
AUG 30...	13.1	2.07	14.3	94	14.5	<.2	3.9	80.8	247	230	.060	.27	.09

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV 15...	.33	.654	<.003	.89	.98	<.022	.017	.023	.3	<.1	3.4	.3	3.0
MAR 01...	.21	3.25	<.003	3.5	3.5	.064	.037	.039	.6	<.1	1.7	.6	E1.4
MAY 16...	.48	1.41	.057	1.8	1.9	.063	.047	.064	.5	<.1	2.7	.5	2.1
AUG 30...	.31	E.617	.006	--	--	.080	.016	.038	.5	<.1	2.4	.5	<1.0

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 15...	--	42	2
MAR 01...	--	21	8
MAY 16...	3.30	54	<1
AUG 30...	4.50	115	3

E Estimated value.
< Actual value is known to be less than the value shown.

01397950 THIRD NESHANIC RIVER AT COPPER HILL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG 30...	0900	E2	69.8	<.06	103	E.03	2	2.1	250	<1	78	<.01	1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 30...	<.4	<.05	7

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
MAR 01...	0900	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
MAR 01...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
MAR 01...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 16...	0930	<.004	<.002	<.005	.021	<.010	<.041	<.020	<.005	<.018	<.003	E.019	<.005

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
16...	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
16...	<.011	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
12...	1140	<20	<100	<10
19...	1035	20	<100	20
26...	1045	<20	<100	5000
AUG				
02...	1035	<20	<100	<10
09...	0955	170	<100	230

E Estimated value.
< Actual value is known to be less than the value shown.

01398000 NESHANIC RIVER AT REAVILLE, NJ

LOCATION.--Lat 40°28'22", long 74°49'40", Hunterdon County, Hydrologic Unit 02030105, at bridge on Everitts Road, 0.6 mi southwest of Reaville, 1.5 mi downstream from Third Neshanic River, and 2.2 mi upstream from Back Brook.

DRAINAGE AREA.--25.7 mi^2.

PERIOD OF RECORD.--Water years 1957, 1962, 1979 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1997 to August 1998.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
21...	1000	3.3	--	.061	.049	759	80	11.2	7.9	350	--	1.5	140
FEB													
07...	1000	8.1	--	.133	.104	768	102	14.2	7.9	485	3.8	2.0	93
MAY													
15...	1000	3.1	3.6	.094	.073	758	82	8.3	7.7	336	18.0	14.5	120
AUG													
22...	1000	3.5	2.2	.076	.058	764	103	9.2	8.5	310	24.0	21.0	120

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
21...	34.3	12.1	1.88	15.0	97	20.0	<.2	8.2	42.6	210	196	<.030	.19
FEB													
07...	24.3	7.81	2.16	50.4	37	101	<.2	9.1	20.9	268	247	.030	.22
MAY													
15...	31.5	10.6	2.12	17.8	82	23.3	E.1	10.1	41.8	206	190	.040	.47
AUG													
22...	29.9	10.6	2.33	14.8	83	19.0	E.1	2.3	42.4	175	173	<.030	.29

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
21...	.07	.21	.920	<.003	1.1	1.1	<.022	<.050	<.060	.2	<.1	2.2	.2
FEB													
07...	.03	.33	1.95	<.003	2.2	2.3	.091	E.041	E.049	.5	<.1	3.8	.5
MAY													
15...	.07	.49	.752	.052	1.2	1.2	.032	E.044	.062	.4	M	2.9	E.4
AUG													
22...	<.03	.29	.422	.004	.72	.71	.072	<.050	<.060	.3	<.1	3.1	.3

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
21...	E1.7	--	54	<1
FEB				
07...	E2.0	--	17	8
MAY				
15...	3.0	3.20	56	3
AUG				
22...	E1.6	8.60	60	9

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01398000 NESHANIC RIVER AT REAVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
12...	1100	<20	<100	<10	02...	1100	<20	<100	<10
19...	1100	20	<100	10	09...	0915	110	<100	150
26...	1100	<20	<100	430					

< Actual value is known to be less than the value shown.

01398102 SOUTH BRANCH RARITAN RIVER AT SOUTH BRANCH, NJ

LOCATION.--Lat 40°32'48", long 74°41'48", Somerset County, Hydrologic Unit 02030105, at bridge on Studdiford Drive at South Branch, 0.8 mi upstream from mouth, and 2.7 mi southeast of Readington.

DRAINAGE AREA.--265 mi^2.

PERIOD OF RECORD.--Water years 1976-83, 1998 to current year.

REMARKS.--Physical parameters measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.-- Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 13...	1315	112	--	.104	.082	762	103	11.5	7.9	296	13.0	10.5	100
FEB 15...	1110	524	--	.056	.043	758	98	12.5	7.5	306	7.0	5.0	83
MAY 21...	1200	153	9.4	.058	.044	762	85	8.3	7.9	321	14.5	16.5	110
AUG 28...	1130	63	3.9	.060	.044	757	125	10.5	7.8	270	25.0	23.5	89

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 13...	24.0	9.97	2.75	16.3	75	28.4	E.1	6.5	21.3	162	160	<.030	.35
FEB 15...	20.5	7.69	1.75	21.6	50	40.7	<.2	9.5	20.5	170	162	.220	.17
MAY 21...	25.9	10.4	2.05	19.5	78	33.4	E.1	8.2	20.8	184	174	.070	.30
AUG 28...	21.5	8.67	2.09	16.1	66	32.0	E.1	4.9	16.3	154	141	<.030	.28

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV 13...	.03	.35	1.24	.004	1.6	1.6	.040	.074	.086	.3	<.1	3.8	.3
FEB 15...	.23	.18	2.28	.010	2.5	2.5	.082	.023	.035	.4	<.1	2.1	.4
MAY 21...	.06	.39	1.47	.030	1.8	1.9	.132	.078	.115	.8	<.1	2.7	.8
AUG 28...	<.03	.32	E.486	.004	--	--	.067	.051	.063	.5	<.1	2.6	.5

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 13...	2.3	--	40	5
FEB 15...	E1.1	--	22	8
MAY 21...	2.4	8.30	37	14
AUG 28...	E1.4	4.50	31	1

E Estimated value.
< Actual value is known to be less than the value shown.

01398102 SOUTH BRANCH RARITAN RIVER AT SOUTH BRANCH, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23...	0930	>24000	6200	4300	06...	0920	790	200	150
30...	1010	5400	300	400	13...	0905	310	300	90
					19...	0905	3500	1700	460

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

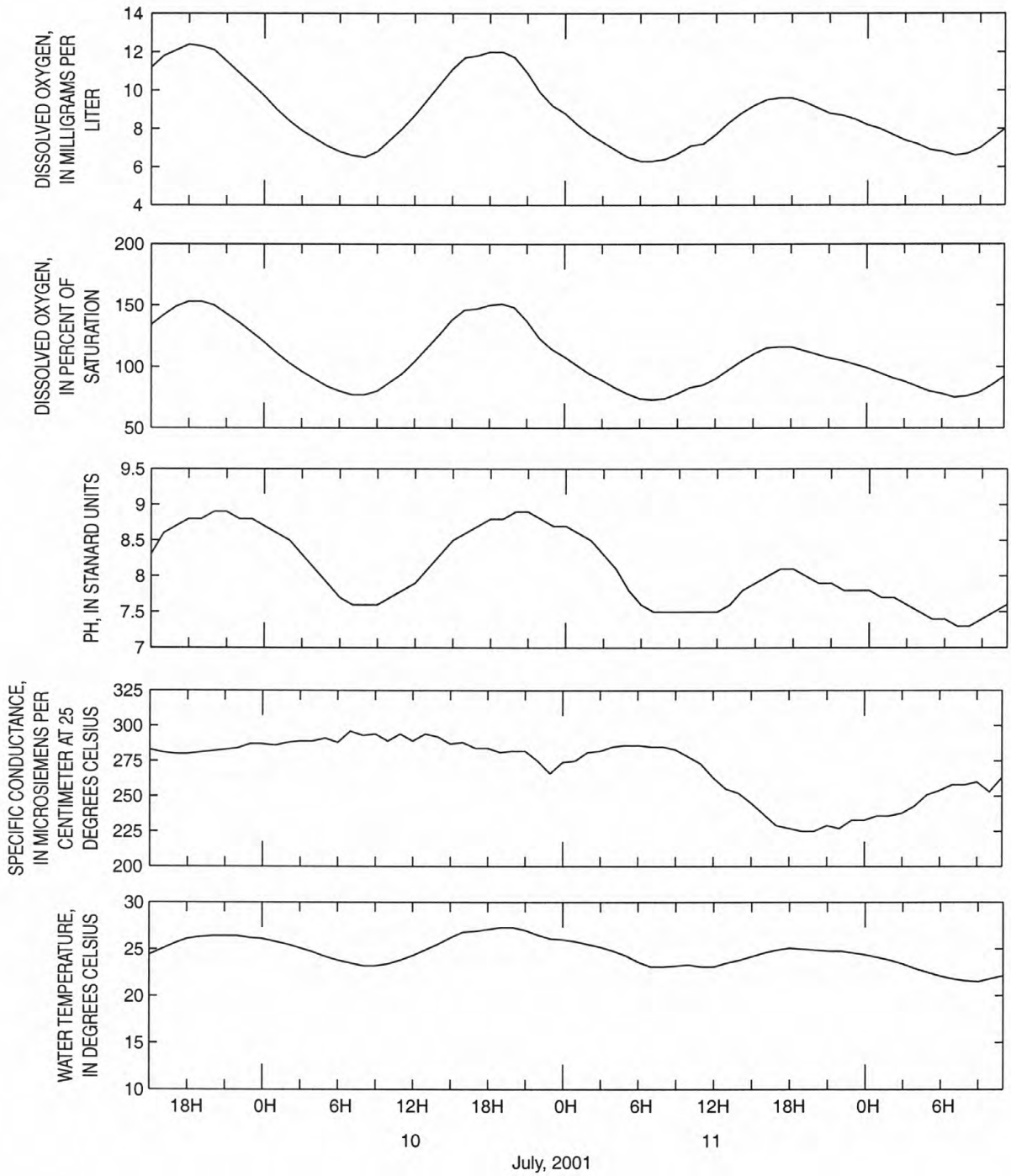


Figure 43. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01398102 South Branch Raritan River at South Branch, water year 2001.

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ

LOCATION.--Lat 40°38'04", long 74°41'13", Somerset County, Hydrologic Unit 02030105, at bridge on Burnt Mills Road in Burnt Mills, 1,400 ft upstream from mouth, and 2.4 mi southwest of Greater Cross Roads.

DRAINAGE AREA.--100 mi^2.

PERIOD OF RECORD.--Water years 1964, 1976 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
08...	1050	43	--	.078	.061	760	109	13.4	8.3	309	--	6.5	100
FEB													
08...	1220	195	--	.124	.097	772	103	14.6	7.8	331	4.0	1.5	77
MAY													
03...	1040	94	3.2	.110	.086	765	126	11.8	8.2	275	30.0	18.5	85
AUG													
14...	1420	279	34	.249	.195	757	169	14.1	7.9	192	29.5	24.0	61

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
08...	24.9	9.88	2.37	16.6	79	30.9	E.1	12.0	18.4	172	169	.050	.20
FEB													
08...	19.9	6.61	1.91	31.5	42	62.3	<.2	11.3	15.8	187	179	.030	.23
MAY													
03...	21.2	7.91	1.69	16.7	66	32.5	E.1	7.9	15.1	154	146	<.030	.26
AUG													
14...	15.3	5.45	2.63	12.2	45	19.9	E.1	11.5	12.4	108	110	<.030	.38

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
08...	.03	.24	1.38	<.003	1.6	1.6	.050	.145	.159	.3	<.1	2.5	.3
FEB													
08...	.04	.35	.916	.006	1.1	1.3	.065	.030	.049	.6	<.1	3.5	.6
MAY													
03...	<.03	.35	.804	.016	1.1	1.2	.074	.053	.067	E.5	<.1	2.9	E.5
AUG													
14...	<.03	.54	.755	.007	1.1	1.3	.170	.076	.133	1.3	<.1	5.7	1.3

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
08...	E1.2	--	49	8
FEB				
08...	E1.4	--	24	4
MAY				
03...	E1.3	7.30	36	5
AUG				
14...	E1.0	10.8	41	7

E Estimated value.
< Actual value is known to be less than the value shown.

RARITAN RIVER BASIN

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY				
23...	1010	5400	4100	6500
30...	1040	490	400	290
JUN				
06...	1010	330	400	170
13...	0950	230	200	140
19...	0940	490	800	230

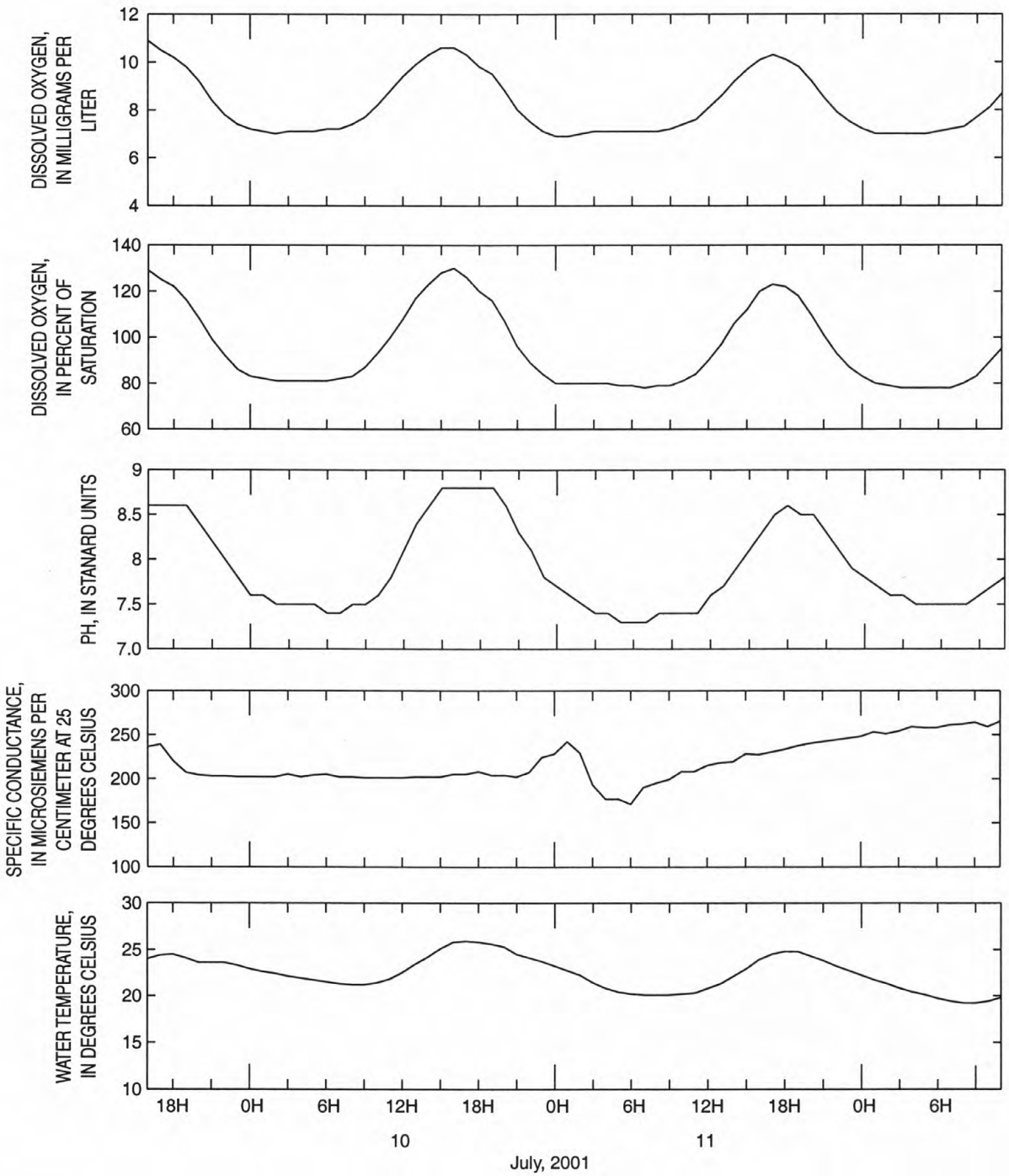


Figure 44. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01399780 Lamington River at Burnt Mills, water year 2001.

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ

LOCATION.--Lat 40°34'10", long 74°40'45", Somerset County, Hydrologic Unit 02030105, 400 ft upstream from U.S. Highway 202, 1.4 mi upstream from confluence with South Branch, and 2.7 mi west of Raritan.

DRAINAGE AREA.--190 mi^2.

PERIOD OF RECORD.--Water years 1923-25, 1960-76, 1978-80, 1997 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
15...	1030	145	--	.116	.092	760	100	11.9	7.8	304	--	7.5	97
FEB													
07...	1030	426	--	.144	.113	768	97	13.3	7.5	536	7.0	2.5	93
MAY													
30...	1030	274	13	.164	.127	759	101	9.8	7.8	265	17.0	16.5	78
AUG													
28...	1000	48	2.2	.087	.066	758	83	7.1	8.3	305	--	22.5	110

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
15...	24.1	8.82	2.76	17.6	69	33.7	E.1	12.4	20.9	177	166	<.030	.24
FEB													
07...	24.8	7.55	2.18	60.8	40	121	<.2	10.3	17.2	293	273	<.030	.22
MAY													
30...	19.6	7.13	1.53	19.5	52	34.3	E.1	13.1	14.3	163	144	.040	.32
AUG													
28...	26.2	9.82	2.17	19.6	76	37.3	<.2	8.0	20.6	186	173	.030	.32

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
15...	<.03	.34	1.10	.004	1.3	1.4	.048	.080	.092	.5	<.1	3.5	.5
FEB													
07...	<.03	.37	.986	.005	1.2	1.4	.041	E.033	E.046	.5	<.1	4.1	.5
MAY													
30...	.03	.39	.823	.009	1.1	1.2	.104	<.050	.076	.8	<.1	4.8	.8
AUG													
28...	<.03	.33	.858	.005	1.2	1.2	.060	.064	.065	.3	<.1	2.7	.3

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV				
15...	E1.5	--	60	6
FEB				
07...	E1.2	--	32	9
MAY				
30...	E1.5	3.00	45	10
AUG				
28...	2.2	4.70	57	1

E Estimated value.
< Actual value is known to be less than the value shown.

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23...	0950	9200	6100	5100	06...	0940	490	200	150
30...	1025	330	900	320	13...	0925	700	200	140
					19...	0920	1300	700	200

01400530 MILLSTONE RIVER AT BAIRD ROAD, NEAR PERRINEVILLE, NJ

LOCATION.--Lat 40°14'28", long 74°24'07", Monmouth County, Hydrologic Unit 02030105, at bridge on Baird Road, 1.2 mi south of Manalapan, 2.1 mi northeast of Perrineville Lake, and 2.2 mi northeast of Perrineville.

DRAINAGE AREA.--4.58 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)
NOV												
08...	1000	ENVIRONMENTAL	--	.086	.072	761	87	10.4	7.0	112	--	7.5
FEB												
08...	1030	ENVIRONMENTAL	--	.098	.082	772	90	12.4	6.6	130	3.0	2.5
MAY												
09...	1030	ENVIRONMENTAL	15	.101	.083	763	93	9.6	7.0	112	19.5	14.0
AUG												
15...	1030	ENVIRONMENTAL	28	.146	.122	759	87	7.7	7.0	122	26.0	21.0

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
NOV													
08...	28	5.46	3.57	2.37	6.9	14	13.2	E.1	9.8	7.7	64	63	.040
FEB													
08...	25	5.14	2.96	2.24	9.8	8	18.3	E.1	8.0	12.0	74	69	.090
MAY													
09...	29	5.62	3.72	2.18	7.4	13	14.4	E.1	8.1	8.1	75	64	.080
AUG													
15...	30	5.72	3.85	2.73	8.4	18	16.1	E.1	8.9	6.9	71	67	.050

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)
NOV													
08...	.17	.06	.21	1.14	<.003	1.3	1.4	.108	.008	.052	.8	<.1	1.7
FEB													
08...	.14	.09	.31	1.26	.007	1.4	1.6	.142	.005	.092	1.3	<.1	1.5
MAY													
09...	.27	.09	.40	1.60	.010	1.9	2.0	.101	.007	.081	1.2	<.1	1.9
AUG													
15...	.25	.11	.38	.862	.013	1.1	1.2	.100	.040	.184	1.1	<.1	2.7

E Estimated value.
< Actual value is known to be less than the value shown.

01400530 MILLSTONE RIVER AT BAIRD ROAD, NEAR PERRINEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV					
08...	.8	<1.0	--	E13	10
FEB					
08...	1.2	E1.8	--	E9	12
MAY					
09...	1.2	<1.0	5.40	E11	8
AUG					
15...	1.1	<1.0	5.20	15	25

DATE	TIME	SAMPLE TYPE	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
AUG												
15...	*1000*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
15...	1030	ENVIRONMENTAL	--	--	--	--	--	--	2	32.6	.12	16
15...	1030	BED MATERIAL	6.10	230	.2	1100	5.7	<.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
AUG													
15...	--	--	*<.2*	--	--	*<.08*	--	--	*<.01*	--	*<.06*	--	--
15...	.06	1	--	.9	4670	--	<1	86	--	<.01	--	6	<.4
15...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA-TERIAL AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)
AUG													
15...	--	*<1*	--	--	--	--	--	--	--	--	--	--	--
15...	<.05	--	12	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	2	.1	13	1.9	<2	14000	3.4	46	<.01	3.7

DATE	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)
AUG													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<1	20	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

E Estimated value.
< Actual value is known to be less than the value shown.

01400530 MILLSTONE RIVER AT BAIRD ROAD, NEAR PERRINEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)
AUG													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<5

DATE	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG								
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
15...	<50	<50	<50	<50	<50	<50	2	3

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB													
08...	1030	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB													
08...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB									
08...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY													
09...	1030	<.004	<.002	<.005	E.002	<.010	E.010	E.006	<.005	<.018	<.003	<.006	<.005

E Estimated value.
< Actual value is known to be less than the value shown.

01400530 MILLSTONE RIVER AT BAIRD ROAD, NEAR PERRINEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
09...	<.005	<.002	<.004	<.035	<.027	<.050	E.011	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
09...	<.011	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
02...	1015	490	100	280	23...	1005	270	600	310
09...	1025	110	200	470	30...	1040	230	<100	200

E Estimated value.
< Actual value is known to be less than the value shown.

01400640 MILLSTONE RIVER NEAR GROVERS MILL, NJ

LOCATION.--Lat 40°18'48", long 74°35'22", Mercer County, Hydrologic Unit 02030105, at bridge on Cranbury Road near Grovers Mill, 1.4 mi southeast of Plainsboro and 2.0 mi upstream from Cranbury Brook.

DRAINAGE AREA.--43.4 mi^2.

PERIOD OF RECORD.--Water years 1999 to current year. Site location was 01400650 during water years 1976-95, 1997-98.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory. Analysis of the split and concurrent replicate samples was performed by the Laboratory Branch of the U.S. Environmental Protection Agency, Region II, Division of Environmental Science and Assessment.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
DEC												
13...	0910	ENVIRONMENTAL	34	--	.067	.053	775	87	12.1	--	259	-2.0
13...	*0910*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	*259*	--
13...	*0911*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	--	--	*258*	--
FEB												
28...	1330	ENVIRONMENTAL	68	--	.058	.043	761	97	11.7	7.1	370	4.0
JUN												
12...	0940	ENVIRONMENTAL	24	6.0	.104	.080	757	82	7.3	7.3	327	28.5
12...	*0940*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
12...	*0941*	*CONCURRENT REPLICATE*	--	*5.5*	--	--	--	--	--	--	--	--
AUG												
07...	1040	ENVIRONMENTAL	16	2.9	.112	.084	761	85	7.0	6.8	250	31.5

DATE	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
DEC													
13...	2.5	50	11.4	5.26	4.06	22.9	28	29.4	.2	10.2	25.5	148	144
13...	--	*70*	*16.0*	*7.30*	*2.90*	*15.0*	*35*	*32.0*	*.1*	--	*19.0*	*150*	*125*
13...	--	*70*	*16.0*	*7.30*	*2.90*	*15.0*	*35*	*33.0*	*.1*	--	*19.0*	*150*	*126*
FEB													
28...	7.0	54	13.4	5.12	3.32	45.9	20	71.4	E.1	8.7	26.1	204	200
JUN													
12...	20.5	58	13.4	6.01	4.17	39.5	58	35.2	.2	8.2	25.7	193	185
12...	--	*56*	*13.0*	*5.70*	*4.70*	*39.0*	*56*	*37.0*	*.3*	--	*27.0*	*200*	*177*
12...	--	*56*	*13.0*	*5.70*	*4.70*	*38.0*	*57*	*37.0*	*.3*	--	*27.0*	*200*	*176*
AUG													
07...	25.0	51	12.2	4.88	4.80	23.0	25	33.0	.2	7.9	24.5	135	139

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
DEC													
13...	.130	.38	.14	.49	4.05	.012	4.4	4.5	.095	.032	--	--	.074
13...	*<.050*	*.15*	*<.05*	*.21*	*2.60*	*<.050*	*2.8*	*2.8*	--	*<.030*	--	--	*<.030*
13...	*<.050*	*.15*	*<.05*	*.15*	*2.60*	*<.050*	*2.8*	*2.8*	--	*<.030*	--	--	*<.030*
FEB													
28...	.090	.29	.09	.34	3.12	.012	3.4	3.5	.089	.011	--	--	.061
JUN													
12...	.060	.40	.05	.43	4.00	.019	4.4	4.4	.070	.091	.060	.080	.142
12...	*.089*	*.32*	*.09*	*.60*	*3.60*	*.025*	*3.9*	*4.2*	--	*.080*	*.036*	*.039*	*.120*
12...	*.090*	*.65*	*.09*	*.55*	*3.50*	*.023*	*4.2*	*4.0*	--	*.070*	*.036*	*.049*	*.130*
AUG													
07...	.040	.39	.05	.40	3.11	.008	3.5	3.5	--	.069	--	--	.091

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
DEC								
13...	.8	<.1	2.4	.8	2.0	--	42	<1
13...	--	--	*1.7*	--	--	--	*23*	*<10*
13...	--	--	*1.8*	--	--	--	*24*	*<10*
FEB								
28...	.7	<.1	2.2	.7	<1.0	--	21	6
JUN								
12...	.4	<.1	3.5	.4	<1.0	2.20	64	12
12...	--	--	*2.8*	--	--	--	*62*	*<10*
12...	--	--	*2.7*	--	--	--	*62*	*<10*
AUG								
07...	--	--	3.5	--	<1.0	1.60	66	<1

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01...	1040	700	800	580	15...	1040	70	100	110
08...	1045	790	60	100	22...	1000	130	100	70
					29...	0945	1300	<100	340

< Actual value is known to be less than the value shown.

01401400 HEATHCOTE BROOK AT KINGSTON, NJ

LOCATION.--Lat 40°22'10", long 74°36'59", Middlesex County, Hydrologic Unit 02030105, at bridge on Mapleton Road, at abandoned railroad bridge, 0.3 mi south of Kingston, and 0.4 mi upstream from mouth.

DRAINAGE AREA.--9.0 mi^2.

PERIOD OF RECORD.--Water years 1976-82, 1998 to current year.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality-Control Data" in the "Introduction."

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitritie, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was determined by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory. Analysis of the split and concurrent replicate samples was performed by the Laboratory Branch of the U.S. Environmental Protection Agency, Region II, Division of Environmental Science and Assesment.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Mixed Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)
DEC												
13...	0910	ENVIRONMENTAL	1.8	--	.084	.066	777	85	12.0	6.6	245	.00
13...	*0910*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	*6.6*	*245*	--
13...	*0911*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	--	*6.6*	*248*	--
FEB												
28...	1020	ENVIRONMENTAL	10	--	.128	.097	763	98	12.7	7.2	447	3.0
JUN												
12...	0900	ENVIRONMENTAL	12	68	.234	.169	757	74	6.8	7.0	262	23.0
12...	*0900*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	*7.0*	*262*	--
12...	*0901*	*CONCURRENT REPLICATE*	--	*67*	--	--	--	--	--	*7.0*	*264*	--
AUG												
07...	0900	ENVIRONMENTAL	1.7	2.0	.073	.056	762	78	7.2	6.7	240	18.5

DATE	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
DEC													
13...	2.0	70	16.5	7.12	2.78	15.1	36	28.0	<.2	14.1	18.4	149	141
13...	--	*50*	*11.0*	*5.40*	*4.40*	*24.0*	*29*	*34.0*	*.2*	--	*26.0*	*150*	*134*
13...	--	*50*	*11.0*	*5.40*	*4.40*	*24.0*	*28*	*30.0*	*.2*	--	*27.0*	*140*	*130*
FEB													
28...	4.5	82	19.4	8.08	2.33	51.7	24	97.8	<.2	11.6	29.1	259	240
JUN													
12...	19.0	56	13.4	5.50	2.60	25.7	27	49.3	E.1	8.1	13.3	169	141
12...	--	*54*	*13.0*	*5.20*	*3.00*	*24.0*	*27*	*53.0*	*.2*	--	*14.0*	*180*	*135*
12...	--	*51*	*12.0*	*5.20*	*3.00*	*24.0*	*26*	*52.0*	*.2*	--	*14.0*	*190*	*133*
AUG													
07...	19.5	64	14.6	6.69	2.92	15.9	31	32.0	<.2	11.1	9.9	129	134

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
DEC													
13...	.050	.18	<.03	.24	3.99	.004	4.2	4.2	.048	.007	--	--	.015
13...	*.140*	*.41*	*.14*	*.30*	*2.50*	*<.050*	*2.9*	*2.8*	--	*.030*	--	--	*.070*
13...	*.140*	*.29*	*.14*	*.52*	*2.50*	*<.050*	*2.8*	*3.0*	--	*.030*	--	--	*.070*
FEB													
28...	<.030	.19	.03	.24	1.37	<.003	1.6	1.6	.034	.006	--	--	.017
JUN													
12...	.290	.74	.32	1.1	1.61	.035	2.3	2.7	.238	.026	<.020	.030	.116
12...	*.350*	*.94*	*.40*	*1.2*	*1.40*	*.038*	*2.3*	*2.6*	--	*.010*	*.013*	*.023*	*.110*
12...	*.350*	*.98*	*.40*	*1.1*	*1.40*	*.038*	*2.4*	*2.5*	--	*.010*	*.013*	*.023*	*.110*
AUG													
07...	.050	.17	.05	.21	5.11	.005	5.3	5.3	.045	.010	--	--	.017

E Estimated value.
< Actual value is known to be less than the value shown.

01401400 HEATHCOTE BROOK AT KINGSTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC								
13...	.3	<.1	2.4	.3	E1.4	--	25	<1
13...	--	--	*1.5*	--	--	--	*43*	*<10*
13...	--	--	*1.4*	--	--	--	*43*	*<10*
FEB								
28...	.3	<.1	3.6	.3	<1.0	--	23	4
JUN								
12...	1.7	<.1	8.2	1.7	4.9	3.90	31	46
12...	--	--	*7.8*	--	--	--	*29*	*32*
12...	--	--	*7.8*	--	--	--	*29*	*32*
AUG								
07...	<.1	<.1	2.1	<.1	<1.0	7.50	19	<1

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG				
01...	1010	330	200	260
08...	1010	230	200	230
15...	1010	170	400	240
22...	1020	790	900	130
29...	0940	1100	500	850

E Estimated value.
< Actual value is known to be less than the value shown.

01401560 ROCK BROOK AT ZION, NJ

LOCATION.--Lat 40°26'22", long 74°44'23", Somerset County, Hydrologic Unit 02030105, at bridge on Long Hill Road at Zion, 0.9 mi northeast of Amwell, and 2.8 mi upstream of Sylvan Lake.

DRAINAGE AREA.--3.19 mi^2.

PERIOD OF RECORD.--November 2000 to September 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
30...	1015	--	.235	.191	752	95	11.8	7.6	119	5.5	5.5	44	9.44
FEB													
07...	1100	--	.156	.123	760	97	13.7	7.2	112	5.0	1.0	31	6.73
MAY													
24...	1045	4.3	.231	.180	752	91	9.2	7.5	121	17.5	14.5	45	10.0
SEP													
06...	1030	5.5	.117	.090	760	80	7.9	7.9	165	24.5	16.0	67	14.1

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
30...	4.98	.93	4.5	29	6.8	<.2	21.8	14.7	87	81	<.030	.28	<.03
FEB													
07...	3.47	.57	7.7	16	12.5	<.2	15.5	13.2	79	70	.030	.10	<.03
MAY													
24...	4.93	.98	5.3	32	6.6	<.2	23.4	14.2	101	85	.030	.33	<.03
SEP													
06...	7.62	1.41	5.9	56	8.5	E.1	24.9	12.0	117	109	.030	.17	<.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV													
30...	.23	.085	<.003	.37	.32	.027	.006	.016	.4	<.1	6.0	.4	E1.2
FEB													
07...	.25	.159	<.003	.26	.41	.022	.008	.014	.3	<.1	3.9	.2	<1.0
MAY													
24...	.38	.092	.003	.42	.47	.027	.017	.029	.4	<.1	6.0	.4	E1.2
SEP													
06...	.19	.250	<.003	.42	.44	.045	.013	.020	.2	<.1	3.1	.2	E1.1

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV			
30...	--	13	2
FEB			
07...	--	14	2
MAY			
24...	1.70	22	2
SEP			
06...	4.90	39	2

E Estimated value.
< Actual value is known to be less than the value shown.

01401560 ROCK BROOK AT ZION, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
SEP 06...	1030	<2	12.6	<.06	36	<.04	<1	2.0	290	<1	16	<.01	<1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
SEP 06...	E.3	<.05	2

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 07...	1100	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 07...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 07...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 24...	1045	<.004	<.002	<.005	.008	<.010	<.041	<.030	<.005	<.018	<.003	<.006	<.005

E Estimated value.
< Actual value is known to be less than the value shown.

01401560 ROCK BROOK AT ZION, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
24...	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
24...	<.011	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY				
23...	0900	3500	1600	1700
30...	0945	50	<100	70
JUN				
06...	0850	20	100	130
13...	0840	20	100	50
19...	0835	1300	100	330

E Estimated value.
< Actual value is known to be less than the value shown.

01402000 MILLSTONE RIVER AT BLACKWELLS MILLS, NJ

LOCATION.--Lat 40°28'30", long 74°34'34", Somerset County, Hydrologic Unit 02030105, at highway bridge at Blackwells Mills, and 0.3 mi downstream from Six Mile Run.

DRAINAGE AREA.--258 mi^2.

PERIOD OF RECORD.--Water years 1962-69, 1973, 1976-80, 1991 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
28...	1000	503	--	.213	.171	761	89	10.9	7.6	244	--	6.5	68
FEB													
21...	1000	314	--	.092	.071	764	98	12.5	8.1	334	7.0	5.0	70
MAY													
30...	1000	399	16	.264	.206	760	70	6.6	7.3	229	16.0	18.0	54
AUG													
29...	1000	160	7.8	.170	.128	762	55	4.6	7.2	242	20.0	24.5	60

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
28...	16.2	6.73	4.58	15.9	43	25.6	E.1	8.0	22.8	149	134	.070	.55
FEB													
21...	16.6	6.91	2.96	32.3	31	56.6	E.1	10.4	25.9	184	181	.120	.31
MAY													
30...	12.6	5.53	3.10	20.1	32	26.3	E.2	9.0	18.7	129	122	.120	.64
AUG													
29...	13.9	6.21	4.35	20.9	35	30.2	.2	6.9	24.1	144	128	.060	.58

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
28...	.19	.65	1.85	.008	2.4	2.5	.177	.133	.195	1.1	<.1	6.1	1.1
FEB													
21...	.18	.39	2.44	.019	2.7	2.8	.067	.138	.174	.5	<.1	2.9	.5
MAY													
30...	.17	.81	1.77	.040	2.4	2.6	.088	.161	.228	.8	<.1	6.5	.8
AUG													
29...	.06	.60	E1.69	.023	--	--	.086	.286	.296	.5	<.1	5.2	.5

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
28...	3.9	--	52	8
FEB				
21...	E1.6	--	38	10
MAY				
30...	2.1	2.60	42	29
AUG				
29...	<1.0	1.00	66	5

E Estimated value.
< Actual value is known to be less than the value shown.

01402000 MILLSTONE RIVER AT BLACKWELLS MILLS, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY				
23...	1150	5400	<100	3600
30...	1220	1700	300	570
JUN				
06...	1150	330	500	100
13...	1125	110	<100	50
19...	1130	1400	900	480

< Actual value is known to be less than the value shown.

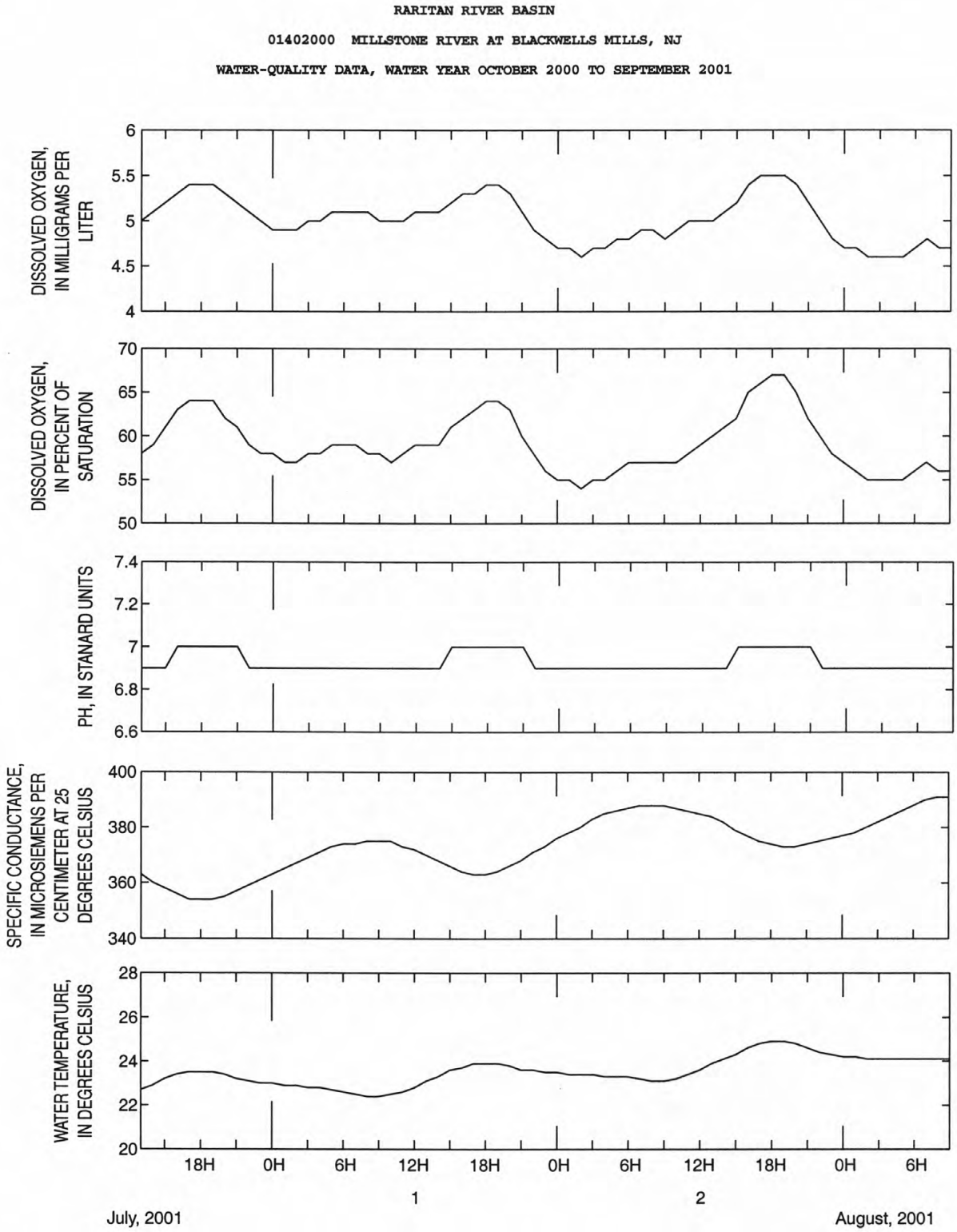


Figure 45. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01402000 Millstone River at Blackwells Mills, water year 2001.

01403171 WEST BRANCH MIDDLE BROOK AT CHIMNEY ROCK ROAD, AT MARTINSVILLE, NJ

LOCATION.--Lat 40°35'21", long 74°33'49", Somerset County, Hydrologic Unit 02030105, at bridge on Chimney Rock Road, 0.1 mi downstream of Washington Valley Reservoir, and 0.8 mi south of Martinsville.

DRAINAGE AREA.--6.29 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)
NOV												
29...	1030	ENVIRONMENTAL	--	.335	.277	763	96	12.0	7.7	188	8.0	6.0
FEB												
01...	1000	ENVIRONMENTAL	--	.215	.174	760	98	13.5	7.5	294	5.0	2.0
MAY												
24...	1000	ENVIRONMENTAL	4.2	.145	.113	759	89	8.6	7.9	268	18.0	16.9
AUG												
14...	1045	ENVIRONMENTAL	6.7	.124	.092	758	100	8.1	8.1	241	22.0	25.6

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
NOV													
29...	67	16.9	5.92	2.29	9.0	52	13.0	<.2	12.6	13.7	129	106	.050
FEB													
01...	67	16.6	6.28	1.36	24.9	33	53.2	<.2	11.6	15.3	165	153	.050
MAY													
24...	91	23.1	8.08	1.19	15.1	67	29.3	<.2	12.9	17.5	160	148	.070
AUG													
14...	87	22.0	7.68	1.50	13.1	70	23.7	<.2	10.5	12.6	142	133	<.030

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)
NOV													
29...	.44	.05	.70	.426	.006	.87	1.1	.234	.015	.081	1.3	<.1	8.9
FEB													
01...	.32	.06	.36	.800	.004	1.1	1.2	.091	.013	.035	.8	<.1	5.4
MAY													
24...	.41	.08	.60	.201	.008	.61	.80	.149	.017	.039	.7	<.1	4.4
AUG													
14...	.28	<.03	.57	.063	<.003	.34	.64	.241	.007	.032	1.7	<.1	4.2

< Actual value is known to be less than the value shown.

01403171 WEST BRANCH MIDDLE BROOK AT CHIMNEY ROCK ROAD, AT MARTINSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV					
29...	1.3	4.9	--	130	<1
FEB					
01...	.8	2.0	--	80	5
MAY					
24...	.7	2.5	18.9	118	2
AUG					
14...	1.7	2.1	58.7	152	<1

DATE	TIME	SAMPLE TYPE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
AUG												
14...	*0930*	*FIELD BLANK*	--	--	--	--	--	--	*<.2*	--	--	*<.08*
14...	1045	ENVIRONMENTAL	E2	27.8	<.06	140	<.04	<1	--	1.2	310	--

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG										
14...	--	--	*<.01*	--	*<.06*	--	--	--	*<1*	--
14...	<1	95	--	<.01	--	<1	<.4	<.05	--	3

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB													
01...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB													
01...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.4

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB									
01...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

E Estimated value.
< Actual value is known to be less than the value shown.

01403171 WEST BRANCH MIDDLE BROOK AT CHIMNEY ROCK ROAD, AT MARTINSVILLE, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY													
24...	1000	<.004	<.002	<.005	.007	<.010	E.009	<.020	<.005	<.018	<.003	E.005	.054

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
24...	<.005	<.002	<.004	<.035	<.027	<.050	E.002	<.006	<.002	<.007	<.003	<.010	.031

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
24...	E.003	<.016	<.034	<.005	E.003

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY				
23...	1105	2200	2000	2400
30...	1135	230	<100	10
JUN				
06...	1115	110	200	30
13...	1050	20	100	20
19...	1100	130	100	50

E Estimated value.
< Actual value is known to be less than the value shown.

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ

LOCATION.--Lat 40°33'34", long 74°31'41", Somerset County, Hydrologic Unit 02030105, at Queens Bridge on Main street in Bound Brook, 1.7 mi upstream from Fieldsville Dam.

DRAINAGE AREA.--804 mi^2.

PERIOD OF RECORD.--Water years 1964-69, 1971-73, 1978, 1981 to current year. Published as "at Bound Brook" (station 01403000) 1964-66, and as "below Calco Dam at Bound Brook" (station 01403060) 1967-69.

REMARKS.--Data collected as part of the Long Island-New Jersey National Water-Quality Assessment Program (LINJ NAWQA). Instantaneous discharges are determined at Raritan River below Calco Dam at Bound Brook (station 01403060). For the definitions of the type of quality-control data listed under SAMPLE TYPE, refer to "Explanation of the Records, Quality-Control Data" in the "Introduction". Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table. Site is in New Jersey Department of Environmental Protection Watershed Management Area 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
OCT												
26...	1020	ENVIRONMENTAL	181	764	90	9.4	7.2	412	--	13.5	110	27.6
NOV												
29...	0950	ENVIRONMENTAL	761	758	99	12.0	7.5	252	7.5	7.0	72	17.9
DEC												
28...	1020	ENVIRONMENTAL	577	758	98	14.3	7.8	320	-4.0	.00	90	22.2
FEB												
01...	1010	ENVIRONMENTAL	3660	767		--	7.3	--	6.0	2.0	65	16.5
28...	1000	ENVIRONMENTAL	1830	764		13.5	7.4	--	.5	5.0	82	20.7
MAR												
29...	*0840*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
29...	0920	ENVIRONMENTAL	978	763	111	13.6	7.4	287	--	6.5	78	19.5
APR												
25...	1040	ENVIRONMENTAL	677	766	101	9.7	7.7	295	14.0	17.5	89	22.1
25...	*1041*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	*88*	*21.9*
25...	*1042*	*SEQUENTIAL REPLICATE*	--	--	--	--	--	--	--	--	--	--
MAY												
30...	1020	ENVIRONMENTAL	1190	763	94	9.0	7.2	251	16.0	17.5	70	17.5
JUL												
02...	1020	ENVIRONMENTAL	2000	767	91	7.8	7.3	227	--	23.5	66	16.3
AUG												
03...	*0845*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	*.01*
03...	1000	ENVIRONMENTAL	105	757	91	7.5	7.5	456	28.0	24.5	120	32.7
28...	1000	ENVIRONMENTAL	187	757	98	8.2	7.8	409	--	24.0	120	30.1
SEP												
27...	1010	ENVIRONMENTAL	199	764	91	8.6	7.8	370	--	18.0	100	25.7

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)
OCT													
26...	9.76	4.63	30.5	71	87	41.5	.2	7.8	51.5	2.1	2.5	1.58	4.5
NOV													
29...	6.60	3.72	16.1	44	54	23.0	E.1	8.4	25.4	.48	.75	.064	2.8
DEC													
28...	8.47	2.68	21.2	49	60	38.1	E.1	11.7	26.6	.44	.54	.158	3.0
FEB													
01...	5.78	2.51	30.5	30	37	57.8	E.1	8.3	17.6	.42	.70	.087	2.3
28...	7.35	2.15	37.3	38	46	67.0	E.1	9.3	21.8	.26	.36	.053	2.0
MAR													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	7.10	1.87	23.3	42	50	44.2	E.1	8.0	24.1	.28	.38	E.028	2.1
APR													
25...	8.22	2.35	23.2	47	58	39.6	E.1	6.2	27.9	.41	.54	E.021	2.1
25...	*8.21*	*2.39*	*22.6*	*50*	*61*	*40.9*	*E.1*	*6.4*	*27.4*	*.38*	*.54*	*<.041*	*2.1*
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
30...	6.42	2.47	19.1	44	54	30.1	E.1	10.3	19.7	.47	.62	.129	2.3
JUL													
02...	6.20	2.72	15.9	43	52	25.5	E.1	7.4	18.1	.59	.93	.071	2.2
AUG													
03...	*<.008*	*<.09*	*M*	--	--	*E.1*	*<.2*	*.5*	*<.1*	*<.10*	*<.08*	*<.040*	--
03...	10.5	4.75	38.4	59	72	52.4	.2	6.7	56.1	.83	.95	.041	5.5
28...	9.98	3.98	30.9	54	66	47.5	.2	7.1	48.5	.52	.48	<.040	--
SEP													
27...	8.80	4.40	32.6	41	49	43.8	.2	7.8	49.4	.55	.69	E.025	4.0

E Estimated value.
< Actual value is known to be less than the value shown.

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN,PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT													
26...	4.1	2.00	.019	.95	.170	.540	.504	.626	.9	<.1	4.1	.9	235
NOV													
29...	2.5	2.06	.010	.68	.102	.125	.107	.185	.9	<.1	6.3	.9	154
DEC													
28...	2.9	2.42	.013	.38	.078	.122	.104	.165	.5	<.1	3.0	.5	178
FEB													
01...	2.1	1.63	.008	.61	.201	.076	.070	.153	1.1	<.1	4.6	1.1	173
28...	1.9	1.68	.008	.31	.110	.054	.048	.085	.6	<.1	3.2	.6	209
MAR													
29...	--	--	--	--	*.059*	--	--	--	*.2*	*<.1*	*<.15*	*.2*	--
29...	2.0	1.71	.012	--	.122	.080	.068	.116	.5	<.1	3.1	.5	170
APR													
25...	2.0	1.58	.020	--	.180	.137	.109	.176	.8	<.1	3.1	.8	200
25...	*1.9*	*1.54*	*.020*	--	--	*.130*	*.103*	*.175*	--	--	--	--	*187*
25...	--	--	--	--	*.118*	--	--	--	*.8*	*<.1*	*3.1*	*.8*	--
MAY													
30...	2.1	1.66	E.004	.49	.149	.120	.104	.173	.7	<.1	4.8	.7	149
JUL													
02...	1.9	1.27	E.003	.86	.380	.155	.163	.285	3.3	<.1	5.6	3.2	134
AUG													
03...	--	*.048*	*<.006*	--	--	*<.006*	*<.020*	*<.004*	--	--	--	--	*<10*
03...	5.3	4.50	.027	.91	.113	.747	.713	.785	.6	<.1	4.7	.6	278
28...	--	E4.55	.014	--	.114	E.721	E.688	.780	.4	<.1	3.9	.4	253
SEP													
27...	3.9	3.35	.007	--	.066	.365	.345	.420	.9	<.1	4.2	.8	232

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
OCT													
26...	229	119	70	230	3.1	6	<.004	<.002	<.005	.017	<.010	<.041	<.020
NOV													
29...	137	59	110	45.8	23	11	<.004	<.002	<.005	.012	<.010	<.041	<.020
DEC													
28...	172	49	80	57.7	10	6	<.004	.011	<.005	.024	<.010	<.041	<.020
FEB													
01...	165	34	70	58.2	425	43	<.004	<.002	<.005	.008	<.010	<.041	<.020
28...	196	33	70	49.3	44	9	<.004	<.002	<.005	.012	<.010	<.041	<.020
MAR													
29...	--	--	--	--	--	--	*<.004*	*<.002*	*<.005*	*<.007*	*<.010*	*<.041*	*<.020*
29...	161	48	90	53.0	16	6	<.004	<.002	<.005	.010	<.010	<.041	<.020
APR													
25...	166	57	110	28.6	7.3	4	<.004	E.003	<.005	.014	<.010	E.004	<.020
25...	*167*	*59*	*110*	*27.9*	--	*4*	*<.004*	*<.002*	*<.005*	*E.005*	*<.010*	*<.041*	*<.020*
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
30...	140	54	140	39.9	48	15	.081	.012	<.005	.612	<.010	E.019	<.020
JUL													
02...	124	49	50	17.0	475	88	.008	.009	<.005	.181	<.010	E.146	<.020
AUG													
03...	--	*<13*	*<10*	*<3.0*	--	--	--	--	--	--	--	--	--
03...	260	160	50	25.5	2.6	9	<.004	<.002	<.005	.058	<.010	E.016	<.020
28...	211	148	50	30.9	7.6	15	<.004	<.002	<.005	.040	<.010	<.041	<.020
SEP													
27...	213	130	40	86.8	5.4	10	<.004	<.002	<.005	.015	<.010	E.160	<.020

E Estimated value.
< Actual value is known to be less than the value shown.

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
OCT													
26...	<.005	<.018	<.003	E.017	E.003	<.005	<.002	<.004	<.035	<.027	<.050	.016	<.006
NOV													
29...	<.005	<.018	<.003	E.019	.015	<.005	<.002	<.004	<.035	<.027	<.050	.017	<.006
DEC													
28...	<.005	<.018	<.003	E.027	.007	<.005	<.002	<.007	<.035	<.027	<.050	.021	<.006
FEB													
01...	<.005	<.018	<.003	E.012	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.013	<.006
28...	<.005	<.018	<.003	E.015	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006
MAR													
29...	*<.005*	*<.018*	*<.003*	*<.006*	*<.005*	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*	*<.013*	*<.006*
29...	<.005	<.018	<.003	E.010	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.012	<.006
APR													
25...	<.005	<.018	<.003	E.015	E.003	<.005	<.002	<.004	<.035	<.027	<.050	.014	<.006
25...	*<.005*	*<.018*	*<.003*	*E.005*	*.009*	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*	*E.002*	*<.006*
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
30...	<.005	<.018	<.003	E.046	.015	<.005	<.002	<.004	<.035	<.027	<.050	.236	<.006
JUL													
02...	E.004	E.007	<.003	E.033	.177	<.005	<.005	<.004	<.035	E.004	<.050	.112	<.006
AUG													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	<.005	<.018	<.003	E.016	.012	<.005	<.002	<.004	<.035	<.027	<.050	.033	<.006
28...	<.005	<.018	<.003	E.017	.017	<.005	<.006	<.004	<.035	<.027	<.050	.022	<.006
SEP													
27...	<.005	<.018	<.003	E.015	.011	<.005	<.007	<.004	<.035	<.027	<.050	.023	<.006

DATE	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT										
26...	<.002	<.007	<.003	<.010	E.011	E.005	<.016	<.034	<.005	<.009
NOV										
29...	<.002	<.007	<.003	<.010	.030	<.011	<.016	<.034	<.005	E.003
DEC										
28...	<.002	<.007	<.003	<.010	<.015	E.004	<.016	<.034	<.005	<.009
FEB										
01...	<.002	<.007	<.003	<.010	<.015	<.011	<.016	<.034	<.005	<.009
28...	<.002	<.007	<.003	<.010	E.007	E.003	<.016	<.034	<.005	<.009
MAR										
29...	*<.002*	*<.007*	*<.005*	*<.010*	*<.015*	*<.011*	*<.016*	*<.034*	*<.005*	*<.009*
29...	<.002	<.007	<.003	<.010	E.005	<.011	<.016	<.034	<.005	<.009
APR										
25...	<.002	<.007	<.003	<.010	E.004	.014	<.016	<.034	<.005	<.009
25...	*<.002*	*<.007*	*<.003*	*E.014*	*.032*	*E.004*	*E.015*	*<.034*	*<.005*	*<.009*
25...	--	--	--	--	--	--	--	--	--	--
MAY										
30...	<.002	<.007	<.003	E.009	.021	.017	<.016	<.034	<.005	E.003
JUL										
02...	<.002	<.007	<.003	E.006	.037	E.009	<.016	<.034	<.005	<.009
AUG										
03...	--	--	--	--	--	--	--	--	--	--
03...	<.002	<.007	<.003	<.010	.021	<.011	<.016	<.034	<.005	<.009
28...	<.002	<.007	<.003	<.010	.035	<.011	<.016	<.034	<.005	<.009
SEP										
27...	<.002	<.007	<.003	<.010	.025	E.004	<.016	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3-TRICHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)
NOV												
29...	0950	ENVIRONMENTAL	<.03	<.04	<.04	1810	E.1	E.1	<.06	E.01	E.09	E.05
FEB												
28...	*0930*	*FIELD BLANK*	*<.03*	*<.04*	*<.04*	*<7*	*<.3*	*<.2*	*<.06*	*<.04*	*<.03*	*<.05*
28...	1000	ENVIRONMENTAL	<.03	<.04	<.04	E2	E.1	.3	<.06	E.01	E.07	E.05
MAY												
30...	1020	ENVIRONMENTAL	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05
AUG												
28...	1000	ENVIRONMENTAL	<.03	<.04	<.04	<7	E.1	E.1	<.06	<.04	E.07	E.02

DATE	ISOPROPYLBENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON DISULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
NOV													
29...	E.02	.29	5.12	<.06	<.07	E.04	M	.49	E.07	.15	<.3	.2	<.1
FEB													
28...	*<.03*	*<.03*	*<.04*	*<.06*	*<.07*	*<.03*	*<.2*	*<.02*	*<.04*	*<.05*	*<.3*	*<.2*	*<.1*
28...	<.03	.32	4.64	<.06	<.07	E.05	<.2	.30	E.01	E.09	<.3	<.2	<.1
MAY													
30...	<.03	E.03	E.09	<.06	<.07	E.02	E.1	.54	<.04	.19	<.3	<.2	<.1
AUG													
28...	<.03	.24	1.69	E.06	<.07	E.02	.7	5.48	<.04	2.02	<.3	<.2	<.1

DATE	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRAHYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYLENE CHLORIDE TOTAL (UG/L) (34418)	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-CHLOROTOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISOPROPYLTOLUENE WATER WHOLE REC (UG/L) (77356)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)
NOV													
29...	.42	<.06	<2	.3	<.2	M	1.83	E.02	.57	E.03	E.1	.26	E.03
FEB													
28...	*<.03*	*<.06*	*<2*	*<.2*	*<.2*	*<.2*	*<.06*	*<.03*	*<.04*	*<.07*	*<.1*	*<.05*	*<.04*
28...	E.01	<.06	<2	.2	<.2	E.1	E.03	.36	E.02	<.07	M	.19	E.03
MAY													
30...	<.03	<.06	<2	.2	<.2	<.2	<.06	<.03	<.04	<.07	M	E.06	<.04
AUG													
28...	<.03	<.06	<2	E.1	<.2	M	<.06	<.03	<.04	<.07	M	E.04	<.04

DATE	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)
NOV	
29...	<.09
FEB	
28...	*<.09*
28...	<.09
MAY	
30...	<.09
AUG	
28...	<.09

E Estimated value.
< Actual value is known to be less than the value shown.

01403385 BOUND BROOK AT ROUTE 28, AT MIDDLESEX, NJ

LOCATION.--Lat 40°34'51", long 74°29'58", Middlesex County, Hydrologic Unit 02030105, at bridge on State Route 28, 0.3 mi upstream from Green Brook, 0.9 mi northeast of Middlesex, and 2.4 mi west of the intersection of State Route 28 and Washington Avenue in Dunellen.

DRAINAGE AREA.--23.9 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

REMARK.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
13...	0940	7.8	--	.261	.204	760	51	5.7	7.2	250	9.0	10.5	80
FEB													
12...	1150	19	--	.140	.104	778	94	13.1	7.8	719	1.5	2.5	150
MAY													
21...	0850	4.5	10	.140	.101	764	46	4.6	7.4	651	13.0	15.5	230
AUG													
15...	1000	14	5.1	.205	.150	761	58	4.9	6.8	220	28.5	23.5	64

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
13...	23.9	4.97	3.40	11.1	57	17.6	E.1	7.8	29.8	156	137	.160	.63
FEB													
12...	44.3	8.54	2.53	81.9	73	143	E.1	10.4	37.3	402	379	.130	.43
MAY													
21...	69.7	14.8	3.06	33.1	143	62.0	E.1	12.8	83.4	404	367	.300	.76
AUG													
15...	19.3	3.74	2.11	15.1	38	20.4	<.2	6.9	25.7	135	120	.080	.47

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
13...	.17	.69	.957	.011	1.6	1.6	.046	.089	.111	.3	<.1	7.3	.3
FEB													
12...	.16	.49	1.45	.015	1.9	1.9	.103	.018	.077	1.2	<.1	4.3	1.2
MAY													
21...	.35	.85	.510	.045	1.3	1.4	.050	.052	.164	.6	<.1	4.8	.6
AUG													
15...	.15	.46	.875	.016	1.3	1.3	.023	.119	.153	.6	<.1	5.3	.6

E Estimated value.
< Actual value is known to be less than the value shown.

01403385 BOUND BROOK AT ROUTE 28, AT MIDDLESEX, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
13...	2.6	--	80	2
FEB				
12...	E1.7	--	95	8
MAY				
21...	E1.8	5.70	187	18
AUG				
15...	<1.0	2.10	89	4

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG				
01...	1015	140	200	200
08...	1001	1100	<100	260
15...	1023	490	200	480
22...	0940	230	200	310
29...	1045	210	<100	120

E Estimated value.
< Actual value is known to be less than the value shown.

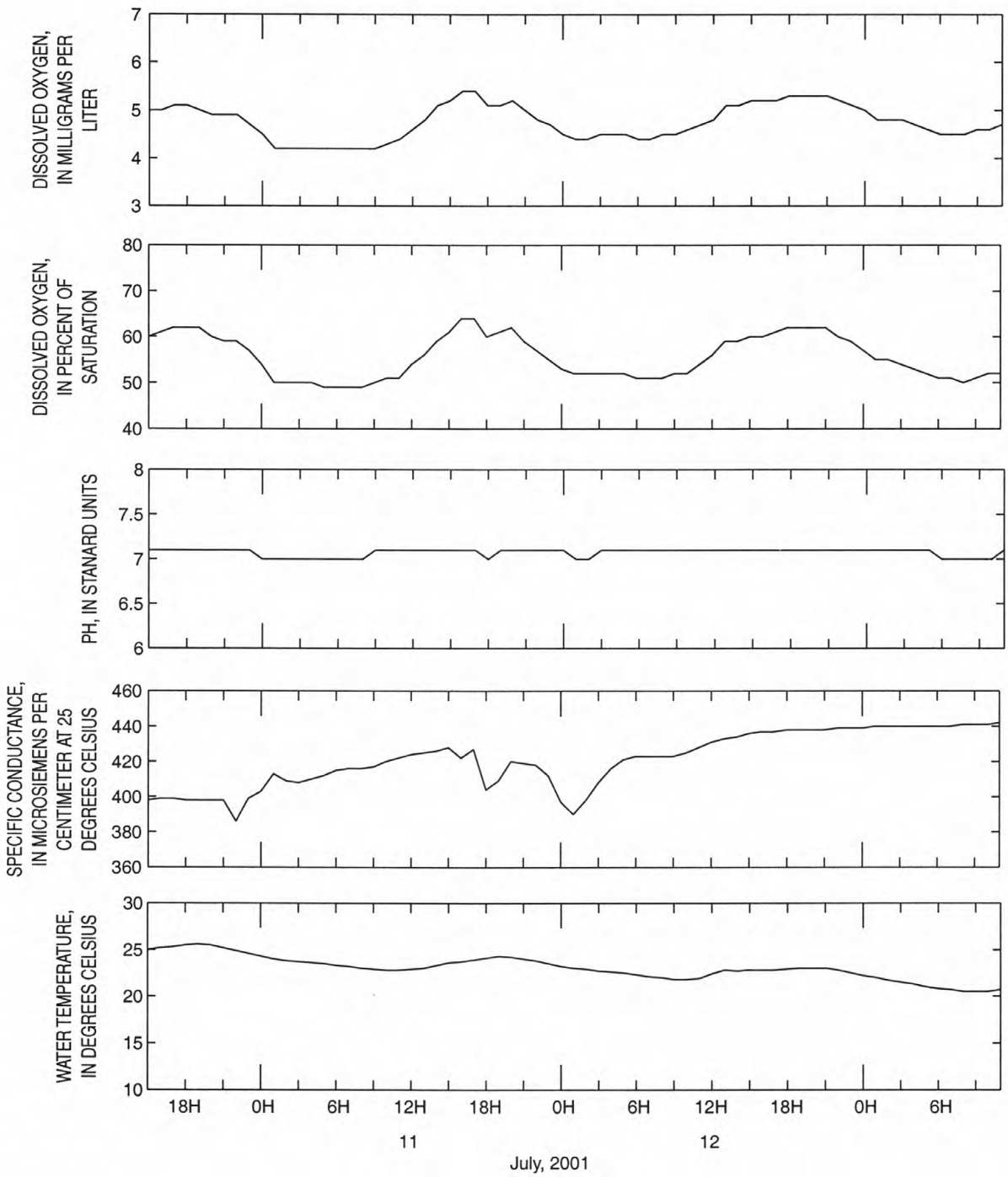


Figure 46. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01403385 Bound Brook at Route 28, at Middlesex, water year 2001.

01403900 BOUND BROOK AT MIDDLESEX, NJ

LOCATION.--Lat 40°35'06", long 74°30'29", Somerset County, Hydrologic Unit 02030105, at bridge on Sebring Mill Road, 0.4 mi downstream from mouth of Green Brook, and 2.3 mi upstream from mouth.

DRAINAGE AREA.--48.4 mi^2.

PERIOD OF RECORD.--Water years 1996-98, February to September 2001.

REMARKS.--Data collected as part of the Long Island-New Jersey National Water-Quality Assessment Program (LINJ NAWQA). For the definitions of the type of quality-control data listed under SAMPLE TYPE, refer to "Explanation of the Records, Quality-Control Data" in the "Introduction". Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table. Site is in New Jersey Department of Environmental Protection Watershed Management Area 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
FEB												
01...	1420	ENVIRONMENTAL	105	768	--	--	7.5	--	8.0	4.0	120	33.7
28...	1350	ENVIRONMENTAL	54	760	--	15.3	7.8	--	5.0	6.0	140	39.0
MAR												
29...	*1150*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
29...	1220	ENVIRONMENTAL	44	763	118	14.5	7.6	540	--	6.5	150	42.0
APR												
25...	1500	ENVIRONMENTAL	32	767	139	13.9	8.0	520	18.0	15.5	170	48.7
MAY												
30...	1310	ENVIRONMENTAL	46	762	87	8.2	7.2	387	20.0	18.0	110	31.0
30...	*1311*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	*110*	*31.2*
30...	*1312*	*SEQUENTIAL REPLICATE*	--	--	--	--	--	--	--	--	--	--
JUL												
02...	1330	ENVIRONMENTAL	58	767	96	8.4	7.3	330	25.0	22.5	110	30.6
AUG												
03...	1250	ENVIRONMENTAL	8.7	757	105	9.0	7.4	516	30.0	22.5	180	50.1
28...	*1300*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	*E.01*
28...	1400	ENVIRONMENTAL	20	756	88	7.3	7.9	438	--	24.5	150	46.5
SEP												
27...	1340	ENVIRONMENTAL	15	764	87	8.6	7.7	320	--	16.0	100	29.7

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
FEB													
01...	8.49	2.00	65.7	46	56	130	<.2	11.4	29.8	.28	.45	.052	1.8
28...	10.3	1.87	83.8	54	66	164	E.1	11.0	34.4	.22	.29	E.026	1.5
MAR													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	11.3	1.56	41.7	76	92	87.7	E.1	11.8	42.6	.23	.31	.052	1.6
APR													
25...	12.5	1.95	33.0	90	109	73.7	<.2	10.4	48.3	.26	.33	E.029	.95
MAY													
30...	7.43	2.06	27.5	66	81	50.4	E.1	11.4	29.2	.43	.58	.192	1.5
30...	*7.51*	*2.14*	*28.7*	*67*	*82*	*49.6*	*E.1*	*11.5*	*29.0*	*.41*	*.56*	*.168*	*1.5*
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
02...	7.14	1.85	20.8	58	70	37.9	E.1	11.3	32.7	.33	.50	.094	1.3
AUG													
03...	12.9	2.20	27.2	99	121	56.6	<.2	10.0	60.2	.27	.32	E.029	1.0
28...	*<.008*	*<.09*	*<.1*	--	--	*<.1*	*<.2*	*E.1*	*<.1*	*<.10*	*<.08*	*<.040*	--
28...	9.42	2.12	21.4	87	106	40.5	E.1	8.4	63.1	.33	.43	E.028	--
SEP													
27...	6.99	1.91	19.3	63	77	34.1	<.2	10.2	35.1	.24	.31	.047	1.2

E Estimated value.
< Actual value is known to be less than the value shown.

01403900 BOUND BROOK AT MIDDLESEX, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN,PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
FEB													
01...	1.6	1.33	.006	.39	.095	.023	E.014	.058	.5	<.1	4.4	.5	343
28...	1.4	1.19	.008	--	.042	.011	<.018	.036	.6	<.1	3.4	.6	416
MAR													
29...	--	--	--	--	*.043*	--	--	--	*.2*	*<.1*	*E.18*	*.2*	--
29...	1.5	1.30	.013	.26	.300	.011	<.018	.036	.7	<.1	2.7	.7	293
APR													
25...	.89	.629	.018	--	.113	.017	E.010	.042	.5	<.1	3.1	.5	319
MAY													
30...	1.3	.894	.011	.39	.106	.050	.038	.123	.9	<.1	4.9	.9	213
30...	*1.3*	*.903*	*.009*	*.39*	--	*.049*	*.035*	*.124*	--	--	--	--	*217*
30...	--	--	--	--	*.110*	--	--	--	*.9*	*<.1*	*4.9*	*.9*	--
JUL													
02...	1.1	.772	E.004	.41	.103	.058	.063	.113	10	<.1	5.6	10	207
AUG													
03...	1.00	.724	.014	--	.091	.031	.020	.060	.7	<.1	2.8	.7	310
28...	--	*<.050*	*<.006*	--	--	*<.006*	*<.020*	*<.004*	--	--	--	--	*10*
28...	--	E.491	.015	--	.229	.040	E.012	.087	1.3	<.1	4.6	1.3	269
SEP													
27...	1.1	.837	.007	.27	<.022	.056	.044	<.060	.4	<.1	3.9	.4	186

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
FEB													
01...	315	73	100	81.1	3.9	14	<.004	<.002	<.005	<.007	<.010	<.041	<.020
28...	382	72	80	95.4	.78	5	<.004	<.002	<.005	E.003	<.010	<.041	<.020
MAR													
29...	--	--	--	--	--	--	*<.004*	*<.002*	*<.005*	*<.007*	*<.010*	*<.041*	*<.020*
29...	290	100	20	116	.34	3	<.004	<.002	<.005	E.003	<.010	<.041	<.020
APR													
25...	285	117	120	110	.14	2	<.004	.004	<.005	.015	<.010	E.004	<.020
MAY													
30...	203	93	70	111	3.0	24	.011	<.007	<.005	.047	<.010	E.038	<.020
30...	*205*	*95*	*60*	*112*	--	*24*	*.012*	*<.009*	*<.005*	*.046*	*<.010*	*E.036*	*<.020*
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
02...	180	100	50	50.7	2.8	18	--	--	--	E.030	--	E.044	--
AUG													
03...	282	145	60	74.8	.19	8	<.004	<.002	<.005	.009	<.010	<.041	<.020
28...	--	*<13*	*<10*	*<3.0*	--	--	--	--	--	--	--	--	--
28...	244	139	60	57.3	.27	5	<.004	<.002	<.005	.008	<.010	<.041	<.020
SEP													
27...	179	106	40	50.5	.16	4	<.004	<.002	<.005	E.004	<.010	E.119	<.020

DATE	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)
FEB													
01...	<.005	<.018	<.003	<.006	.013	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006
28...	<.005	<.018	<.003	E.003	E.004	<.005	<.002	<.004	<.035	E.005	<.050	<.013	<.006
MAR													
29...	*<.005*	*<.018*	*<.003*	*<.006*	*<.005*	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*	*<.013*	*<.006*
29...	<.005	<.018	<.003	E.003	E.003	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006
APR													
25...	<.005	<.018	<.003	E.017	E.003	<.005	<.002	<.004	<.035	<.027	<.050	.016	<.006
MAY													
30...	E.003	<.018	<.003	E.010	.062	<.005	<.002	<.004	<.035	<.027	<.050	E.011	<.006
30...	*E.003*	*<.018*	*<.003*	*E.011*	*.063*	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*	*E.011*	*<.006*
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
02...	E.008	E.009	--	--	E.459	--	--	--	--	--	--	E.011	--
AUG													
03...	<.005	<.018	<.003	E.006	.013	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.005	<.018	<.003	E.004	.068	<.005	<.002	<.004	<.035	E.008	<.050	E.005	<.006
SEP													
27...	<.005	<.018	<.003	<.006	.073	<.005	<.007	<.004	<.035	<.027	<.050	E.004	<.006

E Estimated value.
< Actual value is known to be less than the value shown.

01403900 BOUND BROOK AT MIDDLESEX, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
FEB										
01...	<.002	<.007	<.003	<.010	<.015	<.011	<.016	<.034	<.005	<.009
28...	<.002	<.007	<.003	<.010	.018	E.006	<.016	<.034	<.005	<.009
MAR										
29...	*<.002*	*<.007*	*<.003*	*<.010*	*<.015*	*<.011*	*<.016*	*<.034*	*<.005*	*<.009*
29...	<.002	<.007	<.003	<.010	E.010	<.011	<.016	<.034	<.005	<.009
APR										
25...	<.002	<.007	<.003	E.011	E.005	.016	<.016	<.034	<.005	<.009
MAY										
30...	<.002	<.007	<.003	.017	.059	.024	<.016	<.034	<.005	E.003
30...	*<.002*	*<.007*	*<.003*	*.016*	*.062*	*.024*	*.020*	*<.034*	*<.005*	*E.003*
30...	--	--	--	--	--	--	--	--	--	--
JUL										
02...	--	--	--	E.013	E.074	E.010	E.018	--	--	--
AUG										
03...	<.002	<.007	<.003	<.010	.024	<.011	E.015	<.034	<.005	<.009
28...	--	--	--	--	--	--	--	--	--	--
28...	<.002	<.007	<.003	<.010	.047	<.011	.019	<.034	<.005	<.009
SEP										
27...	<.002	<.007	<.003	<.010	.023	E.003	<.025	<.034	<.005	<.009

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	SAMPLE TYPE	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)
FEB												
28...	1350	ENVIRONMENTAL	E.01	<.04	E.01	<7	<.3	<.2	<.06	<.04	<.03	<.05
MAR												
29...	*1150*	*FIELD BLANK*	*<.03*	*<.04*	*<.04*	*<7*	*<.3*	*<.2*	*<.06*	*<.04*	*<.03*	*<.05*
29...	1220	ENVIRONMENTAL	E.02	<.04	E.01	E1	<.3	<.2	<.06	<.04	<.03	<.05
AUG												
28...	1400	ENVIRONMENTAL	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05

DATE	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
FEB													
28...	<.03	<.03	E.01	<.06	<.07	.14	<.2	E.06	E.10	<.05	<.3	<.2	.1
MAR													
29...	*<.03*	*<.03*	*<.04*	*<.06*	*<.07*	*<.03*	*<.2*	*<.02*	*<.04*	*<.05*	*<.3*	*<.2*	*<.1*
29...	<.03	<.03	E.02	<.06	<.07	.22	<.2	E.06	.10	<.05	<.3	<.2	.2
AUG													
28...	<.03	<.03	<.04	<.06	<.07	E.07	<.2	E.05	<.04	<.05	<.3	<.2	<.1

DATE	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)
FEB													
28...	<.03	<.06	<2	33.0	<.2	<.2	<.06	<.03	<.04	<.07	E.1	E.04	.10
MAR													
29...	*<.03*	*<.06*	*<2*	*<.2*	*<.2*	*<.2*	*<.06*	*<.03*	*<.04*	*<.07*	*M*	*<.05*	*<.04*
29...	<.03	<.06	<2	44.2	<.2	M	<.06	<.03	<.04	<.07	E.1	E.06	E.10
AUG													
28...	<.03	<.06	<2	21.3	<.2	<.2	<.06	<.03	<.04	<.07	M	E.02	<.04

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
FEB	
28...	<.09
MAR	
29...	*<.09*
29...	<.09
AUG	
28...	<.09

E Estimated value.
< Actual value is known to be less than the value shown.

01405340 MANALAPAN BROOK AT FEDERAL ROAD, NEAR MANALAPAN, NJ

LOCATION.--Lat 40°17'46", long 74°23'53", Middlesex County, Hydrologic Unit 02030105, at bridge on Federal Road, 2.6 mi north of Manalapan, 3.1 mi southwest of Matchaponix, 3.3 mi downstream from Still House Brook, and 4.1 mi northeast of Applegarth.

DRAINAGE AREA.--20.9 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Mixed Land Use Indicator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
NOV												
21...	0950	ENVIRONMENTAL	16	--	.083	.070	760	91	12.1	6.8	185	5.0
FEB												
15...	0900	ENVIRONMENTAL	30	--	.043	.037	757	96	12.0	5.9	199	7.0
MAY												
21...	1010	ENVIRONMENTAL	13	13	.082	.065	764	89	9.2	6.7	231	14.0
AUG												
21...	0950	ENVIRONMENTAL	5.2	7.6	.095	.074	758	84	7.4	6.8	227	--
21...	*0950*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
21...	*0951*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	--	--	--	--

DATE	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
NOV													
21...	3.5	38	9.25	3.67	2.90	14.4	8	30.4	.2	12.5	20.7	107	102
FEB													
15...	5.5	38	9.27	3.60	2.61	16.4	4	33.0	E.2	10.4	24.4	115	108
MAY													
21...	14.0	43	10.2	4.19	2.64	23.4	10	43.5	.2	9.6	17.8	134	122
AUG													
21...	21.5	41	9.66	4.14	3.48	21.9	14	46.8	.2	9.8	16.6	134	123
21...	--	*41*	*9.70*	*4.10*	*3.70*	*24.0*	*12*	*45.0*	*.3*	--	*16.0*	*160*	*112*
21...	--	*42*	*9.90*	*4.20*	*3.80*	*24.0*	*11*	*45.0*	*.4*	--	*16.0*	*150*	*112*

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV													
21...	.080	.23	.06	.28	.723	<.003	.95	1.0	.065	E.002	--	--	.057
FEB													
15...	.220	.28	.17	.26	1.26	.006	1.5	1.5	.186	E.002	--	--	.051
MAY													
21...	.090	.24	.10	.37	1.07	.013	1.3	1.4	.114	E.003	--	--	.075
AUG													
21...	<.030	.22	<.03	.27	.525	<.003	.74	.80	.077	.008	<.020	<.020	.064
21...	*.059*	*.33*	*.04*	*.29*	*.380*	*<.050*	*.71*	*.67*	--	*.014*	*.014*	*.017*	*.052*
21...	*.042*	*.40*	*.05*	*.45*	*.390*	*<.050*	*.79*	*.84*	--	*.039*	*.015*	*.016*	*.044*

E Estimated value.
< Actual value is known to be less than the value shown.

01405340 MANALAPAN BROOK AT FEDERAL ROAD, NEAR MANALAPAN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV								
21...	.8	<.1	1.9	.8	2.3	--	21	7
FEB								
15...	.9	<.1	1.2	.9	<1.0	--	13	12
MAY								
21...	1.2	<.1	1.7	1.2	E1.4	4.90	21	10
AUG								
21...	.5	<.1	2.9	.5	E1.4	2.00	25	5
21...	--	--	*2.1*	--	--	--	*36*	*6*
21...	--	--	*2.2*	--	--	--	*47*	*6*

DATE	TIME	SAMPLE TYPE	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)
AUG												
21...	0950	ENVIRONMENTAL	--	--	--	--	--	--	<2	27.3	E.03	26
21...	0950	BED MATERIAL	5.60	210	1.2	1700	4.0	.3	--	--	--	--
21...	*0950*	*SPLIT REPLICATE*	--	--	--	--	--	--	*<2*	*30.0*	*<1.30*	*42*
21...	*0951*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	*<2*	*30.0*	*<1.30*	*42*

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)
AUG													
21...	E.02	<1	.8	1200	<1	46	<.01	3	<.4	<.05	6	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	2	3.4
21...	*<1.00*	*<2*	*<2.5*	*1300*	*<2*	*50*	--	*<5*	*<1.8*	*<1.50*	*<8*	--	--
21...	*<1.00*	*<2*	*<2.5*	*1300*	*<2*	*51*	--	*<5*	*<1.8*	*<1.50*	*<8*	--	--

DATE	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MATERIAL AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)
AUG													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	17	2.5	6	38000	7.0	71	<.01	.1	<1	40	<50	<50	<50
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)
AUG													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	<50	<50	<50	<50	E10	M	M	M	M	M	E10	E10	E10
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)
AUG													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	<50	<50	<50	<50	<50	<50	<50	<5	<50	<50	<50	<50	<50
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG		
21...	--	--
21...	E20	2
21...	--	--
21...	--	--

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB													
15...	0900	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB													
15...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB									
15...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY													
21...	1010	<.004	<.002	<.005	.008	<.010	E.277	<.020	<.005	<.018	<.003	E.003	<.005

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
21...	<.005	<.002	<.004	<.035	<.027	<.050	E.011	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
21...	<.011	<.016	E.014	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG				
01...	0945	330	100	310
08...	0940	170	200	470
15...	0930	330	400	470
22...	0930	170	200	410
29...	0900	330	200	700

E Estimated value.

< Actual value is known to be less than the value shown.

01407617 WHALE POND BROOK AT LARCHWOOD AVENUE, AT OAKHURST, NJ

LOCATION.--Lat 40°16'31", long 74°00'37", Monmouth County, Hydrologic Unit 02030104, at bridge on Larchwood Avenue at Oakhurst, 0.6 mi upstream of Lake Takanassee, and 1.1 mi south of West Long Branch.

DRAINAGE AREA.--5.25 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV 15...	0945	--	.073	.064	761	79	9.0	6.8	134	--	9.5	30	9.10
FEB 07...	0930	--	.026	.020	770	83	10.7	6.2	465	3.5	5.0	39	11.5
MAY 17...	1000	11	.018	.013	766	93	9.9	6.7	157	15.0	13.0	36	10.9
AUG 28...	1000	7.0	.075	.060	762	75	7.2	6.6	149	26.0	17.5	39	12.1

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV 15...	1.83	2.26	8.5	14	15.8	E.1	13.4	14.1	83	75	<.030	.12	<.03
FEB 07...	2.52	2.96	62.8	5	115	<.2	9.9	15.5	247	225	.050	E.09	.06
MAY 17...	2.14	2.33	10.9	16	22.5	<.2	14.1	14.6	118	90	.040	.14	.05
AUG 28...	2.01	2.65	9.1	20	19.7	<.2	15.0	12.6	100	85	.040	.18	.05

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV 15...	.38	.460	<.003	.58	.84	.053	E.003	.024	.7	<.1	2.1	.7	E1.3
FEB 07...	.30	.498	<.003	--	.80	.123	E.002	.049	2.0	<.1	1.3	2.0	<1.0
MAY 17...	.24	.560	<.003	.70	.80	.050	.004	.038	.7	<.1	.97	.7	<1.0
AUG 28...	.21	E.574	.004	--	--	.046	E.003	.033	.6	<.1	1.5	.6	E1.3

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 15...	--	27	10
FEB 07...	--	18	12
MAY 17...	.700	15	2
AUG 28...	.500	25	3

E Estimated value.
< Actual value is known to be less than the value shown.

01407617 WHALE POND BROOK AT LARCHWOOD AVENUE, AT OAKHURST, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
AUG													
28...	1000	--	--	--	--	--	--	<2	31.0	.17	27	.14	<1
28...	1000	6.80	190	.6	910	5.1	<.2	--	--	--	--	--	--

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)
AUG													
28...	.7	1520	<1	55	<.01	7	<.4	<.05	30	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	1	.3	46	2.1

DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MATERIAL AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	4	29000	23	23	<.01	9.0	<1	70	E30	<50	E20	M	M

DATE	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	E10	E50	210	220	240	150	230	280	E40	600	170	<50	<50

DATE	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	M	<50	M	<50	<50	E4	<50	E20	280	<50	E10	440	2

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB													
07...	0930	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01407617 WHALE POND BROOK AT LARCHWOOD AVENUE, AT OAKHURST, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB													
07...	<.10	<.2	<.10	.80	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	1.3

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB									
07...	<.2	<.20	<.10	<.10	<.1	<.10	5.88	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY													
17...	1000	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
17...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
17...	<.011	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
02...	0830	230	200	320	23...	0900	230	400	640
09...	0835	490	200	580	30...	0840	230	200	330

< Actual value is known to be less than the value shown.

01407760 JUMPING BROOK NEAR NEPTUNE CITY, NJ

LOCATION.--Lat 40°12'13", long 74°03'58", Monmouth County, Hydrologic Unit 02030104, 60 ft downstream from dam on Jumping Brook Reservoir, 0.8 mi upstream from mouth, and 1.4 mi west of Neptune City.

DRAINAGE AREA.--6.46 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
29...	1100	8.6	--	.172	.134	764	85	10.4	6.5	185	14.0	7.0	40
FEB													
08...	1020	8.2	--	.145	.112	774	93	12.8	6.7	552	7.0	3.0	45
MAY													
01...	0910	4.5	--	.113	.088	765	94	9.9	6.7	257	25.5	13.0	42
AUG													
14...	0900	14	34	.284	.220	757	91	7.8	6.4	158	24.5	22.5	28

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
29...	12.2	2.46	2.92	14.0	13	21.9	E.1	8.7	25.7	110	97	.260	.58
FEB													
08...	13.7	2.73	3.31	78.1	8	139	<.2	6.1	23.8	290	273	.130	.28
MAY													
01...	12.3	2.71	2.63	28.8	10	48.1	<.2	7.1	25.1	149	135	.070	.21
AUG													
14...	8.23	1.74	2.77	15.2	6	23.6	<.2	5.1	21.6	87	84	.080	.41

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
29...	.28	.67	.191	<.003	.77	.86	.132	<.050	<.060	1.8	<.1	4.1	1.8
FEB													
08...	.12	.35	.385	.004	.66	.74	.101	.004	.023	1.5	<.1	3.7	1.5
MAY													
01...	.08	.26	.413	<.003	.62	.68	.124	E.002	.018	1.1	<.1	3.0	1.1
AUG													
14...	.09	.63	.436	.004	.85	1.1	.172	.016	.071	1.7	<.1	6.7	1.7

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
29...	E1.5	--	39	5
FEB				
08...	<1.0	--	17	8
MAY				
01...	E1.7	9.60	25	10
AUG				
14...	E1.4	10.9	34	6

E Estimated value.
< Actual value is known to be less than the value shown.

01407760 JUMPING BROOK NEAR NEPTUNE CITY, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
02...	0905	230	200	350	23...	0930	700	900	210
09...	0910	170	200	270	30...	0910	230	400	70

01407806 HANNABRAND BROOK AT OLD MILL ROAD, NEAR SPRING LAKE HEIGHTS, NJ

LOCATION.--Lat 40°08'36", long 74°03'14", Monmouth County, Hydrologic Unit 02030104, at bridge on Old Mill Road, 650 ft upstream from mouth, and 1.0 mi southwest of Spring Lake Heights.

DRAINAGE AREA.--3.13 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

REMARK.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

COOPERATION.--Field data and sample for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV 14...	1000	--	.139	.111	761	88	9.6	6.5	148	--	11.5	33	7.83
FEB 01...	1000	--	.129	.103	763	89	11.4	7.3	227	5.0	5.0	34	8.36
MAY 17...	1000	1.9	.091	.072	765	89	9.3	6.8	180	18.0	13.5	36	8.72
AUG 14...	0900	17	.345	.269	760	83	7.3	6.1	130	23.5	21.5	24	5.81

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV 14...	3.27	2.53	11.1	13	18.6	<.2	7.1	15.1	81	79	.080	.28	.07
FEB 01...	3.24	2.44	24.4	11	41.9	<.2	5.9	15.2	113	115	.100	.18	.14
MAY 17...	3.54	2.09	15.9	12	28.4	<.2	5.6	16.0	121	94	.050	.24	.05
AUG 14...	2.28	2.55	13.2	9	21.1	<.2	4.7	11.5	76	69	.060	.42	.06

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV 14...	.26	1.26	<.003	1.5	1.5	.033	.007	.014	.5	<.1	3.2	.5	E1.3
FEB 01...	.30	1.59	<.003	1.8	1.9	.080	.006	.020	.6	<.1	3.0	.6	E1.3
MAY 17...	.34	1.40	.004	1.6	1.7	.067	.006	.021	.6	<.1	2.1	.6	E1.0
AUG 14...	.59	.537	<.003	.95	1.1	.104	.020	.067	1.3	<.1	8.7	1.3	E1.2

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 14...	--	17	4
FEB 01...	--	E11	<1
MAY 17...	3.00	23	<1
AUG 14...	5.70	24	5

E Estimated value.
< Actual value is known to be less than the value shown.

01407806 HANNABRAND BROOK AT OLD MILL ROAD, NEAR SPRING LAKE HEIGHTS, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
AUG												
14...	*0800*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
14...	0900	ENVIRONMENTAL	--	--	--	--	--	--	<2	33.7	.13	23
14...	0900	BED MATERIAL	6.85	70	.4	100	42	<.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
AUG													
14...	--	--	*<.2*	--	--	*<.08*	--	--	*<.01*	--	*<.06*	--	--
14...	.23	<1	--	3.8	1050	--	3	40	--	.03	--	2	<.4
14...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA-TERIAL AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)
AUG													
14...	--	*<1*	--	--	--	--	--	--	--	--	--	--	--
14...	<.05	--	36	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	<1	.1	2.4	.4	2	1100	190	10	<.01	.9

DATE	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<1	8	<50	<50	<50	<50	<50	<50	<50	70	80	70	60

DATE	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	70	100	<50	180	60	<50	<50	<50	<50	<50	<50	<50	<5

DATE	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG								
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--1
14...	<50	<50	100	<50	<50	130	<1	1

< Actual value is known to be less than the value shown.

01407806 HANNABRAND BROOK AT OLD MILL ROAD, NEAR SPRING LAKE HEIGHTS, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB 01...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 01...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.5

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 01...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
MAY 17...	1000	<.004	<.002	<.005	E.006	<.010	<.041	<.020	<.005	<.018	<.003	E.005	.026

DATE	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)
MAY 17...	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	E.011

DATE	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 17...	.023	<.016	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

01407806 HANNABRAND BROOK AT OLD MILL ROAD, NEAR SPRING LAKE HEIGHTS, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
02...	0950	260	300	370	23...	1000	110	<100	70
09...	0930	490	200	600	30...	0940	330	300	520

< Actual value is known to be less than the value shown.

01408000 MANASQUAN RIVER AT SQUANKUM, NJ

LOCATION.--Lat 40°09'41", Long 74°09'18", revised, Monmouth County, Hydrologic Unit 02040301, 50 ft upstream from northbound bridge on County Highway 547 (Squankum Park Road) in Squankum, and 0.4 mi downstream from Marsh Bog Brook.

DRAINAGE AREA.--44.0 mi^2.

PERIOD OF RECORD.--Water years 1963-81, 1991 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1969 to September 1974.
pH: July 1969 to September 1974.
WATER TEMPERATURE: July 1969 to September 1974.
DISSOLVED OXYGEN: August 1969 to September 1974.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
15...	1000	51	--	.108	.086	761	80	9.4	7.0	188	--	8.5	58
FEB													
28...	0900	70	--	.043	.034	764	85	10.6	7.2	295	1.0	6.0	66
MAY													
16...	1000	33	7.3	.048	.039	762	91	9.6	7.5	240	20.0	13.0	81
AUG													
15...	0900	28	9.4	.105	.081	762	88	8.0	7.4	206	23.0	20.0	68

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
15...	18.8	2.76	3.41	8.0	27	18.8	.2	14.9	26.1	118	110	<.030	.18
FEB													
28...	20.8	3.40	2.59	27.2	21	49.6	E.1	14.2	32.5	166	165	.030	.12
MAY													
16...	26.8	3.40	2.75	10.6	39	23.6	.2	14.1	31.7	151	138	<.030	.17
AUG													
15...	22.8	2.60	3.08	8.9	38	17.4	E.1	12.8	26.7	124	119	<.030	.24

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
15...	<.03	.22	.300	<.003	.48	.52	.088	.004	.063	1.0	<.1	3.4	1.0
FEB													
28...	.04	.10	.578	<.003	.70	.67	.040	E.002	.034	.5	<.1	1.4	.5
MAY													
16...	<.03	.48	.333	<.003	.50	.82	.076	E.002	.031	.5	<.1	1.4	.5
AUG													
15...	<.03	.26	.310	<.003	.55	.57	.048	.011	.065	.6	<.1	2.9	.6

E Estimated value.
< Actual value is known to be less than the value shown.

MANASQUAN RIVER BASIN

01408000 MANASQUAN RIVER AT SQUANKUM, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
15...	2.8	--	26	8
FEB				
28...	<1.0	--	19	5
MAY				
16...	E1.3	8.80	25	5
AUG				
15...	<1.0	7.80	30	10

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
02...	0945	230	<100	150	23...	0900	790	300	280
09...	0920	490	100	530	30...	0937	2200	<100	310

E Estimated value.
< Actual value is known to be less than the value shown.

01408009 MINGAMAHONE BROOK NEAR EARLE, NJ

LOCATION.--Lat 40°12'45", long 74°10'07", Monmouth County, Hydrologic Unit 02040301, at bridge on Cranberry Bog Road, 0.6 mi upstream from Branch Mingamahone Brook, and 1.7 mi west of Earle.

DRAINAGE AREA.--3.32 mi^2.

PERIOD OF RECORD.--Water years 1971-74, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
14...	1310	3.0	--	.436	.364	752	75	8.4	6.6	128	--	10.0	33
FEB													
08...	1300	10	--	.171	.137	772	83	11.5	6.0	102	4.0	2.5	21
MAY													
01...	1020	4.5	--	.305	.258	764	79	8.4	6.4	125	26.5	13.0	33
AUG													
13...	1140	2.5	59	.249	.205	760	76	7.0	6.2	127	27.0	19.5	38

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
14...	10.6	1.52	1.94	5.6	12	11.8	<.2	15.8	17.6	86	72	<.030	.14
FEB													
08...	6.09	1.38	1.28	6.2	4	11.3	E.1	9.7	16.4	70	55	.050	E.09
MAY													
01...	10.4	1.60	1.90	6.5	10	12.0	E.1	14.0	19.8	84	72	.030	.14
AUG													
13...	12.7	1.50	1.77	5.4	20	10.5	<.2	16.7	16.4	93	78	.060	.20

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
14...	<.03	.26	.040	<.003	.18	.30	.382	.012	.097	12	<.1	3.9	12
FEB													
08...	.03	.13	.055	<.003	--	.19	.054	.005	.032	.8	<.1	3.6	.8
MAY													
01...	<.03	.22	E.019	<.003	--	--	.950	.004	.042	15	<.1	2.9	15
AUG													
13...	.09	.32	.043	<.003	.24	.36	.137	E.002	.065	3.1	<.1	3.5	3.1

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
14...	<1.0	--	16	30
FEB				
08...	2.2	--	E13	3
MAY				
01...	E1.4	1.10	15	31
AUG				
13...	E1.6	1.10	24	21

E Estimated value.
< Actual value is known to be less than the value shown.

01408009 MINGAMAHONE BROOK NEAR EARLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
02...	1015	220	200	50	23...	1035	790	500	100
09...	0950	340	100	190	30...	1000	330	300	120

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ

LOCATION.--Lat 40°06'35", long 74°13'10", Ocean County, Hydrologic Unit 02040301, at highway bridge on U.S. Route 9, 0.3 mi north of County Line Road in Lakewood, and 3.6 mi upstream from Muddy Ford Brook.

DRAINAGE AREA.--19.4 mi^2.

PERIOD OF RECORD.--Water years 1959-63, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
14...	1010	19	--	.288	.227	755	80	9.0	6.5	124	11.5	10.0	28
FEB													
07...	0900	68	--	.318	.246	766	86	11.9	6.3	342	4.5	2.0	27
MAY													
01...	1300	20	--	.240	.189	765	102	10.1	7.1	161	33.0	16.0	32
AUG													
14...	1140	33	9.6	.297	.232	757	66	5.7	6.6	128	30.0	22.5	27

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
14...	8.41	1.59	2.23	9.3	11	17.2	<.2	10	12.2	81	69	<.030	.28
FEB													
07...	8.20	1.56	1.71	50.3	5	87.2	<.2	5.6	11.3	192	170	.070	.23
MAY													
01...	9.82	1.85	2.32	15.9	13	28.8	<.2	5.6	13.5	102	89	<.030	.22
AUG													
14...	8.29	1.51	2.13	10.9	10	17.9	<.2	6.7	14.9	79	70	.030	.33

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
14...	<.03	.62	.253	<.003	.53	.87	.052	.014	.058	1.2	<.1	6.3	1.2
FEB													
07...	<.03	.33	.303	<.003	.53	.63	.056	.010	.024	.6	<.1	7.5	.5
MAY													
01...	<.03	.32	.646	<.003	.86	.96	.069	.012	.042	.8	<.1	4.7	.8
AUG													
14...	.08	.46	.416	<.003	.75	.87	.075	.016	.055	.9	<.1	7.0	.9

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
14...	<1.0	--	17	12
FEB				
07...	<1.0	--	E13	6
MAY				
01...	E1.8	5.40	24	9
AUG				
14...	<1.0	2.00	28	<1

E Estimated value.
< Actual value is known to be less than the value shown.

METEDECONK RIVER BASIN

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23...	0730	5400	4500	2800	06...	0830	790	100	380
30...	0830	330	300	280	13...	0815	460	<100	260
					19...	0810	2200	1400	530

< Actual value is known to be less than the value shown.

01408300 TOMS RIVER AT WHITESVILLE, NJ

LOCATION.--Lat 40°03'42", long 74°16'29", Ocean County, Hydrologic Unit 02040301, at bridge on South Hope Chapel Road, 0.5 mi south of Whitesville, 0.6 mi downstream of Dove Mill Lake, and 3.7 mi southwest of Lakewood.

DRAINAGE AREA.--45.2 mi^2.

PERIOD OF RECORD.--December 2000 to September 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
DEC													
13...	0900	--	.220	.173	778	89	12.3	5.8	95	-4.0	3.0	16	4.08
FEB													
08...	0900	--	.412	.321	775	86	12.1	5.5	117	3.0	2.0	13	3.32
MAY													
23...	0900	7.8	.403	.319	758	82	8.3	5.8	101	14.0	14.5	15	3.96
SEP													
13...	0900	3.8	.173	.138	764	80	7.9	6.3	105	20.5	16.0	19	5.11

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
DEC													
13...	1.29	2.01	8.2	4	14.1	<.2	6.7	9.6	62	50	.050	.18	.04
FEB													
08...	1.16	1.06	12.1	<1	20.6	<.2	4.8	9.4	76	--	.120	.22	.05
MAY													
23...	1.19	1.51	10.6	4	18.0	<.2	4.7	9.0	80	52	.040	.40	.03
SEP													
13...	1.49	1.85	10.2	7	18.0	<.2	6.5	8.3	63	58	<.030	.23	<.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
DEC													
13...	.30	.460	<.003	.64	.76	.121	.010	.018	.9	<.1	5.0	.9	E1.9
FEB													
08...	.25	.245	<.003	.47	.49	.090	.006	.021	1.1	<.1	9.2	1.1	E1.9
MAY													
23...	.67	.277	<.003	.67	.94	.151	.015	.061	2.0	<.1	8.1	2.0	2.2
SEP													
13...	.25	.438	<.003	.67	.69	<.022	.014	.031	.6	<.1	3.5	.6	E1.9

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
DEC			
13...	--	17	<1
FEB			
08...	--	E10	1
MAY			
23...	6.30	13	13
SEP			
13...	.800	15	4

E Estimated value.
< Actual value is known to be less than the value shown.

01408300 TOMS RIVER AT WHITESVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
SEP													
13...	0900	--	--	--	--	--	--	<2	35.9	E.04	16	.06	<1
13...	0900	6.00	30	.5	110	1.2	<.2	--	--	--	--	--	--

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)
SEP													
13...	E.4	610	<1	19	<.01	1	<.4	<.05	5	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	<1	<.03	2.1	.2

DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MATERIAL AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)
SEP													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	<2	1400	3.3	6.9	<.01	.9	<1	6	<50	<50	<50	<50	<50

DATE	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)
SEP													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	<50	<50	M	<50	M	M	M	M	<50	M	E10	<50	<50

DATE	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
SEP													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	<50	<50	<50	<50	<50	<5	<50	<50	<50	<50	<50	M	<1

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB													
08...	0900	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01408300 TOMS RIVER AT WHITESVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 08...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 08...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 23...	0900	E3.63	E.016	<.005	13.2	<.010	E.053	<.020	<.005	<.018	<.003	E.401	E.004

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY 23...	<.005	<.007	E.002	<.050	<.027	<.050	2.23	.007	<.002	<.007	<.005	<.010	E.123

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 23...	3.99	<.016	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23...	0750	9200	3000	1900	06...	0850	110	<100	40
30...	0900	330	300	100	13...	0830	50	<100	220
					19...	0825	3500	<100	250

< Actual value is known to be less than the value shown.

01408500 TOMS RIVER NEAR TOMS RIVER, NJ

LOCATION.--Lat 39°59'11", long 74°13'25", revised, Ocean County, Hydrologic Unit 02040301, at bridge on State Route 527 (Oak Ridge Parkway), 1.9 mi downstream from Union Branch, and 2.6 mi northwest of community of Toms River.

DRAINAGE AREA.--123 mi^2.

PERIOD OF RECORD.--Water years 1963 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1974 to September 1981.
WATER TEMPERATURE: November 1963 to May 1966, November 1974 to September 1981.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
DEC													
14...	0800	151	--	.197	.156	764	92	11.8	5.9	89	8.0	5.0	12
FEB													
27...	0900	236	--	.273	.212	768	91	11.7	5.4	90	6.0	5.0	11
MAY													
31...	0900	149	3.9	.302	.241	763	85	8.6	6.0	91	14.0	15.0	13
AUG													
16...	0900	139	3.5	.376	.302	765	80	7.2	5.9	93	23.5	21.0	13

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
DEC													
14...	2.79	1.34	1.34	9.3	3	11.3	<.2	5.7	10.6	54	47	.270	.42
FEB													
27...	2.71	1.15	1.08	9.5	2	13.7	<.2	4.5	9.6	54	46	.170	.31
MAY													
31...	2.84	1.34	1.18	10.2	3	13.9	<.2	4.7	9.1	85	48	.190	.48
AUG													
16...	2.99	1.42	1.59	10.0	3	13.7	<.2	5.3	9.8	60	50	.140	.62

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN,PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
DEC													
14...	.24	.51	.625	<.003	1.0	1.1	.173	.006	.020	2.0	<.1	4.7	1.9
FEB													
27...	.15	.41	.472	<.003	.78	.89	.050	.005	.013	.7	<.1	5.7	.7
MAY													
31...	.21	.53	.581	.003	1.1	1.1	.117	.012	.030	1.6	<.1	5.2	1.6
AUG													
16...	.70	.57	.630	.009	1.3	1.2	.114	.013	.029	1.2	<.1	6.3	1.2

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
DEC				
14...	<1.0	--	18	7
FEB				
27...	E1.1	--	16	3
MAY				
31...	E1.8	1.80	15	6
AUG				
16...	E1.9	1.50	17	2

E Estimated value.
< Actual value is known to be less than the value shown.

01408500 TOMS RIVER NEAR TOMS RIVER, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23...	0820	3500	480	700	06...	0915	40	100	50
30...	0925	330	100	40	13...	0850	170	<100	190
					19...	0855	2400	<100	450

< Actual value is known to be less than the value shown.

01408702 JAKES BRANCH AT DOVER ROAD, NEAR DOUBLE TROUBLE, NJ

LOCATION.--Lat 39°54'55", long 74°16'26", Ocean County, Hydrologic Unit 02040301, at bridge on Dover Road, 4.7 mi upstream of mouth, 3.0 mi northwest of Double Trouble, and 69 mi southeast of Whiting.

DRAINAGE AREA.--0.25 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)
NOV												
20...	1000	ENVIRONMENTAL	--	.563	.441	761	44	5.5	3.8	61	--	6.0
FEB												
21...	1000	ENVIRONMENTAL	--	.688	.537	760	51	6.4	4.1	77	8.5	5.5
MAY												
17...	1100	ENVIRONMENTAL	.7	.480	.382	760	19	2.0	3.7	47	15.3	12.5
AUG												
07...	1000	ENVIRONMENTAL	.6	.239	.194	760	21	2.0	4.1	40	24.0	17.5

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
20...	2	.26	.376	.12	3.9	6.6	<.2	4.9	4.0	35	<.030	.23	<.03
FEB													
21...	3	.36	.421	E.08	3.8	6.2	<.2	3.6	6.0	40	<.030	.21	.03
MAY													
17...	1	.16	.237	.10	3.0	6.0	<.2	4.8	2.6	36	<.030	.13	<.03
AUG													
07...	1	.11	.195	.15	2.9	5.1	<.2	5.9	2.4	17	.030	.11	.05

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)
NOV													
20...	.29	<.037	<.003	<.022	E.003	E.002	.3	<.1	11	.3	<1.0	--	E9
FEB													
21...	.24	<.037	<.003	<.022	E.003	.004	.5	<.1	14	.5	<1.0	--	<13
MAY													
17...	.17	<.037	<.003	.033	.004	.008	.4	<.1	8.2	.4	<1.0	.700	E8
AUG													
07...	.12	<.037	<.003	.042	<.004	<.004	<.1	<.1	3.8	<.1	<1.0	.100	E7

E Estimated value.
< Actual value is known to be less than the value shown.

01408702 JAKES BRANCH AT DOVER ROAD, NEAR DOUBLE TROUBLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV 20...	<1
FEB 21...	1
MAY 17...	<1
AUG 07...	1

DATE	TIME	SAMPLE TYPE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
AUG 07...	1000	ENVIRONMENTAL	<2	2.9	<.06	E7	<.04	<1	--	2.5	240	--
07...	*1000*	*FIELD BLANK*	--	--	--	--	--	--	*<.2*	--	--	*<.08*

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 07...	<1	E2	--	<.01	--	<1	2.7	<.05	--	6
07...	--	--	*<.01*	--	*<.06*	--	--	--	*<1*	--

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 21...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 21...	<.10	<.2	.30	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 21...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY													
17...	1100	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
17...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
17...	<.011	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY				
23...	0845	20	<100	<10
30...	1015	<20	<100	<10
JUN				
06...	1010	<20	<100	<10
13...	1000	<20	<100	10
19...	1015	220	<100	10

< Actual value is known to be less than the value shown.

01408830 CEDAR CREEK AT CEDAR CREST, NJ

LOCATION.--Lat 39°53'50", long 74°19'00", Ocean County, Hydrologic Unit 02040301, at bridge on Whiting-Lacey Road in Cedar Crest, 0.2 mi downstream from outlet of Bamber Lake, and 3.7 mi southeast of Keswick Grove.

DRAINAGE AREA.--20.1 mi^2.

PERIOD OF RECORD.--Water years 1977-78, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
02...	1000	30	--	.109	.088	760	98	11.3	4.9	26	8.9	9.0	4
FEB													
07...	1210	57	--	.334	.265	767	95	12.2	4.5	37	10.0	5.0	4
MAY													
09...	1100	45	1.6	.163	.131	767	94	9.1	4.8	28	18.0	17.5	3
AUG													
15...	0950	47	.8	.296	.234	761	97	8.3	4.9	29	25.5	23.0	4

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
02...	.73	.490	.31	2.4	2	4.0	<.2	5.6	2.5	22	17	<.030	<.10
FEB													
07...	.69	.476	.37	2.2	--	3.6	<.2	4.5	4.4	27	--	.030	.16
MAY													
09...	.54	.345	.26	2.4	<1	4.2	<.2	2.5	2.5	28	--	<.030	.11
AUG													
15...	.76	.488	.35	2.5	1	4.0	<.2	5.5	2.7	29	17	<.030	.21

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)
NOV													
02...	.04	E.07	<.037	<.003	<.022	<.004	<.004	.2	<.1	2.3	.2	2.4	--
FEB													
07...	.04	.21	E.019	.007	<.022	E.002	E.003	.2	<.1	6.6	.2	2.5	--
MAY													
09...	<.03	.14	<.037	<.003	.031	<.004	E.003	.4	<.1	3.4	.4	2.3	1.10
AUG													
15...	<.03	.17	<.037	<.003	<.022	E.003	E.004	.3	<.1	6.5	.3	<1.0	1.00

DATE	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV		
02...	E8	6
FEB		
07...	E10	4
MAY		
09...	E8	<1
AUG		
15...	E8	10

E Estimated value.
< Actual value is known to be less than the value shown.

01408830 CEDAR CREEK AT CEDAR CREST, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY				
23...	0915	<20	<100	10
30...	0955	<20	<100	10
JUN				
06...	0945	<20	<100	10
13...	0920	<20	<100	40
19...	0925	700	100	30

< Actual value is known to be less than the value shown.

01409375 MULLICA RIVER NEAR ATCO, NJ

LOCATION.--Lat 39°47'08", long 74°51'38", Camden County, Hydrologic Unit 02040301, at bridge on Jackson-Medford Road, and 1.8 mi northeast of CONRAIL railroad tracks and Atco Street in Atco.

DRAINAGE AREA.--3.22 mi^2.

PERIOD OF RECORD.--Water years 1977-78, 1991 to current year.

REMARKS.--Field data and samples for laboratory analyses were collected as part of the New Jersey Pinelands Commission Network. Site is in New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
NOV													
06...	1115	.44	--	760	95	11.0	6.9	101	10.0	9.0	17	3.92	1.79
FEB													
22...	1220	2.5	--	770	92	12.5	7.0	206	1.0	3.0	23	5.79	2.01
JUN													
07...	1040	1.1	1.8	757	95	8.1	6.9	146	24.5	23.0	21	5.13	1.92
SEP													
18...	0900	.23	--	758	84	7.6	--	121	26.0	20.0	15	2.64	1.96

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV									
06...	17.8	8.6	66	<.049	.35	.128	.48	<.018	.007
FEB									
22...	43.5	8.8	112	<.049	.30	.464	.77	<.018	.008
JUN									
07...	28.2	7.8	90	E.034	.44	.258	.70	<.020	.017
SEP									
18...	25.2	10.8	74	.088	.42	.105	.52	<.020	.014

E Estimated value.
< Actual value is known to be less than the value shown.

01409387 MULLICA RIVER AT OUTLET OF ATSION LAKE, AT ATSION, NJ

LOCATION.--Lat 39°44'25", long 74°43'37", Burlington County, Hydrologic Unit 02040301, at bridge on U.S. Route 206 in Atsion, at outlet of Atsion Lake, and 0.2 mi upstream from Wesickaman Creek.

DRAINAGE AREA.--26.7 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
28...	1240	32	--	.175	.137	761	95	11.4	4.8	35	15.0	7.5	5
FEB													
07...	0940	104	--	.256	.195	765	89	12.0	4.3	52	6.5	3.0	5
MAY													
07...	1120	30	2.4	.330	.255	775	94	8.9	5.5	45	16.0	19.0	5
AUG													
15...	1330	12	10	.502	.394	760	77	6.3	5.3	35	27.0	25.0	5

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
28...	1.01	.546	.64	2.5	1	4.9	<.2	5.6	4.0	29	21	<.030	.14
FEB													
07...	1.11	.583	.66	3.0	--	5.3	<.2	4.0	6.5	31	--	<.030	.26
MAY													
07...	1.17	.561	.73	3.3	<1	6.2	<.2	2.8	4.8	23	--	<.030	.18
AUG													
15...	1.19	.598	.63	2.7	2	4.3	<.2	4.4	4.4	34	20	.120	.39

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
28...	.03	.17	.143	<.003	.28	.31	.026	E.003	.007	.7	<.1	3.7	.7
FEB													
07...	<.03	.23	.105	<.003	.36	.33	<.022	E.003	.005	.4	<.1	6.2	.4
MAY													
07...	<.03	.29	.066	<.003	.24	.36	.184	<.004	.011	E2.2	<.1	6.3	E2.2
AUG													
15...	.10	.56	.050	<.003	.44	.61	.276	E.002	.022	6.4	<.1	8.5	6.4

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV				
28...	E1.3	--	14	3
FEB				
07...	E1.1	--	17	2
MAY				
07...	E1.7	4.80	13	5
AUG				
15...	<1.0	2.80	E12	11

E Estimated value.
< Actual value is known to be less than the value shown.

01409387 MULLICA RIVER AT OUTLET OF ATSION LAKE, AT ATSION, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
02...	1023	<20	<100	<10	09...	0932	20	<100	20
					30...	1040	120	<100	20

< Actual value is known to be less than the value shown.

0140940050 MULLICA RIVER AT CONSTABLE BRIDGE, NEAR BATSTO, NJ

LOCATION.--Lat 39°39'33", long 74°39'33", Burlington County, Hydrologic Unit 02040301, at Constable Bridge, 1.1 mi upstream of Sleeper Branch, and 1.3 mi north of Batsto.

DRAINAGE AREA.--47.0 mi^2.

PERIOD OF RECORD.--Water Years 1997 to 1998 and November 2000 to September 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
29...	1100	--	.372	.295	766	81	10.3	5.3	48	9.5	5.5	7	1.57
FEB													
21...	1045	--	.261	.200	764	83	10.4	4.8	53	10.0	6.0	7	1.50
JUN													
05...	1030	3.9	.353	.274	762	84	7.6	5.1	48	22.0	20.0	6	1.32
SEP													
05...	1100	8.4	.262	.205	764	79	7.0	5.5	40	25.5	21.5	6	1.30

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
29...	.861	1.00	4.0	1	6.0	<.2	5.8	5.4	43	26	E.030	.20	<.03
FEB													
21...	.798	.63	4.0	<1	6.9	<.2	4.0	6.7	35	--	.030	.14	.03
JUN													
05...	.743	.69	4.7	2	7.9	<.2	3.6	3.8	39	24	.030	.24	.03
SEP													
05...	.765	.64	3.6	2	6.1	<.2	4.8	4.6	40	23	<.030	E.26	.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV													
29...	.26	.109	<.003	.31	.37	.078	E.003	.007	1.4	<.1	7.4	1.4	E1.6
FEB													
21...	.21	.110	<.003	.25	.32	.042	E.002	.005	.8	<.1	5.7	.8	<1.0
JUN													
05...	.42	.041	<.003	.28	.46	.225	E.003	.014	3.9	<.1	7.5	3.9	<1.0
SEP													
05...	.47	E.054	<.003	--	--	.319	E.002	.015	6.6	<.1	4.9	6.6	<1.0

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV			
29...	--	14	<1
FEB			
21...	--	16	5
JUN			
05...	2.40	14	11
SEP			
05...	3.30	E10	18

E Estimated value.
< Actual value is known to be less than the value shown.

0140940050 MULLICA RIVER AT CONSTABLE BRIDGE, NEAR BATSTO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
SEP 05...	1100	M	15.2	<.06	13	E.02	<1	.7	5680	1	14	<.01	<1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
SEP 05...	<.4	<.05	4

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 21...	1045	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 21...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 21...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
JUN 05...	1030	<.004	<.002	<.005	E.004	<.010	<.041	<.020	.025	<.018	<.003	E.002	<.005

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
JUN													
05...	<.005	<.002	<.004	<.035	<.027	E.009	E.005	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
JUN					
05...	E.004	<.016	E.065	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
30...	1010	<20	<100	<10

E Estimated value.
< Actual value is known to be less than the value shown.

01409401 HAYS MILL CREEK AT ATCO, NJ

LOCATION.--Lat 39°45'32", long 74°53'02", Camden County, Hydrologic Unit 02040301, at bridge on U.S. Route 30, at outlet of Atco Lake in Atco, and 3.3 mi southeast of Berlin.

DRAINAGE AREA.--3.80 mi^2.

PERIOD OF RECORD.--Water years 1991 to current year.

REMARKS.--Field data and samples for laboratory analyses were collected as part of the New Jersey Pinelands Commission Network. Site is in New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
NOV													
06...	1030	1.6	--	760	82	9.3	6.8	105	10.0	9.5	20	4.10	2.31
FEB													
22...	1030	3.7	--	770	90	11.9	6.9	190	-2.0	4.0	27	6.33	2.74
JUN													
07...	1010	2.8	4.4	757	73	6.3	6.6	131	23.5	22.0	25	5.71	2.57
SEP													
18...	1000	1.9	--	758	74	6.9	--	105	26.5	18.5	21	4.08	2.60

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV									
06...	19.0	6.2	61	<.049	.74	.158	.89	<.018	.027
FEB									
22...	37.5	8.7	103	<.049	1.6	1.26	2.8	<.018	.176
JUN									
07...	23.1	6.9	84	E.037	.52	.426	.95	<.020	.024
SEP									
18...	19.6	6.5	62	E.035	.36	.108	.47	<.020	.010

E Estimated value.
< Actual value is known to be less than the value shown.

0140940200 HAYS MILL CREEK NEAR CHESILHURST, NJ

LOCATION.--Lat 39°45'02", long 74°50'28", Camden County, Hydrologic Unit 02040301, at bridge on Tremont Avenue in Wharton State Forest, 0.3 mi northeast of Burnt Mill Road, and 2.0 mi northeast of Chesilhurst.

DRAINAGE AREA.--7.13 mi^2.

PERIOD OF RECORD.--Water years 1991 to current year.

REMARKS.--Field data and samples for laboratory analyses were collected as part of the New Jersey Pinelands Commission Network. Site is in New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
NOV													
06...	1240	5.9	--	760	85	9.6	6.4	94	13.0	10.0	16	3.44	1.81
FEB													
22...	1130	11	--	770	91	11.9	6.4	134	-2.0	4.5	19	4.23	1.95
JUN													
07...	1150	9.1	2.0	758	86	8.4	6.6	112	25.5	16.5	18	4.18	1.95
SEP													
18...	1100	4.3	--	758	94	9.6	--	94	26.5	14.0	17	3.49	1.90

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV									
06...	15.6	5.2	57	<.049	.16	1.15	1.3	<.018	.006
FEB									
22...	23.4	7.1	80	E.040	.24	1.45	1.7	<.018	.006
JUN									
07...	18.7	5.3	69	E.034	.26	1.13	1.4	<.020	.013
SEP									
18...	16.5	4.6	53	<.050	.14	1.10	1.2	<.020	.007

E Estimated value.
< Actual value is known to be less than the value shown.

0140940370 SLEEPER BRANCH NEAR ATSION, NJ

LOCATION.--Lat 39°43'42", long 74°46'12", Camden County, Hydrologic Unit 02040301, at bridge on Burnt House Road, 500 ft downstream from Saltars Ditch, and 2.3 mi west of Atsion.

DRAINAGE AREA.--16.1 mi^2.

PERIOD OF RECORD.--Water years 1991 to current year.

REMARKS.--Field data and samples for laboratory analyses were collected as part of the New Jersey Pinelands Commission Network. Site is in New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
NOV													
06...	1400	12	--	758	89	10.2	6.4	66	15.5	9.0	11	2.23	1.35
FEB													
22...	1220	23	--	771	87	11.5	4.7	75	-3.5	4.0	11	2.37	1.27
JUN													
07...	0920	16	3.1	760	86	8.4	6.5	68	21.0	16.5	12	2.45	1.41
SEP													
18...	0940	9.1	--	761	91	9.7	6.7	74	19.5	12.5	12	2.48	1.52

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV									
06...	10.3	3.8	41	<.049	.14	.702	.84	<.018	.005
FEB									
22...	13.1	5.8	56	<.049	.25	.784	1.0	<.018	.008
JUN									
07...	11.8	3.7	52	<.050	.27	.686	.96	<.020	.013
SEP									
18...	11.2	3.3	44	<.050	.12	.775	.90	<.020	.004

< Actual value is known to be less than the value shown.

0140940480 CLARK BRANCH NEAR ATSION, NJ

LOCATION.--Lat 39°42'53", long 74°46'25", Camden County, Hydrologic Unit 02040301, at railroad bridge, 0.2 mi downstream from Price Branch tributary, and 2.8 mi west of Atsion.

DRAINAGE AREA.--6.42 mi^2.

PERIOD OF RECORD.--Water years 1991 to current year.

REMARKS.--Field data and samples for laboratory analyses were collected as part of the New Jersey Pinelands Commission Network. Site is in New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
NOV													
06...	1300	.21	--	757	48	5.5	5.0	38	15.0	9.0	7	1.41	.779
FEB													
22...	1110	6.2	--	771	77	10.9	4.5	62	-3.0	1.5	12	2.47	1.40
JUN													
07...	1030	2.4	.6	760	54	5.3	4.9	48	22.0	16.0	8	1.61	.863

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV									
06...	5.3	2.9	46	E.034	.56	<.037	--	<.018	.020
FEB									
22...	7.6	10.0	48	<.049	.21	.140	.35	<.018	.005
JUN									
07...	8.9	3.2	47	E.043	.34	E.026	--	<.020	.006

E Estimated value.
< Actual value is known to be less than the value shown.

01409408 PUMP BRANCH NEAR WATERFORD WORKS, NJ

LOCATION.--Lat 39°41'59", long 74°50'40", Camden County, Hydrologic Unit 02040301, at bridge on Old White Horse Pike, 0.5 mi downstream from lake at Camp Ha-Lu-Wa-Sa, and 1.6 mi south of Waterford Works.

DRAINAGE AREA.--9.78 mi^2.

PERIOD OF RECORD.--Water years 1991 to current year.

REMARKS.--Field data and samples for laboratory analyses were collected as part of the New Jersey Pinelands Commission Network. Site is in New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
NOV													
06...	0915	2.7	--	760	63	7.3	6.2	79	9.0	9.0	16	2.84	2.28
FEB													
22...	0920	9.3	--	771	75	10.1	6.4	115	-2.0	3.5	18	3.25	2.30
JUN													
07...	0920	17	8.2	758	59	5.2	6.4	92	25.0	21.5	19	3.52	2.42
SEP													
18...	1130	5.0	--	758	56	5.2	--	78	27.0	18.5	16	2.61	2.32

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV									
06...	13.3	3.0	49	E.026	.25	.654	.91	<.018	.010
FEB									
22...	20.2	3.9	67	E.030	.34	1.33	1.7	<.018	.015
JUN									
07...	14.6	2.9	56	.148	.61	.492	1.1	<.020	.032
SEP									
18...	14.0	2.2	49	E.028	.50	.155	.65	<.020	.015

E Estimated value.
< Actual value is known to be less than the value shown.

0140940950 BLUE ANCHOR BROOK AT ELM, NJ

LOCATION.--Lat 39°40'11", long 74°50'06", Camden County, Hydrologic Unit 02040301, at bridge on U.S. Route 30 at Elm, at outlet of Winslow Lake, and 1.4 mi upstream from confluence with Pump Branch.

DRAINAGE AREA.--4.86 mi^2.

PERIOD OF RECORD.--Water years 1991 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

REMARKS.--Field data and samples for laboratory analyses on dates: Nov. 6, Feb. 22, Jun. 7, and Sept. 18, were collected as part of the New Jersey Pinelands Commission Network.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Mixed Land Use Indicator and New Jersey Pinelands Commission Network site, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
06...	0940	1.6	--	--	--	758	88	10.3	6.9	75	15.5	8.5	14
27...	1050	5.2	--	.075	.060	750	--	11.3	6.9	--	11.5	7.5	13
FEB													
20...	0930	3.5	--	.135	.107	764	99	13.0	6.6	93	12.5	4.0	15
22...	0920	3.2	--	--	--	770	95	12.3	7.0	82	-2.0	5.0	15
MAY													
07...	0920	2.9	1.7	.224	.179	773	93	8.7	7.4	82	15.5	19.5	15
JUN													
07...	1310	2.3	1.9	--	--	760	102	8.3	7.6	70	26.5	25.5	16
AUG													
20...	1040	1.5	2.6	.154	.120	755	89	6.9	6.9	70	31.0	28.0	12
SEP													
18...	1240	.65	--	--	--	758	92	8.0	6.2	72	27.0	22.0	13

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
06...	2.96	1.58	--	--	--	9.7	--	--	7.4	41	--	.087	--
27...	2.80	1.44	1.62	5.8	8	8.9	<.2	1.5	6.4	40	34	<.030	.18
FEB													
20...	3.49	1.54	2.26	7.8	9	11.7	<.2	3.5	6.6	58	45	.040	.18
22...	3.46	1.56	--	--	--	12.1	--	--	7.6	54	--	E.037	--
MAY													
07...	3.32	1.73	1.83	6.9	14	11.5	<.2	1.9	5.6	52	41	.030	.34
JUN													
07...	3.44	1.74	--	--	--	9.6	--	--	4.9	51	--	.058	--
AUG													
20...	2.46	1.53	1.08	7.2	9	10.7	<.2	E.4	4.6	40	33	.030	.40
SEP													
18...	2.57	1.54	--	--	--	10.7	--	--	6.2	45	--	.139	--

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
NOV													
06...	--	.32	.059	--	--	.38	--	--	<.018	.020	--	--	--
27...	<.03	.25	.247	<.003	.42	.49	.028	.006	--	.018	.3	<.1	2.0
FEB													
20...	.06	.25	.623	<.003	.80	.87	.108	.007	--	.019	.8	<.1	2.7
22...	--	.32	.530	--	--	.85	--	--	<.018	.024	--	--	--
MAY													
07...	.04	.45	<.037	<.003	--	--	.066	.010	--	.021	E.5	<.1	4.9
JUN													
07...	--	.43	<.037	--	--	--	--	--	<.020	.024	--	--	--
AUG													
20...	.04	.53	E.034	<.003	--	--	.130	.011	--	.033	.8	<.1	4.2
SEP													
18...	--	.48	E.021	--	--	--	--	--	<.020	.025	--	--	--

E Estimated value.
< Actual value is known to be less than the value shown.

0140940950 BLUE ANCHOR BROOK AT ELM, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV					
06...	--	--	--	--	--
27...	.3	E1.5	--	14	3
FEB					
20...	.8	E1.3	--	18	5
22...	--	--	--	--	--
MAY					
07...	E.5	2.8	4.80	18	5
JUN					
07...	--	--	--	--	--
AUG					
20...	.8	E1.3	14.2	17	7
SEP					
18...	--	--	--	--	--

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN				
06...	1115	<20	<100	<10
20...	0915	<20	<100	<10
27...	1115	<20	<100	<10
JUL				
05...	1140	<20	<100	10

E Estimated value.
< Actual value is known to be less than the value shown.

0140940970 ALBERTSON BRANCH NEAR ELM, NJ

LOCATION.--Lat 39°41'34", long 74°48'24", Camden County, Hydrologic Unit 02040301, at bridge on Fleming Pike, 0.4 mi downstream from confluence of Blue Anchor Brook and Pump Branch, and 1.6 mi northeast of Elm.

DRAINAGE AREA.--17.1 mi^2.

PERIOD OF RECORD.--Water years 1991 to current year.

REMARKS.--Field data and samples for laboratory analyses were collected as part of the New Jersey Pinelands Commission Network. Site is in New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
NOV													
06...	1110	12	--	758	79	9.3	6.3	74	15.5	8.0	16	2.86	2.06
FEB													
22...	0950	20	--	771	84	11.3	6.4	88	-3.0	3.5	16	3.23	1.94
JUN													
07...	1150	20	1.3	760	83	7.6	6.6	76	24.0	19.5	17	3.38	2.11
SEP													
18...	1140	8.9	--	761	82	8.3	6.5	79	23.0	15.0	16	2.90	2.13

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV									
06...	10.7	5.7	43	E.024	.22	.623	.84	<.018	.006
FEB									
22...	14.3	6.2	59	E.026	.21	1.06	1.3	<.018	.006
JUN									
07...	11.8	4.3	51	.077	.28	.407	.69	<.020	.012
SEP									
18...	11.6	4.0	46	<.050	.23	.328	.56	<.020	.006

E Estimated value.
< Actual value is known to be less than the value shown.

01409416 HAMMONTON CREEK AT WESCOATVILLE, NJ

LOCATION.--Lat 39°38'02", long 74°43'05", Atlantic County, Hydrologic Unit 02040301, at bridge on Chestnut Road in Wescoatville, 1.1 mi southwest of Nesco, 1.7 mi upstream from Norton Branch, and 3.8 mi southwest of Batsto.

DRAINAGE AREA.--9.57 mi^2.

PERIOD OF RECORD.--Water years 1974 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

REVISIONS.--WDR NJ-83-1: Drainage area.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Mixed Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 27...	1120	34	--	.436	.350	752	65	7.3	5.8	102	13.0	9.5	21
FEB 08...	1210	26	--	.132	.103	772	80	10.4	5.3	139	5.0	5.0	27
MAY 30...	1150	16	4.0	.199	.159	760	72	7.0	6.4	124	24.0	16.5	22
AUG 20...	1400	7.4	4.8	.156	.127	758	83	7.2	6.4	138	28.0	22.0	21

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 27...	4.59	2.20	4.40	6.3	6	11.7	E.1	5.4	11.9	78	54	<.030	.43
FEB 08...	6.31	2.66	3.94	9.9	6	18.1	E.1	5.6	14.2	82	75	.040	.26
MAY 30...	5.10	2.26	3.79	9.9	12	16.9	E.1	6.1	10.8	76	67	.100	.47
AUG 20...	4.98	2.00	4.31	14.5	18	19.9	E.1	7.9	10.3	82	77	<.030	.34

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV 27...	.04	.51	.942	<.003	1.4	1.5	.128	.107	.168	1.5	<.1	10	1.5
FEB 08...	.04	.36	2.36	.006	2.6	2.7	.089	.016	.044	.8	<.1	3.8	.8
MAY 30...	.12	1.0	1.07	.013	1.5	2.1	.055	.163	.255	.6	<.1	4.6	.6
AUG 20...	<.03	.39	.596	<.003	.94	.99	.121	.137	.215	.9	<.1	4.0	.9

E Estimated value.
< Actual value is known to be less than the value shown.

01409416 HAMMONTON CREEK AT WESCOATVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
27...	2.2	--	31	2
FEB				
08...	<1.0	--	29	2
MAY				
30...	E1.4	1.50	35	4
AUG				
20...	<1.0	10.0	57	6

E Estimated value.
< Actual value is known to be less than the value shown.

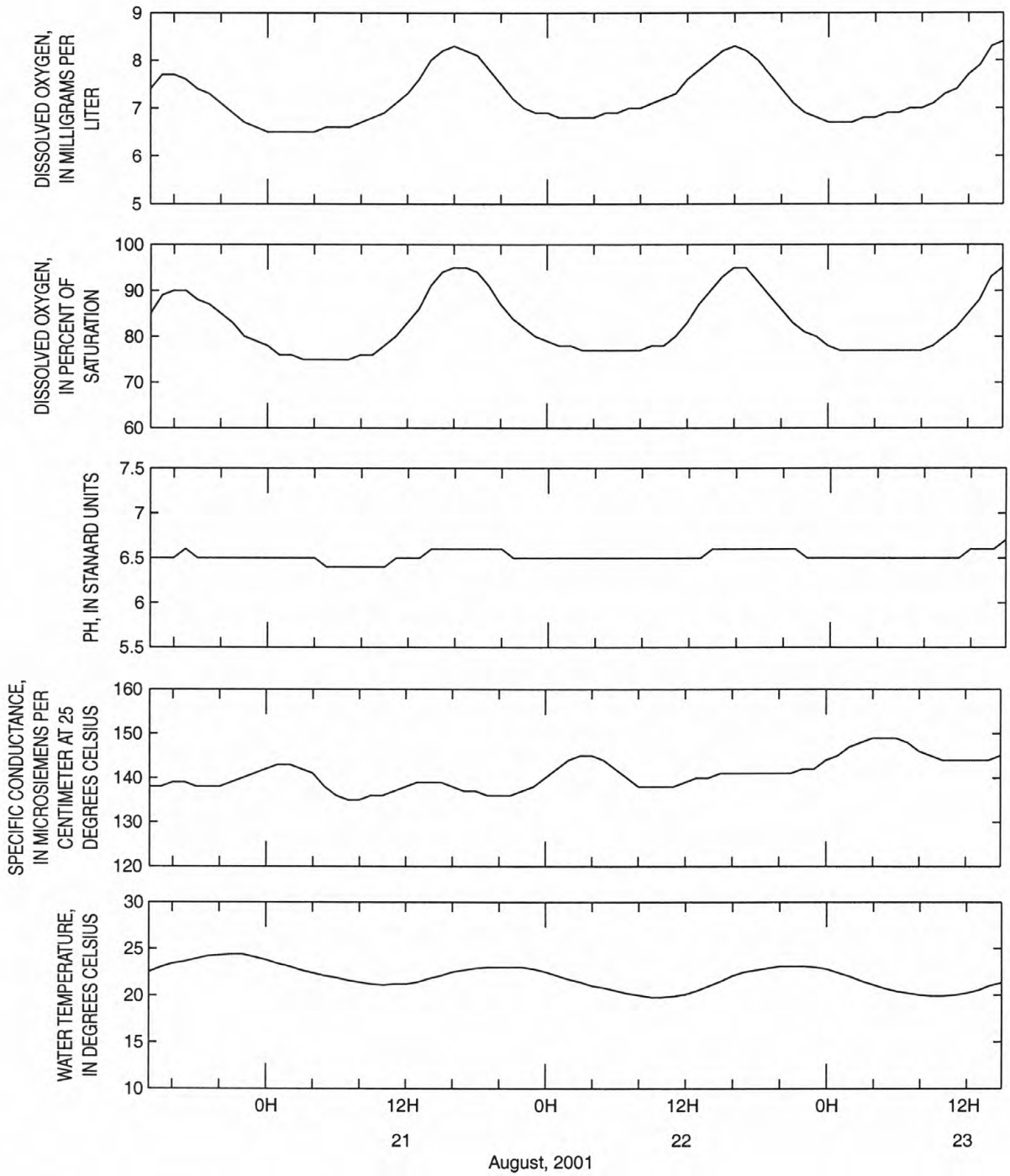


Figure 47. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01409416 Hammonton Creek at Wescoatville, water year 2001.

01409435 SKIT BRANCH NEAR HAMPTON GATE, NJ

LOCATION.--Lat 39°47'09", long 74°39'31", Burlington County, Hydrologic Unit 02040301, at bridge on Carranza Road, 0.2 mi upstream from confluence with Roberts Branch, 1.6 mi southeast of Hampton Gate, and 1.6 mi northeast of Hampton Furnace.

DRAINAGE AREA.--4.91 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
21...	1100	--	.071	.058	760	82	10.6	5.0	26	--	4.5	2	.32
FEB													
06...	1130	--	.425	.326	761	86	11.6	4.2	51	7.0	3.0	2	.35
MAY													
16...	1030	1.8	.134	.104	760	74	7.3	4.8	22	22.0	16.0	2	.29
AUG													
23...	1100	2.6	.153	.120	761	62	5.5	5.0	19	31.0	21.0	2	.29

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
21...	.252	.30	1.5	<1	2.8	<.2	5.4	3.1	13	--	.040	E.07	<.03
FEB													
06...	.227	E.18	2.0	--	3.5	<.2	3.5	5.3	33	--	.030	.16	.04
MAY													
16...	.221	.34	1.3	<1	2.9	<.2	5.1	2.3	19	--	<.030	E.10	<.03
AUG													
23...	.240	.44	1.5	1	3.6	<.2	5.1	1.7	25	14	<.030	.12	<.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)
NOV													
21...	.10	<.037	<.003	.072	<.004	<.004	.6	<.1	1.5	.6	<1.0	--	E12
FEB													
06...	.16	<.037	.027	.044	E.003	.004	.6	<.1	9.6	.6	<1.2	--	<13
MAY													
16...	.19	E.018	<.003	.141	<.004	.006	3.0	<.1	3.0	3.0	E1.5	1.40	<13
AUG													
23...	.28	E.026	<.003	.261	<.004	.008	5.3	<.1	3.0	5.3	<1.0	2.00	<13

DATE	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV	
21...	<1
FEB	
06...	2
MAY	
16...	6
AUG	
23...	16

E Estimated value.
< Actual value is known to be less than the value shown.

01409435 SKIT BRANCH NEAR HAMPTON GATE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG 23...	1100	E1	11.9	<.06	8	E.03	<1	E.4	4970	<1	9	<.01	<1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 23...	<.4	<.05	4

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 06...	1130	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 06...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 06...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 16...	1030	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

E Estimated value.
< Actual value is known to be less than the value shown.

01409435 SKIT BRANCH NEAR HAMPTON GATE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
16...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
16...	<.011	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
02...	0832	<20	<100	40
09...	1044	<20	<100	10
30...	0900	<20	<100	20

< Actual value is known to be less than the value shown.

01409500 BATSTO RIVER AT BATSTO, NJ

LOCATION.--Lat 39°38'33", long 74°39'00", Burlington County, Hydrologic Unit 02040301, at bridge on County Highway 542 at Batsto, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--67.8 mi^2.

PERIOD OF RECORD.--Water years 1925, 1956, 1962-63, 1976 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
16...	1100	79	--	.199	.157	764	86	10.2	5.8	49	--	8.0	10
FEB													
22...	1030	70	--	.196	.150	774	80	10.7	4.9	52	-2.5	4.0	9
MAY													
15...	1030	86	3.7	.262	.208	758	81	8.1	5.7	37	25.0	15.0	7
AUG													
29...	1000	64	2.5	.090	.072	762	75	6.4	5.3	23	29.0	23.5	3

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
16...	2.06	1.10	1.35	3.2	3	6.6	<.2	6.1	5.9	36	28	<.030	.15
FEB													
22...	2.02	1.07	.93	3.3	<1	6.4	<.2	4.3	8.1	36	--	.040	.11
MAY													
15...	1.45	.770	.70	3.0	3	5.3	<.2	3.2	3.6	33	20	<.030	.19
AUG													
29...	.62	.409	.47	1.9	2	3.2	<.2	4.7	2.6	24	15	<.030	E.07

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
16...	<.03	.17	.096	<.003	.25	.26	.080	E.003	.004	1.1	<.1	4.3	1.1
FEB													
22...	.05	.20	.273	<.003	.39	.47	.048	.004	.011	.7	<.1	4.3	.7
MAY													
15...	<.03	.33	.042	<.003	.23	.37	.176	E.003	.022	2.7	<.1	4.4	2.7
AUG													
29...	<.03	.12	E.046	<.003	--	--	.092	<.004	.005	.9	<.1	2.0	.9

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV				
16...	E1.5	--	E10	5
FEB				
22...	<1.0	--	E11	4
MAY				
15...	E1.8	2.60	E11	1
AUG				
29...	<1.0	2.30	E10	6

E Estimated value.
< Actual value is known to be less than the value shown.

01409500 BATSTO RIVER AT BATSTO, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
02...	0950	<20	<100	<10	09...	0941	<20	<100	10
					30...	1010	<20	<100	<10

< Actual value is known to be less than the value shown.

01409815 WEST BRANCH WADING RIVER AT MAXWELL, NJ

LOCATION.--Lat 39°40'30", long 74°32'28", Burlington County, Hydrologic Unit 02040301, at bridge on County Highway 563 in Maxwell, 1.6 mi southeast of Washington, 1.8 mi southwest of Jenkins, and 2.2 mi upstream from confluence with Oswego River.

DRAINAGE AREA.--85.9 mi^2.

PERIOD OF RECORD.--Water years 1976-93, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
28...	0930	114	--	.299	.236	761	82	9.9	4.2	45	7.0	7.0	3
FEB													
08...	0930	351	--	.386	.300	773	86	11.7	3.7	48	3.5	3.0	3
MAY													
30...	0920	101	6.0	.301	.241	760	82	8.1	4.0	38	15.5	16.0	3
AUG													
23...	1130	53	6.2	.220	.179	762	94	8.5	3.9	38	30.5	20.5	3

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
28...	.62	.430	.93	2.3	--	4.2	<.2	6.1	5.9	30	<.030	.14	.04
FEB													
08...	.58	.359	.52	2.0	--	3.6	<.2	3.8	5.6	29	.100	.20	.12
MAY													
30...	.62	.378	.84	2.1	<1	4.1	<.2	4.7	4.3	26	.030	.13	<.03
AUG													
23...	.63	.378	1.07	2.4	<1	4.1	<.2	5.9	6.2	30	<.030	E.09	.08

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)
NOV													
28...	.21	<.037	<.003	.082	.004	.017	1.7	<.1	5.9	1.7	E1.4	--	13
FEB													
08...	.19	<.037	<.003	.040	.018	.033	.6	<.1	8.4	.6	<1.0	--	E10
MAY													
30...	.30	<.037	<.003	.149	.008	.093	2.8	<.1	5.0	2.8	E1.1	1.60	<13
AUG													
23...	.23	E.026	<.003	.150	<.004	.050	2.1	<.1	3.2	2.1	<1.0	3.60	E10

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV	
28...	<1
FEB	
08...	2
MAY	
30...	12
AUG	
23...	10

E Estimated value.
< Actual value is known to be less than the value shown.

01409815 WEST BRANCH WADING RIVER AT MAXWELL, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
02...	0908	310	<100	50	09...	1003	20	<100	<10
					30...	0954	<20	<100	40

< Actual value is known to be less than the value shown.

01410150 EAST BRANCH BASS RIVER NEAR NEW GRETNA, NJ

LOCATION.--Lat 39°37'23", long 74°26'30", Burlington County, Hydrologic Unit 02040301, at bridge on Stage Road, 0.7 mi west of Lake Absegami, 2.2 mi north of New Gretna, and 5.3 mi upstream from mouth.

DRAINAGE AREA.--8.11 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
28...	1100	23	--	.350	.278	762	69	8.4	4.5	50	--	7.0	4
FEB													
01...	1000	22	--	.217	.172	764	79	10.3	4.4	47	9.0	4.5	3
MAY													
30...	1030	13	.5	.159	.126	760	68	6.9	4.5	38	19.0	14.5	3
AUG													
28...	1000	12	.7	.118	.094	759	66	6.2	4.6	34	28.0	18.0	2

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
28...	.55	.629	.54	3.3	--	5.0	<.2	6.8	5.8	39	--	.040	.15
FEB													
01...	.50	.538	.51	3.0	1	4.7	<.2	6.1	5.3	27	21	.040	<.10
MAY													
30...	.38	.428	.32	2.7	<1	5.0	<.2	6.4	3.2	23	--	.060	E.07
AUG													
28...	.34	.395	.48	2.6	<1	4.9	<.2	9.3	3.7	34	--	.060	.11

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)
NOV													
28...	<.03	.15	<.037	<.003	<.022	<.004	E.002	.3	<.1	7.5	.3	<1.2	--
FEB													
01...	.03	.12	E.020	<.003	<.022	E.002	E.003	.3	<.1	4.5	.3	<1.0	--
MAY													
30...	.03	.08	<.037	<.003	.027	E.003	<.004	.3	<.1	3.0	.3	<1.0	1.10
AUG													
28...	<.03	.10	E.026	<.003	.088	<.004	E.003	.6	<.1	2.3	.6	<1.0	.700

DATE	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV		
28...	14	<1
FEB		
01...	E12	<1
MAY		
30...	<13	1
AUG		
28...	<13	1

E Estimated value.
< Actual value is known to be less than the value shown.

01410150 EAST BRANCH BASS RIVER NEAR NEW GRETNA, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
02...	0927	<20	<100	20	09...	1015	<20	<100	10
					30...	0940	<20	<100	10

< Actual value is known to be less than the value shown.

01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD, NEAR CECIL, NJ

LOCATION.--Lat 39°38'36", long 74°58'40", Gloucester County, Hydrologic Unit 02040302, at bridge on Blue Bell Road, 1.2 mi upstream of Timber Lakes and 2.0 mi west of Cecil.

DRAINAGE AREA.--4.51 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Mixed Land Use Indicator, New Jersey Department of Environmental Protection Watershed Mangagement Area 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
15...	1220	1.6	--	.144	.115	756	83	9.5	6.0	60	10.0	9.0	15
FEB													
20...	1230	4.6	--	.211	.166	764	87	10.9	6.0	67	18.0	6.0	15
MAY													
09...	1110	3.0	3.0	.241	.187	765	77	8.2	6.2	62	20.0	13.0	15
AUG													
22...	1250	1.4	2.8	.141	.114	760	101	8.8	6.4	62	27.5	22.0	15

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
15...	3.18	1.60	1.65	3.7	6	6.5	<.2	8.1	4.9	45	39	<.030	.16
FEB													
20...	3.38	1.69	1.58	3.8	5	6.8	<.2	5.7	7.5	50	38	<.030	.24
MAY													
09...	3.25	1.63	1.54	3.6	8	6.7	<.2	4.2	4.5	55	36	<.030	.24
AUG													
22...	3.16	1.68	1.59	3.5	7	6.6	<.2	7.4	4.9	52	39	<.030	.18

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
15...	<.03	.15	1.44	<.003	1.6	1.6	.044	.004	.010	.6	<.1	2.9	.6
FEB													
20...	.03	.21	1.14	<.003	1.4	1.4	.031	.007	.010	.3	<.1	4.5	.3
MAY													
09...	<.03	.32	1.23	<.003	1.5	1.5	.055	.004	.017	1.0	M	4.4	E1.0
AUG													
22...	<.03	.25	1.41	<.003	1.6	1.7	.064	.005	.018	.7	<.1	2.4	.7

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
15...	<1.0	--	E9	4
FEB				
20...	<1.0	--	E12	6
MAY				
09...	E1.4	11.7	E8	<1
AUG				
22...	<1.0	3.10	E12	11

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD, NEAR CECIL, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
10...	1100	20	200	210	07...	1040	90	100	390
17...	1055	330	<100	380					
24...	1135	790	700	220					
31...	1110	130	200	190					

< Actual value is known to be less than the value shown.

01411110 GREAT EGG HARBOR RIVER AT WEYMOUTH, NJ

LOCATION.--Lat 39°30'50", long 74°46'47", Atlantic County, Hydrologic Unit 02040302, at bridge on U.S. Route 322 in Weymouth, 0.5 mi upstream from Deep Run, and 20.9 mi upstream from mouth.

DRAINAGE AREA.--154 mi^2.

PERIOD OF RECORD.--Water years 1975 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, and total suspended solids was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
20...	1330	112	--	.169	.134	759	93	11.5	6.4	54	9.5	6.0	10
FEB													
21...	1230	269	--	.356	.275	762	90	11.1	5.0	68	10.0	6.5	11
MAY													
08...	1110	145	3.0	.282	.223	772	93	9.5	6.2	57	20.5	15.0	10
SEP													
05...	1140	75	1.5	.091	.072	763	87	8.2	6.6	53	24.0	18.5	9

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
20...	2.06	1.18	1.11	4.9	4	7.7	<.2	7.4	4.9	40	34	.070	.19
FEB													
21...	2.31	1.24	1.02	6.8	2	10.5	<.2	5.4	6.7	59	37	.060	.24
MAY													
08...	2.11	1.17	1.08	5.2	4	8.2	<.2	4.3	5.1	48	32	<.030	.23
SEP													
05...	1.93	1.11	1.00	4.9	5	7.5	<.2	6.0	4.7	42	30	<.030	E.16

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
20...	.08	.23	.467	<.003	.65	.70	<.022	.004	.009	.4	<.1	3.7	.4
FEB													
21...	.05	.28	.436	<.003	.68	.72	.144	.005	.013	.7	<.1	7.3	.7
MAY													
08...	.03	.32	.482	<.003	.71	.80	.084	.005	.024	1.2	<.1	5.2	1.2
SEP													
05...	<.03	.16	E.616	<.003	--	--	<.022	E.002	.012	.5	<.1	5.1	.5

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV				
20...	E1.1	--	31	<1
FEB				
21...	2.3	--	27	<1
MAY				
08...	E1.7	7.20	31	<1
SEP				
05...	<1.0	2.80	45	7

E Estimated value.
< Actual value is known to be less than the value shown.

01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ

LOCATION.--Lat 39°28'08", long 74°41'34", Atlantic County, Hydrologic Unit 02040302, at bridge on U.S. Route 322, 1.1 mi east from intersection of U.S. Route 50, 2.2 mi northeast of Mays Landing, and 2.8 mi upstream from Watering Race Branch.

DRAINAGE AREA.--16.3 mi^2.

PERIOD OF RECORD.--Water years 1965, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, and total suspended solids was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
20...	1110	8.1	--	.159	.126	760	78	10.0	4.5	47	6.0	5.0	8
FEB													
21...	1010	16	--	.461	.354	762	80	10.0	3.9	84	12.0	6.0	9
MAY													
08...	0920	12	1.7	.320	.251	772	81	9.0	4.5	58	16.5	11.0	7
AUG													
29...	1150	3.9	1.0	.079	.064	760	75	7.2	5.6	41	28.0	17.5	7

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
20...	1.36	1.02	.64	3.5	1	6.6	<.2	9.6	4.2	42	31	<.030	.11
FEB													
21...	1.81	1.13	.63	6.0	--	10.1	<.2	6.6	8.3	46	--	.030	.23
MAY													
08...	1.32	.935	.82	4.8	--	8.9	<.2	6.3	4.6	47	--	<.030	.18
AUG													
29...	1.25	1.05	.75	3.3	2	6.1	<.2	8.9	2.5	35	25	<.030	.11

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
20...	.50	.15	.658	<.003	.77	.81	.025	E.003	.005	.4	<.1	3.5	.4
FEB													
21...	.03	.24	.360	<.003	.59	.60	.036	.004	.007	.4	<.1	10	.4
MAY													
08...	<.03	.21	.498	<.003	.68	.71	<.022	E.003	.009	.6	<.1	6.3	.6
AUG													
29...	<.03	.12	E.850	<.003	--	--	.040	E.003	.008	.3	<.1	1.7	.3

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
20...	<1.0	--	E8	<1
FEB				
21...	E1.6	--	E9	3
MAY				
08...	E1.8	1.20	E11	<1
AUG				
29...	<1.0	.800	E10	1

E Estimated value.
< Actual value is known to be less than the value shown.

01411290 TUCKAHOE RIVER NEAR ESTELL MANOR, NJ

LOCATION.--Lat 39°22'19", long 74°51'14", Atlantic County, Hydrologic Unit 02040302, at bridge on Cumberland Avenue, at Atlantic-Cumberland County boundary, 0.8 mi upstream from Sharps Branch, and 2.8 mi west of Estell Manor.

DRAINAGE AREA.--8.78 mi^2.

PERIOD OF RECORD.--December 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, and total suspended solids was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
DEC													
13...	1000	--	.145	.116	781	80	11.5	5.8	33	-2.5	1.5	5	.85
FEB													
08...	1000	--	.435	.335	777	79	10.5	4.8	50	4.0	4.0	5	.79
MAY													
30...	1000	.8	.445	.349	761	85	8.2	4.8	33	--	17.0	4	.57
AUG													
09...	1000	1.1	.201	.164	763	83	6.7	5.7	38	31.0	26.5	5	.82

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
DEC													
13...	.728	.62	2.4	3	4.5	<.2	7.5	2.5	28	22	.050	.12	.06
FEB													
08...	.784	.54	2.4	--	3.9	<.2	6.9	6.1	42	--	.040	.24	.03
MAY													
30...	.601	.36	2.6	<1	4.4	<.2	6.0	2.0	33	--	<.030	.29	.05
AUG													
09...	.668	.84	2.5	3	4.5	<.2	7.0	1.4	31	20	.080	.35	.06

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
DEC													
13...	.19	.288	<.003	.41	.48	.042	E.003	.004	.5	<.1	3.3	.5	E1.1
FEB													
08...	.21	.117	.006	.36	.32	.069	.004	.007	.5	<.1	10	.5	<1.0
MAY													
30...	.30	.043	<.003	.33	.34	.039	.009	.005	.5	<.1	9.5	.5	1.5
AUG													
09...	.32	E.032	<.003	--	--	.087	.005	.005	.8	<.1	5.1	.8	3.0

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
DEC			
13...	--	E12	<1
FEB			
08...	--	14	1
MAY			
30...	1.50	E11	7
AUG			
09...	5.10	<13	2

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG 09...	1000	<2	16.7	E.04	10	.05	<1	E.6	150	<1	E3	<.01	<1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 09...	<.4	<.05	3

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 08...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 08...	<.10	<.2	.17	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 08...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 30...	1000	<.004	<.002	<.005	<.007	<.010	E.003	<.020	<.005	<.018	<.003	<.006	<.005

E Estimated value.
< Actual value is known to be less than the value shown.

01411290 TUCKAHOE RIVER NEAR ESTELL MANOR, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
30...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
30...	<.011	<.016	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

01411300 TUCKAHOE RIVER AT HEAD OF RIVER, NJ

LOCATION.--Lat 39°18'25", long 74°49'15", Cape May County, Hydrologic Unit 02040302, at highway bridge on State Route 49, 0.2 mi upstream from McNeals Branch, 0.4 mi southeast of Head of River, and 3.7 mi west of Tuckahoe.

DRAINAGE AREA.--30.8 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, and total suspended solids was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
28...	0945	--	.678	.542	765	78	9.4	4.6	49	--	7.5	7	1.19
FEB													
08...	0945	--	.505	.394	778	83	11.2	4.5	47	6.0	3.5	5	.90
MAY													
23...	1000	3.7	.445	.355	760	80	7.7	4.9	35	18.5	17.0	5	.89
AUG													
29...	1000	1.1	.190	.153	765	71	6.4	5.8	29	26.0	20.5	5	.97

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
28...	.884	1.14	2.8	<1	5.1	<.2	8.0	5.3	56	--	.040	<.10	<.03
FEB													
08...	.669	.47	2.5	--	4.5	<.2	6.3	5.5	46	--	.080	.23	<.03
MAY													
23...	.631	.65	2.8	1	5.1	<.2	7.1	3.2	34	21	<.030	.23	<.03
AUG													
29...	.629	.65	2.6	3	4.5	<.2	6.7	2.8	36	21	<.030	.18	<.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV													
28...	.32	E.034	<.003	--	--	.063	<.050	<.060	.6	<.1	15	.6	2.9
FEB													
08...	.22	.038	<.003	.27	.26	.077	E.003	.007	.6	<.1	11	.5	E1.6
MAY													
23...	.57	.042	<.003	.28	.61	.268	.005	.021	2.3	<.1	8.4	2.3	E1.2
AUG													
29...	.19	E.062	<.003	--	--	.076	.010	.019	.6	<.1	3.2	.6	E1.8

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV			
28...	--	19	4
FEB			
08...	--	E9	4
MAY			
23...	2.20	E11	1
AUG			
29...	2.40	E8	1

E Estimated value.
< Actual value is known to be less than the value shown.

01411300 TUCKAHOE RIVER AT HEAD OF RIVER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG 29...	1000	<2	15.0	E.04	11	<.04	<1	.6	400	<1	4	<.01	<1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 29...	<.4	<.05	3

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 08...	0945	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 08...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 08...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 23...	1000	<.004	<.002	<.005	E.003	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

E Estimated value.
< Actual value is known to be less than the value shown.

01411300 TUCKAHOE RIVER AT HEAD OF RIVER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
23...	<.005	<.002	<.004	<.035	<.027	<.050	E.008	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
23...	.016	<.016	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

01411400 FISHING CREEK AT RIO GRANDE, NJ

LOCATION.--Lat 39°01'39", long 74°53'48", Cape May County, Hydrologic Unit 02040206, at bridge on State Route 47 at Wildwood Pumping Station, and 1.4 mi northwest of Rio Grande.

DRAINAGE AREA.--2.29 mi^2.

PERIOD OF RECORD.--Water year 1965, 1998 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions"in the "Introduction." The calibration of water-quality sensors is verified by regular inspections. Cleaning or recalibration is needed occasionally as a result of sensor fouling or drift. When a sensor is recalibrated, the continuous-record water-quality data for the period between inspections are adjusted to account for the difference between the sensor's response and a known value. The adjustment may be constant over the period or may be prorated. Continuous-record water-quality data for periods for which the difference between the sensor's response and a known value does not exceed recalibration criteria are considered to be reliable and are not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection"). Data from the following periods were adjusted:
DISSOLVED OXYGEN: Jun. 25 to Jun. 28.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
15...	1040	4.0	--	.830	.647	757	71	8.3	6.8	156	6.5	8.5	39
FEB													
27...	1010	3.8	--	.703	.547	767	81	9.9	6.3	124	12.0	7.0	27
MAY													
23...	0930	2.2	2.4	.749	.585	756	72	6.5	7.2	146	17.0	20.0	35
AUG													
27...	1300	E1.0	1.4	.975	.756	757	77	5.9	6.8	130	29.0	29.0	36

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
15...	9.86	3.57	2.26	12.2	21	21.7	<.2	8.3	12.9	123	83	<.030	.57
FEB													
27...	6.98	2.28	1.20	11.2	11	18.5	<.2	7.9	11.3	99	67	<.030	.38
MAY													
23...	8.96	3.03	1.85	12.1	18	20.6	E.1	2.8	12.3	107	73	.210	.87
AUG													
27...	9.75	2.88	1.37	9.9	23	15.7	<.2	9.8	8.8	124	72	.050	.64

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
15...	<.03	.55	.050	<.003	.62	.60	.148	.012	.036	.8	<.1	17	.8
FEB													
27...	<.03	.48	.187	<.003	.57	.67	.068	.004	.010	.4	<.1	15	.4
MAY													
23...	.20	.77	.079	.006	.95	.85	.100	.016	.036	.7	<.1	14	.7
AUG													
27...	.03	.72	.046	.003	.69	.76	.127	.010	.026	1.1	<.1	19	1.1

E Estimated value.
< Actual value is known to be less than the value shown.

01411400 FISHING CREEK AT RIO GRANDE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
15...	2.1	--	25	9
FEB				
27...	E1.0	--	15	9
MAY				
23...	2.4	10.5	29	5
AUG				
27...	E1.6	23.4	26	2

E Estimated value.

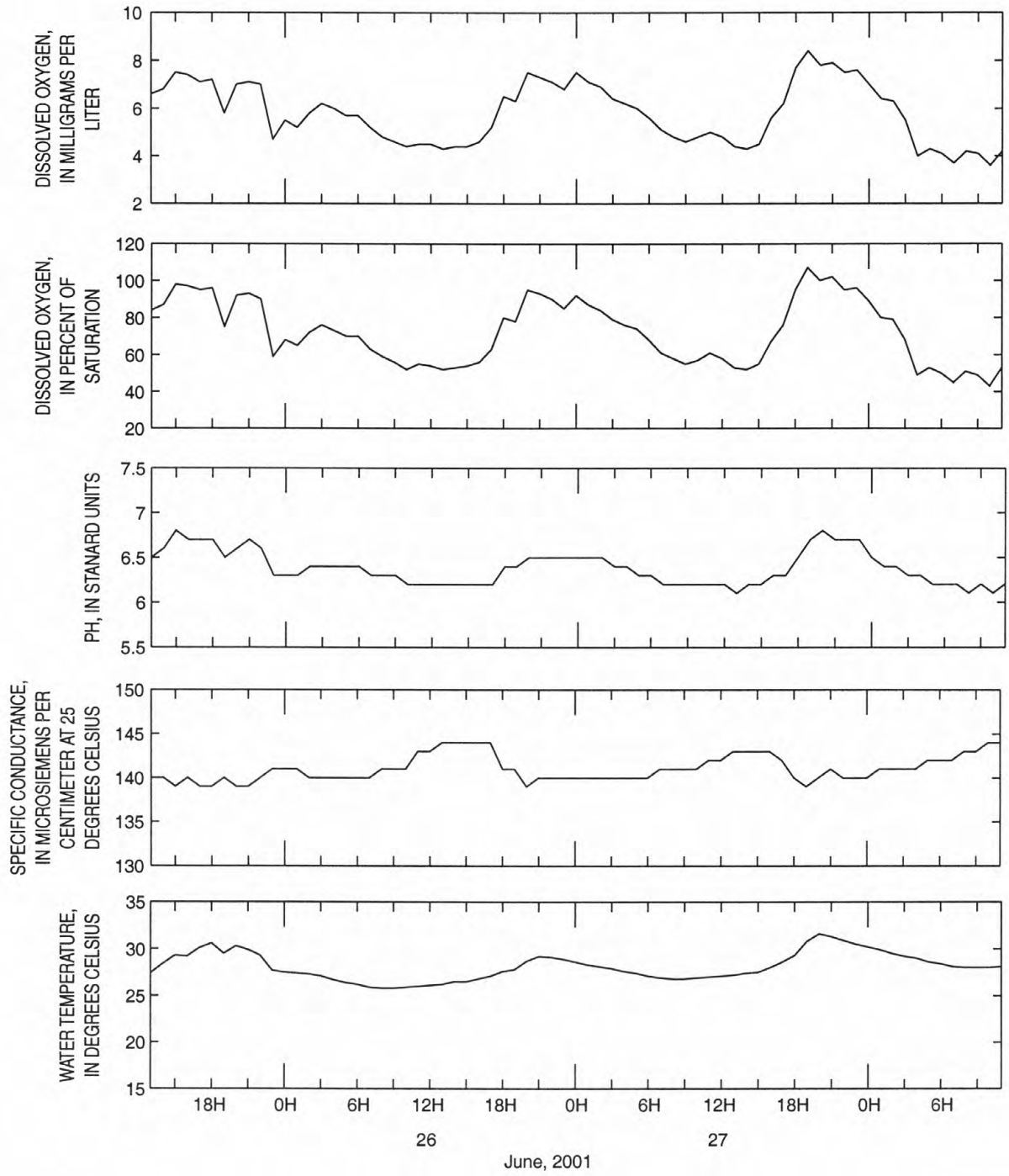


Figure 48. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01411400 Fishing Creek at Rio Grande, water year 2001.

01411428 DENNIS CREEK TRIBUTARY 2 AT DENNISVILLE, NJ

LOCATION.--Lat 39°11'34", long 74°49'33", Cape May County, Hydrologic Unit 02040206, at outlet of Johnson Pond, on State Route 47, and 0.1 mi west of Dennisville.

DRAINAGE AREA.--4.00 mi^2.

PERIOD OF RECORD.--Water Year 2000 to current year.

REMARKS.--Site is tide-affected; all samples collected at low tide, except sample on May 30 that was collected at high tide.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, and total suspended solids was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
DEC													
13...	0800	--	.171	.134	772	84	11.3	6.4	63	--	3.5	12	1.77
MAR													
01...	0830	--	.149	.113	756	90	11.0	6.3	73	3.0	6.5	13	2.16
MAY													
30...	0800	1.2	.120	.091	757	--	6.3	6.7	--	16.0	21.0	120	8.98
SEP													
06...	0800	1.9	.131	.098	764	--	6.8	6.5	--	15.0	22.0	22	2.57

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
DEC													
13...	1.95	1.97	6.4	4	11.5	<.2	3.4	7.8	48	39	.050	.19	.07
MAR													
01...	1.89	1.88	6.2	4	9.8	<.2	5.4	8.5	45	40	.030	.15	.04
MAY													
30...	23.6	8.06	185	8	332	E.1	1.3	49.4	626	613	<.030	.23	<.03
SEP													
06...	3.69	2.24	19.5	7	34.7	<.2	3.0	10.2	97	80	.060	E.47	.10

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
DEC													
13...	.30	.301	<.003	.49	.60	.058	.005	.012	.6	<.1	4.3	.5	E1.9
MAR													
01...	.22	.498	<.003	.65	.72	.056	E.003	.014	.5	<.1	3.6	.5	E1.1
MAY													
30...	.32	E.025	<.003	--	--	.054	.006	.016	.6	<.1	3.4	.6	E1.4
SEP													
06...	.57	E.035	<.003	--	--	.098	.012	.030	1.0	<.1	4.5	1.0	2.7

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
DEC			
13...	--	17	<1
MAR			
01...	--	E9	9
MAY			
30...	5.70	97	1
SEP			
06...	14.1	26	5

E Estimated value.
< Actual value is known to be less than the value shown.

01411428 DENNIS CREEK TRIBUTARY 2 AT DENNISVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
SEP 06...	0800	<2	92.1	.07	25	<.04	<1	1.2	290	<1	20	<.01	<1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
SEP 06...	<.4	<.05	4

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
MAR 01...	0830	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
MAR 01...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
MAR 01...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 30...	0800	<.004	<.002	<.005	.010	<.010	E.238	<.020	<.005	<.018	<.003	E.004	<.005

< Actual value is known to be less than the value shown.

01411428 DENNIS CREEK TRIBUTARY 2 AT DENNISVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
30...	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
30...	<.011	<.016	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

01411444 WEST CREEK NEAR LEESBURG, NJ

LOCATION.--Lat 39°15'36", long 74°54'42", Cumberland County, Hydrologic Unit 02040206, at bridge on County Route 550, 1.5 mi upstream of Hands Millpond, 2.4 mi south of Halberton, and 4.0 mi east of Leesburg.

DRAINAGE AREA.--6.64 mi^2.

PERIOD OF RECORD.--Water years 1999 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
15...	1350	14	--	.528	.416	757	77	8.9	4.4	52	6.2	9.0	5
FEB													
27...	1220	6.7	--	.448	.343	766	92	10.9	4.0	57	10.0	8.0	5
MAY													
23...	1140	16	.9	.478	.372	757	78	7.4	4.4	50	18.5	17.5	3
SEP													
20...	0900	.00	1.7	.257	.204	765	49	4.6	4.4	40	20.0	18.5	2

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV													
15...	.77	.788	.99	2.8	5.8	<.2	12.3	4.8	51	<.030	.32	<.03	.40
FEB													
27...	.72	.728	.76	2.7	4.6	<.2	7.0	6.4	36	<.030	.20	<.03	.36
MAY													
23...	.41	.526	.56	2.7	5.0	<.2	8.1	3.6	41	.050	.25	<.03	.29
SEP													
20...	.27	.436	.80	2.6	4.8	<.2	7.9	3.6	23	<.030	.19	<.03	.25

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)
NOV													
15...	E.031	<.003	--	--	.124	E.003	.010	1.4	<.1	11	1.4	E1.4	--
FEB													
27...	.196	<.003	.40	.56	.100	E.002	.008	1.7	<.1	9.6	1.7	E1.0	--
MAY													
23...	.037	<.003	.28	.33	.060	E.003	.006	.5	<.1	10	.5	E1.2	1.20
SEP													
20...	E.018	<.003	--	--	.066	.004	.007	.9	<.1	5.0	.9	<1.0	1.90

DATE	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV		
15...	E13	6
FEB		
27...	E13	3
MAY		
23...	14	<1
SEP		
20...	E9	6

E Estimated value.
< Actual value is known to be less than the value shown.

WEST CREEK BASIN

01411444 WEST CREEK NEAR LEESBURG, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
SEP													
20...	0900	--	--	--	--	--	--	<2	17.9	.06	11	E.03	<1
20...	0900	5.50	180	<.2	110	1.6	<.2	--	--	--	--	--	--

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)
SEP													
20...	E.4	300	<1	6	<.01	<1	<.4	<.05	11	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	<1	<.03	1.0	.1

DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MATERIAL AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)
SEP													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	<.342	280	1.1	3.8	<.01	<.3	<1	<3	<50	<50	<50	<50	<50

DATE	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO KFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)
SEP													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	<50	<50	<50	<50	<50	<50	<50	<50	<50	M	<50	<50	<50

DATE	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHALENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)
SEP													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	<50	<50	M	<50	<50	<5	<50	<50	<50	<50	<50	M	2

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
SEP	
20...	--
20...	3

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01411444 WEST CREEK NEAR LEESBURG, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB 27...	1220	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 27...	<.10	<.2	.11	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 27...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
MAY 23...	1140	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

DATE	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)
MAY 23...	<.005	<.002	<.004	<.035	<.027	<.050	E.002	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 23...	<.011	<.016	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
28...	1055	<20	100	100	12...	1017	20	<100	10
JUL					19...	1017	<20	100	10
05...	1018	310	200	70	26...	1031	<20	<100	40

< Actual value is known to be less than the value shown.

01411452 STILL RUN AT LITTLE MILL ROAD, NEAR CLAYTON, NJ

LOCATION.--Lat 39°38'08", long 75°05'59", Gloucester County, Hydrologic Unit 02040206, at bridge on Little Mill Road, 1.3 mi downstream of Silver Lake, and 1.5 mi south of Clayton.

DRAINAGE AREA.--10.6 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV												
14...	1000	--	.126	.098	758	73	8.0	6.7	115	--	11.0	28
FEB												
15...	1000	--	.145	.110	760	81	9.6	6.5	145	8.5	8.0	29
MAY												
09...	1000	1.7	.292	.235	769	75	7.7	6.6	122	--	14.5	29
AUG												
30...	1000	1.9	.211	.163	760	66	5.8	6.5	104	24.5	21.5	30

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
14...	5.58	3.30	2.29	8.0	17	14.1	<.2	5.0	6.9	62	60	.030	.23
FEB													
15...	6.39	3.17	1.87	12.4	9	21.5	<.2	6.6	11.2	88	75	<.030	.18
MAY													
09...	6.19	3.32	2.22	9.2	15	16.7	<.2	3.2	8.3	78	64	<.030	.36
AUG													
30...	5.95	3.56	2.14	9.1	18	15.9	<.2	4.2	6.7	78	58	.030	.28

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
14...	.04	.24	1.01	<.003	1.2	1.3	.036	.004	.010	.5	<.1	3.1	.5
FEB													
15...	<.03	.18	1.46	<.003	1.6	1.6	.091	.005	.011	.7	<.1	3.7	.7
MAY													
09...	<.03	.36	1.17	<.003	1.5	1.5	.064	.005	.015	.6	M	5.0	E.6
AUG													
30...	.06	.43	E.610	<.003	--	--	.058	.006	.035	.5	<.1	4.7	.5

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV				
14...	E1.0	--	19	3
FEB				
15...	<1.1	--	E12	7
MAY				
09...	<1.0	7.30	21	<1
AUG				
30...	<1.0	13.0	25	17

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01411452 STILL RUN AT LITTLE MILL ROAD, NEAR CLAYTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
AUG													
30...	1000	--	--	--	--	--	--	E1	88.5	.09	25	.05	<1
30...	1000	6.30	100	1.6	220	8.9	<.2	--	--	--	--	--	--

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)
AUG													
30...	1.2	1460	2	90	.03	1	E.2	<.05	10	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	<1	<.03	2.7	.3

DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MATERIAL AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)
AUG													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	M	1200	3.3	7.5	<.01	.8	<1	4	<50	<50	<50	<50	<50

DATE	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)
AUG													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<50	<50	<50	<50	<50	<50	<50	<50	<50	M	<50	<50	<50

DATE	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHALENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)
AUG													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<50	<50	<50	<50	<50	<5	E20	<50	<50	<50	<50	M	<1

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG	
30...	--
30...	2

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01411452 STILL RUN AT LITTLE MILL ROAD, NEAR CLAYTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB 15...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 15...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 15...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
MAY 09...	1000	<.004	<.002	<.005	.009	<.010	<.041	E.007	<.005	<.018	<.003	E.004	<.005

DATE	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)
MAY 09...	<.005	<.002	<.004	<.035	<.027	<.050	.022	<.006	<.002	<.007	<.003	<.010	E.005

DATE	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 09...	<.011	E.013	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
10...	1025	<20	200	190	07...	1010	220	100	220
17...	1020	230	<100	200					
24...	1000	80	<100	380					
31...	1040	110	100	170					

< Actual value is known to be less than the value shown.

01411466 INDIAN BRANCH NEAR MALAGA, NJ

LOCATION.--Lat 39°35'27", long 75°03'36", Gloucester County, Hydrologic Unit 02040206, at bridge on U.S. Route 47 (Delsea Drive), 0.4 mi upstream of Malaga Lake, and 1.4 mi north of Malaga.

DRAINAGE AREA.--6.50 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
15...	0940	4.9	--	.611	.484	756	65	7.6	4.7	46	7.5	8.0	7
FEB													
20...	0950	9.1	--	.508	.399	765	75	10.0	4.4	60	12.0	3.5	7
MAY													
09...	0830	1.6	.8	.432	.345	765	60	6.5	4.6	48	14.0	12.0	7
AUG													
22...	1030	2.7	.8	.192	.158	760	78	7.5	5.5	40	31.0	17.0	6

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
15...	1.27	.927	1.03	2.6	<1	5.4	<.2	9.7	3.9	49	--	<.030	.34
FEB													
20...	1.23	.897	.78	2.7	--	5.2	<.2	6.6	5.3	49	--	.040	.25
MAY													
09...	1.29	.957	.87	3.5	<1	6.4	<.2	5.3	3.7	45	--	<.030	.22
AUG													
22...	1.09	.908	.92	3.3	3	6.1	<.2	7.5	3.3	40	28	<.030	.19

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
15...	<.03	.32	.350	<.003	.69	.67	.041	.004	.004	.3	<.1	11	.3
FEB													
20...	.05	.28	.588	<.003	.83	.87	.037	.005	.005	.3	<.1	9.6	.3
MAY													
09...	<.03	.29	.610	<.003	.83	.90	<.022	E.003	.006	.5	<.1	7.2	.5
AUG													
22...	<.03	.24	.669	<.003	.86	.91	.047	.007	.011	.4	<.1	3.8	.4

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
15...	E1.3	--	E7	6
FEB				
20...	<1.0	--	E7	7
MAY				
09...	<1.0	5.50	E11	<1
AUG				
22...	<1.0	4.50	E10	--

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
10...	1040	50	<100	80
17...	1040	20	<100	60
24...	1055	20	<100	50
31...	1055	50	<100	40
AUG				
07...	1025	70	<100	80

< Actual value is known to be less than the value shown.

01411500 MAURICE RIVER AT NORMA, NJ

LOCATION.--Lat 39°29'44", long 75°04'38", Salem County, Hydrologic Unit 02040206, at bridge on Almond Road (County Route 540) in Norma, 0.8 mi downstream from Blackwater Branch, and 2.9 mi west of Vineland.

DRAINAGE AREA.--112.0 mi^2.

PERIOD OF RECORD.--Water years 1953, 1962-63, 1965 to September 1997, December 1998 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
27...	1140	154	--	.305	.243	753	89	10.4	6.2	90	12.5	8.0	20
FEB													
26...	1230	184	--	.253	.194	765	95	11.6	6.2	110	9.0	7.0	22
MAY													
09...	1000	122	1.7	.305	.240	768	84	8.4	6.5	99	8.5	16.0	22
SEP													
06...	1000	58	1.2	.097	.075	767	91	8.5	6.5	96	20.2	19.0	20

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
27...	4.25	2.27	2.22	6.7	7	11.0	<.2	6.2	7.9	64	52	<.030	.30
FEB													
26...	4.80	2.34	1.79	8.9	5	14.8	<.2	5.5	9.7	75	59	<.030	.24
MAY													
09...	4.60	2.50	1.84	7.5	9	11.7	<.2	3.4	7.5	70	53	.030	.30
SEP													
06...	3.94	2.43	2.46	7.5	10	11.9	<.2	4.0	6.0	56	--	.030	.24

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
27...	<.03	.38	1.57	<.003	1.9	1.9	.043	.006	.016	.8	<.1	7.2	.8
FEB													
26...	.03	.29	1.92	<.003	2.2	2.2	.025	E.003	.009	.3	<.1	5.7	.3
MAY													
09...	<.03	.40	1.79	.004	2.1	2.2	.044	.006	.017	.5	<.1	5.6	.5
SEP													
06...	.04	.23	1.63	<.003	1.9	1.9	.027	.004	.010	.3	<.1	2.6	.3

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV				
27...	E1.9	--	97	10
FEB				
26...	E1.2	--	52	1
MAY				
09...	2.7	1.20	30	3
SEP				
06...	<1.0	.900	--	<1

E Estimated value.
< Actual value is known to be less than the value shown.

01411500 MAURICE RIVER AT NORMA, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
28...	0919	110	100	70	12...	0913	90	<100	140
JUL					19...	0905	140	100	310
05...	0905	50	100	340	26...	0920	<20	<100	50

< Actual value is known to be less than the value shown.

01411955 GRAVELLY RUN AT LAUREL LAKE, NJ

LOCATION.--Lat 39°20'14", long 75°03'04", Cumberland County, Hydrologic Unit 02040206, at bridge on Battle Lane, 0.3 mi upstream from mouth and Buckshutem Creek, 1.1 mi west of community of Laurel Lake, and 2.5 mi southeast of Millville Municipal Airport.

DRAINAGE AREA.--3.19 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Background, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
20...	1110	.68	--	.073	.060	760	81	10.2	5.2	26	--	5.5	4
FEB													
26...	1140	3.7	--	.229	.175	764	86	10.5	4.6	44	--	7.0	5
MAY													
10...	1040	.93	1.3	.115	.091	764	81	8.6	5.1	25	18.5	13.0	3
AUG													
27...	1010	.92	6.2	.091	.074	757	77	7.2	5.3	23	29.0	18.0	4

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
20...	.64	.508	.41	2.1	2	--	<.2	7.7	--	19	--	<.030	<.10
FEB													
26...	.75	.725	.46	2.8	<1	5.2	<.2	5.8	5.5	39	--	<.030	.12
MAY													
10...	.52	.481	.42	2.2	2	4.1	<.2	4.4	1.8	24	15	<.030	E.10
AUG													
27...	.52	.532	.44	2.0	2	4.0	<.2	7.3	1.4	32	18	<.030	E.09

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
20...	.03	.17	.117	<.003	--	.29	<.022	E.002	.006	.4	<.1	1.6	.4
FEB													
26...	<.03	.18	.082	<.003	.20	.26	.038	<.004	.005	.5	<.1	5.0	.5
MAY													
10...	.05	.13	.057	<.003	--	.19	.045	<.004	E.002	.5	M	2.4	E.5
AUG													
27...	<.03	.27	.149	<.003	--	.42	.043	E.002	.014	.6	<.1	1.7	.6

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
20...	<1.0	--	E9	5
FEB				
26...	<1.0	--	19	2
MAY				
10...	<1.0	1.60	E8	<1
AUG				
27...	<1.0	10.9	E7	12

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG 27...	1010	<2	16.5	E.04	11	E.02	<1	E.6	230	2	E2	<.01	<1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 27...	<.4	<.05	4

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 26...	1140	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 26...	<.10	<.2	.28	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 26...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 10...	1040	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

E Estimated value.
< Actual value is known to be less than the value shown.

01411955 GRAVELLY RUN AT LAUREL LAKE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
10...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
10...	<.011	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
28...	1039	40	100	10	12...	1000	<20	200	30
JUL					19...	0959	90	<100	120
05...	1000	170	100	200	26...	0949	20	<100	100

< Actual value is known to be less than the value shown.

01412800 COHANSEY RIVER AT SEELEY, NJ

LOCATION.--Lat 39°28'21", long 75°15'21", Cumberland County, Hydrologic Unit 02040206, at bridge on Silver Lake Road, 0.6 mi south of Seeley, 2.6 mi east of Shiloh, 4.1 mi north of Bridgeton, and 22.5 mi upstream from mouth.

DRAINAGE AREA.--28.0 mi^2.

PERIOD OF RECORD.--Water years 1975 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
27...	0930	34	--	.118	.094	755	87	10.2	6.8	221	10.5	8.0	62
FEB													
26...	1030	37	--	.081	.063	765	93	11.5	6.7	207	7.5	6.5	60
MAY													
22...	1400	49	14	.199	.157	756	86	8.3	7.0	194	23.0	16.5	56
AUG													
29...	1220	29	14	.100	.077	762	84	7.3	6.4	207	25.5	22.5	59

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
27...	12.1	7.67	7.87	9.5	17	24.1	<.2	9.7	22.7	132	126	<.030	.29
FEB													
26...	12.1	7.13	4.00	8.8	12	20.8	<.2	8.5	25.8	128	118	.040	.20
MAY													
22...	11.4	6.75	4.45	8.9	16	20.1	<.2	6.6	23.4	136	110	.100	.48
AUG													
29...	11.6	7.28	6.21	9.8	16	22.6	<.2	8.0	23.7	126	99	.060	.38

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
27...	.03	.40	4.97	.012	5.3	5.4	.100	.018	.058	.9	<.1	3.3	.9
FEB													
26...	.04	.30	5.40	.006	5.6	5.7	.097	.004	.048	.9	<.1	2.5	.9
MAY													
22...	.08	.76	4.13	.018	4.6	4.9	.206	.017	.115	1.8	<.1	5.0	1.8
AUG													
29...	.07	.50	E4.39	.017	--	--	.148	.020	.077	1.1	<.1	3.1	1.1

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
27...	E2.1	--	17	2
FEB				
26...	E1.5	--	17	7
MAY				
22...	2.9	9.00	15	12
AUG				
29...	<1.0	4.30	20	12

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
28...	0941	50	<100	<10	12...	0929	<20	<100	<10
JUL					19...	0925	<20	<100	60
05...	0924	20	<100	290	26...	0939	<20	<100	20

< Actual value is known to be less than the value shown.

01413013 BARRETT RUN AT BRIDGETON, NJ

LOCATION.--Lat 39°26'45", long 75°14'48", Cumberland County, Hydrologic Unit 02040206, at bridge on West Avenue, 400 ft downstream of Mary Elmer Lake in Bridgeton, 1,300 ft upstream of Sunset Lake, and 2.2 mi northeast of Bowentown.

DRAINAGE AREA.--7.58 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV												
29...	1000	--	.143	.120	764	88	10.7	6.9	158	--	7.0	50
MAR												
07...	0900	--	.050	.039	754	96	12.6	7.7	176	3.5	3.5	49
MAY												
30...	1000	56	.169	.133	760	93	8.5	7.1	127	16.5	19.5	43
AUG												
14...	1000	6.9	.088	.069	760	87	7.0	7.2	157	24.0	26.0	51

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
29...	10.5	5.77	3.69	6.1	16	15.6	<.2	7.5	17.0	94	89	.030	.39
MAR													
07...	10.4	5.65	2.72	7.9	13	18.8	<.2	5.9	18.1	97	94	.040	.18
MAY													
30...	9.68	4.67	3.84	4.2	18	10.7	E.1	4.8	14.6	90	73	.040	.44
AUG													
14...	10.6	5.92	3.88	6.6	24	16.7	<.2	5.5	15.9	81	85	.090	.39

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
29...	<.03	.58	3.05	.011	3.4	3.6	.216	.006	.036	1.4	<.1	3.3	1.4
MAR													
07...	.06	.29	3.74	.009	3.9	4.0	.074	.004	.028	.6	<.1	1.7	.5
MAY													
30...	.12	.95	2.11	.040	2.5	3.1	.250	.023	.197	1.6	<.1	4.3	1.6
AUG													
14...	.15	.63	1.15	.037	1.5	1.8	.229	.012	.049	1.5	<.1	2.8	1.5

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV				
29...	3.0	--	23	3
MAR				
07...	E1.4	--	<13	2
MAY				
30...	3.9	36.4	14	21
AUG				
14...	2.2	53.5	25	5

E Estimated value.
< Actual value is known to be less than the value shown.

01413013 BARRETT RUN AT BRIDGETON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
AUG													
14...	1000	--	--	--	--	--	--	E2	51.4	<.06	21	E.02	<1
14...	1000	6.50	60	1.0	90	.9	<.2	--	--	--	--	--	--

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)
AUG													
14...	.8	610	<1	121	<.01	<1	.5	<.05	3	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	<1	<.03	1.1	.1

DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MATERIAL AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	8	3900	1.0	7.7	<.01	<.3	<1	<3	<50	<50	<50	<50	<50

DATE	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<50	<50	<50	<50	<50	<5	<50	<50	<50	<50	<50	<50	<1

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG	
14...	--
14...	<1

E Estimated value.
< Actual value is known to be less than the value shown.

01413013 BARRETT RUN AT BRIDGETON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
MAR 07...	0900	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
MAR 07...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
MAR 07...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (04041)	DCPA WATER FLTRD 0.7 U GF, REC (82682)	DEETHYLATRAZINE, WATER, DISS, REC (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
MAY 30...	1000	<.004	.578	<.005	.217	<.010	E.058	<.020	<.005	.766	<.003	E.013	3.41

DATE	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYLAZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)
MAY 30...	<.005	.010	<.004	.072	<.027	E.080	.350	.012	<.002	<.007	<.003	<.010	E.007

DATE	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 30...	.143	<.016	<.034	<.005	E.007

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
28...	1008	<20	<100	80	12...	0937	20	100	150
JUL					19...	0933	20	100	90
05...	0935	330	200	600	26...	0949	<20	<100	<10

< Actual value is known to be less than the value shown.

01434000 DELAWARE RIVER AT PORT JERVIS, NY

LOCATION.--Lat 41°22'14", long 74°41'52", Pike County, PA, Hydrologic Unit 02040104, at bridge (on U.S. Highways 6 and 209) between Port Jervis, N.Y. and Matamoras, PA, 1.2 mi upstream from Neversink River, and 6.5 mi downstream from Mongaup River.

DRAINAGE AREA.--3,070 mi^2.

PERIOD OF RECORD.--Water years 1957-60, 1964 to January 1994, June 1997, 1999 to August 2001 (discontinued).
CHEMICAL DATA: 1958-59 (e), 1964-65 (c), 1966 (a), 1967-68 (c), 1969-76 (d), 1987 (b), 1988-89 (c), 1990-91 (b), 1992 , 1997 (a), 1999 to August 2001 (discontinued).
MINOR ELEMENTS DATA: 1970, 1972-73 (a), 1974-76 (c), 1987 (b), 1988-89 (c), 1990-91 (b), 1992 (a).
PESTICIDE DATA: 1974 (a), 1987 (b), 1988-89 (c), 1990 (b), 1997 (a), 1999 to August 2001 (discontinued).
ORGANIC DATA: OC--1974 (b), 1975 (d), 1999 to August 2001 (discontinued).
NUTRIENT DATA: 1968 (a), 1969-76 (d), 1987 (b), 1988-89 (c), 1990 (b), 1999 to August 2001 (discontinued).
BIOLOGICAL DATA:
Bacteria--1973-76 (d).
Phytoplankton--1974 (b), 1975-76(c).
Periphyton--1976 (a).
SEDIMENT DATA: 1959, 1976 (c), 1988 (b), 1989 (c), 1990-91 (b), 1992 (a), 1999 to August 2001 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January to September 1973.
SUSPENDED-SEDIMENT DISCHARGE: February 1957 to September 1960, March 1970 to June 1976.
WATER TEMPERATURE: February 1957 to September 1960, January to September 1973, June 1974 to January 1994, October 1998 to August 2001.
INSTRUMENTATION.-- Thermocoupler to data logger; recorded every 15 minutes.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA). For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality-Control Data" in the "Introduction."

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum (water years 1957-59, 1973-81, 1983-84, 1988- 93, 1999-2000), 30.5 °C, July 5, 1999; minimum (water years 1958-60, 1973, 1975-93, 1999-2000), 0.0°C on many days during winter periods, except 1984.
SUSPENDED-SEDIMENT CONCENTRATION (water years 1957-60, 1970-76): Maximum daily mean, 760 mg/L, June 29, 1973; minimum daily mean, less than 1 mg/L on many days.
SUSPENDED-SEDIMENT DISCHARGE (water years 1957-60, 1970-76): Maximum daily, 187,000 tons, June 29, 1973; minimum daily, 1 ton, Aug. 29, 1957.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
OCT												
16...	1530	ENVIRONMENTAL	1840	754	102	10.6	7.2	75	12.0	13.3	23	6.82
NOV												
07...	1020	ENVIRONMENTAL	1490	756	109	13.1	7.1	82	7.5	7.0	24	7.10
JAN												
17...	1300	ENVIRONMENTAL	2020	755	105	15.0	7.5	82	4.0	.6	22	6.55
FEB												
14...	1230	ENVIRONMENTAL	3410	752	77	11.0	7.2	108	4.0	.4	24	7.36
MAR												
08...	*1229*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
08...	1230	ENVIRONMENTAL	2490	754	109	14.9	7.5	97	6.0	2.1	22	6.81
08...	*1231*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	*23*	*7.03*
31...	1310	ENVIRONMENTAL	24600	744	104	13.9	6.9	75	8.0	2.3	17	5.12
MAY												
10...	1030	ENVIRONMENTAL	1550	757	94	9.0	7.0	93	17.5	17.4	24	7.30
JUN												
04...	1220	ENVIRONMENTAL	6590	751	103	10.0	7.2	72	20.0	15.9	20	6.14
25...	1310	ENVIRONMENTAL	2210	755	112	9.6	7.6	81	27.0	22.5	22	6.60
AUG												
23...	0900	ENVIRONMENTAL	1890	755	106	9.1	7.2	95	20.2	22.3	25	7.13

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)
OCT													
16...	1.37	.81	5.1	--	--	7.8	<.2	.9	6.8	.18	.31	<.041	.38
NOV													
07...	1.41	.83	5.1	18	22	7.7	<.2	.5	7.2	.12	.15	<.041	.23
JAN													
17...	1.34	.70	5.2	11	14	9.1	<.2	3.2	7.4	.12	.11	<.041	.49
FEB													
14...	1.35	.87	8.9	--	--	16.0	<.2	3.1	7.4	.12	.17	<.041	.53
MAR													
08...	--	--	--	--	--	--	--	--	--	*E.06*	*<.08*	*<.041*	--
08...	1.27	.69	7.8	11	13	13.5	<.2	1.9	7.6	.13	.20	<.041	.39
08...	*1.31*	*.72*	*8.0*	--	--	*13.7*	*E.1*	*2.0*	*7.7*	*.11*	*.19*	*<.041*	*.37*
31...	.997	.86	5.6	7	8	9.5	<.2	2.5	6.5	.20	.59	.041	.98
MAY													
10...	1.42	.88	6.8	14	17	12.0	<.2	.8	7.6	.19	.23	<.041	.46
JUN													
04...	1.25	.67	5.3	12	15	8.5	<.2	2.5	6.3	.19	.32	<.040	.49
25...	1.34	.58	6.6	12	15	10.8	<.2	1.9	6.2	.19	.24	E.026	.33
AUG													
23...	1.65	.96	6.8	16	20	13.3	<.2	1.3	7.4	.17	.24	<.040	.41

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN,PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT													
16...	.24	.068	<.006	--	--	E.004	<.018	.006	--	--	2.4	--	47
NOV													
07...	.20	.076	<.006	--	--	<.006	<.018	.005	--	--	2.0	<.2	45
JAN													
17...	.49	.377	<.006	--	<.022	.007	<.018	.010	.1	--	1.9	--	48
FEB													
14...	.48	.360	<.006	--	.054	.007	<.018	.015	.4	--	2.3	--	65
MAR													
08...	--	*<.047*	*<.006*	--	--	*<.006*	*<.018*	*.004*	--	--	--	--	--
08...	.32	.189	<.006	--	.026	E.005	<.018	.012	.4	<.1	2.3	.3	57
08...	*.30*	*.187*	*<.006*	--	--	*E.004*	*<.018*	*.012*	--	--	--	--	*55*
31...	.59	.394	E.003	.55	.377	.010	<.018	.149	3.7	<.1	2.9	3.6	48
MAY													
10...	.42	.228	.008	--	.042	.008	<.018	.016	.4	M	2.1	E.4	59
JUN													
04...	.37	.177	<.006	--	.155	.011	<.020	.041	1.2	<.1	3.2	1.2	43
25...	.29	.093	.018	--	.203	.014	<.020	.021	.8	<.1	4.8	.7	46
AUG													
23...	.34	.174	E.003	--	.037	E.005	<.020	.012	.5	<.1	2.0	.5	57

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
OCT							
16...	41	<2.0	E7	20	5.2	6.0	1
NOV							
07...	41	<2.0	E10	20	4.5	--	<1
JAN							
17...	42	<2.0	<13	20	3.3	6.5	1
FEB							
14...	54	2.8	E9	50	11.0	42	5
MAR							
08...	--	--	--	--	--	--	--
08...	47	<2.0	E11	30	9.2	--	<1
08...	--	--	*E10*	*30*	*8.7*	--	*<1*
31...	38	54	E8	40	25.9	3790	57
MAY							
10...	46	<2.0	E8	30	13.4	--	<1
JUN							
04...	39	11	<13	60	7.2	240	14
25...	42	<2.0	E8	80	11.5	18	3
AUG							
23...	49	<2.0	E9	30	5.4	6.1	1

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3-TRICHLOROBENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISOPROPYLBENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)
OCT 16...	1530	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03

DATE	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON DISULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)
OCT 16...	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3	<.2	<.1	<.03	<.06

DATE	FURAN, TETRAHYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYLCHLORIDE TOTAL (UG/L) (34418)	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-CHLOROTOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISOPROPYLTOLUENE WATER WHOLE REC (UG/L) (77356)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)
OCT 16...	<2	<.2	<.2	<.2	<.06	<.03	<.04	<.07	<.1	E.01	<.04	<.09

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
OCT 16...	1530	<.004	<.002	<.005	E.004	<.010	<.041	<.020	<.005	<.018	<.003	E.003	<.005
FEB 14...	1230	<.004	<.004	<.005	E.003	<.010	<.041	<.020	<.005	<.018	<.003	E.003	<.005
MAR 31...	1310	<.004	<.002	<.005	E.002	<.010	<.041	<.020	<.005	<.018	<.003	E.002	<.005
MAY 10...	1030	<.004	<.002	<.005	E.007	<.010	<.041	<.020	<.005	<.018	<.003	E.003	<.005
JUN 04...	1220	<.004	<.002	<.005	.020	<.010	E.005	<.020	<.005	<.018	<.003	E.005	<.005
25...	1310	<.004	<.002	<.005	.011	<.010	E.039	<.020	<.005	<.018	<.003	<.006	<.005
AUG 23...	0900	<.004	<.002	<.005	E.004	<.010	<.041	<.020	<.005	<.018	<.003	E.004	<.005

E Estimated value.
< Actual value is known to be less than the value shown.

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
OCT													
16...	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	<.015
FEB													
14...	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	<.015
MAR													
31...	<.005	<.002	<.004	<.035	<.027	<.050	E.001	<.006	<.002	<.007	<.003	<.010	<.015
MAY													
10...	<.005	<.002	<.004	<.035	<.027	<.050	E.006	<.006	<.002	<.007	<.003	<.010	<.015
JUN													
04...	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003	<.010	<.015
25...	<.005	<.002	<.004	<.035	<.027	<.050	E.005	<.006	<.002	<.007	<.003	<.010	<.015
AUG													
23...	<.005	<.002	<.004	<.035	<.027	<.050	E.002	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT					
16...	<.011	<.016	<.034	<.005	<.009
FEB					
14...	E.003	<.016	<.034	<.005	<.009
MAR					
31...	<.011	<.016	<.034	<.005	<.009
MAY					
10...	E.003	<.016	<.034	<.005	<.009
JUN					
04...	E.003	<.016	<.034	<.005	<.009
25...	E.009	E.004	<.034	<.005	<.009
AUG					
23...	<.011	<.016	<.034	<.005	<.009

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	14.0	15.5	9.0	7.0	8.0	3.5	2.5	3.0	.0	-.5	.0
2	16.5	15.0	16.0	9.0	7.0	8.0	2.5	1.0	2.0	.0	-.5	.0
3	17.5	15.5	16.5	9.5	7.0	8.5	1.0	.0	.5	.0	-.5	.0
4	17.5	15.5	16.5	9.5	8.5	9.0	1.0	.0	.5	.0	.0	.0
5	17.0	15.5	16.0	9.0	8.0	8.5	1.0	.0	.5	.0	.0	.0
6	16.0	15.0	15.5	8.5	7.0	7.5	.5	.0	.0	.0	.0	.0
7	15.5	14.0	15.0	8.0	6.5	7.5	.5	.0	.0	.0	.0	.0
8	14.0	11.0	12.5	8.0	6.5	7.5	.0	.0	.0	.5	.0	.0
9	11.0	9.5	10.0	8.5	8.0	8.5	.5	.0	.0	.5	.0	.0
10	10.0	8.5	9.5	9.5	8.5	9.0	.0	.0	.0	.5	.0	.0
11	10.5	8.5	9.5	9.5	9.0	9.0	1.0	.0	.5	.5	-.5	.0
12	11.5	9.0	10.5	9.0	8.5	9.0	1.0	.0	1.0	.5	.0	.0
13	12.0	10.0	11.0	8.5	8.0	8.5	.5	.0	.0	.5	.0	.0
14	13.5	11.5	12.5	8.5	8.0	8.5	.5	.0	.0	.5	.0	.0
15	14.5	12.0	13.5	8.0	6.0	7.0	1.0	.0	.5	.5	.0	.5
16	---	---	---	6.5	5.5	6.0	1.0	.0	.5	.5	.0	.5
17	13.0	12.5	12.5	6.5	5.5	6.0	4.0	.5	1.5	.5	.5	.5
18	13.0	12.5	12.5	5.5	4.5	5.0	2.0	.5	1.5	.5	.0	.5
19	12.5	11.5	12.0	5.0	3.5	4.5	1.5	1.0	1.0	1.0	.0	.5
20	12.0	10.5	11.0	4.5	2.5	3.5	1.0	.5	.5	1.0	.0	.5
21	12.5	11.0	11.5	3.5	2.0	3.0	.5	.0	.5	.5	.0	.0
22	12.5	11.0	12.0	3.0	1.0	2.0	1.0	.0	.5	.5	.0	.0
23	12.0	10.0	11.0	1.5	.0	.5	.0	-.5	.0	.5	.0	.0
24	12.0	10.0	11.0	.5	-.5	.0	.0	.0	.0	.5	-.5	.0
25	13.0	10.5	12.0	.5	.0	.5	.0	.0	.0	.5	.0	.0
26	13.5	11.0	12.5	2.0	.5	1.5	.0	-.5	.0	.5	.0	.0
27	13.5	11.5	12.5	2.5	1.5	2.0	.0	.0	.0	.5	.0	.0
28	13.0	11.0	12.0	3.0	2.0	2.5	.0	.0	.0	1.0	.0	.0
29	11.0	8.5	9.5	3.5	2.5	3.0	.0	-.5	.0	.5	.0	.0
30	9.0	7.5	8.0	4.0	3.0	3.5	.0	.0	.0	.5	.0	.5
31	8.5	6.5	8.0	---	---	---	.0	.0	.0	1.5	.5	.5
MONTH	17.5	6.5	12.3	9.5	-.5	5.6	4.0	-.5	.5	1.5	-.5	.1

E Estimated value.
< Actual value is known to be less than the value shown.

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.5	.0	.5	1.0	.0	.5	3.0	2.5	2.5	16.0	13.5	14.5
2	1.0	.0	.5	1.5	.0	.5	3.5	3.0	3.0	17.5	14.5	16.0
3	.5	.0	.0	3.0	1.0	1.5	4.5	3.0	4.0	18.5	16.5	17.5
4	.5	.0	.0	2.0	.5	1.0	5.5	3.5	4.5	20.5	16.5	18.5
5	.0	.0	.0	.5	.0	.0	6.5	4.5	5.5	20.0	17.0	18.5
6	.5	.0	.0	1.0	.0	.5	6.0	5.0	5.5	18.5	15.5	17.0
7	1.0	.0	.5	3.5	.5	1.5	5.0	4.5	5.0	18.0	15.5	16.5
8	.5	.0	.5	3.0	.5	2.0	5.0	4.5	5.0	17.5	15.0	16.5
9	1.5	.0	.5	2.0	1.0	1.5	6.5	4.5	5.5	17.5	16.0	16.5
10	2.0	.0	1.0	3.0	.5	2.0	7.0	6.5	7.0	20.0	16.0	18.0
11	.5	.0	.0	2.5	.5	1.5	6.5	6.0	6.0	20.5	17.5	19.0
12	.5	-.5	.0	3.5	.5	2.0	6.5	5.5	6.0	21.0	18.0	19.5
13	1.5	.0	.5	3.0	2.0	2.5	8.0	6.0	7.0	19.5	17.5	18.5
14	.5	.0	.5	3.0	1.5	2.0	8.5	7.0	8.0	18.0	16.5	17.5
15	1.0	.0	.5	3.0	1.0	2.0	8.5	7.0	8.0	18.0	15.5	17.0
16	.5	.0	.0	3.5	1.5	2.5	8.5	7.5	8.0	17.5	15.5	16.5
17	1.0	.0	.5	3.5	2.0	2.5	8.0	7.5	7.5	17.0	16.0	16.5
18	1.0	-.5	.0	3.5	1.5	2.5	8.0	6.5	7.0	16.0	15.0	15.5
19	1.5	-.5	.5	4.0	1.5	2.5	8.0	6.0	7.0	19.0	15.0	17.0
20	1.5	.0	1.0	4.5	2.0	3.0	8.0	6.5	7.5	18.5	17.0	18.0
21	2.0	.0	1.0	3.0	2.0	2.5	9.5	7.5	8.5	18.0	16.5	17.0
22	.5	-.5	.0	2.5	2.0	2.0	12.5	9.0	10.5	16.5	16.0	16.0
23	1.0	.0	.5	3.5	1.5	2.5	15.0	12.0	13.5	16.0	15.5	16.0
24	1.5	.0	.5	3.5	2.5	3.0	15.5	14.0	15.0	18.0	15.5	17.0
25	1.0	.0	.5	3.5	2.0	3.0	15.0	13.0	13.5	18.0	16.5	17.0
26	1.5	.5	1.0	3.0	2.0	2.5	13.0	11.0	12.5	16.5	15.5	16.0
27	2.0	.0	1.0	3.0	1.0	2.0	13.0	11.5	12.5	16.0	15.0	15.5
28	1.5	.0	1.0	3.5	1.5	2.5	13.5	11.5	12.5	17.5	15.5	16.5
29	---	---	---	3.5	2.5	3.0	14.5	11.0	12.5	18.0	16.0	17.0
30	---	---	---	3.0	2.5	3.0	14.5	11.0	13.0	17.5	16.0	16.5
31	---	---	---	2.5	2.0	2.5	---	---	---	17.5	14.5	16.0
MONTH	2.0	-.5	.4	4.5	.0	2.0	15.5	2.5	8.1	21.0	13.5	16.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.0	14.5	16.0	---	---	---	25.5	22.5	24.0	---	---	---
2	17.0	15.0	16.0	---	---	---	26.5	23.5	25.0	---	---	---
3	16.5	15.5	16.0	---	---	---	26.5	24.0	25.5	---	---	---
4	16.5	15.5	16.0	---	---	---	26.0	24.0	25.0	---	---	---
5	17.0	15.0	16.5	23.5	21.0	22.5	27.0	24.0	25.5	---	---	---
6	18.5	16.5	17.5	23.0	20.5	22.0	28.0	25.5	27.0	---	---	---
7	19.5	17.0	18.5	23.5	20.0	21.5	29.0	26.0	27.5	---	---	---
8	21.0	17.5	19.0	21.5	20.5	21.0	28.5	25.0	26.5	---	---	---
9	21.5	18.0	19.5	25.5	21.0	23.0	27.5	24.0	26.0	---	---	---
10	21.5	18.5	20.0	26.0	23.0	24.0	26.5	25.0	26.0	---	---	---
11	21.0	19.5	20.0	25.5	22.5	24.0	25.5	24.0	25.0	---	---	---
12	22.0	19.0	20.5	24.5	22.0	23.0	24.5	23.5	24.0	---	---	---
13	24.0	21.0	22.0	22.0	20.5	21.5	25.5	23.5	24.5	---	---	---
14	26.0	21.5	23.5	22.0	20.0	21.0	25.5	23.5	24.5	---	---	---
15	27.0	23.5	25.0	23.0	19.5	21.5	25.5	23.5	24.5	---	---	---
16	26.0	23.0	24.5	25.0	21.5	23.0	25.0	23.0	24.5	---	---	---
17	23.5	22.5	23.0	24.5	23.0	23.5	24.5	23.5	24.0	---	---	---
18	23.0	21.0	22.5	25.5	22.0	23.5	24.5	22.5	23.5	---	---	---
19	24.5	22.0	23.0	25.0	23.0	24.0	24.5	22.5	23.5	---	---	---
20	25.5	22.5	24.0	25.5	22.5	24.0	25.0	23.5	24.0	---	---	---
21	23.5	21.0	22.5	26.0	22.5	24.0	24.5	23.0	24.0	---	---	---
22	22.5	21.0	21.5	26.0	23.5	24.5	24.5	22.5	23.5	---	---	---
23	21.5	20.0	21.0	27.5	24.5	26.0	---	---	---	---	---	---
24	23.0	20.0	21.0	28.0	25.0	26.0	---	---	---	---	---	---
25	---	---	---	28.0	24.5	26.0	---	---	---	---	---	---
26	---	---	---	25.5	24.0	24.5	---	---	---	---	---	---
27	---	---	---	25.5	22.5	24.0	---	---	---	---	---	---
28	---	---	---	25.0	22.0	23.5	---	---	---	---	---	---
29	---	---	---	24.0	22.0	23.0	---	---	---	---	---	---
30	---	---	---	24.5	22.5	23.5	---	---	---	---	---	---
31	---	---	---	25.0	22.5	24.0	---	---	---	---	---	---
MONTH	27.0	14.5	20.4	28.0	19.5	23.4	29.0	22.5	24.9	---	---	---
YEAR	29.0	-.5	9.7									

01435000 NEVERSINK RIVER NEAR CLARYVILLE, NY

LOCATION.--Lat 41°53'24", long 74°35'25", Sullivan County, Hydrologic Unit 02040104, at covered bridge, 300 ft upstream from small tributary, 2.2 mi downstream from confluence of East and West Branches, and 2.2 mi southwest of Claryville.

DRAINAGE AREA.--66.6 mi^2.

PERIOD OF RECORD.-- May 1999 to September 2001 (discontinued).

REMARKS.-- These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA); the 05/10 and 08/23 samples were part of the DELR NAWQA synoptic study. Data from additional sites collected as part of the synoptic study are listed in "Water Quality at Miscellaneous Surface-Water Sites." Continuous water temperature records for this and other sites are presented in "Water Quality at Miscellaneous Surface-Water Sites." For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality Control Data" in the "Introduction."

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
OCT												
16...	1040	ENVIRONMENTAL	60	729	93	10.0	6.4	27	9.5	10.2	9	2.52
MAY												
10...	*0929*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	*.01*
10...	0930	ENVIRONMENTAL	104	723	109	11.9	7.0	35	21.0	9.1	9	2.60
AUG												
23...	1600	ENVIRONMENTAL	26	719	106	9.8	7.5	34	19.5	16.3	9	2.65

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)
OCT													
16...	.638	.30	1.1	4	4	1.5	E.1	2.5	4.9	E.07	.09	<.041	.14
MAY													
10...	*<.008*	*<.09*	*<.1*	--	--	*<.1*	*<.2*	*<.1*	*<.1*	*<.10*	*<.08*	*<.041*	--
10...	.631	.30	1.5	3	4	2.9	<.2	2.0	4.7	<.10	E.07	<.041	--
AUG													
23...	.674	.40	1.8	4	5	3.6	<.2	2.4	4.8	<.10	E.06	<.040	--

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)
OCT													
16...	.052	<.006	--	<.006	<.018	E.002	--	--	1.0	<.2	20	16	2.0
MAY													
10...	*<.047*	*<.006*	--	*<.006*	*<.018*	*<.004*	--	--	--	--	*<10*	--	--
10...	.206	<.006	<.022	<.006	<.018	E.002	.2	<.1	.99	.2	26	17	--
AUG													
23...	.119	<.006	<.022	<.006	<.020	.006	.2	<.1	.65	.2	23	19	<2.0

DATE	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
OCT					
16...	<13	<10	E2.3	.16	1
MAY					
10...	*<13*	*<10*	*<3.2*	--	*<1*
10...	<13	<10	E1.8	--	<1
AUG					
23...	<13	<10	E1.9	.11	2

E Estimated value.
< Actual value is known to be less than the value shown.

01435000 NEVERSINK RIVER NEAR CLARYVILLE, NY--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
OCT													
16...	1040	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
MAY													
10...	*0930*	*<.004*	*<.002*	*<.005*	*<.007*	*<.010*	*<.041*	*<.020*	*<.005*	*<.018*	*<.003*	*<.006*	*<.005*
AUG													
23...	1600	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
OCT													
16...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
MAY													
10...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
AUG													
23...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT					
16...	<.011	<.016	<.034	<.005	<.009
MAY					
10...	<.011	<.016	<.034	<.005	<.009
AUG					
23...	<.011	<.016	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

01438500 DELAWARE RIVER AT MONTAGUE, NJ

LOCATION.--Lat 41°18'33", long 74°47'44", Pike County, PA, Hydrologic Unit 02040104, at toll bridge (on U.S. Route 206) between Montague, NJ and Milford, PA, 0.8 mi downstream from Sawkill Creek, and at river mile 246.3.

DRAINAGE AREA.--3,480 mi^2.

PERIOD OF RECORD.--Water years 1956-73, 1976-78, July 1991 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.-- Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
08...	0915	1800	--	.053	.040	757	98	12.0	7.3	90	--	6.5	26
MAR													
08...	1030	3610	--	.060	.045	755	96	13.4	7.4	111	8.0	1.5	25
MAY													
10...	0930	1920	1.0	.072	.054	755	108	10.7	7.3	107	22.0	15.5	26
AUG													
22...	1100	2090	1.3	.054	.041	758	80	6.9	7.4	100	30.0	22.5	25

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
08...	7.67	1.54	.81	5.8	18	8.8	<.2	.6	7.0	45	44	.050	.18
MAR													
08...	7.71	1.47	.75	9.3	14	15.8	<.2	2.4	7.6	61	55	<.030	.14
MAY													
10...	7.79	1.50	.88	8.8	16	15.9	<.2	1.5	7.7	70	55	<.030	.22
AUG													
22...	7.27	1.64	.91	7.3	18	12.1	<.2	1.3	6.6	58	49	<.030	.22

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
08...	.04	.23	.115	<.003	.30	.34	.052	.004	.014	.3	<.1	1.9	.3
MAR													
08...	<.03	.12	.272	<.003	.41	.40	.042	.006	.012	.3	<.1	2.0	.3
MAY													
10...	<.03	.25	.305	<.003	.52	.55	.034	.008	.016	.4	M	2.5	E.4
AUG													
22...	<.03	.26	.205	<.003	.42	.46	.088	.007	.017	.6	<.1	2.1	.6

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV				
08...	E1.1	--	E10	12
MAR				
08...	<1.0	--	<13	2
MAY				
10...	E1.0	2.90	E8	<1
AUG				
22...	<1.0	2.40	E8	4

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01438500 DELAWARE RIVER AT MONTAGUE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
05...	1035	20	<100	10
11...	1040	20	<100	210
18...	1035	50	<100	30
25...	1040	<20	<100	<10
AUG				
01...	1040	<20	<100	60

< Actual value is known to be less than the value shown.

01440000 FLAT BROOK NEAR FLATBROOKVILLE, NJ

LOCATION.--Lat 41°06'24", long 74°57'09", Sussex County, Hydrologic Unit 02040104, 1.0 mi upstream from Flatbrookville, and 1.5 mi upstream from mouth.

DRAINAGE AREA.--64.0 mi^2.

PERIOD OF RECORD.--Water years 1923-24, 1956-57, 1959-80, 1993, 1995, 1997 to current year.

INSTRUMENTATION.--WATER TEMPERATURE: Water temperature data logger (in-situ system; measurements recorded every 15 to 30 minutes) located at gage.

REMARKS.--Additional water-quality data for this and other sites collected as part of the DELR NAWQA synoptic study are listed in "Water Quality at Miscellaneous Surface-Water Sites." Continuous water temperature records and fish community data for this and other sites are presented in "Water-Quality at Miscellaneous Surface-Water Sites." For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Physical parameters measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Field data and samples for laboratory analyses on 10/05, 05/10, and 08/23 were provided by the Delaware River Basin National Water Quality Assessment Program (DELR NAWQA). Additional field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
OCT												
05...	1150	ENVIRONMENTAL	28	<2.0	--	--	717	112	10.9	7.6	251	14.5
NOV												
14...	1100	ENVIRONMENTAL	37	--	.080	.061	749	92	10.6	7.9	198	--
FEB												
21...	1100	ENVIRONMENTAL	110	--	.056	.043	756	95	12.7	7.8	179	3.0
MAY												
10...	*1619*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
10...	1620	ENVIRONMENTAL	55	<2.0	--	--	757	100	9.3	8.0	235	30.5
31...	1100	ENVIRONMENTAL	123	2.2	.133	.103	754	97	10.2	7.8	149	18.0
AUG												
23...	1550	ENVIRONMENTAL	13	<2.0	--	--	755	104	9.4	8.1	285	20.0
SEP												
05...	0800	ENVIRONMENTAL	10	.4	.034	.026	752		6.2	7.9	--	16.0

DATE	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT													
05...	13.6	97	27.9	6.52	.68	10.2	--	85	103	16.8	<.2	3.2	13.5
NOV													
14...	8.5	73	20.8	5.08	.71	8.9	61	--	--	14.5	<.2	4.3	13.3
FEB													
21...	3.0	60	17.7	3.76	.53	9.1	48	--	--	15.5	<.2	4.9	11.6
MAY													
10...	--	--	*E.01*	*<.008*	*<.09*	*<.1*	--	--	--	*<.1*	*<.2*	*<.1*	*<.1*
10...	18.4	87	25.6	5.52	.50	10.5	--	73	89	18.3	<.2	4.0	13.3
31...	12.5	52	15.2	3.43	.40	7.9	42	--	--	12.5	<.2	4.8	9.8
AUG													
23...	19.6	110	32.3	8.16	.62	11.2	--	92	112	20.9	<.2	3.4	19.3
SEP													
05...	17.0	110	31.5	7.98	.70	11.7	97	--	--	17.8	<.2	3.8	19.6

E Estimated value.
< Actual value is known to be less than the value shown.

01440000 FLAT BROOK NEAR FLATBROOKVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT													
05...	139	129	<.020	.12	--	.14	<.050	<.010	--	--	--	E.005	<.010
NOV													
14...	108	104	<.030	.15	<.03	.13	E.027	<.003	--	--	<.022	E.003	--
FEB													
21...	107	92	.030	E.08	.05	E.08	.131	<.003	--	--	<.022	.004	--
MAY													
10...	*<10*	--	*<.041*	*<.10*	--	*<.08*	*<.047*	*.006*	--	--	--	*<.006*	*<.018*
10...	140	122	<.041	.10	--	.17	.111	.009	.21	.29	.036	.006	<.018
31...	101	80	<.030	.17	<.03	.20	.086	<.003	.26	.28	.049	.012	--
AUG													
23...	165	151	<.040	.10	--	.10	<.050	<.006	--	--	--	E.004	<.020
SEP													
05...	152	151	<.030	E.09	<.03	.12	<.037	<.003	--	--	<.022	E.003	--

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT													
05...	.010	--	--	1.9	<.2	--	--	E11	30	10.1	--	.19	2
NOV													
14...	.006	.3	<.1	2.4	.3	<1.0	--	<13	--	--	2	--	--
FEB													
21...	.007	.2	<.1	1.7	.2	<1.0	--	<13	--	--	<1	--	--
MAY													
10...	*<.004*	--	--	--	--	--	--	*<13*	*<10*	*<3.2*	--	--	--
10...	.014	.3	M	1.8	E.3	--	--	E10	50	12.6	--	.21	1
31...	.020	.6	<.1	3.4	.6	<1.0	1.00	<13	--	--	1	--	--
AUG													
23...	.006	--	--	1.4	--	--	--	E13	20	<3.0	--	.05	1
SEP													
05...	E.004	.2	<.1	1.4	.2	<1.0	1.20	<13	--	--	4	--	--

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01440000 FLAT BROOK NEAR FLATBROOKVILLE, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
OCT												
05...	1150	ENVIRONMENTAL	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003
MAY												
10...	*1618*	*FIELD BLANK*	*<.004*	*<.002*	*<.005*	*<.007*	*<.010*	*<.041*	*<.020*	*<.005*	*<.018*	*<.003*
10...	1620	ENVIRONMENTAL	<.004	<.002	<.005	E.003	<.010	<.041	<.020	<.005	<.018	<.003
AUG												
23...	1550	ENVIRONMENTAL	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003

DATE	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
OCT													
05...	<.006	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.003	<.007	E.002
MAY													
10...	*<.006*	*<.005*	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*	*<.013*	*<.006*	*<.002*	*<.007*	*<.003*
10...	E.002	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003
AUG													
23...	<.006	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003

DATE	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT							
05...	<.010	<.015	<.011	<.016	<.034	<.005	<.009
MAY							
10...	*<.010*	*<.015*	*<.011*	*<.016*	*<.034*	*<.005*	*<.009*
10...	<.010	<.015	<.011	<.016	<.034	<.005	<.009
AUG							
23...	<.010	<.015	<.011	<.016	<.034	<.005	<.009

01440000 FLAT BROOK NEAR FLATBROOKVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
05...	0950	70	<100	50	01...	0955	20	<100	50
11...	0950	460	100	180					
18...	0945	<20	<100	380					
25...	0950	80	<100	60					

E Estimated value.
< Actual value is known to be less than the value shown.

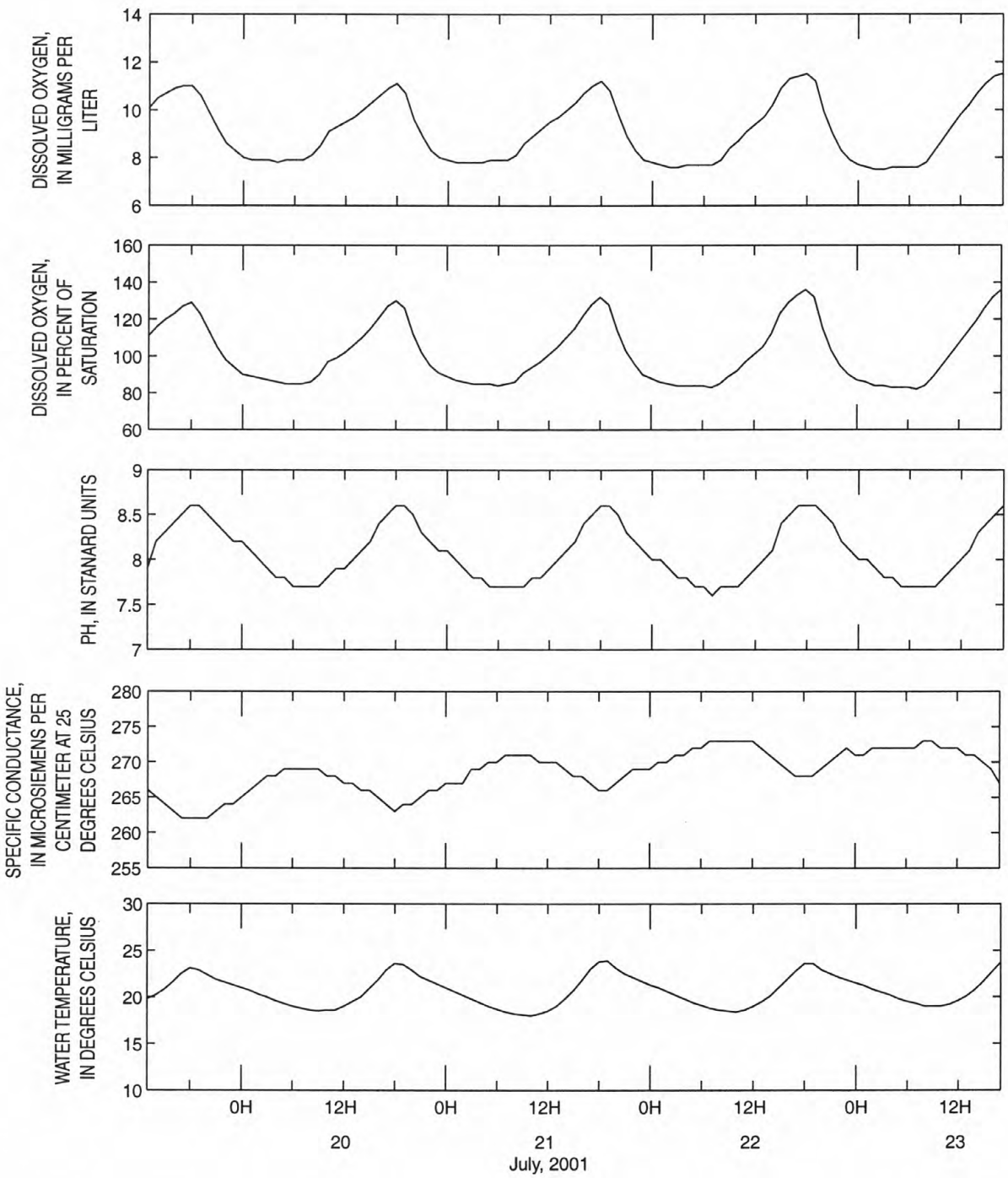


Figure 49. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01440000 Flat Brook near Flatbrookville, water year 2001.

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ

LOCATION.--Lat 40°58'14", long 75°07'35", Warren County, Hydrologic Unit 02040104, at footbridge in Delaware Water Gap National Recreation Area 300 ft upstream from mouth and Delaware River, 0.6 mi northwest of Arrow Island, and 0.6 mi southeast of Delaware Water Gap Toll Bridge on Interstate 80.

DRAINAGE AREA.--3.56 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Background, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
01...	0920	.99	--	.020	.015	755	--	--	6.6	37	15.5	9.5	15
FEB													
07...	1020	8.8	--	.018	.014	760	100	13.4	7.1	34	6.5	3.0	11
MAY													
02...	1000	4.9	--	.022	.018	755	100	10.9	6.7	33	26.5	11.0	12
AUG													
08...	1310	.43	.4	.023	.018	752	104	9.3	5.8	39	35.0	20.0	14

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
01...	3.77	1.32	.51	1.0	7	1.5	<.2	4.6	7.3	26	25	.060	<.10
FEB													
07...	2.82	1.02	.40	.7	4	1.2	<.2	4.3	8.1	24	21	.030	<.10
MAY													
02...	3.04	1.03	.44	.8	6	1.1	<.2	4.2	8.1	--	22	<.030	E.08
AUG													
08...	3.62	1.26	.55	1.0	7	1.5	<.2	5.4	7.2	26	26	.030	<.10

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN,PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)
NOV													
01...	.03	E.07	<.037	<.003	<.022	<.004	<.004	.1	<.1	.72	.1	2.4	--
FEB													
07...	<.03	E.07	E.022	<.003	<.022	<.004	E.002	.2	<.1	.70	.2	E1.7	--
MAY													
02...	<.03	<.08	<.037	<.003	<.022	E.003	E.003	E.2	<.1	.83	E.2	E1.9	.200
AUG													
08...	.05	E.04	.259	<.003	.050	.005	.005	.3	<.1	.72	.3	<1.0	.100

DATE	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV		
01...	<13	<1
FEB		
07...	E8	2
MAY		
02...	<13	6
AUG		
08...	E8	2

E Estimated value.
< Actual value is known to be less than the value shown.

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG 08...	1310	<2	17.0	<.06	7	.04	<1	E.4	E10	<1	E3	<.01	2

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 08...	<.4	<.05	8

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 07...	1020	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 07...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 07...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 02...	1000	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
02...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
02...	<.011	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG				
01...	0900	20	<100	40
08...	0830	<20	<100	30
15...	1020	80	<100	30
22...	0930	<20	<100	40
29...	0935	<20	<100	70

< Actual value is known to be less than the value shown.

01443000 DELAWARE RIVER AT PORTLAND, PA

LOCATION.--Lat 40°55'26", long 75°05'46", Northampton County, Hydrologic Unit 02040105, at walkbridge connecting Portland, PA and Columbia, NJ, and 0.5 mi upstream from Paulins Kill.

DRAINAGE AREA.--4,165 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
02...	0950	1950	--	.064	.049	756	102	11.8	7.5	98	15.5	8.5	31
FEB													
13...	0930	5730	--	.068	.052	762	96	13.8	7.0	125	7.0	.5	30
MAY													
02...	1330	4660	--	.065	.051	756	106	10.3	7.7	108	32.0	16.5	29
AUG													
08...	1000	2330	1.3	.062	.047	752	102	7.9	7.3	111	34.0	28.0	30

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
02...	9.57	1.72	.81	6.2	22	9.1	<.2	.8	8.1	56	50	.030	.13
FEB													
13...	9.13	1.71	.76	10.2	16	18.2	<.2	3.8	8.8	74	64	<.030	.14
MAY													
02...	8.68	1.68	.71	7.4	20	13.5	<.2	1.1	8.1	80	54	<.030	.20
AUG													
08...	9.02	1.83	.90	7.9	22	13.7	<.2	1.4	8.1	59	56	.060	.21

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
02...	.05	.14	.045	.003	.17	.19	.028	.010	.015	.2	<.1	2.2	.2
FEB													
13...	<.03	.14	.360	<.003	.50	.50	<.022	.011	.022	.4	<.1	2.3	.4
MAY													
02...	<.03	.18	.222	<.003	.42	.40	.060	.009	.016	.3	<.1	2.6	.3
AUG													
08...	<.03	.26	.091	<.003	.30	.35	.104	.013	.021	.7	<.1	2.3	.7

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV				
02...	E1.2	--	<13	6
FEB				
13...	E1.1	--	E7	6
MAY				
02...	E1.3	2.60	<13	--
AUG				
08...	<1.0	2.50	E8	5

E Estimated value.
< Actual value is known to be less than the value shown.

01443000 DELAWARE RIVER AT PORTLAND, PA--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01...	0930	<20	<100	20	15...	1012	20	<100	<10
08...	0850	<20	<100	60	22...	0955	<20	<100	10
					29...	0950	20	<100	40

< Actual value is known to be less than the value shown.

01443250 PAULINS KILL AT WARBASSE JUNCTION ROAD, NEAR LAFAYETTE, NJ

LOCATION.--Lat 41°06'21", long 74°40'56", Sussex County, Hydrologic Unit 02040104, at bridge on Warbasse Junction Road (County Route 663) at Warbasse, 0.9 mi southwest of Lafeyette, and 1.3 mi east of unnamed pond.

DRAINAGE AREA.--11.4 mi^2.

PERIOD OF RECORD.--November 2000 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 21...	1100	--	.298	.219	745	77	10.2	7.7	658	--	2.5	220
FEB 15...	1115	--	.197	.147	746	76	9.7	7.5	681	5.0	4.0	180
MAY 23...	1100	8.2	.422	.319	744	52	5.2	7.5	535	18.0	14.2	160
AUG 14...	1100	24	.168	.125	747	42	3.6	7.5	574	27.0	21.5	170

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 21...	58.4	19.0	3.66	42.1	173	73.8	<.2	7.8	34.7	377	359	.070	.79
FEB 15...	49.3	14.0	2.18	57.8	128	109	<.2	6.8	26.5	375	351	.050	.56
MAY 23...	43.5	12.7	2.17	40.4	120	70.9	E.1	6.0	27.4	313	279	.180	.91
AUG 14...	43.7	14.4	4.46	43.9	117	77.2	<.2	6.7	37.9	313	310	.440	.84

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV 21...	.11	.98	3.60	.024	4.4	4.6	.077	.036	.059	.7	<.1	8.4	.7
FEB 15...	.05	.58	2.02	<.003	2.6	2.6	.123	.022	.070	1.2	<.1	5.4	1.2
MAY 23...	.19	1.2	.899	.034	1.8	2.1	.249	.069	.115	2.2	<.1	10	2.2
AUG 14...	.40	1.1	2.42	.123	3.3	3.5	.170	.079	.144	1.9	<.1	5.3	1.9

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 21...	<1.0	--	55	5
FEB 15...	<1.0	--	20	8
MAY 23...	2.9	14.6	24	14
AUG 14...	E2.1	6.90	48	7

E Estimated value.
< Actual value is known to be less than the value shown.

01443250 PAULINS KILL AT WARBASSE JUNCTION ROAD, NEAR LAFAYETTE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
AUG													
14...	1100	--	--	--	--	--	--	6	18.3	<.06	47	.05	M
14...	1100	7.47	760	2.2	310	34	13	--	--	--	--	--	--

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)
AUG													
14...	4.3	680	3	186	<.01	2	.4	.26	12	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	2	.2	13	5.8

DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MATERIAL AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	14	16000	15	370	.03	15	<1	70	<50	<50	<50	<50	<50

DATE	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<50	E30	70	80	70	60	70	100	<50	140	60	<50	<50

DATE	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<50	<50	<50	<50	<50	<5	<50	<50	50	<50	<50	120	3

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG	
14...	--
14...	8

E Estimated value.
< Actual value is known to be less than the value shown.

01443250 PAULINS KILL AT WARBASSE JUNCTION ROAD, NEAR LAFAYETTE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB 15...	1115	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 15...	<.10	<.2	.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.6

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 15...	<.2	<.20	<.10	<.10	.4	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
MAY 23...	1100	.009	<.002	<.005	.015	<.010	E.007	<.020	<.005	<.018	<.003	E.005	E.003

DATE	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)
MAY 23...	<.005	<.002	<.004	<.035	<.027	<.050	E.006	<.006	<.002	<.007	<.003	<.010	E.013

DATE	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 23...	<.011	<.016	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

01443250 PAULINS KILL AT WARBASSE JUNCTION ROAD, NEAR LAFAYETTE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
05...	1040	490	400	300
11...	1105	2200	700	2300
18...	1050	790	800	70
25...	1130	460	600	60
AUG				
01...	1115	790	400	160

01443500 PAULINS KILL AT BLAIRSTOWN, NJ

LOCATION.--Lat 40°58'44", long 74°57'15", Warren County, Hydrologic Unit 02040105, 1,200 ft upstream from bridge on State Highway 94 in Blairstown, 1,400 ft upstream from Blairs Creek, and 10 mi upstream from mouth. Water-quality samples collected at bridge, 1,200 ft downstream from gage, at high flows.

DRAINAGE AREA.--126 mi^2.

PERIOD OF RECORD.--Water years 1921, 1925, 1957-60, 1962-63, 1976 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 28...	1100	87	--	.118	.088	753	98	12.5	8.1	480	--	4.5	180
FEB 27...	1100	405	--	.103	.077	758	102	14.0	8.0	463	8.0	2.0	140
MAY 17...	1100	72	5.4	.090	.067	755	92	9.0	8.2	534	16.0	16.0	210
AUG 23...	0830	20	4.7	.097	.072	754	71	6.2	8.2	580	18.0	21.5	210

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 28...	46.3	16.6	1.82	26.4	149	46.7	<.2	6.4	20.4	271	258	.040	.28
FEB 27...	35.4	12.2	1.45	34.1	110	63.3	<.2	4.9	17.9	256	238	<.030	.18
MAY 17...	50.8	19.7	1.40	28.6	175	53.5	<.2	3.8	18.4	279	284	<.030	.28
AUG 23...	46.6	23.2	1.89	33.9	170	65.8	<.2	2.8	21.7	316	299	<.030	.32

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV 28...	<.03	.29	.951	<.003	1.2	1.2	.047	.007	.016	.4	<.1	3.5	.4
FEB 27...	<.03	.28	.838	<.003	1.0	1.1	.071	.005	.019	.6	<.1	3.2	.6
MAY 17...	<.03	.35	.543	.014	.82	.89	.100	.017	.040	.9	<.1	2.8	.9
AUG 23...	.04	.40	.233	<.003	.55	.64	.084	.026	.043	.6	<.1	2.9	.6

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 28...	<1.0	--	17	<1
FEB 27...	E1.3	--	E9	6
MAY 17...	E1.4	8.40	20	6
AUG 23...	<1.0	5.00	23	6

E Estimated value.
< Actual value is known to be less than the value shown.

01443500 PAULINS KILL AT BLAIRSTOWN, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01...	0830	230	100	140	15...	1040	260	<100	50
08...	0905	80	<100	50	22...	0910	130	200	70
					29...	0900	330	100	270

< Actual value is known to be less than the value shown.

01445160 BEAR BROOK AT DARK MOON ROAD, NEAR JOHNSONBURG, NJ

LOCATION.--Lat 40°58'30", long 74°50'57", Warren County, Hydrologic Unit 02040105, at bridge on Dark Moon Road 1.3 mi northeast of Johnsonburg, 0.4 mi northeast of CONRAIL railroad tunnel, and 0.5 mi northwest of Francis Lake.

DRAINAGE AREA.--5.10 mi^2.

PERIOD OF RECORD.--November 2000 to August 2000.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
29...	1030	1.0	--	.037	.028	746	97	11.4	8.1	456	8.0	7.5	210
FEB													
07...	1300	7.2	--	.101	.077	753	96	12.1	7.9	391	6.5	5.0	160
MAY													
22...	1110	7.7	36	.215	.166	743	82	8.3	7.8	338	19.0	13.5	150
AUG													
09...	0920	.62	1.1	.016	.013	744	135	13.4	7.3	454	30.0	14.5	220

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
29...	50.8	20.3	1.68	10.3	201	18.2	<.2	7.6	20.0	267	256	<.030	.11
FEB													
07...	41.1	14.2	1.51	13.9	138	26.0	<.2	7.8	16.1	221	207	<.030	.24
MAY													
22...	34.0	14.9	1.34	10	137	16.5	<.2	5.0	13.4	204	180	.040	.48
AUG													
09...	53.3	21.3	1.46	13.1	199	23.9	<.2	7.8	18.8	277	267	.070	E.08

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
29...	.03	.30	1.43	<.003	1.5	1.7	.028	.004	.008	.3	<.1	1.3	.3
FEB													
07...	<.03	.32	.780	<.003	1.0	1.1	.121	.011	.021	.6	<.1	3.2	.6
MAY													
22...	.06	1.1	.645	.004	1.1	1.8	.600	.035	.143	5.6	<.1	6.2	5.5
AUG													
09...	.08	.12	1.80	<.003	--	1.9	.077	E.003	<.004	.4	<.1	.74	.4

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
29...	<1.0	--	15	<1
FEB				
07...	<1.0	--	E8	3
MAY				
22...	3.1	9.50	E9	44
AUG				
09...	E1.5	2.20	E9	<1

E Estimated value.
< Actual value is known to be less than the value shown.

01445160 BEAR BROOK AT DARK MOON ROAD, NEAR JOHNSONBURG, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01...	0815	20	100	3600	15...	1053	20	<100	2900
08...	0745	70	<100	800	22...	0850	80	<100	2100
					29...	0845	230	200	660

< Actual value is known to be less than the value shown.

01445900 HONEY RUN NEAR HOPE, NJ

LOCATION.--Lat 40°53'33", long 74°53'42", Warren County, Hydrologic Unit 02040105, at bridge on County Route 519 1.0 mi east of Swayzes Mills, 1.4 mi southwest of Hope, and 1.6 mi downstream of Hope Pond.

DRAINAGE AREA.--10.2 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV 16...	1100	--	.178	.137	755	89	11.1	7.8	352	--	5.5	140	36.2
FEB 22...	1000	--	.076	.057	764	93	13.6	7.8	386	-4.5	.00	140	35.9
MAY 16...	1000	7.1	.146	.113	753	66	6.9	7.9	418	17.0	13.0	180	45.5
AUG 15...	1000	4.3	.141	.107	756	44	3.8	7.8	384	23.0	22.5	180	42.7

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV 16...	12.3	2.88	13.2	122	23.0	<.2	9.6	22.1	202	193	<.030	.29	.03
FEB 22...	12.0	1.38	17.6	110	35.4	<.2	5.1	21.7	210	198	<.030	.15	<.03
MAY 16...	16.4	.94	17.1	165	29.2	<.2	9.3	11.9	252	230	.100	.44	.10
AUG 15...	16.9	1.71	12.5	164	20.8	<.2	9.4	10.1	218	213	<.030	.31	.12

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV 16...	.39	.064	<.003	.36	.46	.070	.020	.045	.5	<.1	5.1	.5	<1.0
FEB 22...	.21	.687	<.003	.84	.90	.030	.007	.017	.4	<.1	2.3	.4	<1.0
MAY 16...	.53	.253	.018	.69	.78	.100	.034	.069	.6	<.1	3.7	.6	E1.2
AUG 15...	.34	.093	<.003	.40	.43	.073	.061	.083	.6	<.1	4.0	.6	<1.0

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 16...	--	E11	18
FEB 22...	--	E11	5
MAY 16...	2.50	14	2
AUG 15...	9.00	17	<1

E Estimated value.
< Actual value is known to be less than the value shown.

01445900 HONEY RUN NEAR HOPE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
AUG													
15...	1000	--	--	--	--	--	--	E1	9.3	<.06	16	<.04	<1
15...	1000	7.50	580	3.9	270	8.7	3.4	--	--	--	--	--	--

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)
AUG													
15...	.6	200	<1	145	<.01	<1	<.4	<.05	2	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	1	11	11	5.4

DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MATERIAL AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)
AUG													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	13	18000	17	660	.03	<.1	<1	60	60	<50	50	E30	<50

DATE	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)
AUG													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<50	110	320	310	260	180	260	360	60	650	210	<50	<50

DATE	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)
AUG													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<50	E30	E30	<50	E40	<5	<50	E40	460	<50	<50	560	4

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG	
15...	--
15...	9

E Estimated value.
< Actual value is known to be less than the value shown.

01445900 HONEY RUN NEAR HOPE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB													
22...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB													
22...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB									
22...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
MAY													
16...	1000	<.004	<.002	<.005	E.006	<.010	<.041	<.020	<.005	<.018	<.003	E.003	<.005

DATE	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)
MAY													
16...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	E.002

DATE	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
16...	<.011	<.016	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

01445900 HONEY RUN NEAR HOPE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01...	1010	50	400	300	15...	1100	790	800	520
08...	0915	490	500	330	22...	1030	700	<100	230
					29...	1020	5400	1700	4000

< Actual value is known to be less than the value shown.

01446400 PEQUEST RIVER AT BELVIDERE, NJ

LOCATION.--Lat 40°49'45", long 75°04'44", Warren County, Hydrologic Unit 02040105, at bridge on County Route 619 in Belvidere, and 0.3 mi upstream from mouth.

DRAINAGE AREA.--158 mi^2.

PERIOD OF RECORD.--Water years 1957, 1962, 1976-82, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 02...	1230	61	--	.089	.068	757	110	12.6	8.4	530	20.0	9.0	240
FEB 13...	1220	258	--	.113	.085	763	114	15.3	8.3	503	8.5	3.0	200
MAY 16...	0910	109	4.8	--	--	755	97	10.3	8.4	540	21.0	12.0	230
AUG 09...	1140	38	1.3	.073	.056	744	129	10.8	8.5	511	43.5	23.0	230

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 02...	53.9	25.0	1.95	17.9	209	34.0	<.2	7.0	22.3	302	294	.080	.24
FEB 13...	47.1	20.1	1.48	20.3	177	41.4	<.2	7.6	24.0	290	274	.060	.23
MAY 16...	53.6	23.8	1.70	17.3	210	34.4	E.1	7.1	21.6	348	292	<.030	.21
AUG 09...	50.6	25.5	2.04	20.9	206	37.7	E.1	7.8	24.9	318	299	.040	--

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV 02...	.05	.28	1.31	.016	1.5	1.6	<.022	.056	.062	.3	<.1	2.9	.3
FEB 13...	.04	.43	1.28	.008	1.5	1.7	.046	.025	.050	.8	<.1	3.6	.8
MAY 16...	<.03	.35	1.46	.036	1.7	1.8	.150	.050	.070	1.0	<.1	2.4	1.0
AUG 09...	.08	.37	1.37	.016	--	1.7	.066	.122	.132	.5	<.1	2.3	.5

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 02...	E1.7	--	E13	5
FEB 13...	<1.0	--	14	11
MAY 16...	E1.4	3.80	E13	4
AUG 09...	E1.8	3.60	E13	3

E Estimated value.
< Actual value is known to be less than the value shown.

01446400 PEQUEST RIVER AT BELVIDERE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01...	1000	1300	500	840	15...	0950	1400	1300	340
08...	0940	460	200	410	22...	1015	330	200	160
					29...	1000	170	400	460

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA

LOCATION.--Lat 40°39'42", long 75°37'38", Lehigh County, PA, Hydrologic Unit 02040106, at wooden covered bridge at Trexler-Lehigh County Game Preserve, 1.0 mi downstream from Mill Creek, and 1.1 mi southwest of Schnecksville.

DRAINAGE AREA.--53.0 mi^2.

PERIOD OF RECORD.--Water years 1996 to September 2001 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 1999 to June 1999, October 2000 to September 2001.

INSTRUMENTATION.--Water-temperature data logger (in-situ system; measurements recorded every 15 or 30 minutes), located 50 ft downstream from bridge.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA). For the definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Fish community for this and other sites are presented in "Water-Quality at Miscellaneous Surface-Water Sites."

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
OCT												
12...	0850	ENVIRONMENTAL	16	758	105	12.5	7.9	213	4.5	7.4	82	22.1
NOV												
06...	1020	ENVIRONMENTAL	13	756	120	15.2	8.2	218	13.5	5.0	83	23.0
DEC												
12...	1310	ENVIRONMENTAL	27	753	134	18.7	8.0	185	5.0	1.2	70	19.4
FEB												
06...	1500	ENVIRONMENTAL	95	748	128	16.4	7.5	218	6.0	4.1	69	19.0
MAR												
13...	1020	ENVIRONMENTAL	346	743	100	12.8	7.3	210	3.0	3.7	61	17.0
APR												
03...	*1119*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
03...	1120	ENVIRONMENTAL	157	754	106	13.1	7.5	187	14.5	5.7	65	17.7
03...	*1121*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
MAY												
07...	1450	ENVIRONMENTAL	27	761	142	12.8	8.6	196	21.5	20.4	73	20.3
JUN												
05...	1420	ENVIRONMENTAL	75	760	--	--	8.6	198	26.0	20.0	75	20.7
05...	*1421*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	*75*	*20.6*
26...	1400	ENVIRONMENTAL	184	757	--	--	7.6	201	29.0	19.7	72	19.8
AUG												
20...	1040	ENVIRONMENTAL	9.4	747	141	11.5	8.4	220	27.5	24.5	84	23.1

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT													
12...	6.53	1.62	6.0	48	59	--	11.8	<.2	3.2	21.0	.22	.25	<.041
NOV													
06...	6.21	1.60	6.3	46	57	--	11.2	E.1	2.0	21.4	.14	.45	<.041
DEC													
12...	5.26	1.16	5.6	--	--	--	10.3	<.2	5.3	20.8	.12	.12	<.041
FEB													
06...	5.18	1.21	10.9	22	27	--	21.9	<.2	6.7	19.0	.18	.20	<.041
MAR													
13...	4.42	1.39	12.7	23	28	--	26.0	<.2	5.0	16.4	.24	.84	E.025
APR													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	5.03	1.05	6.8	21	26	--	13.8	<.2	5.8	18.0	.15	.18	<.041
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
07...	5.52	1.12	6.8	38	46	--	13.8	<.2	2.9	19.1	.18	.24	<.041
JUN													
05...	5.74	1.00	6.8	33	37	1	14.0	<.2	6.0	18.8	.14	.20	<.040
05...	*5.69*	*1.00*	*6.8*	--	--	--	*13.8*	*<.2*	*6.0*	*18.6*	*.18*	*.25*	*<.040*
26...	5.56	1.36	6.3	30	37	--	12.5	<.2	7.9	17.5	.12	.20	<.040
AUG													
20...	6.37	1.58	7.6	57	62	4	15.2	E.1	3.7	17.9	.21	.27	E.024

< Actual value is known to be less than the value shown.

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT													
12...	3.3	3.2	3.02	E.004	--	E.003	<.018	.020	--	--	1.9	<.2	118
NOV													
06...	3.3	3.0	2.90	.006	--	E.005	E.009	.020	--	--	1.6	<.2	118
DEC													
12...	4.2	4.2	4.12	E.005	--	E.005	<.018	.008	--	--	1.1	--	107
FEB													
06...	5.7	5.6	5.46	.008	<.022	.008	<.018	.014	.4	--	1.2	--	123
MAR													
13...	4.6	4.0	3.79	.006	.500	.010	<.018	.178	4.6	<.1	2.9	4.6	127
APR													
03...	--	--	--	--	*.087*	--	--	--	*.1*	*<.1*	*<.15*	*.1*	--
03...	5.7	5.6	5.50	E.005	.040	E.005	<.018	.012	E.4	<.1	1.1	E.4	115
03...	--	--	--	--	*.098*	--	--	--	*.3*	*<.1*	*1.0*	*.3*	--
MAY													
07...	3.4	3.4	3.19	.011	.087	.007	<.018	.013	E.7	<.1	1.6	E.7	108
JUN													
05...	4.7	4.6	4.48	.011	.038	.007	<.020	.016	.3	<.1	1.8	.3	117
05...	*4.8*	*4.7*	*4.53*	*.011*	--	*.007*	*<.020*	*.016*	--	--	--	--	*131*
26...	5.2	5.1	5.03	.028	.052	.015	<.020	.026	.6	<.1	4.2	.6	133
AUG													
20...	1.9	1.9	1.65	.013	.050	E.004	<.020	.013	.3	<.1	2.8	.3	127

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT							
12...	114	<2.0	E12	10	5.8	.64	15
NOV							
06...	112	<2.0	13	10	3.6	.40	11
DEC							
12...	106	3.3	E9	M	5.2	.23	3
FEB							
06...	121	9.4	E10	<10	6.3	1.7	7
MAR							
13...	114	150	E6	40	11.3	147	158
APR							
03...	--	--	--	--	--	--	--
03...	105	6.7	16	M	6.2	2.4	6
03...	--	--	--	--	--	--	--
MAY							
07...	107	--	E6	20	6.9	--	<1
JUN							
05...	113	--	E10	30	5.5	1.1	5
05...	--	--	*E12*	*20*	*4.8*	--	*6*
26...	111	10	E12	10	6.3	3.3	7
AUG							
20...	117	4.7	15	20	E2.6	.03	1

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)
OCT													
12...	0850	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)
OCT													
12...	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3	<.2	<.1	<.03	<.06

DATE	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
OCT												
12...	<2	<.2	<.2	<.2	<.06	<.03	<.04	<.07	<.1	E.02	<.04	<.09

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	SAMPLE TYPE	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
OCT												
12...	0850	ENVIRONMENTAL	<.004	<.002	<.005	.016	<.010	<.041	<.020	<.005	<.018	<.003
FEB												
06...	1500	ENVIRONMENTAL	<.004	<.002	<.005	E.002	<.010	<.041	<.020	<.005	<.018	<.003
APR												
03...	*1119*	*FIELD BLANK*	*<.004*	*<.002*	*<.005*	*<.007*	*<.010*	*<.041*	*<.020*	*<.005*	*<.018*	*<.003*
03...	1120	ENVIRONMENTAL	<.004	<.005	<.005	.026	<.010	<.041	<.020	<.005	<.018	<.003
03...	*1121*	*SPLIT REPLICATE*	*<.004*	*<.004*	*<.005*	*.021*	*<.010*	*<.041*	*<.020*	*<.005*	*<.018*	*<.003*
MAY												
07...	1450	ENVIRONMENTAL	<.004	<.002	<.005	.022	<.010	<.041	<.020	<.005	<.018	<.003
JUN												
05...	1420	ENVIRONMENTAL	<.004	<.002	<.005	.060	<.010	<.041	<.020	<.005	<.018	<.003
26...	1400	ENVIRONMENTAL	.005	<.002	<.005	.177	<.010	<.041	<.020	<.005	<.018	<.003
AUG												
20...	1040	ENVIRONMENTAL	<.004	<.002	<.005	.025	<.010	<.041	<.020	<.005	<.018	<.003

DATE	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
OCT													
12...	E.016	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003
FEB													
06...	<.006	<.015	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003
APR													
03...	*<.006*	*<.005*	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*	*<.013*	*<.006*	*<.008*	*<.007*	*<.003*
03...	E.027	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.026	<.006	<.010	<.100	<.003
03...	*E.020*	*<.005*	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*	*.024*	*<.006*	*<.002*	*<.007*	*<.003*
MAY													
07...	E.013	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.011	<.006	<.002	<.007	<.003
JUN													
05...	E.030	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.032	<.006	<.002	<.007	<.003
26...	E.025	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.154	<.006	<.002	<.007	E.002
AUG													
20...	E.012	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.006	<.006	<.002	<.007	<.003

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT							
12...	<.010	E.002	.016	<.016	<.034	<.005	<.009
FEB							
06...	<.010	<.015	<.011	<.016	<.034	<.005	<.009
APR							
03...	*<.010*	*<.015*	*<.011*	*<.016*	*<.034*	*<.005*	*<.009*
03...	<.010	<.015	<.011	<.016	<.034	<.005	<.009
03...	*<.010*	*<.015*	*E.006*	*<.016*	*<.034*	*<.005*	*<.009*
MAY							
07...	<.010	E.007	.616	<.016	<.034	<.005	<.009
JUN							
05...	<.010	<.015	.064	<.016	<.034	<.005	<.009
26...	<.010	<.015	E.009	<.016	<.034	<.005	<.009
AUG							
20...	<.010	<.015	.012	<.016	<.034	<.005	<.009

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	10.5	5.0	7.5	4.5	2.0	3.0	.0	.0	.0
2	---	---	---	10.5	5.0	7.5	2.5	.0	1.0	.0	.0	.0
3	---	---	---	10.5	5.0	8.0	.5	.0	.0	.0	.0	.0
4	---	---	---	11.0	7.5	9.0	.0	.0	.0	.0	.0	.0
5	---	---	---	9.5	6.0	7.5	.0	.0	.0	.0	.0	.0
6	---	---	---	9.0	3.5	6.0	.5	.0	.0	.0	.0	.0
7	---	---	---	9.0	3.5	6.0	.0	.0	.0	.0	.0	.0
8	---	---	---	9.5	5.0	7.5	.5	.0	.0	.0	.0	.0
9	---	---	---	10.5	8.5	9.5	.5	.0	.0	.5	.0	.0
10	---	---	---	12.0	10.5	11.0	.0	.0	.0	.0	.0	.0
11	---	---	---	11.5	8.5	10.0	.5	.0	.0	.0	.0	.0
12	---	---	---	10.0	7.0	8.5	1.5	.0	.5	.5	.0	.0
13	14.5	7.5	11.0	10.0	8.0	9.0	.0	.0	.0	.5	.0	.0
14	15.5	9.0	12.0	9.5	6.5	9.0	.5	.0	.0	.0	.0	.0
15	16.5	10.0	13.0	7.0	4.5	5.5	1.0	.0	.5	.0	.0	.0
16	14.5	13.0	13.5	6.0	3.5	5.0	2.0	.0	1.0	.5	.0	.0
17	14.0	12.0	13.0	7.5	4.0	5.5	7.0	1.5	5.0	.0	.0	.0
18	14.0	12.0	13.0	5.0	3.0	4.0	5.0	3.0	3.5	.0	.0	.0
19	14.5	10.5	12.0	4.0	1.5	2.5	3.5	2.5	3.0	.0	.0	.0
20	14.0	7.5	10.5	2.5	.0	1.0	3.0	.5	2.0	.0	.0	.0
21	15.0	8.5	11.5	2.0	.0	.5	1.5	.0	.5	.0	.0	.0
22	14.5	9.5	11.5	1.0	.0	.0	2.5	.0	1.0	.0	.0	.0
23	12.5	6.5	9.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
24	12.0	7.5	9.5	.5	.0	.0	.0	.0	.0	.0	.0	.0
25	15.0	9.0	11.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	14.5	9.5	12.0	3.0	.0	1.5	.0	.0	.0	.0	.0	.0
27	15.0	9.5	12.0	6.0	3.0	4.5	.0	.0	.0	.0	.0	.0
28	14.0	8.0	11.5	7.0	5.0	6.0	.0	.0	.0	.0	.0	.0
29	10.0	5.5	7.5	6.0	3.5	4.5	.0	.0	.0	.0	.0	.0
30	9.5	5.0	7.0	6.0	4.0	5.0	.0	.0	.0	.0	.0	.0
31	10.5	5.0	7.0	---	---	---	.0	.0	.0	.5	.0	.0
MONTH	---	---	---	12.0	.0	5.4	7.0	.0	.7	.5	.0	.0

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.5	.0	1.0	3.5	.5	2.5	---	---	---	22.0	11.5	16.5
2	2.5	1.5	2.0	5.0	2.0	3.5	---	---	---	23.5	13.5	18.5
3	2.5	.0	1.0	6.5	4.0	5.0	---	---	---	23.5	15.5	19.5
4	3.0	.0	1.0	4.5	.0	3.0	12.0	6.0	9.0	25.5	17.0	21.0
5	1.5	.0	.5	2.0	.0	.5	12.5	5.0	9.0	22.0	16.5	19.5
6	4.0	.0	2.5	4.0	.0	2.0	9.5	7.0	8.0	22.0	12.0	16.5
7	5.5	2.0	3.5	7.0	1.5	4.0	9.0	7.5	8.0	21.5	11.0	15.5
8	3.5	1.0	2.0	6.0	2.5	4.0	8.5	7.0	7.5	20.5	11.5	15.5
9	5.5	2.5	3.5	6.0	2.5	4.0	17.0	8.0	12.0	22.0	13.5	17.0
10	5.0	2.0	4.0	7.0	1.5	4.0	16.0	11.5	14.0	23.0	13.0	17.5
11	2.5	.0	1.5	5.5	1.5	3.5	13.5	10.0	11.5	25.0	14.5	19.0
12	2.0	.0	1.0	7.0	1.5	4.0	11.0	9.5	10.5	22.5	16.5	19.0
13	6.0	2.0	3.5	5.0	3.5	4.5	17.0	10.5	13.0	22.5	14.0	17.5
14	4.0	3.0	3.5	7.0	4.5	5.5	16.5	9.5	12.5	19.5	12.0	15.5
15	5.0	4.0	4.5	6.0	3.5	5.0	14.0	9.0	12.0	22.0	11.0	15.5
16	4.0	3.5	3.5	7.5	5.0	6.5	12.5	10.5	11.5	22.5	11.5	16.0
17	5.0	1.0	3.5	6.5	5.0	6.0	10.5	7.0	9.0	16.5	13.5	14.5
18	2.5	.0	1.0	8.0	4.0	5.5	11.5	6.0	8.0	14.0	13.0	13.5
19	2.5	.0	1.0	8.5	3.0	5.5	12.5	5.0	8.5	24.5	14.0	18.0
20	5.0	2.0	3.0	8.5	3.0	6.0	10.5	6.0	8.5	19.0	15.5	17.0
21	6.0	1.5	4.0	7.0	5.5	6.0	13.0	9.5	11.0	15.5	13.0	14.0
22	1.5	.0	.0	7.0	5.0	6.0	19.0	11.0	14.5	15.5	13.0	14.5
23	1.0	.0	.5	9.5	4.5	6.5	21.5	13.5	17.5	19.5	14.5	16.5
24	2.0	.0	1.0	7.5	5.0	6.0	20.5	15.0	17.5	23.0	15.5	18.5
25	2.0	1.0	1.5	7.5	2.5	5.0	15.0	11.0	13.0	18.5	15.5	17.0
26	6.0	2.0	3.5	---	---	---	17.0	7.5	12.0	15.5	14.5	15.0
27	5.5	1.5	3.5	---	---	---	18.5	8.5	13.5	16.5	14.0	15.0
28	5.5	2.5	4.0	---	---	---	18.0	11.0	14.0	18.0	14.0	15.5
29	---	---	---	---	---	---	17.5	8.0	12.5	17.0	13.0	15.0
30	---	---	---	---	---	---	19.0	8.5	14.0	17.5	13.5	15.0
31	---	---	---	---	---	---	---	---	---	18.0	11.5	14.5
MONTH	6.0	.0	2.3	9.5	.0	4.6	21.5	5.0	11.6	25.5	11.0	16.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.5	11.5	13.0	24.0	19.5	21.5	27.5	18.0	22.5	26.5	20.0	23.0
2	16.5	12.5	14.5	22.0	16.5	19.0	28.5	19.5	23.5	24.0	16.0	19.5
3	16.5	14.0	15.5	21.0	14.5	18.0	27.0	21.0	23.5	24.5	15.5	19.5
4	17.5	13.0	15.0	22.5	17.5	20.0	26.0	21.0	23.5	24.0	18.5	21.0
5	20.5	13.5	16.5	23.5	18.5	20.5	28.0	21.0	24.0	25.0	17.5	20.5
6	19.0	15.5	17.0	22.5	17.0	19.5	29.5	22.0	25.5	24.0	15.0	19.0
7	22.0	15.5	18.0	23.5	15.5	19.0	31.0	23.0	26.5	25.0	15.0	19.5
8	22.5	14.5	18.0	20.5	18.5	19.5	32.0	24.0	27.5	25.5	17.0	21.0
9	22.5	14.0	17.5	26.0	18.5	22.0	32.0	23.0	27.5	25.5	18.5	21.5
10	21.0	14.5	17.5	25.5	19.5	22.5	29.5	25.5	27.0	24.5	20.0	22.0
11	22.0	16.0	19.0	25.0	19.0	21.5	25.5	22.0	23.5	24.5	17.0	20.5
12	25.5	17.0	21.0	24.0	17.5	20.5	24.0	21.5	22.5	24.0	15.5	19.5
13	26.5	19.0	22.5	20.5	16.5	18.5	27.5	22.0	24.5	24.0	15.5	19.5
14	27.0	20.5	23.0	21.5	15.5	18.5	28.0	21.5	24.5	20.0	15.5	18.0
15	25.5	21.0	22.5	23.5	16.0	19.5	28.0	20.5	24.0	20.5	12.5	16.0
16	23.0	20.5	21.5	23.5	17.0	20.5	28.0	20.5	24.0	20.5	12.0	16.0
17	23.0	19.0	20.5	27.5	19.5	22.5	27.5	22.5	24.5	21.0	12.5	16.5
18	24.5	17.5	20.5	26.5	20.5	23.0	26.0	20.0	23.0	19.5	14.0	16.5
19	25.5	17.5	21.5	27.0	20.0	23.0	27.0	20.5	23.5	21.0	14.0	17.5
20	26.5	19.0	22.0	28.0	18.5	22.5	29.5	22.5	25.0	18.0	17.5	18.0
21	23.0	19.5	21.0	27.5	17.5	22.0	26.0	20.5	23.0	20.5	17.5	18.5
22	21.0	17.5	19.5	27.0	18.5	22.0	27.5	19.0	22.5	21.5	16.5	18.5
23	18.0	16.5	17.5	29.0	18.5	23.5	22.0	20.0	21.0	22.5	16.5	19.0
24	19.0	16.0	17.0	30.5	21.5	25.5	27.0	19.0	22.5	19.5	17.5	18.5
25	19.5	15.5	17.5	31.0	23.5	26.5	27.0	19.0	22.5	19.0	15.5	17.5
26	20.5	16.5	18.0	24.5	21.0	22.5	27.0	19.0	22.5	15.5	13.0	14.5
27	22.0	17.0	19.5	25.5	18.0	21.0	25.0	21.0	22.5	14.5	12.5	13.5
28	23.5	18.0	20.5	25.0	17.5	21.0	27.5	20.0	23.0	14.5	11.0	13.0
29	24.0	19.0	21.5	22.5	19.0	20.5	27.0	19.5	22.5	14.5	12.5	13.0
30	25.5	19.5	22.5	26.0	19.0	21.5	23.5	19.0	21.5	13.0	10.5	12.0
31	---	---	---	25.0	18.5	21.5	27.5	21.0	23.5	---	---	---
MONTH	27.0	11.5	19.0	31.0	14.5	21.3	32.0	18.0	23.8	26.5	10.5	18.1
YEAR	32.0	.0	11.3									

01454700 LEHIGH RIVER AT GLENDON, PA

LOCATION.--Lat 40°40'09", long 75°14'12", Northampton County, PA, Hydrologic Unit 02040106, on right bank 140 ft upstream from highway bridge in Hugh Moore Parkway at Glendon, 1.9 mi upstream from mouth and 2.0 mi southeast of Easton.

DRAINAGE AREA.--1,359 mi^2.

PERIOD OF RECORD.--November 1998, revised, to August 2001 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1998 to April 1999.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (NAWQA). For the definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Minimum, -1.0°C, Feb. 24, 1999, but may have been lower during period of missing record.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT												
12...	1110	ENVIRONMENTAL	844	764	111	12.1	8.2	394	16.5	11.7	130	30.9
NOV												
06...	*1359*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
06...	1400	ENVIRONMENTAL	759	760	109	12.2	8.3	415	13.5	10.4	130	31.8
06...	*1401*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
DEC												
12...	1040	ENVIRONMENTAL	861	754	114	14.7	7.8	354	5.0	4.2	120	28.9
FEB												
06...	1050	ENVIRONMENTAL	2190	756	111	15.7	7.7	277	8.0	.9	81	20.6
MAR												
13...	1320	ENVIRONMENTAL	4190	746	101	12.5	7.7	294	7.5	5.5	80	20.9
APR												
03...	1440	ENVIRONMENTAL	5550	754	107	12.9	7.5	170	14.5	6.7	51	13.0
MAY												
07...	1050	ENVIRONMENTAL	1710	770	106	10.5	7.9	267	14.5	16.5	92	22.2
JUN												
05...	0930	ENVIRONMENTAL	2730	761	--	--	7.6	265	17.5	16.0	82	20.5
26...	0930	ENVIRONMENTAL	2420	765	--	--	7.6	260	25.0	20.5	90	22.8
AUG												
20...	1550	ENVIRONMENTAL	952	752	109	9.0	8.2	335	28.0	24.3	120	26.7

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
OCT													
12...	13.4	3.14	22.1	90	110	34.6	E.1	6.0	40.9	.27	.34	E.033	3.4
NOV													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
06...	12.9	3.44	26.5	91	111	34.3	.3	4.3	39.8	.27	.34	<.041	2.9
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
12...	11.9	2.87	21.0	82	100	29.9	E.1	5.5	35.8	.26	.37	E.031	3.4
FEB													
06...	7.22	1.79	18.2	47	57	31.5	<.2	5.5	23.5	.30	.39	.144	2.9
MAR													
13...	6.88	1.88	22.6	48	59	38.9	<.2	4.4	23.8	.29	.57	.149	2.6
APR													
03...	4.43	1.18	10.8	26	32	17.6	<.2	4.6	17.1	.15	.20	E.029	1.7
MAY													
07...	8.79	2.09	14.4	58	71	22.1	<.2	4.2	26.4	.26	.32	<.041	2.1
JUN													
05...	7.47	1.69	13.8	49	59	22.7	<.2	5.5	23.0	.24	.35	.051	2.2
26...	7.97	2.00	13.1	54	66	21.1	<.2	6.6	24.5	.20	.44	<.040	2.8
AUG													
20...	11.8	2.60	17.8	76	93	28.2	E.1	5.9	34.6	.20	.25	E.031	2.4

E Estimated value.
< Actual value is known to be less than the value shown.

01454700 LEHIGH RIVER AT GLENDON, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT													
12...	3.3	3.04	.025	--	--	.319	.302	.350	--	--	2.1	.2	224
NOV													
06...	--	--	--	--	--	--	--	--	--	--	*<.33*	*<.2*	--
06...	2.8	2.58	.014	--	--	.311	.276	.322	--	--	2.0	<.2	221
06...	--	--	--	--	--	--	--	--	--	--	*2.2*	*<.2*	--
DEC													
12...	3.3	3.01	.023	--	--	.277	.242	.320	--	--	1.8	.4	204
FEB													
06...	2.8	2.49	.022	.25	.037	.109	.108	.126	.4	--	2.0	--	165
MAR													
13...	2.4	2.08	.022	.42	.247	.096	.084	.163	2.8	<.1	2.1	2.8	163
APR													
03...	1.6	1.48	.007	--	.090	.034	.027	.050	.6	<.1	1.7	.6	100
MAY													
07...	2.0	1.74	.033	--	.130	.149	.116	.165	E.8	<.1	1.9	E.8	146
JUN													
05...	2.1	1.83	.019	.30	.230	.115	.091	.158	1.1	<.1	2.5	1.0	134
26...	2.5	2.35	.027	--	.122	.111	.072	.134	1.2	<.1	4.9	1.1	153
AUG													
20...	2.4	2.18	.019	--	.065	.189	.175	.186	.6	<.1	1.9	.6	196

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT							
12...	220	2.3	37	30	17.2	5.9	3
NOV							
06...	--	--	--	--	--	--	--
06...	220	<2.0	52	30	17.1	3.7	2
06...	--	--	--	--	--	--	--
DEC							
12...	199	3.5	34	10	28.6	18	8
FEB							
06...	148	2.1	19	30	40.1	13	2
MAR							
13...	158	37	E12	30	32.8	334	30
APR							
03...	91	4.7	21	20	38.9	79	5
MAY							
07...	143	--	24	30	24.8	8.3	2
JUN							
05...	132	--	18	40	28.5	78	11
26...	141	13	21	40	28.3	63	10
AUG							
20...	184	6.1	28	30	48.2	9.0	4

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)
OCT													
12...	1110	E.04	E.01	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03

E Estimated value.
< Actual value is known to be less than the value shown.

01454700 LEHIGH RIVER AT GLENDON, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)
OCT													
12...	<.04	<.06	<.07	<.03	<.2	.18	.16	E.04	<.3	<.2	<.1	<.03	<.06

DATE	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
OCT												
12...	<2	<.2	M	<.2	<.06	<.03	<.04	<.07	E.1	E.02	.17	<.09

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
OCT													
12...	1110	<.004	<.002	<.005	.061	<.010	<.041	<.025	<.005	<.018	<.003	E.068	<.005
FEB													
06...	1050	<.004	<.002	<.005	.024	<.010	<.041	<.100	<.005	<.018	<.003	E.032	<.005
APR													
03...	1440	<.004	<.002	<.005	.018	<.010	<.041	<.030	<.005	<.018	<.003	E.018	<.005
MAY													
07...	1050	<.004	<.002	<.005	.029	<.010	<.041	<.025	<.005	<.018	<.003	E.028	<.005
JUN													
05...	0930	<.004	<.002	<.005	.069	<.010	E.017	<.020	<.005	<.018	<.003	E.033	<.005
26...	0930	<.004	<.002	<.005	.126	<.010	<.041	<.020	<.005	<.018	<.003	E.019	<.005
AUG													
20...	1550	<.004	<.002	<.005	.042	<.010	<.041	<.020	<.005	<.018	<.003	E.040	E.004

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
OCT													
12...	<.005	<.002	<.004	<.035	<.027	<.050	E.013	<.006	<.002	<.007	<.003	<.010	E.013
FEB													
06...	<.005	<.002	<.004	<.035	<.027	<.050	E.010	<.006	<.002	<.007	<.003	<.010	E.004
APR													
03...	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003	<.010	.004
MAY													
07...	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003	<.010	E.006
JUN													
05...	<.005	<.002	<.004	<.035	<.027	<.050	.028	<.006	<.002	<.007	<.003	<.010	<.015
26...	<.005	<.002	<.004	<.035	<.027	<.050	.073	<.006	<.002	<.007	<.003	<.010	<.015
AUG													
20...	<.005	<.002	<.004	<.035	<.027	<.050	E.007	<.006	<.002	<.007	<.003	<.010	E.011

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01454700 LEHIGH RIVER AT GLENDON, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT						
12...	E.010	<.016	<.034	E.006	<.005	<.009
FEB						
06...	E.005	<.016	<.034	--	<.005	<.009
APR						
03...	E.009	<.016	<.034	--	<.005	<.009
MAY						
07...	E.006	<.016	<.034	--	<.005	<.009
JUN						
05...	.015	<.016	<.034	--	<.005	<.009
26...	.013	<.016	<.034	--	<.005	<.009
AUG						
20...	.020	<.016	<.034	--	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ

LOCATION.--Lat 40°35'32", long 75°11'11", revised, Warren County, Hydrologic Unit 02040105, at bridge on Riegelsville-Milford Road (County Route 627) in Riegelsville, 0.2 mi north of Mount Joy, and 0.2 mi upstream from mouth.

DRAINAGE AREA.--156 mi^2.

PERIOD OF RECORD.--Water years 1962, 1976 to current year.

REMARKS.--Water-quality samples do not include Riegelsville Paper Company bypass flow. Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
08...	1210	97	--	.038	.030	759	117	13.8	8.4	440	14.0	8.0	170
FEB													
12...	0920	241	--	.057	.043	776	100	14.4	7.5	454	-4.0	1.0	120
MAY													
16...	1320	145	2.6	.043	.033	760	107	10.7	8.4	441	20.0	15.0	170
AUG													
23...	1100	109	5.0	.041	.031	759	100	9.0	8.4	454	26.0	20.0	170

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
08...	36.7	19.3	1.83	19.4	141	39.1	E.1	6.5	19.2	242	237	.060	.41
FEB													
12...	27.9	11.8	1.59	37.6	83	73.9	<.2	8.0	16.5	242	235	<.030	.16
MAY													
16...	37.1	18.4	1.69	21.0	131	42.3	<.2	8.0	18.2	228	236	<.030	.66
AUG													
23...	35.9	19.7	2.38	21.2	135	46.1	<.2	7.7	19.5	251	244	.030	.28

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
08...	.05	.47	2.41	.010	2.8	2.9	.072	.004	.011	.4	<.1	1.9	.4
FEB													
12...	.08	.22	1.82	<.003	2.0	2.0	.128	.006	.031	.9	<.1	2.3	.9
MAY													
16...	.03	.82	2.53	.021	3.2	3.3	.100	.012	.033	.6	<.1	1.3	.6
AUG													
23...	.11	.35	2.35	.036	2.6	2.7	.101	.025	.043	.7	<.1	1.8	.7

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
08...	E1.1	--	19	9
FEB				
12...	3.1	--	E12	9
MAY				
16...	E1.6	9.00	21	1
AUG				
23...	<1.0	5.80	19	3

E Estimated value.
< Actual value is known to be less than the value shown.

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01...	0920	2400	200	140	15...	0915	9200	700	520
08...	1030	790	200	260	22...	0929	1700	700	170
					29...	0925	330	600	330

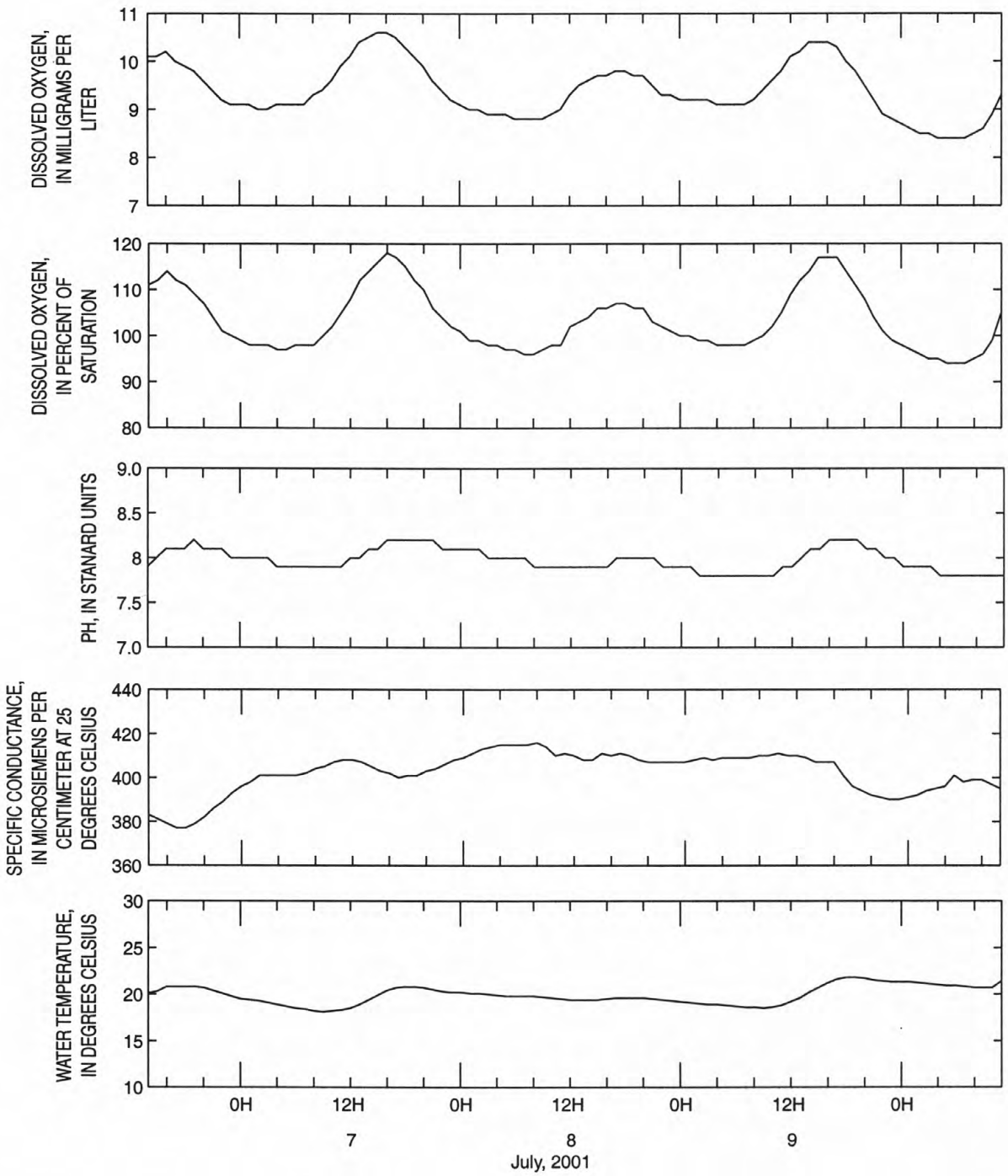


Figure 50. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01457400 Musconetcong River at Riegelsville, water year 2001.

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ

LOCATION.--Lat 40°35'36", long 75°11'17", Warren County, Hydrologic Unit 02040105, at suspension bridge at Riegelsville, 600 ft upstream from Musconetcong River (flow of which is included in the records for this station since Oct.1, 1931). Water-quality samples are collected from the bridge and do not include flow of the Musconetcong River.

DRAINAGE AREA.--6,328 mi^2.

PERIOD OF RECORD.--Water years 1934, 1943, 1950, 1960-79, 1991 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
29...	1030	5980	--	.068	.052	763	88	11.3	7.6	186	10.5	5.0	60
FEB													
08...	1045	7650	--	.061	.047	772	90	12.4	7.8	233	2.0	2.5	65
MAY													
16...	1045	3870	1.8	--	--	758	88	8.4	8.0	253	--	17.5	85
AUG													
22...	1100	3010	2.8	.046	.035	760	90	7.5	8.2	232	25.0	24.5	79

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
29...	15.9	4.97	1.46	10.4	43	14.2	<.2	3.2	17.4	105	98	.030	.20
FEB													
08...	17.5	5.23	1.28	15.5	42	27.4	<.2	5.0	16.3	123	119	.040	.14
MAY													
16...	21.9	7.50	1.67	13.2	61	21.5	<.2	3.7	21.1	163	133	.030	.20
AUG													
22...	19.4	7.37	1.72	13.4	57	20.3	<.2	3.5	22.8	137	129	<.030	.21

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
29...	.03	.78	.999	.010	1.2	1.8	.026	.062	.068	.4	<.1	2.4	.4
FEB													
08...	.06	.24	1.24	.007	1.4	1.5	.055	.042	.051	.4	<.1	2.1	.4
MAY													
16...	<.03	.29	1.30	.021	1.5	1.6	.079	.089	.102	.6	<.1	2.0	.6
AUG													
22...	<.03	.40	1.33	.011	1.5	1.7	.038	.103	.114	.4	<.1	1.8	.4

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
29...	<1.0	--	20	<1
FEB				
08...	E1.4	--	14	1
MAY				
16...	E1.6	4.40	17	<1
AUG				
22...	E1.3	3.90	21	14

E Estimated value.
< Actual value is known to be less than the value shown.

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01...	0910	130	300	220	15...	0910	330	100	260
08...	1015	110	<100	140	22...	0915	80	100	110
					29...	0915	80	200	160

< Actual value is known to be less than the value shown.

01458570 NISHISAKAWICK CREEK NEAR FRENCHTOWN, NJ

LOCATION.--Lat 40°32'32", long 75°02'49", Hunterdon County, Hydrologic Unit 02040105, 1.3 mi north of Frenchtown, 2.1 mi upstream from Delaware River, and 3.1 mi southeast of Milford.

DRAINAGE AREA.--10.1 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
08...	0910	1.4	--	.043	.034	760	101	12.7	7.8	205	6.0	5.5	59
FEB													
12...	1210	26	--	.045	.034	772	99	14.1	6.6	190	-0.5	1.5	57
MAY													
30...	1100	15	5.0	.063	.047	754	96	9.8	7.7	189	17.0	14.0	62
AUG													
09...	1220	5.3	1.9	.055	.042	745	99	8.1	7.7	193	31.5	24.0	66

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
08...	15.0	5.25	--	--	61	--	<.2	--	--	115	--	.040	.11
FEB													
12...	14.5	5.04	1.67	11.4	26	19.2	<.2	10.8	16.9	122	109	<.030	.10
MAY													
30...	15.6	5.51	1.46	9.9	39	15.3	<.2	11.8	16.4	119	111	.050	.18
AUG													
09...	17.0	5.78	1.95	9.9	54	13.6	<.2	11.1	11.9	122	110	.050	.13

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV													
08...	.03	.17	1.22	<.003	1.3	1.4	.035	.013	.025	.1	<.1	1.4	.1
FEB													
12...	<.03	.10	3.08	<.003	3.2	3.2	.071	.026	.031	.3	<.1	1.6	.3
MAY													
30...	.03	.19	2.72	.005	2.9	2.9	.051	.043	.050	.4	<.1	1.9	.4
AUG													
09...	.06	.14	1.37	<.003	1.5	1.5	<.022	.050	.051	.2	<.1	1.5	.2

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV				
08...	<1.0	--	32	15
FEB				
12...	E1.0	--	19	<1
MAY				
30...	E1.2	1.90	25	3
AUG				
09...	E2.1	2.10	31	1

E Estimated value.
< Actual value is known to be less than the value shown.

01458570 NISHISAKAWICK CREEK NEAR FRENCHTOWN, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
12...	1000	110	100	1100	02...	0915	80	200	580
19...	1000	1100	600	2500	09...	1125	490	600	670

01461000 DELAWARE RIVER AT LUMBERVILLE, PA

LOCATION.--Lat 40°24'27", long 75°02'16", Bucks County, Hydrologic Unit 02040105, at pedestrian bridge at Lumberville, 1.4 mi upstream from Lockatong Creek.

DRAINAGE AREA.--6,598 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 15...	1100	5130	--	.078	.061	754	92	10.7	7.8	183	--	8.5	63
FEB 27...	1000	12650	--	.082	.062	764	92	12.6	7.5	233	6.0	2.5	65
MAY 15...	1000	3700	2.8	.051	.039	758	82	7.9	8.1	250	21.0	17.0	88
AUG 01...	1000	3130	4.3	.062	.047	768	90	7.6	8.2	248	21.5	24.0	85

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 15...	16.4	5.43	1.49	10.2	46	14.6	<.2	2.2	15.8	103	98	<.030	.21
FEB 27...	17.1	5.39	1.54	18.4	42	31.0	<.2	4.6	17.2	134	125	.030	.17
MAY 15...	22.2	7.82	1.49	13.5	62	21.2	E.1	3.7	20.2	148	133	<.030	.27
AUG 01...	21.3	7.81	1.78	13.6	62	22.1	<.2	3.4	20.2	144	132	<.030	.22

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV 15...	<.03	.56	.878	.003	1.1	1.4	.071	.058	.067	.6	<.1	2.7	.6
FEB 27...	.05	.30	1.13	.004	1.3	1.4	.101	.022	.041	1.3	<.1	2.6	1.3
MAY 15...	<.03	.33	1.25	.013	1.5	1.6	.090	.070	.087	.6	<.1	2.1	.6
AUG 01...	<.03	.28	1.04	.005	1.3	1.3	.083	.076	.089	.5	<.1	2.6	.5

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 15...	E1.8	--	16	2
FEB 27...	E1.0	--	E13	4
MAY 15...	2.8	7.80	16	9
AUG 01...	<1.0	5.40	23	5

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
12...	1030	130	200	10	02...	1000	210	<100	10
19...	1030	170	100	50	09...	1050	110	100	220

< Actual value is known to be less than the value shown.

01461282 WICKECHEOKE CREEK NEAR SERGEANTSVILLE, NJ

LOCATION.--Lat 40°26'38", long 74°57'59", Hunterdon County, Hydrologic Unit 02040105, at Green Sergents Covered Bridge on County Route 604, 1.0 mi downstream of confluence with Plum Brook, and 1.2 mi west of Sergeantsville.

DRAINAGE AREA.--22.3 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
20...	0930	--	.087	.067	758	105	14.4	7.6	198	--	2.0	60	14.3
FEB													
27...	0915	--	.189	.148	765	99	14.1	7.3	143	5.5	1.0	34	8.43
MAY													
30...	1000	5.4	.196	.151	757	120	12.3	7.5	148	17.0	14.0	45	11.0
AUG													
01...	0930	1.8	.036	.028	768	92	9.0	7.4	176	21.0	17.0	56	13.0

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
20...	5.85	2.28	12.6	45	16.2	<.2	10.5	19.4	113	111	<.030	.13	<.03
FEB													
27...	3.26	1.49	10.9	19	16.4	<.2	8.1	14.3	81	78	.040	.22	.04
MAY													
30...	4.21	2.03	10.9	31	11.1	E.1	10.7	15.1	103	89	<.030	.34	<.03
AUG													
01...	5.75	1.90	10.7	38	11.4	<.2	15.8	16.0	113	111	<.030	E.09	<.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV													
20...	.18	.539	<.003	.67	.72	<.022	.015	.018	.2	<.1	3.0	.2	<1.0
FEB													
27...	.31	.753	<.003	.97	1.1	.060	.016	.036	.4	<.1	4.2	.4	3.0
MAY													
30...	.36	1.15	<.003	1.5	1.5	<.022	.033	.044	<.1	<.1	5.0	<.1	1.6
AUG													
01...	.12	3.00	<.003	--	3.1	.034	.055	.059	.2	<.1	1.2	.2	2.3

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV			
20...	--	E11	<1
FEB			
27...	--	18	1
MAY			
30...	1.20	17	3
AUG			
01...	4.40	14	2

E Estimated value.
< Actual value is known to be less than the value shown.

01461282 WICKECHEOKE CREEK NEAR SERGEANTSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG 01...	0930	M	52.3	<.06	12	<.04	<1	1.0	40	<1	3	<.01	<1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 01...	<.4	<.05	2

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 27...	0915	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 27...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 27...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 30...	1000	.152	.034	<.005	.756	<.010	<.041	<.020	E.002	<.018	<.003	E.065	<.005

< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01461282 WICKECHEOKE CREEK NEAR SERGEANTSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
30...	<.005	<.002	<.004	<.035	<.027	<.050	.124	<.006	<.002	<.007	<.003	<.010	E.003

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
30...	E.006	<.016	<.034	<.005	E.005

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
12...	0930	490	100	330
19...	1100	1100	800	1900
26...	0900	<20	<100	220
26...	1000	3500	2500	1000
26...	1030	790	400	500
26...	1100	130	200	150
AUG				
02...	0930	50	100	380
09...	1030	1700	500	860

E Estimated value.
< Actual value is known to be less than the value shown.

01463500 DELAWARE RIVER AT TRENTON, NJ

LOCATION.--Lat 40°13'18", long 74°46'42", Mercer County, Hydrologic Unit 02040105, New Jersey Department of Environmental Protection Watershed Management Area 11, at Calhoun Street Bridge at Trenton, 0.5 mi upstream from Assunpink Creek, and at river mile 134.5.

DRAINAGE AREA.--6,780 mi^2.

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

PERIOD OF DAILY RECORD.--
DISSOLVED OXYGEN: October 1962 to current year. Recorded as once daily during 1979.
pH: June 1968 to current year. Recorded as once daily during 1979.
SPECIFIC CONDUCTANCE: October 1963 to current year. Recorded as once daily during years 1964 to 1968, 1979.
SUSPENDED SEDIMENT DISCHARGE: September 1949 to September 1981.
WATER TEMPERATURE: October 1944 to current year. Recorded as once daily during years 1945 to 1953, 1962, 1964, 1979.
TURBIDITY: Water year 2000 to current year.

INSTRUMENTATION.--
TEMPERATURE MONITOR (graphic recorder at gage house, in situ system):
October 1953 to September 1961.
TEMPERATURE / DISSOLVED-OXYGEN MONITOR:
October 1962 to September 1965: graphic recorder; only dissolved-oxygen concentration recorded during water year 1964.
October 1965 to May 1968: digital recorder.
WATER-QUALITY MONITOR (continuous pumping system, measurements recorded hourly):
June 1968 to August 1975: water withdrawn from raw-water intake within Trenton Water Filtration Plant, Trenton, NJ.
November 1975 to November 1978: water withdrawn from river through PVC pipe to gage house outside Trenton Water Filtration Plant, Trenton, NJ.
December 1979 to September 1986: water withdrawn from raw-water intake within Trenton Water Filtration Plant, Trenton, NJ.
WATER-QUALITY MONITOR (in situ system, measurements recorded hourly):
October 1986 to September 1995: probes located inside raw-water intake of Trenton Water Filtration Plant, Trenton, NJ.
October 1995 to current year: monitor suspended within stilling well of Morrisville Water Filtration Plant, Morrisville, PA., 1600 feet upstream from the gage house.

REMARKS.--Replicate nutrient samples on Dec. 19 at 0931, Mar. 14 at 1121, June 4 at 1111, and Sep. 10 at 1201 were collected to fulfill the requirements of the Ambient Stream Monitoring Program. For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Unpublished records of suspended-sediment discharge for the period Oct. 1, 1981, to Mar. 31, 1982, are available at the U.S. Geological Survey Office in West Trenton, NJ. Beginning October, 1999, pH daily value tables reported maximum, minimum and median values. Continuous turbidity-record values less than 2 were below the instrument detection level. Missing continuous water-quality records are the result of instrument malfunction or interruption of flow through the filtration plant. The calibration of water-quality sensors is verified by regular inspections. Cleaning or recalibration is needed occasionally as a result of sensor fouling or drift. When a sensor is reclaibrated, the continuous-record water-quality data for the period between inspections are adjusted to account for the difference between the sensor's response and a known value. The adjustment may be constant over the period or may be prorated. Continuous-record water-quality data for periods for which the defference between the sensor's response and a known value does not exceed recalibration criteria are considered to be reliable and are not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection"). Data from the following periods were adjusted:
DISSOLVED OXYGEN: Oct. 3 to Dec. 14, Feb. 15 to Feb. 23, Apr. 17 to May 15, May 18 to June 1, June 14 to July 2, Aug. 1 to Sep. 13.
pH: Aug. 1 to Aug. 10.
TURBIDITY: Jan. 2 to Jan. 16, Mar. 22 to Apr. 3, Apr. 17 to May 1, May 18 to June 1.

COOPERATION.--Samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (NAWQA) with cooperation from the Delaware River Basin Commission. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, enterococcus bacteria, and dissolved hexavalent chromium on Dec. 19 at 0932, Mar. 14 at 1122, June 4 at 1112, and Sept. 10 at 1202 were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

EXTREMES FOR PERIOD OF DAILY RECORD.--
DISSOLVED OXYGEN: maximum, 20.0 mg/L, Feb. 11, 1989; minimum, 4.0 mg/L, Nov. 9, 1972, Sept. 9, 1995.
pH: maximum, 10.3, Aug. 9, 10, 1983; minimum 5.3, June 22, 1972.
SPECIFIC CONDUCTANCE: maximum, 468 uS/cm, Jan. 11, 1999; minimum, 63 uS/cm, July 7, 1984.
WATER TEMPERATURE: maximum, 34.0°C, June 18, 1957; minimum -0.6°C, on many days during winter months in water years 1954-57.
TURBIDITY: maximum, 1,300 ntu, Apr. 11, 2001; minimum, <2.0 ntu, on many days in water years 2000-01.

EXTREMES FOR CURRENT YEAR.--
DISSOLVED OXYGEN: Maximum, 17.5 mg/L, Mar. 12; minimum, 6.1 mg/L, Aug. 11.
pH: Maximum, 9.2 units, May 1; minimum, 6.3 units, Dec. 19.
SPECIFIC CONDUCTANCE: Maximum, 305 uS/cm, Dec. 17; minimum, 93 uS/cm, Dec. 19.
WATER TEMPERATURE: Maximum, 32.0°C, Aug. 9; minimum, 0.0°C, on several days during winter months.
TURBIDITY: Maximum, 1,300 ntu, Apr. 11; minimum, <2.0 ntu, on many days.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)
OCT												
10...	1030	ENVIRONMENTAL	4450	2.0	--	--	--	765	96	10.3	8.2	210
NOV												
02...	1340	ENVIRONMENTAL	3160	<2.0	--	--	--	762	142	15.6	9.0	231
DEC												
19...	0930	ENVIRONMENTAL	69500	200	72	.186	.146	760	102	14.3	7.1	87
19...	*0931*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
19...	0932	ENVIRONMENTAL	--	--	--	--	--	--	--	--	--	--
FEB												
05...	0920	ENVIRONMENTAL	7980	2.6	--	--	--	761	111	15.3	7.3	223
MAR												
14...	1120	ENVIRONMENTAL	16100	22	14	.079	.060	754	110	13.7	7.7	244
14...	*1121*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
14...	1122	ENVIRONMENTAL	--	--	--	--	--	--	--	--	--	--
APR												
02...	1020	ENVIRONMENTAL	34500	13	--	--	--	759	103	13.3	7.1	129
30...	0900	ENVIRONMENTAL	8340	2.7	--	--	--	759	109	11.0	8.5	183
JUN												
04...	1110	ENVIRONMENTAL	14000	--	9.5	.101	.076	753	104	9.8	7.8	197
04...	*1111*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
04...	1112	ENVIRONMENTAL	--	--	--	--	--	--	--	--	--	--
JUL												
02...	*1329*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
02...	1330	ENVIRONMENTAL	8290	42	--	--	--	764	108	8.9	8.2	207
02...	*1331*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
AUG												
07...	1400	ENVIRONMENTAL	3900	9.0	--	--	--	763	126	9.5	8.2	239
SEP												
10...	1200	ENVIRONMENTAL	3220	<2.0	2.6	.043	.032	762	128	10.6	8.6	232
10...	*1201*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
10...	1202	ENVIRONMENTAL	--	--	--	--	--	--	--	--	--	--

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
OCT													
10...	14.0	12.2	66	17.2	5.52	1.45	11.6	--	46	56	--	18.2	<.2
NOV													
02...	19.0	11.3	76	19.2	6.86	1.70	13.2	--	55	61	3	16.9	<.2
DEC													
19...	-0.5	1.3	25	6.76	1.86	1.79	5.2	58	--	--	--	9.2	<.2
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
05...	2.0	2.0	65	17.1	5.45	1.31	14.4	--	40	49	--	25.3	<.2
MAR													
14...	9.0	5.4	73	19.1	6.11	1.55	17.7	46	42	51	--	30.3	<.2
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
02...	7.5	4.4	35	9.71	2.71	.90	8.1	--	19	23	--	14.0	<.2
30...	17.5	14.7	63	16.5	5.25	1.17	10	--	42	51	--	17.9	<.2
JUN													
04...	21.5	17.4	69	18.2	5.68	1.22	11.5	47	45	55	--	18.2	E.1
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	25.0	25.1	71	18.1	6.28	1.54	11.4	--	47	57	--	18.5	<.2
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
07...	35.0	30.2	80	19.9	7.49	1.70	13.5	--	55	62	2	20.7	E.1
SEP													
10...	29.5	25.0	75	18.3	7.18	1.74	13.1	56	53	52	6	20.5	<.2
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--	--

E Estimated value.
< Actual value is known to be less than the value shown.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)
OCT													
10...	2.1	16.6	108	103	<.041	.20	--	.24	.748	E.005	.95	.99	--
NOV													
02...	.6	19.8	125	115	<.041	.19	--	.27	.745	.006	.93	1.0	--
DEC													
19...	3.0	8.8	63	49	.047	.33	--	.95	.753	E.003	1.1	1.7	1.2
19...	--	--	--	--	--	*.33*	--	--	*.721*	--	*1.0*	--	--
19...	--	--	--	--	.070	--	.08	--	--	<.003	--	--	--
FEB													
05...	4.5	16.5	133	115	<.041	.16	--	.17	1.30	E.005	1.5	1.5	--
MAR													
14...	3.7	18.4	147	128	<.041	.23	--	.54	1.35	.009	1.6	1.9	.250
14...	--	--	--	--	--	*.22*	--	--	*1.38*	--	*1.6*	--	--
14...	--	--	--	--	.030	--	.05	--	--	.007	--	--	--
APR													
02...	3.6	10.7	77	64	E.030	.16	--	.56	.748	E.004	.90	1.3	.184
30...	1.2	14.3	120	94	<.041	.17	--	.26	.561	.010	.73	.83	.130
JUN													
04...	4.9	14.8	116	106	<.040	.18	--	.40	.971	.007	1.2	1.4	.240
04...	--	--	--	--	--	*.18*	--	--	*.940*	--	*1.1*	--	--
04...	--	--	--	--	<.030	--	<.03	--	--	.004	--	--	--
JUL													
02...	--	--	--	--	--	--	--	--	--	--	--	--	*<.022*
02...	4.1	16.8	120	109	.045	.18	--	.48	.865	.021	1.0	1.4	.215
02...	--	--	--	--	--	--	--	--	--	--	--	--	*.230*
AUG													
07...	3.4	21.3	127	125	E.028	.20	--	.39	.929	.009	1.1	1.3	.144
SEP													
10...	1.0	20.3	124	117	<.040	.22	--	.27	.738	.009	.96	1.0	.067
10...	--	--	--	--	--	*.23*	--	--	*.794*	--	*1.0*	--	--
10...	--	--	--	--	<.030	--	<.03	--	--	.005	--	--	--

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT											
10...	.062	.048	.083	--	--	2.3	.4	--	--	47	4
NOV											
02...	.050	.037	.066	--	--	2.5	<.2	--	--	--	<1
DEC											
19...	.034	.018	.266	12	.4	4.8	12	--	43	39200	209
19...	*.033*	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	4.0	--	--	--
FEB											
05...	.031	.021	.043	--	--	2.1	--	--	--	1420	66
MAR											
14...	.022	E.016	.099	1.7	<.1	2.6	1.6	--	13	982	23
14...	*.024*	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	2.6	--	--	--
APR											
02...	.012	<.018	.078	1.3	<.1	2.7	1.3	--	--	2490	27
30...	.019	<.018	.031	.6	<.1	2.1	.6	--	--	47	2
JUN											
04...	.046	.039	.086	1.4	<.1	3.0	1.4	--	17	643	17
04...	*.046*	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	2.8	--	--	--
JUL											
02...	--	--	--	*.2*	*<.1*	*.49*	*.2*	--	--	--	--
02...	.059	.028	.126	2.0	<.1	4.3	1.9	--	--	611	27
02...	--	--	--	*2.0*	*<.1*	*3.8*	*2.0*	--	--	--	--
AUG											
07...	.084	.067	.109	1.1	<.1	2.4	1.1	--	--	126	12
SEP											
10...	.060	.044	.069	.4	<.1	2.1	.4	--	<10	12	1
10...	*.059*	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	<1.0	--	--	--

E Estimated value.
< Actual value is known to be less than the value shown.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, DIS-SOLVED (UG/L AS B) (01020)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	CHRO-MIUM, HEXA-VALENT, DIS. (UG/L AS CR) (01032)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT													
10...	1030	--	--	--	15	--	--	--	--	--	--	--	20
NOV													
02...	1340	--	--	--	20	--	--	--	--	--	--	--	20
DEC													
19...	0930	E2	67.6	.26	E8	8	.30	<.8	--	2	1.3	6.3	60
19...	0932	--	--	--	--	--	--	--	<5	--	--	--	--
FEB													
05...	0920	--	--	--	15	--	--	--	--	--	--	--	40
MAR													
14...	1120	<2	27.9	E.05	13	16	.10	<.8	--	M	1.5	2.2	30
14...	1122	--	--	--	--	--	--	--	<5	--	--	--	--
APR													
02...	1020	--	--	--	16	--	--	--	--	--	--	--	30
30...	0900	--	--	--	14	--	--	--	--	--	--	--	30
JUN													
04...	1110	<2	26.2	E.05	E12	13	.09	<.8	--	<1	1.3	2.0	40
04...	1112	--	--	--	--	--	--	--	<5	--	--	--	--
JUL													
02...	1330	--	--	--	17	--	--	--	--	--	--	--	30
AUG													
07...	1400	--	--	--	22	--	--	--	--	--	--	--	10
SEP													
10...	1200	<2	24.4	<.06	22	21	E.03	<.8	--	<1	1.6	1.8	10
10...	1202	--	--	--	--	--	--	--	<5	--	--	--	--

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT													
10...	--	--	--	6.6	--	--	--	--	--	--	--	--	--
NOV													
02...	--	--	--	5.7	--	--	--	--	--	--	--	--	--
DEC													
19...	3770	.20	10	10.0	634	<.23	<.14	.69	5	<.4	.06	6	56
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
05...	--	--	--	15.7	--	--	--	--	--	--	--	--	--
MAR													
14...	460	.21	2	21.7	56	<.23	<.14	.76	2	<.4	E.03	10	28
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
02...	--	--	--	12.1	--	--	--	--	--	--	--	--	--
30...	--	--	--	10.2	--	--	--	--	--	--	--	--	--
JUN													
04...	400	.15	2	4.3	60	<.01	<.01	.66	1	<.4	E.04	5	14
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
02...	--	--	--	3.9	--	--	--	--	--	--	--	--	--
AUG													
07...	--	--	--	8.5	--	--	--	--	--	--	--	--	--
SEP													
10...	60	.15	<1	5.5	18	<.01	<.01	.47	1	.5	<.05	2	3
10...	--	--	--	--	--	--	--	--	--	--	--	--	--

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

The sample collected on Oct. 10 was analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analysis in one or more samples from this and other stations are listed for that date in the following table. Samples collected on Dec. 19, Mar. 14, June 4, and Sep. 10 were analyzed for VOCs with laboratory schedule 1307. All compounds in schedule 1307 are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	BENZENE 1,3-DICHLOROWATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLOROWATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLOROWATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
OCT													
10...	1030	<.03	<.04	<.04	<.1	<.03	<.03	E6	<.03	<.05	<.03	<.04	<.06
DEC													
19...	0930	<.10	<.10	<.10	<.2	<.10	<.10	--	<.10	<.10	<.10	<.10	<.20
MAR													
14...	1120	<.10	<.10	<.10	<.2	<.10	<.10	--	<.10	<.10	<.10	<.10	<.20
JUN													
04...	1110	<.10	<.10	<.10	<.2	<.10	<.10	--	<.10	<.10	<.10	<.10	<.20
SEP													
10...	1200	<.10	<.10	<.10	<.2	<.10	<.10	--	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)
OCT													
10...	<.06	<.03	<.2	E.04	<.04	<.05	<.3	<.1	<.2	<.05	<.1	<.03	<.06
DEC													
19...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10
MAR													
14...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10
JUN													
04...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10
SEP													
10...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10

DATE	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
OCT										
10...	E.1	<.2	<.06	<.04	<.04	<.1	<.05	<.04	<.09	<.1
DEC										
19...	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
MAR										
14...	E.1	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
JUN										
04...	.3	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
SEP										
10...	2.7	<.2	E.14	<.10	<.10	<.1	.29	<.10	<.20	<.2

E Estimated value.
< Actual value is known to be less than the value shown.

FILTERED-WATER PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
OCT												
10...	1030	ENVIRONMENTAL	<.004	<.002	<.005	.020	<.010	E.006	<.020	<.005	<.018	<.003
FEB												
05...	0920	ENVIRONMENTAL	<.004	<.002	<.005	.020	<.010	<.041	<.020	<.005	<.018	<.003
APR												
02...	1020	ENVIRONMENTAL	<.004	<.002	<.005	E.006	<.010	<.041	<.020	<.005	<.018	<.003
30...	0900	ENVIRONMENTAL	<.004	<.002	<.005	.018	<.010	<.041	<.020	<.005	<.018	<.003
JUN												
04...	1110	ENVIRONMENTAL	.012	<.002	<.005	.120	<.010	E.002	<.020	<.005	<.018	<.003
JUL												
02...	*1329*	*FIELD BLANK*	*<.004*	*<.002*	*<.005*	*<.007*	*<.010*	*<.041*	*<.020*	*<.005*	*<.018*	*<.003*
02...	1330	ENVIRONMENTAL	.016	<.002	<.005	.426	<.010	E.005	<.020	E.002	.028	<.003
02...	*1331*	*SPLIT REPLICATE*	*.012*	*<.002*	*<.005*	*.302*	*<.010*	*E.002*	*<.020*	*<.005*	*.028*	*<.003*
AUG												
07...	1400	ENVIRONMENTAL	<.004	<.002	<.005	.046	<.010	<.041	<.020	<.005	<.018	<.003
SEP												
10...	1200	ENVIRONMENTAL	<.004	<.002	<.005	.027	<.010	<.041	<.020	<.005	<.018	<.003

DATE	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
OCT													
10...	E.024	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.002	<.007	<.003
FEB													
05...	E.019	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.005	<.006	<.002	<.007	<.003
APR													
02...	E.006	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.002	<.006	<.002	<.007	<.003
30...	E.017	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.008	<.006	<.002	<.007	<.003
JUN													
04...	E.023	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.051	<.006	<.002	<.007	<.003
JUL													
02...	*<.006*	*<.005*	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*	*<.013*	*<.006*	*<.002*	*<.007*	*<.003*
02...	<.006	E.005	<.005	<.002	<.004	<.035	<.027	<.050	.156	<.006	<.002	<.007	<.003
02...	*E.053*	*E.004*	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*	*.108*	*<.006*	*<.002*	*<.007*	*<.003*
AUG													
07...	E.023	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.018	<.006	<.002	<.007	<.003
SEP													
10...	E.025	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.008	<.006	<.002	<.007	<.003

DATE	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT							
10...	<.010	<.015	E.004	<.016	<.034	<.005	<.009
FEB							
05...	<.010	<.015	<.011	<.016	<.034	<.005	<.009
APR							
02...	<.010	<.015	<.011	<.016	<.034	<.005	<.009
30...	<.010	<.015	<.011	<.016	<.034	<.005	<.009
JUN							
04...	<.010	<.015	.028	E.005	<.034	<.005	<.009
JUL							
02...	*<.010*	*<.015*	*<.011*	*<.016*	*<.034*	*<.005*	*<.009*
02...	E.006	E.018	.054	<.016	<.034	<.005	<.009
02...	*<.010*	*E.010*	*.040*	*<.016*	*<.034*	*<.005*	*<.009*
AUG							
07...	<.010	E.012	.014	<.016	<.034	<.005	<.009
SEP							
10...	<.010	<.015	E.007	<.016	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

WHOLE-WATER PESTICIDE ANALYSES

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ALDRIN, TOTAL (UG/L) (39330)	ALPHA BHC TOTAL (UG/L) (39337)	AROCLOR 1016/ 1242 PCB WATER UNFLTRD (UG/L) (81648)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)	BETA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (39338)	CHLOR-DANE CIS WATER WHOLE TOTAL (UG/L) (39062)	CHLOR-DANE, TECH-NICAL TOTAL (UG/L) (39350)	CHLOR-DANE TRANS WATER WHOLE TOTAL (UG/L) (39065)
DEC													
19...	0930	<.040	<.03	<.10	<1	<.1	<.1	<.1	<.1	<.03	<.1	<.1	<.1
SEP													
10...	1200	<.040	<.03	<.10	<1	<.1	<.1	<.1	<.1	<.03	<.1	<.1	<.1

DATE	DELTA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (34259)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDO-SULFAN-I WATER WHOLE REC (UG/L) (34361)	ENDO-SULFAN II TOTAL (UG/L) (34356)	ENDO-SULFAN SULFATE TOTAL (UG/L) (34351)	ENDRIN ALDE-HYDE TOTAL (UG/L) (34366)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	LINDANE TOTAL (UG/L) (39340)	P,P' DDD, TOTAL (UG/L) (39310)	P,P' DDE, TOTAL (UG/L) (39320)	P,P' DDT, TOTAL (UG/L) (39300)
DEC													
19...	<.09	<.020	<.1	<.04	<.6	<.2	<.060	<.800	<.030	<.030	<.1	<.04	<.1
SEP													
10...	<.09	<.020	<.1	<.04	<.6	<.2	<.060	<.800	<.030	<.030	<.1	<.04	<.1

DATE	TOX-APHENE, TOTAL (UG/L) (39400)
DEC	
19...	<2
SEP	
10...	<2

WATER-COLUMN BACTERIA ANALYSES

Samples collected throughout the year and synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
DEC				
19...	0932	490	--	2300
MAR				
14...	1122	110	--	60
MAY				
23...	1100	2400	1500	2000
30...	1107	170	300	150
JUN				
04...	1112	790	--	60
05...	1047	330	100	50
11...	1050	140	100	10
SEP				
10...	1202	50	<100	<10

< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.6	9.4	9.9	14.1	11.3	12.8	14.9	13.1	13.8	14.0	13.9	14.0
2	10.5	9.3	9.8	14.4	11.9	13.1	14.9	12.5	13.6	14.4	13.9	14.1
3	10.9	9.0	9.9	14.6	12.1	13.3	15.3	13.0	14.0	14.4	14.2	14.2
4	10.8	9.1	9.8	14.5	12.1	13.2	15.6	13.2	14.3	14.2	14.1	14.2
5	9.5	8.8	9.1	13.6	11.6	12.6	15.8	13.3	14.5	14.3	13.9	14.1
6	10.2	8.6	9.3	14.1	11.6	12.8	16.0	13.4	14.7	14.0	13.7	13.8
7	10.5	8.9	9.7	14.6	12.1	13.3	16.1	13.6	14.9	13.9	13.6	13.7
8	10.6	9.3	10.0	14.5	12.3	13.4	15.7	13.7	14.7	---	---	---
9	10.9	9.7	10.3	13.8	12.0	12.8	16.8	13.6	15.2	13.8	13.5	13.7
10	11.5	10.1	10.8	12.7	11.0	11.8	16.8	14.0	15.4	14.0	13.6	13.8
11	11.8	10.3	11.0	12.9	10.5	11.7	16.5	13.7	15.1	14.1	13.8	13.9
12	12.0	10.3	11.0	12.7	10.8	11.7	16.0	13.2	14.8	14.1	13.9	14.0
13	---	---	---	12.1	11.0	11.4	16.9	13.4	15.2	14.1	13.9	14.0
14	11.9	10.6	11.1	11.2	10.8	11.0	16.6	13.9	15.2	14.1	13.9	14.0
15	11.9	10.4	11.0	12.9	10.6	11.8	15.9	13.5	14.6	13.9	13.6	13.8
16	11.0	10.0	10.5	13.3	11.6	12.4	14.2	13.1	13.7	13.8	13.4	13.6
17	10.7	9.5	10.1	13.3	11.7	12.5	13.1	10.9	12.0	13.8	13.6	13.7
18	10.7	9.7	10.2	14.0	12.1	12.9	12.7	11.2	11.9	13.8	13.6	13.7
19	---	---	---	14.1	12.4	13.3	13.1	12.7	13.0	13.8	13.6	13.6
20	---	---	---	15.0	13.1	14.0	13.3	12.9	13.1	13.7	13.6	13.7
21	11.5	10.3	10.9	15.4	13.4	14.3	13.6	13.2	13.5	14.3	13.4	13.9
22	11.8	10.3	11.0	15.9	14.0	14.9	13.7	13.6	13.6	14.8	14.2	14.6
23	12.1	10.2	11.2	16.5	14.4	15.4	14.1	13.6	13.9	15.0	14.7	14.8
24	12.1	10.7	11.4	16.9	14.8	15.8	14.1	13.8	14.0	15.0	14.8	14.9
25	12.4	10.4	11.4	17.0	15.0	16.0	14.3	13.8	14.1	14.8	14.6	14.7
26	12.0	10.2	11.1	15.8	13.8	14.7	14.3	14.2	14.2	15.0	14.6	14.8
27	12.3	10.0	11.1	14.5	13.1	13.8	14.2	12.6	14.0	14.8	14.4	14.6
28	12.4	9.8	11.1	15.6	13.3	14.1	14.0	13.8	14.0	14.9	14.4	14.6
29	12.9	10.1	11.6	15.7	13.3	14.4	---	---	---	15.0	14.5	14.7
30	13.4	10.9	12.1	15.1	13.2	14.0	14.1	13.8	13.9	14.9	14.3	14.5
31	13.8	11.4	12.4	---	---	---	14.0	13.5	13.8	14.3	14.1	14.2
MONTH	13.8	8.6	10.7	17.0	10.5	13.3	16.9	10.9	14.1	15.0	13.4	14.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.5	13.9	14.2	15.0	13.0	14.0	12.9	12.1	12.6	14.1	10.0	12.1
2	14.4	14.1	14.2	15.1	13.2	14.0	12.9	12.1	12.6	13.9	9.6	11.6
3	15.0	14.1	14.6	15.3	13.3	14.1	13.1	12.0	12.8	12.8	8.9	10.9
4	15.5	14.8	15.1	14.2	13.2	13.6	13.1	12.6	12.8	12.0	7.8	10.2
5	15.1	14.7	14.9	14.5	13.0	13.6	12.8	12.4	12.6	10.7	7.2	9.0
6	15.8	14.9	15.4	---	---	---	12.4	12.0	12.2	11.0	6.8	9.0
7	15.8	15.1	15.4	16.5	13.9	15.0	12.4	11.7	12.1	10.8	7.5	9.3
8	15.6	14.8	15.1	15.9	13.3	14.5	12.4	12.1	12.3	9.8	6.7	8.6
9	15.6	14.8	15.1	15.8	13.3	14.4	12.6	12.1	12.4	9.0	7.6	8.3
10	14.9	14.1	14.3	16.5	13.2	14.7	12.2	11.7	11.9	9.0	7.1	8.0
11	15.4	14.3	14.9	16.7	13.5	14.9	11.8	11.5	11.6	9.0	7.1	8.1
12	16.2	14.9	15.6	17.5	13.3	15.1	11.9	11.5	11.7	9.2	7.3	8.3
13	16.0	15.4	15.6	14.7	11.9	13.0	12.0	11.8	11.8	9.9	7.3	8.6
14	15.5	14.5	15.1	12.9	11.9	12.5	11.8	11.5	11.7	10.2	8.2	9.1
15	15.5	14.3	14.9	13.6	12.3	13.0	11.6	11.3	11.4	10.0	7.9	9.0
16	14.9	14.4	14.7	14.4	12.5	13.4	11.4	10.9	11.2	10.0	8.3	9.1
17	15.0	14.1	14.5	13.5	12.4	12.9	11.5	11.1	11.3	9.6	8.3	8.9
18	15.8	14.7	15.2	14.5	12.1	13.4	12.1	11.4	11.8	10.0	8.6	9.3
19	16.1	15.1	15.5	15.0	12.8	13.9	12.6	11.9	12.2	10.3	8.8	9.5
20	15.8	14.8	15.2	15.2	12.6	13.8	12.6	12.0	12.3	9.8	8.5	9.1
21	15.4	14.1	14.7	13.6	12.0	12.8	12.6	12.0	12.3	9.5	8.8	9.1
22	15.3	14.2	14.7	12.4	11.9	12.3	12.2	11.4	12.0	9.7	8.8	9.1
23	15.8	14.4	15.0	12.9	12.3	12.6	11.8	10.7	11.3	9.0	8.1	8.7
24	15.9	14.3	15.0	12.8	12.4	12.6	11.0	9.6	10.3	9.3	8.1	8.7
25	14.9	13.5	14.3	13.1	12.0	12.7	11.1	9.2	10.0	9.0	8.4	8.7
26	14.9	13.2	13.9	13.3	12.6	13.0	12.2	9.7	10.9	9.0	8.5	8.7
27	15.0	13.1	14.0	13.6	12.9	13.3	12.6	9.9	11.2	8.9	8.6	8.8
28	15.0	12.9	13.9	14.1	13.2	13.6	13.2	9.5	11.3	9.1	8.7	8.9
29	---	---	---	13.7	12.6	13.3	13.8	9.9	11.8	8.9	8.3	8.7
30	---	---	---	12.9	11.8	12.6	14.2	10.0	12.1	9.2	8.6	8.9
31	---	---	---	12.9	12.2	12.5	---	---	---	9.5	8.5	9.1
MONTH	16.2	12.9	14.8	17.5	11.8	13.5	14.2	9.2	11.8	14.1	6.7	9.1

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.6	8.3	9.1	10.4	6.8	8.5	10.6	7.7	9.1	10.8	7.9	9.2
2	9.3	8.9	9.1	8.6	6.8	7.9	10.7	7.7	9.1	11.2	8.2	9.6
3	9.4	8.9	9.2	9.6	7.9	8.7	10.5	7.4	8.8	11.2	8.7	9.9
4	9.6	9.0	9.3	9.7	8.0	8.7	9.4	7.2	8.0	11.1	8.6	9.7
5	9.5	9.0	9.2	9.6	8.0	8.8	8.8	7.0	7.7	11.8	8.1	9.7
6	9.5	8.8	9.1	10.6	8.0	9.2	8.7	6.8	7.7	11.8	8.3	10.0
7	9.8	8.8	9.2	10.9	8.4	9.6	9.6	6.9	8.1	11.7	8.3	9.9
8	10.1	8.5	9.2	9.6	8.1	8.9	9.8	6.8	8.1	11.6	8.4	9.9
9	10.2	8.6	9.4	11.1	8.2	9.6	9.8	6.7	8.1	11.2	7.7	9.5
10	10.5	8.3	9.4	10.2	7.9	9.1	9.1	6.5	7.4	10.7	7.7	9.2
11	10.6	8.6	9.5	10.4	7.7	9.1	7.2	6.1	6.6	10.9	7.2	8.9
12	10.9	8.4	9.6	11.3	7.9	9.5	7.2	6.4	6.9	11.4	7.8	9.4
13	10.7	8.1	9.3	11.6	8.3	9.9	7.3	7.1	7.2	11.2	7.8	9.3
14	10.5	7.6	9.0	11.5	8.3	9.9	8.2	7.2	7.6	9.0	7.0	7.9
15	10.2	7.9	9.1	11.2	8.4	9.8	8.4	7.3	7.8	11.1	7.3	9.1
16	9.0	7.6	8.3	10.9	8.1	9.5	9.1	7.3	8.1	11.4	7.9	9.5
17	7.8	7.1	7.4	11.1	8.1	9.6	9.1	7.3	8.1	11.4	7.8	9.4
18	8.0	7.5	7.7	10.4	7.4	8.9	9.7	7.4	8.5	11.4	8.0	9.5
19	7.9	7.3	7.5	10.9	7.6	9.3	9.4	7.6	8.4	11.2	7.8	9.3
20	8.5	7.5	7.9	11.3	7.0	9.7	10.0	7.5	8.6	9.6	7.8	8.6
21	8.3	7.3	7.8	11.6	8.3	10.0	10.2	7.6	8.9	10.1	7.5	8.5
22	8.9	7.5	8.2	12.1	8.0	10.0	10.3	7.6	9.0	9.2	7.9	8.4
23	8.2	7.7	7.9	---	---	---	10.0	7.7	8.7	9.8	7.4	8.5
24	8.1	7.7	7.9	11.6	7.9	9.8	---	---	---	9.4	7.6	8.4
25	8.5	7.9	8.2	10.9	7.6	9.2	10.8	8.0	9.3	9.4	7.8	8.5
26	8.7	7.8	8.3	8.7	6.5	7.4	11.0	8.1	9.5	8.7	8.1	8.4
27	9.2	7.8	8.4	9.1	6.7	7.9	10.4	8.0	9.3	9.4	8.3	8.8
28	9.7	7.6	8.5	9.8	7.5	8.6	11.0	8.1	9.4	9.8	8.9	9.3
29	9.5	7.3	8.4	9.4	7.5	8.4	10.9	8.0	9.5	10.4	9.2	9.7
30	10.2	6.8	8.6	9.7	7.6	8.7	10.8	8.1	9.4	10.6	9.5	10.0
31	---	---	---	10.4	8.1	9.1	10.9	8.1	9.4	---	---	---
MONTH	10.9	6.8	8.7	12.1	6.5	9.1	11.0	6.1	8.4	11.8	7.0	9.2
YEAR	17.5	6.1	11.4									

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.3	7.6	7.9	8.7	8.1	8.5	8.4	7.5	8.0	7.1	7.1	7.1
2	8.3	7.7	7.9	8.8	8.2	8.5	8.4	7.5	8.0	7.2	7.1	7.1
3	8.4	7.7	8.0	8.8	8.3	8.6	8.4	7.6	8.1	7.2	7.1	7.1
4	8.5	7.8	8.0	8.8	8.3	8.6	8.4	7.5	8.1	7.2	7.1	7.1
5	8.1	7.7	7.9	8.7	8.2	8.5	8.4	7.5	8.1	7.2	7.1	7.1
6	8.2	7.6	7.8	8.7	8.1	8.5	8.4	7.6	8.2	7.2	7.1	7.2
7	8.3	7.7	8.0	8.7	8.2	8.5	8.4	7.7	8.2	7.2	7.1	7.2
8	8.2	7.8	8.0	8.7	8.3	8.6	8.3	7.7	8.1	---	---	---
9	8.2	7.8	8.0	8.6	8.2	8.5	8.4	7.6	8.2	7.2	7.2	7.2
10	8.3	7.6	8.0	8.5	7.9	8.3	8.5	7.8	8.2	7.3	7.2	7.2
11	8.4	7.7	8.1	8.4	7.6	8.1	8.4	7.7	8.2	7.2	7.2	7.2
12	8.5	7.8	8.2	8.3	7.7	8.0	8.5	7.7	8.3	7.3	7.2	7.2
13	---	---	---	8.0	7.5	7.7	8.5	7.8	8.3	7.3	7.2	7.2
14	8.7	8.1	8.4	7.5	7.2	7.4	8.5	7.7	8.2	7.3	7.2	7.2
15	8.7	8.2	8.4	8.1	7.1	7.7	8.3	7.5	7.9	7.3	7.2	7.3
16	8.4	8.1	8.3	8.2	7.4	7.8	7.8	7.3	7.5	7.3	7.2	7.3
17	8.1	7.8	7.9	8.2	7.5	7.8	7.3	6.8	7.2	7.4	7.3	7.3
18	8.0	7.7	7.8	8.3	7.5	7.9	7.1	6.5	6.9	7.4	7.3	7.3
19	8.6	7.7	8.2	8.2	7.5	7.9	6.5	6.3	6.4	7.4	7.3	7.3
20	8.3	7.7	8.1	8.4	7.6	8.1	6.6	6.5	6.6	7.3	7.2	7.2
21	7.7	7.4	7.5	8.5	7.7	8.2	6.6	6.6	6.6	7.4	7.2	7.3
22	7.9	7.3	7.5	8.5	7.8	8.2	6.7	6.6	6.7	7.4	7.3	7.4
23	7.9	7.3	7.5	8.5	7.8	8.2	6.8	6.7	6.7	7.4	7.3	7.4
24	8.0	7.4	7.7	8.5	7.8	8.2	6.8	6.8	6.8	7.5	7.3	7.4
25	8.2	7.4	7.8	8.4	7.8	8.2	6.9	6.8	6.8	7.5	7.4	7.4
26	8.2	7.4	7.8	8.2	7.7	8.0	6.9	6.9	6.9	7.5	7.4	7.5
27	8.2	7.4	7.8	8.1	7.3	7.7	7.0	6.9	6.9	7.6	7.4	7.5
28	8.5	7.5	8.1	8.4	7.6	8.0	7.0	6.9	7.0	7.6	7.4	7.5
29	8.6	7.7	8.2	8.4	7.7	8.1	---	---	---	7.6	7.4	7.5
30	8.6	7.8	8.2	8.3	7.7	8.0	7.1	7.0	7.0	7.5	7.4	7.4
31	8.6	7.9	8.3	---	---	---	7.1	7.0	7.1	7.4	7.3	7.3
MAX	8.7	8.2	8.4	8.8	8.3	8.6	8.5	7.8	8.3	7.6	7.4	7.5
MIN	7.7	7.3	7.5	7.5	7.1	7.4	6.5	6.3	6.4	7.1	7.1	7.1

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.5	7.3	7.4	8.2	7.4	7.9	6.8	6.6	6.7	9.2	8.6	8.9
2	7.5	7.4	7.4	8.2	7.6	8.0	6.8	6.6	6.7	9.1	8.7	8.9
3	7.5	7.3	7.4	8.3	7.6	8.0	7.1	6.7	7.0	9.1	8.5	8.8
4	7.6	7.4	7.4	8.0	7.5	7.8	7.2	7.0	7.1	8.9	8.4	8.7
5	7.4	7.2	7.3	7.8	7.3	7.5	7.3	7.1	7.2	8.7	8.0	8.4
6	7.5	7.2	7.3	---	---	---	7.2	7.1	7.1	8.5	7.3	8.1
7	7.7	7.4	7.4	8.5	7.9	8.2	7.1	7.0	7.1	8.4	7.4	7.9
8	7.6	7.4	7.5	8.5	8.0	8.3	7.1	6.9	7.0	8.0	7.3	7.5
9	7.8	7.4	7.5	8.5	7.9	8.3	7.1	6.9	7.0	7.6	7.2	7.4
10	7.6	7.2	7.5	8.6	7.9	8.3	7.1	6.9	7.0	7.6	7.3	7.4
11	7.5	7.3	7.4	8.7	8.1	8.4	7.0	6.7	6.8	7.7	7.2	7.5
12	7.7	7.4	7.5	8.7	8.0	8.4	6.8	6.7	6.8	8.0	7.3	7.7
13	7.6	7.4	7.5	8.4	7.1	7.8	6.9	6.8	6.8	8.2	7.4	7.7
14	7.6	7.3	7.4	7.5	7.2	7.3	7.0	6.9	6.9	8.2	7.6	7.8
15	7.7	7.3	7.4	7.6	7.1	7.4	7.1	6.9	7.0	8.3	7.6	7.9
16	7.5	7.4	7.4	8.0	7.3	7.8	7.2	7.0	7.1	8.3	7.7	8.0
17	7.6	7.3	7.4	7.8	7.2	7.4	7.2	7.1	7.2	8.0	7.6	7.8
18	7.7	7.3	7.5	8.0	7.2	7.6	7.3	7.1	7.2	7.9	7.5	7.8
19	7.8	7.4	7.5	8.2	7.3	7.9	7.4	7.1	7.2	8.1	7.6	7.8
20	7.9	7.5	7.6	8.2	7.3	7.9	7.3	7.1	7.2	8.1	7.6	7.8
21	8.1	7.5	7.7	8.2	7.2	7.4	7.4	7.1	7.3	7.9	7.7	7.7
22	7.8	7.6	7.8	7.2	7.1	7.1	7.6	7.2	7.4	7.8	7.5	7.6
23	8.1	7.4	7.6	7.2	7.0	7.1	7.9	7.3	7.6	7.6	7.4	7.5
24	8.2	7.6	7.9	7.0	6.9	6.9	8.1	7.3	7.7	7.7	7.4	7.5
25	7.9	7.3	7.6	6.9	6.8	6.9	8.1	7.3	7.7	7.6	7.5	7.5
26	7.9	7.2	7.3	7.0	6.9	6.9	8.5	7.5	7.9	7.5	7.4	7.5
27	8.1	7.3	7.7	7.1	6.9	7.0	8.6	7.7	8.3	7.4	7.3	7.4
28	8.2	7.4	7.8	7.2	6.9	7.1	8.8	7.8	8.4	7.5	7.3	7.4
29	---	---	---	7.2	6.9	7.0	8.9	8.2	8.6	7.5	7.3	7.4
30	---	---	---	7.1	7.0	7.0	9.1	8.4	8.7	7.6	7.4	7.5
31	---	---	---	7.0	6.8	7.0	---	---	---	7.7	7.4	7.6
MAX	8.2	7.6	7.9	8.7	8.1	8.4	9.1	8.4	8.7	9.2	8.7	8.9
MIN	7.4	7.2	7.3	6.9	6.8	6.9	6.8	6.6	6.7	7.4	7.2	7.4

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.7	7.4	7.6	8.7	7.9	8.3	8.6	7.7	8.2	8.9	8.2	8.6
2	7.6	7.4	7.4	8.2	7.8	7.9	8.7	7.8	8.3	9.0	8.4	8.7
3	7.7	7.4	7.6	8.3	7.7	8.1	8.6	7.9	8.2	9.0	8.4	8.8
4	7.7	7.5	7.6	8.4	7.8	8.1	8.4	7.7	8.0	9.0	8.6	8.8
5	7.6	7.4	7.5	8.2	7.8	8.1	8.1	7.6	7.6	9.1	8.5	8.8
6	7.7	7.4	7.5	8.6	7.9	8.3	8.2	7.5	7.7	9.1	8.6	8.9
7	8.1	7.5	7.7	8.7	7.9	8.4	8.5	7.6	8.0	9.1	8.7	8.9
8	8.3	7.6	7.8	8.5	8.0	8.3	8.6	7.6	8.1	9.1	8.7	8.9
9	8.5	7.8	8.1	8.7	7.8	8.4	8.6	7.6	8.2	9.0	8.5	8.9
10	8.6	7.8	8.2	8.6	8.0	8.4	8.5	7.7	8.0	8.9	8.4	8.7
11	8.6	8.1	8.4	8.7	8.0	8.4	7.7	7.2	7.5	8.8	8.0	8.4
12	8.8	8.2	8.5	8.8	7.8	8.5	7.5	7.3	7.5	8.9	7.9	8.5
13	8.8	8.3	8.6	8.9	8.3	8.6	7.5	7.4	7.4	8.9	7.8	8.4
14	8.7	8.3	8.5	8.8	8.2	8.6	7.7	7.4	7.5	8.4	7.6	7.8
15	8.7	8.1	8.4	8.8	8.2	8.6	7.8	7.4	7.6	8.6	7.4	7.9
16	8.5	7.9	8.2	8.7	8.1	8.5	8.2	7.4	7.7	8.7	7.6	8.0
17	7.9	7.1	7.3	8.8	8.2	8.6	8.3	7.5	7.8	8.7	7.6	8.0
18	7.6	7.4	7.5	8.7	8.0	8.5	8.5	7.6	8.0	8.7	7.6	8.0
19	7.4	7.2	7.3	8.8	8.0	8.5	8.4	7.7	8.0	8.6	7.6	8.0
20	7.7	7.3	7.4	8.9	8.3	8.6	8.6	7.7	8.2	8.1	7.6	7.7
21	7.6	7.3	7.5	9.0	8.5	8.8	8.7	7.8	8.3	8.2	7.4	7.6
22	7.8	7.4	7.6	9.1	8.5	8.8	8.8	7.9	8.4	7.9	7.5	7.6
23	7.6	7.4	7.5	---	---	---	8.6	8.0	8.3	8.0	7.3	7.5
24	7.4	7.3	7.4	9.0	8.6	8.9	---	---	---	7.9	7.3	7.4
25	7.7	7.4	7.5	8.9	8.4	8.7	8.8	7.9	8.4	7.8	7.4	7.5
26	7.8	7.5	7.7	8.7	7.8	8.2	8.8	8.0	8.5	7.7	7.5	7.5
27	8.2	7.6	7.8	8.1	7.6	7.8	8.8	8.1	8.5	7.6	7.4	7.5
28	8.5	7.7	8.0	8.3	7.7	8.0	8.9	8.1	8.6	7.7	7.5	7.6
29	8.5	7.8	8.1	8.2	7.6	7.9	8.9	8.2	8.6	7.9	7.5	7.6
30	8.7	7.8	8.3	8.3	7.6	8.0	8.8	8.2	8.6	7.6	7.2	7.5
31	---	---	---	8.6	7.7	8.1	8.9	8.3	8.7	---	---	---
MAX	8.8	8.3	8.6	9.1	8.6	8.9	8.9	8.3	8.7	9.1	8.7	8.9
MIN	7.4	7.1	7.3	8.1	7.6	7.8	7.5	7.2	7.4	7.6	7.2	7.4

YEAR			
	MAX	MAXIMUM 9.2	MINIMUM 6.5
	MIN	MAXIMUM 8.7	MINIMUM 6.3
	MEDIAN	MAXIMUM 8.9	MINIMUM 6.4

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	220	214	217	225	220	222	192	189	190	191	163	177
2	220	214	217	227	223	225	194	188	191	193	183	189
3	221	217	219	226	223	224	195	188	191	194	180	189
4	224	221	223	231	225	228	198	190	195	190	184	186
5	230	223	228	233	228	230	200	197	198	200	181	193
6	239	228	232	234	227	230	211	199	204	200	194	197
7	243	238	241	233	229	231	218	209	215	199	192	195
8	242	231	238	234	227	231	223	218	221	---	---	---
9	231	200	216	234	228	231	227	221	223	200	196	198
10	202	197	199	242	234	237	231	224	227	201	197	199
11	210	201	205	255	242	248	232	225	229	206	199	203
12	219	210	215	263	247	257	233	227	230	210	205	207
13	---	---	---	247	204	231	234	229	232	212	207	209
14	237	228	232	204	177	184	235	226	231	215	210	213
15	240	236	238	183	178	180	267	225	234	213	210	212
16	242	239	240	201	182	191	294	259	271	214	211	212
17	242	239	240	204	199	202	305	142	249	217	214	215
18	241	238	239	199	186	190	206	107	155	232	216	224
19	243	240	241	190	184	186	107	93	99	230	219	225
20	257	239	247	193	189	190	111	99	106	229	219	223
21	240	162	195	195	190	192	123	111	118	259	224	240
22	162	158	160	200	195	198	129	120	124	267	259	263
23	182	161	172	205	200	202	137	124	132	272	260	268
24	183	176	179	208	204	206	140	137	139	269	260	266
25	179	172	175	211	207	209	153	139	148	273	267	270
26	190	179	184	212	205	208	157	149	153	272	262	269
27	204	190	197	226	210	217	163	153	159	262	256	260
28	209	203	206	248	226	239	169	151	159	256	250	252
29	213	208	211	233	204	215	---	---	---	253	248	251
30	219	211	214	206	191	196	173	154	169	250	239	245
31	221	218	220	---	---	---	174	163	172	249	235	240
MONTH	257	158	215	263	177	214	305	93	185	273	163	223

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	273	249	259	229	219	223	147	124	132	197	189	193
2	272	249	258	222	218	220	132	124	128	199	196	198
3	249	232	239	227	219	222	139	132	135	201	197	199
4	232	222	226	224	221	223	140	136	138	207	201	203
5	224	218	220	229	221	224	142	140	141	209	205	207
6	234	223	228	---	---	---	142	137	140	212	207	210
7	257	233	240	255	244	249	138	134	136	218	211	216
8	263	255	260	252	239	245	134	129	131	246	218	225
9	262	241	249	250	239	243	129	120	126	246	225	229
10	247	209	236	243	236	240	120	114	116	236	231	233
11	239	209	223	249	240	245	118	97	105	242	236	240
12	254	238	246	244	241	242	102	96	99	247	242	245
13	240	226	229	244	230	238	115	100	105	256	247	250
14	226	219	222	254	230	243	111	107	109	257	252	254
15	222	217	219	244	230	238	113	108	109	256	252	253
16	222	217	219	234	220	228	120	111	115	257	251	253
17	219	212	216	224	219	221	129	120	126	259	252	255
18	213	210	211	226	216	221	135	127	129	266	259	262
19	213	208	210	220	212	215	138	135	136	270	266	268
20	217	210	213	215	208	212	143	136	139	272	267	270
21	217	213	215	215	202	209	150	140	144	270	262	266
22	220	213	216	203	193	198	155	148	151	262	246	252
23	219	211	214	200	174	190	164	154	160	250	243	247
24	220	209	213	175	152	159	164	162	163	249	229	235
25	233	213	222	158	147	150	166	162	164	235	227	231
26	233	221	228	150	147	148	169	163	166	229	215	223
27	247	231	241	153	148	150	176	168	172	228	203	216
28	241	225	233	158	152	153	184	173	178	213	204	208
29	---	---	---	166	157	161	182	177	179	213	197	204
30	---	---	---	166	155	160	189	180	184	197	193	195
31	---	---	---	175	147	166	---	---	---	195	190	192
MONTH	273	208	229	255	147	208	189	96	139	272	189	230

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	200	193	195	229	213	221	253	245	248	248	244	246
2	196	186	192	221	210	215	259	253	255	245	241	243
3	211	194	204	239	215	229	265	259	262	249	243	247
4	201	176	193	230	216	223	266	253	263	249	241	245
5	176	161	168	232	222	228	255	242	249	241	229	235
6	166	160	162	233	223	228	278	239	262	229	224	225
7	170	162	166	240	229	233	271	236	248	227	224	225
8	177	169	174	247	239	245	237	229	233	236	227	232
9	185	176	181	247	240	243	238	230	233	241	235	237
10	194	185	191	244	240	242	239	232	236	238	224	231
11	206	194	201	245	238	241	237	174	223	229	219	223
12	214	204	206	248	239	245	247	217	233	226	220	224
13	213	205	207	246	236	241	254	199	221	231	226	229
14	219	207	214	247	239	243	231	201	218	231	223	227
15	219	207	212	243	231	239	210	198	204	234	227	231
16	213	207	210	250	235	243	222	208	214	252	234	246
17	212	135	179	253	242	248	239	222	229	251	239	245
18	221	184	206	244	239	242	245	234	240	240	228	234
19	184	160	169	252	242	245	252	243	247	237	233	236
20	171	161	166	261	252	255	250	242	246	238	231	235
21	181	166	172	259	254	257	246	242	244	232	220	226
22	188	180	183	269	256	260	243	240	241	264	225	246
23	202	182	188	---	---	---	249	242	246	238	198	212
24	187	177	181	258	254	256	---	---	---	201	196	198
25	196	187	193	261	255	259	255	252	253	204	199	202
26	204	196	199	261	251	259	256	251	254	252	203	228
27	213	204	207	258	243	251	252	247	250	222	183	196
28	216	208	213	261	252	258	250	244	246	191	182	185
29	222	216	220	253	244	248	246	244	245	191	186	188
30	229	215	223	247	241	244	250	245	248	195	187	190
31	---	---	---	246	241	244	251	246	248	---	---	---
MONTH	229	135	192	269	210	243	278	174	241	264	182	226
YEAR	305	93	212									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.5	15.0	16.5	11.0	9.5	10.0	5.5	4.5	5.0	.5	.0	.0
2	18.0	16.0	17.0	11.0	9.5	10.5	4.5	3.0	4.0	.5	.0	.0
3	19.0	16.5	17.5	11.5	9.5	10.5	3.5	2.5	3.0	.0	.0	.0
4	19.5	17.0	18.5	12.0	10.5	11.0	3.0	2.0	2.5	.5	.0	.0
5	19.0	18.0	18.5	11.5	10.0	10.5	3.0	1.5	2.5	.0	.0	.0
6	18.5	17.5	18.0	10.5	9.0	9.5	2.5	1.5	2.0	1.0	.0	.5
7	18.0	16.5	17.0	10.0	8.5	9.5	2.0	1.0	1.5	1.5	.5	1.0
8	16.5	15.0	15.5	10.0	8.5	9.5	1.5	1.0	1.5	---	---	---
9	15.0	13.0	14.0	10.5	9.5	10.0	2.0	1.0	1.5	2.0	1.0	1.5
10	13.0	12.0	12.5	12.0	10.5	11.5	2.0	1.0	1.5	1.0	1.0	1.0
11	13.5	11.5	12.5	12.0	10.5	11.0	3.0	2.0	2.5	1.5	.5	1.0
12	14.5	12.5	13.5	11.0	10.0	10.5	4.0	3.0	3.5	1.5	.5	1.0
13	---	---	---	11.0	10.5	10.5	3.0	1.5	2.0	2.0	.5	1.5
14	15.5	13.5	14.5	10.5	9.5	10.0	3.5	2.0	2.5	1.5	1.0	1.5
15	16.0	14.0	15.0	9.5	8.5	9.0	3.0	2.5	3.0	2.5	1.5	2.0
16	15.5	15.0	15.5	8.5	8.0	8.5	3.5	2.5	2.5	3.0	2.5	2.5
17	15.5	14.5	15.0	9.0	8.0	8.5	8.5	3.5	5.5	3.0	2.0	2.5
18	14.5	14.5	14.5	8.0	7.0	7.5	7.0	2.5	5.0	2.5	2.0	2.5
19	15.0	13.5	14.5	7.0	6.0	6.5	2.5	1.5	2.0	2.5	2.5	2.5
20	15.0	13.0	14.0	6.0	5.0	5.5	2.0	1.5	2.0	2.5	2.0	2.5
21	14.5	13.5	14.0	5.5	4.0	5.0	1.5	1.5	1.5	2.0	1.0	1.5
22	14.5	13.5	14.0	4.0	3.0	3.5	1.5	.5	1.0	1.5	.5	1.0
23	13.5	12.5	13.0	3.5	2.0	3.0	.5	.0	.5	1.0	.0	.5
24	13.5	12.0	13.0	3.0	2.0	2.5	.5	.0	.0	1.5	.0	1.0
25	14.5	12.5	13.5	3.0	2.0	2.5	.0	.0	.0	2.0	.5	1.0
26	14.5	13.0	14.0	4.5	3.0	4.0	.0	.0	.0	1.5	.5	1.0
27	15.0	13.5	14.0	5.5	4.5	5.0	.5	.0	.0	2.0	1.0	1.5
28	14.5	12.5	14.0	6.0	5.0	5.5	.5	.0	.0	2.5	1.5	2.0
29	12.5	10.5	11.5	5.5	5.0	5.0	---	---	---	2.5	1.5	2.0
30	11.0	9.5	10.0	5.5	5.0	5.5	.0	.0	.0	3.0	2.0	2.5
31	10.5	9.0	10.0	---	---	---	.5	.0	.0	3.0	2.0	2.5
MONTH	19.5	9.0	14.5	12.0	2.0	7.7	8.5	.0	2.0	3.0	.0	1.3

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	3.0	3.0	4.0	3.5	4.0	4.5	4.5	4.5	18.0	15.5	16.5
2	3.5	3.0	3.5	4.0	3.5	4.0	5.0	4.5	4.5	19.0	17.0	18.0
3	3.0	2.0	2.5	4.5	4.0	4.0	6.0	4.5	5.0	20.5	18.5	19.5
4	2.5	2.0	2.0	4.5	3.0	4.0	7.0	5.5	6.5	21.5	20.0	20.5
5	2.0	.5	1.5	3.0	2.5	2.5	8.0	6.5	7.0	21.5	20.5	21.0
6	2.0	.0	1.0	---	---	---	8.0	7.5	7.5	20.5	19.5	20.0
7	3.0	1.5	2.0	4.0	2.5	3.5	7.5	7.0	7.5	20.0	18.5	19.0
8	3.0	2.5	2.5	4.5	3.5	4.0	7.0	7.0	7.0	20.0	17.5	19.0
9	3.5	2.5	3.0	5.0	4.0	4.5	8.0	6.5	7.0	20.5	18.0	19.0
10	4.5	3.5	4.0	5.5	4.0	4.5	9.0	8.0	8.5	21.5	18.5	20.0
11	3.5	2.5	3.0	5.5	4.5	5.0	9.0	8.5	8.5	22.5	19.0	21.0
12	2.5	2.0	2.5	6.0	4.5	5.5	8.5	8.0	8.0	23.5	20.5	22.0
13	3.5	2.0	3.0	6.0	5.5	5.5	8.5	7.5	8.0	21.5	20.0	20.5
14	3.0	3.0	3.0	6.0	5.0	5.5	10.0	8.5	9.0	20.5	18.0	19.5
15	3.5	3.0	3.5	5.5	5.0	5.0	10.5	9.5	10.0	20.5	17.5	19.0
16	3.5	3.5	3.5	6.0	5.0	5.5	10.5	10.0	10.0	20.0	18.0	19.0
17	3.5	3.0	3.5	6.0	5.5	6.0	10.5	9.5	10.0	19.0	17.5	18.0
18	3.0	2.0	2.0	6.5	5.5	6.0	10.0	9.0	9.5	17.5	17.0	17.0
19	2.5	1.5	2.0	6.5	5.0	6.0	10.0	8.5	9.0	20.5	16.5	18.5
20	3.0	2.0	2.5	7.0	5.5	6.5	10.0	9.0	9.5	20.0	18.5	19.0
21	4.0	3.0	3.5	7.0	6.0	6.5	10.5	9.0	10.0	18.5	17.0	17.5
22	3.0	1.5	2.0	6.0	5.5	6.0	13.0	10.0	11.5	17.0	16.5	17.0
23	2.5	1.0	1.5	6.0	5.0	5.5	15.0	12.5	14.0	17.0	17.0	17.0
24	2.5	1.5	2.0	5.5	5.0	5.0	17.0	15.0	16.0	19.5	17.0	18.0
25	3.0	2.0	2.5	5.5	4.5	5.0	17.0	15.0	15.5	19.0	18.0	18.5
26	3.5	2.5	3.0	5.0	4.5	4.5	16.0	14.5	15.0	18.0	17.0	17.5
27	4.0	3.0	3.5	5.0	4.0	4.5	16.0	14.5	15.0	17.0	17.0	17.0
28	5.0	4.0	4.5	5.0	3.5	4.5	16.0	15.0	15.5	18.0	16.5	17.0
29	---	---	---	5.0	4.0	4.5	16.0	14.5	15.0	18.5	17.0	17.5
30	---	---	---	5.0	4.5	5.0	16.5	14.5	15.5	18.5	17.5	18.0
31	---	---	---	5.0	4.5	5.0	---	---	---	18.5	17.0	17.5
MONTH	5.0	.0	2.7	7.0	2.5	4.9	17.0	4.5	10.0	23.5	15.5	18.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.0	17.0	17.5	28.5	27.0	27.5	28.0	24.5	26.0	26.5	25.0	26.0
2	17.5	16.5	17.0	27.0	24.5	25.5	28.5	25.5	27.0	25.5	23.5	24.5
3	18.0	17.0	17.5	25.0	23.0	24.0	28.0	26.0	27.0	25.0	22.5	24.0
4	18.5	16.5	17.5	25.0	23.5	24.0	27.5	26.0	26.5	24.5	23.0	24.0
5	19.5	17.5	18.5	25.0	23.5	24.5	27.5	25.0	26.5	25.0	23.0	24.0
6	19.5	18.5	19.0	25.0	23.0	24.0	29.0	26.0	27.5	24.5	22.0	23.5
7	21.0	19.0	20.0	25.5	22.5	24.0	30.5	27.5	29.0	25.0	22.5	23.5
8	21.5	20.0	21.0	25.0	23.5	24.0	31.5	28.5	30.0	25.0	23.0	24.0
9	22.0	20.5	21.0	26.5	23.0	24.5	32.0	28.5	30.5	25.5	23.5	24.5
10	22.5	21.0	21.5	27.5	25.0	26.0	31.0	29.5	30.5	25.5	24.0	25.0
11	23.0	21.5	22.0	27.0	25.0	26.0	30.0	26.5	28.0	25.5	23.5	24.5
12	24.5	22.0	23.0	26.0	24.0	25.0	27.0	26.0	26.5	25.0	22.5	23.5
13	26.0	23.0	24.5	26.0	23.5	25.0	26.5	25.0	25.5	25.0	22.5	23.5
14	25.5	24.5	25.0	25.5	23.0	24.5	27.0	25.0	26.0	24.5	21.0	22.0
15	26.0	24.0	25.0	26.0	23.0	24.5	27.5	25.0	26.5	21.5	19.5	20.5
16	26.0	25.0	25.0	26.5	23.5	25.0	28.0	25.0	26.5	22.0	19.0	20.5
17	25.0	22.5	23.5	27.5	24.5	26.0	27.5	25.5	26.5	22.0	19.5	21.0
18	25.0	23.5	24.0	26.5	25.0	26.0	27.5	25.5	26.5	22.0	20.0	21.0
19	25.0	23.0	24.0	27.0	24.5	25.5	27.0	25.5	26.0	22.0	20.0	21.0
20	26.0	24.0	25.0	27.5	24.5	26.0	28.0	25.5	26.5	21.5	20.5	21.0
21	25.5	24.5	25.0	28.0	24.5	26.0	27.5	25.5	26.5	22.5	20.5	21.5
22	25.0	24.0	24.5	28.5	25.0	26.5	27.5	25.5	26.5	22.5	21.5	22.0
23	24.5	22.5	24.0	---	---	---	27.0	25.5	26.0	23.5	22.0	22.5
24	23.0	22.0	22.5	30.0	27.0	28.5	---	---	---	23.0	22.0	22.5
25	24.5	22.0	23.0	30.5	28.0	29.5	27.0	25.0	26.0	22.5	21.0	22.0
26	25.0	23.0	24.0	29.5	26.5	28.0	27.0	24.0	25.5	21.0	19.0	20.0
27	26.5	24.5	25.5	27.0	25.0	26.0	27.0	25.0	26.0	19.0	17.5	18.5
28	27.5	25.5	26.5	26.5	24.5	25.5	27.5	25.5	26.5	17.5	16.5	17.0
29	28.5	26.0	27.0	25.0	24.0	24.5	27.0	25.0	26.5	17.0	16.0	16.5
30	29.0	26.5	28.0	25.0	23.5	24.5	26.5	25.0	25.5	16.0	15.0	15.0
31	---	---	---	27.0	23.5	25.0	27.0	24.5	25.5	---	---	---
MONTH	29.0	16.5	22.7	30.5	22.5	25.5	32.0	24.0	26.9	26.5	15.0	22.0
YEAR	32.0	.0	13.3									

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

TURBIDITY, FIELD, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 20

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2.4	<2.0	<2.0	5.5	<2.0	<2.0	2.9	<2.0	2.0	3.6	2.1	2.5
2	10	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<2.0	<2.0	3.7	<2.0	2.1
3	5.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.4	<2.0	<2.0
5	2.3	<2.0	<2.0	2.1	<2.0	<2.0	2.6	<2.0	<2.0	5.9	<2.0	2.3
6	2.2	<2.0	<2.0	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	2.6	<2.0	<2.0
7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.2	<2.0	<2.0	8.0	<2.0	<2.0
8	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<2.0	<2.0	---	---	---
9	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.9	<2.0	<2.0
10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	2.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
12	<2.0	<2.0	<2.0	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	4.1	<2.0	<2.0
13	---	---	---	7.0	2.1	4.1	2.7	<2.0	<2.0	<2.0	<2.0	<2.0
14	3.5	<2.0	<2.0	4.1	2.3	3.0	3.8	<2.0	<2.0	2.0	<2.0	<2.0
15	3.3	<2.0	<2.0	3.4	<2.0	2.4	4.2	2.5	3.1	<2.0	<2.0	<2.0
16	3.2	<2.0	<2.0	2.6	<2.0	<2.0	4.4	2.0	2.9	<2.0	<2.0	<2.0
17	<2.0	<2.0	<2.0	3.3	<2.0	2.0	460	<2.0	120	<2.0	<2.0	<2.0
18	2.0	<2.0	<2.0	2.6	<2.0	<2.0	320	61	170	2.1	<2.0	<2.0
19	2.2	<2.0	<2.0	2.1	<2.0	<2.0	230	76	100	15	<2.0	2.3
20	4.2	<2.0	<2.0	<2.0	<2.0	<2.0	120	37	79	19	10	15
21	4.8	2.3	3.3	<2.0	<2.0	<2.0	47	22	29	10	6.4	7.6
22	2.6	<2.0	2.0	2.1	<2.0	<2.0	23	18	20	7.0	3.3	4.9
23	3.3	<2.0	<2.0	<2.0	<2.0	<2.0	27	16	19	4.0	2.6	3.0
24	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	22	14	15	3.6	<2.0	2.4
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	19	12	14	2.3	<2.0	<2.0
26	<2.0	<2.0	<2.0	6.0	<2.0	<2.0	14	11	12	<2.0	<2.0	<2.0
27	4.3	<2.0	2.3	10	3.7	6.8	12	10	11	<2.0	<2.0	<2.0
28	4.8	<2.0	2.3	5.8	2.0	2.8	12	10	11	<2.0	<2.0	<2.0
29	<2.0	<2.0	<2.0	3.6	<2.0	2.3	---	---	---	2.4	<2.0	<2.0
30	<2.0	<2.0	<2.0	3.2	<2.0	2.4	4.2	2.1	2.8	27	<2.0	5.0
31	<2.0	<2.0	<2.0	---	---	---	28	2.1	3.7	60	9.4	26
MONTH	10	<2.0	<2.0	10	<2.0	<2.0	460	<2.0	21	60	<2.0	3.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10	6.6	8.4	3.0	<2.0	2.2	20	4.2	7.4	12	<2.0	<2.0
2	7.0	4.4	6.1	2.2	<2.0	<2.0	14	9.5	12	4.9	<2.0	<2.0
3	4.8	3.1	3.8	2.1	<2.0	<2.0	14	4.9	8.6	2.0	<2.0	<2.0
4	3.6	2.2	2.9	2.7	<2.0	<2.0	5.5	3.0	4.1	2.4	<2.0	<2.0
5	6.6	<2.0	2.9	2.5	<2.0	<2.0	6.5	2.9	4.0	3.6	<2.0	2.0
6	5.6	2.3	3.1	---	---	---	5.2	2.0	3.0	---	---	---
7	3.1	2.0	2.4	<2.0	<2.0	<2.0	7.3	2.3	4.0	---	---	---
8	3.0	<2.0	2.2	2.0	<2.0	<2.0	7.3	2.5	4.2	---	---	---
9	3.0	<2.0	2.0	2.6	<2.0	<2.0	8.1	2.9	4.4	---	---	---
10	51	<2.0	16	3.2	<2.0	2.4	49	3.9	9.9	---	---	---
11	40	5.7	15	2.8	<2.0	2.4	1300	14	110	---	---	---
12	6.1	3.1	5.1	2.7	<2.0	2.1	31	18	23	---	---	---
13	3.8	2.3	2.9	33	<2.0	14	26	14	19	---	---	---
14	2.6	<2.0	2.1	24	11	15	19	7.6	11	---	---	---
15	3.5	<2.0	2.3	13	4.1	8.6	14	8.1	11	---	---	---
16	3.5	2.1	2.6	6.1	2.6	3.9	11	4.7	6.6	---	---	---
17	6.3	2.4	4.1	5.0	3.1	3.8	8.0	4.2	6.1	---	---	---
18	5.4	3.4	4.3	7.4	3.8	4.8	7.9	2.5	3.6	---	---	---
19	3.7	2.6	3.2	8.6	5.5	6.7	9.5	<2.0	4.2	4.9	<2.0	2.2
20	3.4	2.1	2.5	8.7	4.5	5.7	7.3	<2.0	3.0	3.4	<2.0	<2.0
21	3.1	<2.0	2.1	8.8	5.6	7.5	5.1	<2.0	2.8	2.2	<2.0	<2.0
22	2.1	<2.0	<2.0	24	7.9	16	3.8	<2.0	2.5	6.2	<2.0	2.4
23	2.8	<2.0	<2.0	9.6	4.9	6.8	4.7	<2.0	2.4	5.7	3.8	4.7
24	<2.0	<2.0	<2.0	19	4.0	6.9	3.8	<2.0	<2.0	5.7	<2.0	3.9
25	<2.0	<2.0	<2.0	23	5.9	9.5	2.3	<2.0	<2.0	5.3	<2.0	3.5
26	4.8	<2.0	3.0	12	5.1	8.6	2.1	<2.0	<2.0	4.4	<2.0	<2.0
27	4.6	3.0	3.7	10	7.2	8.5	4.3	<2.0	2.7	21	2.4	8.9
28	3.6	2.5	3.1	8.2	2.9	5.1	5.9	2.0	2.9	34	11	20
29	---	---	---	11	3.1	4.6	3.9	<2.0	2.8	25	5.9	11
30	---	---	---	28	3.6	7.0	53	<2.0	5.5	28	6.0	13
31	---	---	---	9.7	5.1	7.0	---	---	---	10	2.2	5.4
MONTH	51	<2.0	4.0	33	<2.0	5.7	1300	<2.0	9.5	34	<2.0	4.9

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

TURBIDITY, FIELD, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 20

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	3.4	<2.0	2.0	8.4	3.8	5.5	6.7	2.1	3.7	2.5	<2.0	<2.0
2	35	2.1	22	27	4.4	14	6.7	3.9	5.7	2.0	<2.0	<2.0
3	26	3.4	8.4	18	8.3	11	8.0	3.2	5.3	<2.0	<2.0	<2.0
4	7.8	2.8	4.5	11	3.0	6.4	6.5	2.1	3.9	<2.0	<2.0	<2.0
5	5.7	<2.0	2.8	5.5	2.4	4.0	23	3.8	9.7	9.4	<2.0	<2.0
6	4.2	<2.0	2.1	5.0	2.7	3.7	39	7.9	21	<2.0	<2.0	<2.0
7	6.2	<2.0	3.1	4.0	<2.0	2.6	15	4.3	7.5	<2.0	<2.0	<2.0
8	3.7	<2.0	<2.0	5.3	2.0	3.0	8.3	4.4	6.1	<2.0	<2.0	<2.0
9	4.0	<2.0	2.2	6.3	2.5	4.0	10	3.3	6.4	<2.0	<2.0	<2.0
10	3.9	<2.0	<2.0	9.3	2.4	4.6	8.0	<2.0	5.2	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	33	5.1	13	85	<2.0	14	<2.0	<2.0	<2.0
12	14	<2.0	<2.0	64	3.1	8.4	22	2.3	7.0	<2.0	<2.0	<2.0
13	14	<2.0	<2.0	13	2.9	5.6	36	16	23	<2.0	<2.0	<2.0
14	5.5	<2.0	2.6	8.8	<2.0	3.1	24	5.8	9.2	<2.0	<2.0	<2.0
15	2.8	<2.0	2.0	4.6	<2.0	2.4	26	7.0	13	<2.0	<2.0	<2.0
16	2.5	<2.0	<2.0	2.7	<2.0	<2.0	11	3.4	7.1	5.6	<2.0	<2.0
17	350	<2.0	110	2.2	<2.0	<2.0	4.9	3.0	3.6	<2.0	<2.0	<2.0
18	44	7.7	21	<2.0	<2.0	<2.0	7.2	2.9	4.6	<2.0	<2.0	<2.0
19	31	8.6	16	4.3	<2.0	2.2	11	3.3	5.4	2.6	<2.0	2.1
20	31	9.1	17	2.7	<2.0	<2.0	5.6	3.0	3.5	6.7	2.0	4.2
21	21	9.2	14	3.4	<2.0	<2.0	6.8	3.4	4.3	17	2.1	8.4
22	35	8.6	17	2.9	<2.0	<2.0	5.4	3.1	3.8	38	6.9	20
23	77	7.2	21	---	---	---	7.0	2.1	4.0	18	2.9	6.1
24	150	28	94	7.3	<2.0	2.2	---	---	---	4.9	2.3	3.1
25	93	20	40	11	<2.0	2.8	4.0	<2.0	<2.0	5.1	2.0	3.2
26	23	6.2	11	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	21	2.7	11
27	13	5.1	8.9	22	<2.0	8.5	<2.0	<2.0	<2.0	27	5.8	12
28	10	4.3	6.6	9.2	3.8	6.0	<2.0	<2.0	<2.0	17	4.9	12
29	12	3.9	6.2	5.8	2.4	3.5	<2.0	<2.0	<2.0	13	4.7	7.4
30	8.0	3.7	5.2	5.5	2.2	3.3	<2.0	<2.0	<2.0	6.1	2.2	3.7
31	---	---	---	7.1	2.1	4.2	2.4	<2.0	<2.0	---	---	---
MONTH	350	<2.0	15	64	<2.0	4.5	85	<2.0	6.1	38	<2.0	3.4
YEAR	1300	<2.0	6.7									

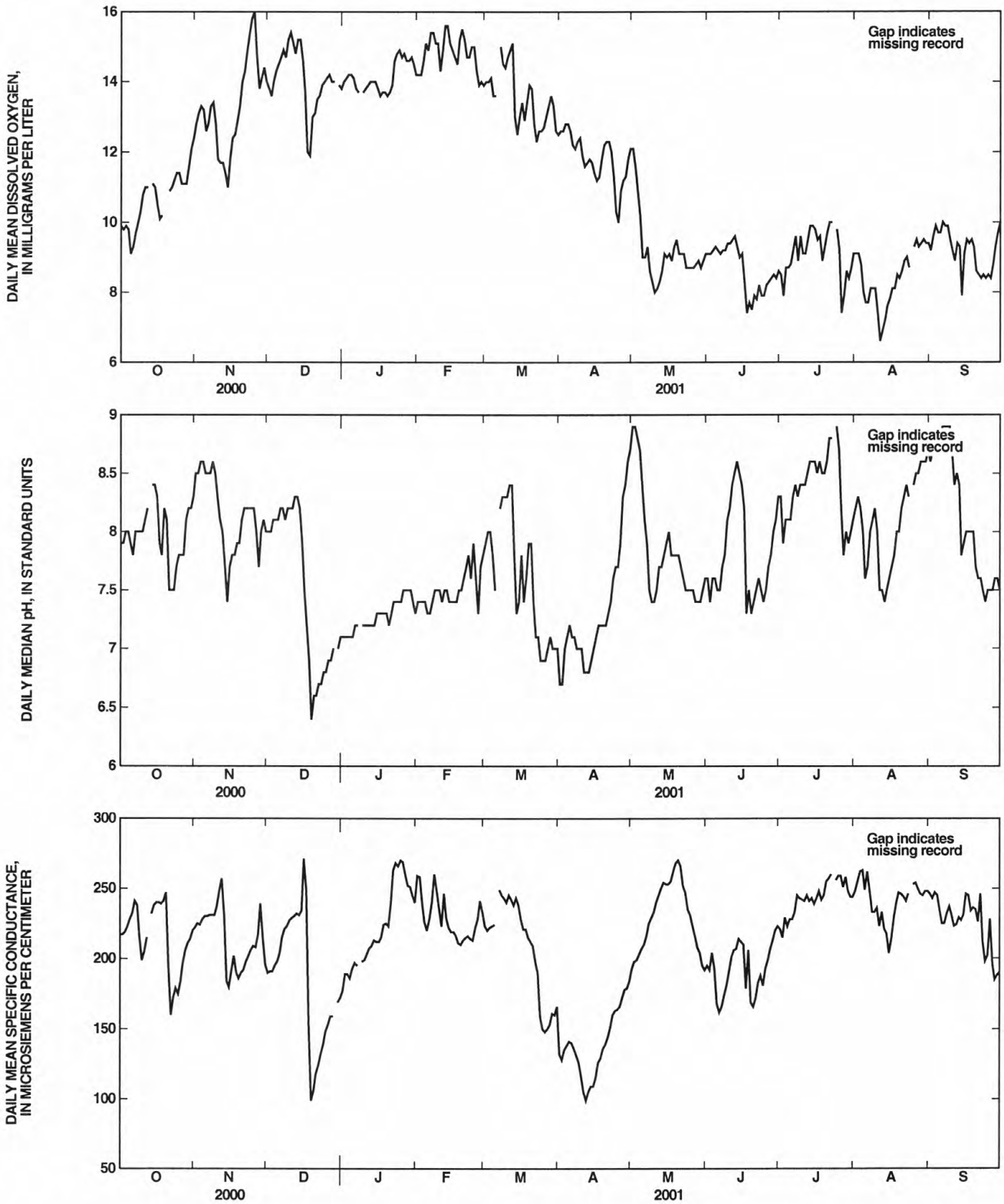


Figure 51. Physical characteristics and concentrations of constituents measured at 01463500 Delaware River at Trenton, water year 2001.

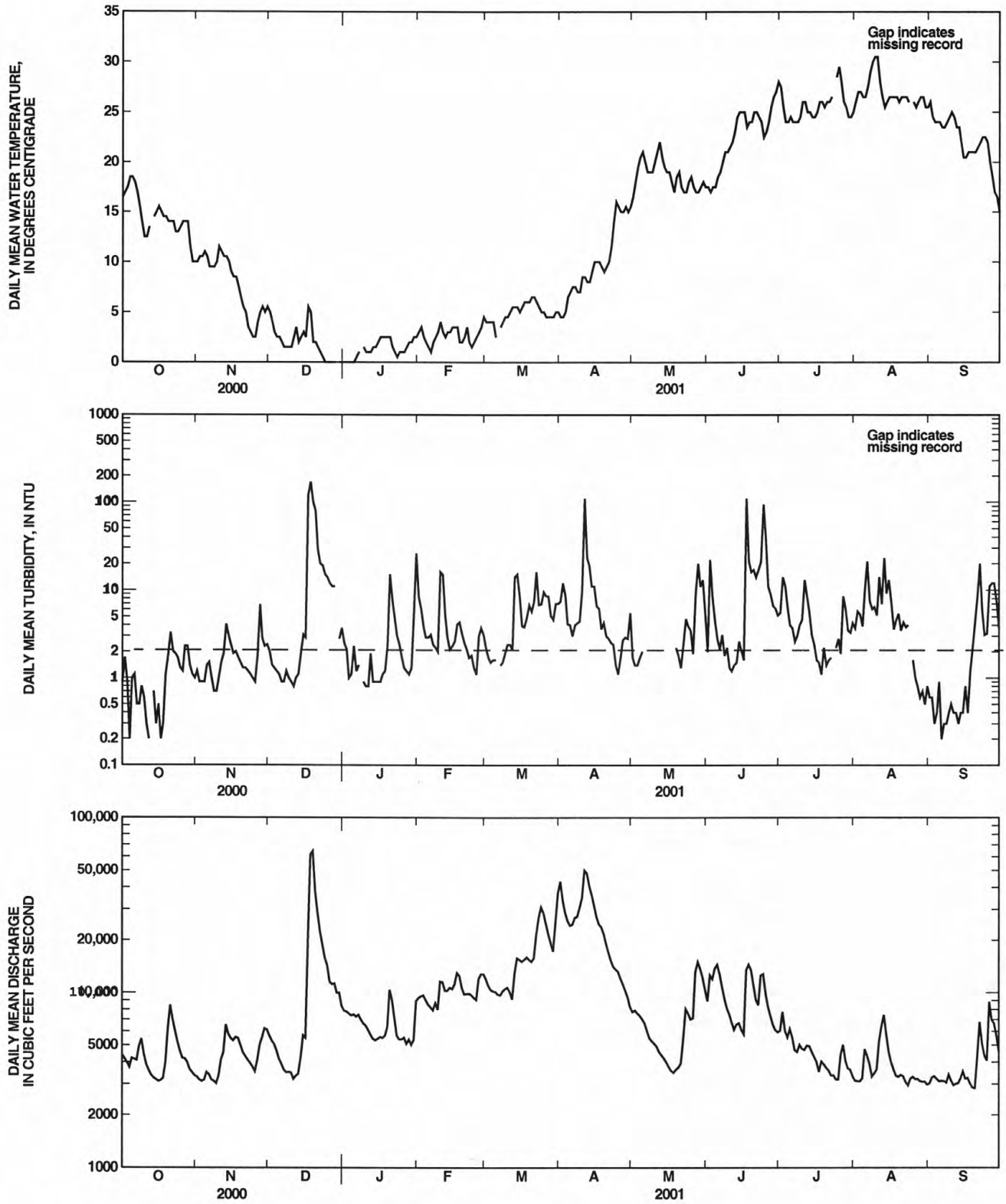


Figure 51. Physical characteristics and concentrations of constituents measured at 01463500 Delaware River at Trenton--continued. [--- instrument detection level; turbidity values less than 2.0 NTU are approximate]

Cross section of specific conductance, pH, water temperature, turbidity, and dissolved oxygen concentration measurements from the Calhoun Street Bridge (distance from left bank looking downstream); and recorded hourly specific conductance, pH, water temperature, turbidity, and dissolved oxygen concentration measurements from the water-quality monitor at the Morrisville Water Filtration Plant, Morrisville, PA.

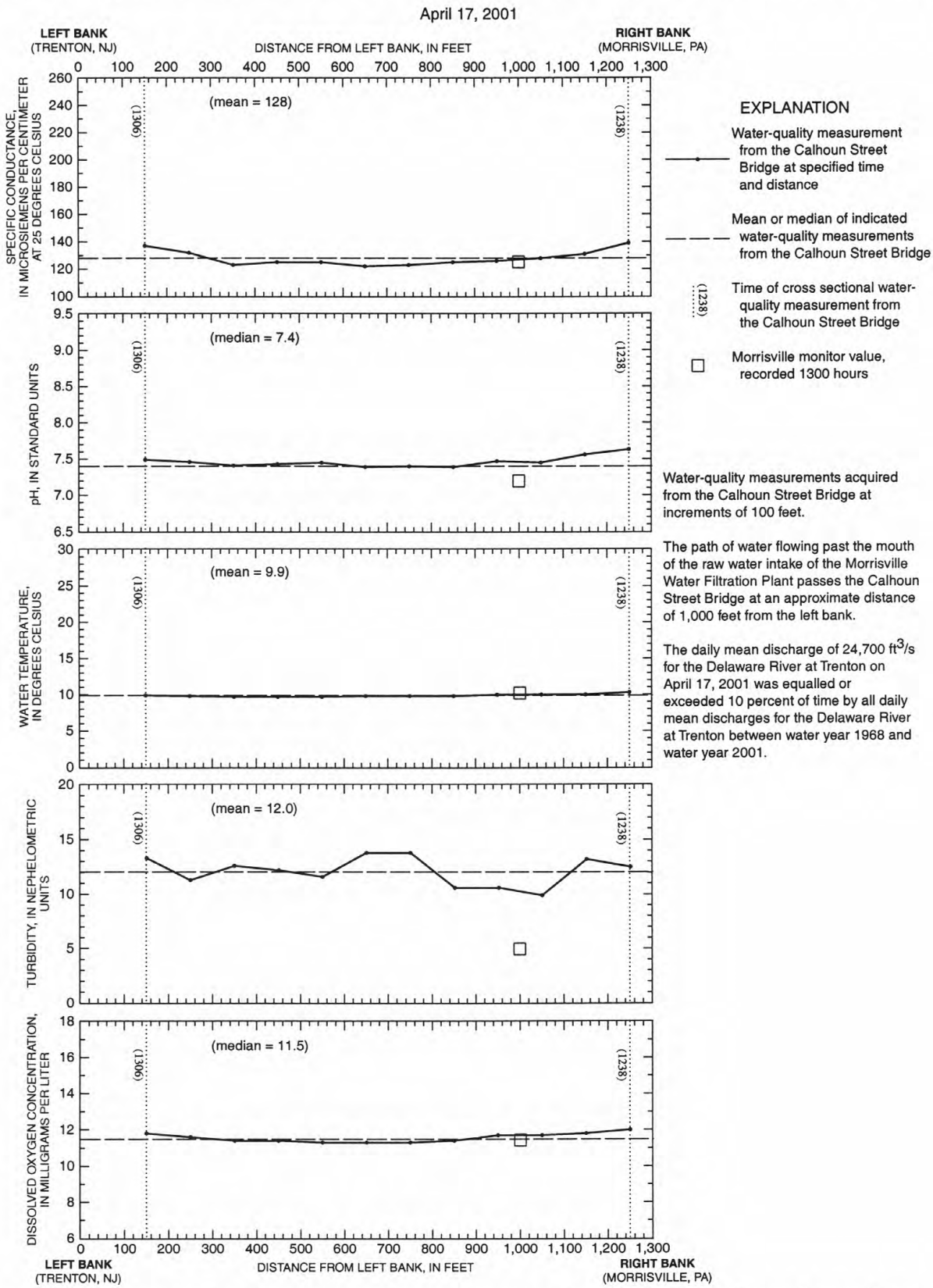


Figure 52. Cross sectional water-quality measurements with recorded monitor values, at Delaware River at Trenton, April 17, 2001.

Cross section of specific conductance, pH, water temperature, turbidity, and dissolved oxygen concentration measurements from the Calhoun Street Bridge (distance from left bank looking downstream); and recorded hourly specific conductance, pH, water temperature, turbidity, and dissolved oxygen concentration measurements from the water-quality monitor at the Morrisville Water Filtration Plant, Morrisville, PA.

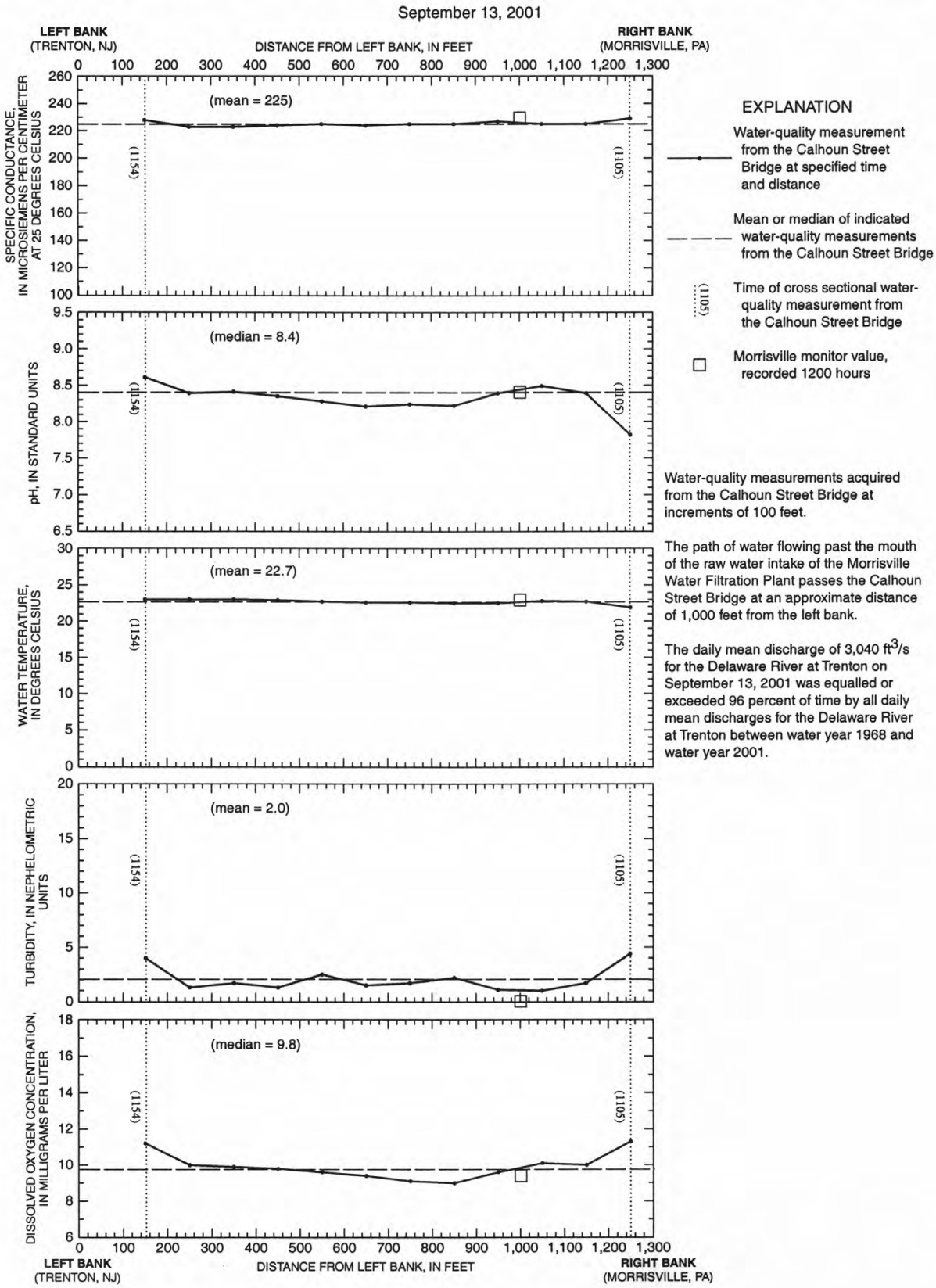


Figure 53. Cross sectional water-quality measurements with recorded monitor values, at Delaware River at Trenton, September 13, 2001.

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ

LOCATION.--Lat 40°14'50", long 74°41'14", Mercer County, Hydrologic Unit 02040105, at bridge on County Route 533 (Quaker Bridge Road), 0.7 mi north of Mercerville, 2.1 mi upstream of Assunpink Creek, and 3.8 mi northwest of Robbinsville.

DRAINAGE AREA.--10.7 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 13...	0810	2.3	--	.154	.120	760	59	6.6	6.7	179	8.5	10.5	45
FEB 15...	0840	7.7	--	.146	.114	757	89	11.1	6.8	269	7.5	5.5	47
MAY 16...	1130	.78	6.1	--	--	762	53	5.5	6.2	194	20.0	14.0	43
AUG 13...	1410	2.9	7.8	.256	.197	760	60	5.0	6.5	152	27.0	24.5	31

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 13...	10.5	4.58	4.04	12.4	23	21.3	.2	2.8	18.3	101	92	.040	.38
FEB 15...	11.9	4.22	2.51	29.0	18	50.5	<.2	6.1	18.4	151	139	.060	.30
MAY 16...	10.3	4.29	2.85	13.8	17	26.9	<.2	7.2	15.1	130	102	.110	.28
AUG 13...	6.53	3.53	3.06	13.0	15	24.0	E.1	2.6	11.4	90	75	.160	.69

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV 13...	.08	.52	1.02	.010	1.4	1.5	.084	.009	.035	.5	<.1	4.6	.5
FEB 15...	.07	.38	1.34	.003	1.6	1.7	.112	.010	.038	.8	<.1	3.9	.8
MAY 16...	.10	.40	2.49	.026	2.8	2.9	.144	.004	.032	.8	<.1	2.2	.8
AUG 13...	.20	.75	.514	.013	1.2	1.3	.117	.021	.081	.8	<.1	6.1	.8

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 13...	2.6	--	31	2
FEB 15...	E1.4	--	16	10
MAY 16...	<1.0	1.00	E12	3
AUG 13...	E1.6	13.9	29	1

E Estimated value.
< Actual value is known to be less than the value shown.

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23...	1019	1300	700	2100	05...	1002	170	200	650
30...	1025	490	500	550	11...	0934	1100	900	410

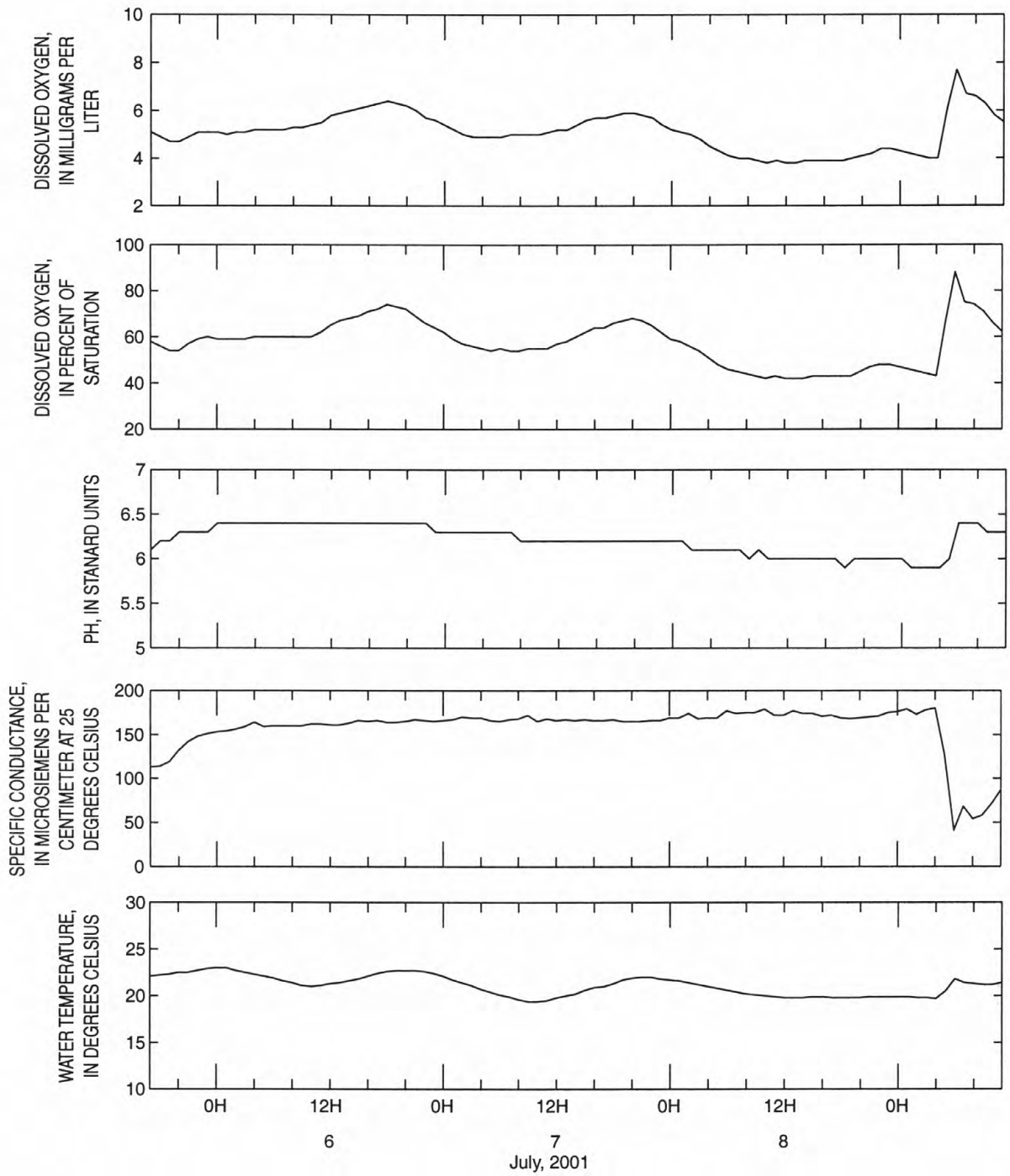


Figure 54. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01463850 Miry Run at Route 533 at Mercerville, water year 2001.

01464020 ASSUNPINK CREEK AT PEACE STREET, AT TRENTON, NJ

LOCATION.--Lat 40°13'02", long 74°46'08", Mercer County, Hydrologic Unit 02040105, at bridge on Peace Street in Trenton, 0.3 mi northwest of Trent House, and 0.7 mi southeast of Trenton Filtration Plant.

DRAINAGE AREA.--91.4 mi^2.

PERIOD OF RECORD.--Water years 1963, 1976-78, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 13...	1140	74	--	.125	.096	761	89	9.6	7.4	306	--	12.0	91
FEB 15...	1150	228	--	.113	.087	761	95	11.8	7.5	330	9.0	6.0	74
MAY 21...	0830	40	15	.171	.127	766	74	7.3	7.3	411	13.0	16.0	110
AUG 06...	1120	39	33	.132	.099	766	83	7.0	7.0	412	30.5	24.0	100

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 13...	19.3	10.5	3.90	20.1	56	32.6	.2	5.5	25.1	175	166	.110	.61
FEB 15...	18.2	6.89	2.98	29.6	34	55.1	E.1	9.1	24.7	188	179	.170	.48
MAY 21...	26.5	9.94	5.05	32.0	53	50.8	.3	8.4	33.7	238	223	.180	.88
AUG 06...	25.4	9.38	4.89	36.2	56	56.1	.3	8.2	32.5	222	227	.220	.76

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV 13...	.10	.82	3.29	.010	3.9	4.1	.148	.421	.532	1.0	<.1	4.5	1.0
FEB 15...	.14	.58	2.61	.009	3.1	3.2	.178	.139	.221	1.2	<.1	3.4	1.2
MAY 21...	.22	1.1	5.60	.068	6.5	6.7	.228	.747	.814	1.9	<.1	6.2	1.9
AUG 06...	.21	.88	4.64	.039	5.4	5.5	.144	.855	.892	1.1	<.1	4.2	1.0

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 13...	2.7	--	77	3
FEB 15...	2.1	--	36	13
MAY 21...	3.4	2.90	104	5
AUG 06...	E1.8	6.80	100	15

E Estimated value.
< Actual value is known to be less than the value shown.

01464020 ASSUNPINK CREEK AT PEACE STREET, AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG													
10...	0920	19	<.7	<.06	135	.12	<1	11.2	<10	1	<3	<.01	3

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG			
10...	<.4	.16	18

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB													
15...	1150	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB													
15...	<.10	<.2	1.02	<.10	.39	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.5

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB									
15...	<.2	<.20	<.10	<.10	.3	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)
MAY													
21...	0830	<.002	<.004	<.002	<.005	.068	<.010	E.019	<.020	<.005	<.003	<.005	<.005

< Actual value is known to be less than the value shown.

01464020 ASSUNPINK CREEK AT PEACE STREET, AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DISULFOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARATHION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY													
21...	<.021	<.002	<.009	<.005	<.004	<.035	<.027	<.050	<.006	.046	<.006	<.002	<.007

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PARATHION, DISSOLVED (UG/L) (39542)	PEBULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PERMETHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PROPARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TERBUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)
MAY													
21...	<.003	<.007	<.002	<.010	<.006	<.011	<.004	<.011	<.023	<.016	<.034	<.017	<.005

DATE	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY		
21...	<.002	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY				
23...	1143	>24000	8200	2300
30...	0950	>24000	17000	3500
JUN				
05...	1115	16	4200	4000
11...	1113	16000	17000	5600

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01464380 NORTH RUN AT COOKSTOWN, NJ

LOCATION.--Lat 40°02'58", long 74°33'47", Burlington County, Hydrologic Unit 02040201, at bridge on Main Street (County Route 528) in New Egypt, 0.1 mi south of intersection of Main Street, Cookstown-New Egypt Road, and Meany Road, and 1.0 mi upstream from Oakford Lake.

DRAINAGE AREA.--7.28 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)
NOV 30...	1030	ENVIRONMENTAL	--	.106	.084	759	97	11.7	7.1	199	5.0	7.0
FEB 22...	0930	ENVIRONMENTAL	--	.075	.063	775	86	12.1	7.2	247	-1.0	2.0
MAY 22...	0930	ENVIRONMENTAL	48	.208	.166	757	76	7.7	7.1	233	16.8	14.5
AUG 28...	0900	ENVIRONMENTAL	13	.125	.102	759	67	6.1	7.1	255	24.0	20.0

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
NOV 30...	61	17.8	3.88	3.61	9.7	26	17.6	E.1	10.3	30.1	111	111	.100
FEB 22...	74	22.1	4.66	3.08	11.7	28	23.5	E.1	11.7	40.6	148	136	.100
MAY 22...	69	20.8	4.20	3.90	13.3	36	24.1	.2	9.9	27.9	146	127	.210
AUG 28...	83	26.1	4.31	4.82	12.9	48	25.0	.3	13.3	32.1	163	148	<.030

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)
NOV 30...	.33	.11	.34	.364	.006	.69	.70	.072	.006	.056	1.0	<.1	2.9
FEB 22...	.19	.10	.26	.437	<.003	.63	.69	.030	.005	.037	.6	<.1	1.6
MAY 22...	.54	.22	.98	.319	.027	.85	1.3	.426	.007	.241	4.2	<.1	4.8
AUG 28...	.23	.03	.24	E.195	.003	--	--	.052	.012	.057	.5	<.1	2.8

E Estimated value.
< Actual value is known to be less than the value shown.

01464380 NORTH RUN AT COOKSTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV					
30...	1.0	E2.1	--	24	4
FEB					
22...	.6	2.0	--	31	8
MAY					
22...	4.1	3.0	33.1	35	43
AUG					
28...	.5	<1.0	.800	44	27

DATE	TIME	SAMPLE TYPE	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
AUG												
28...	*0815*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
28...	0900	ENVIRONMENTAL	--	--	--	--	--	--	<2	46.1	.11	42
28...	0900	BED MATERIAL	6.90	60	.6	460	1.3	<.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
AUG													
28...	--	--	*<.2*	--	--	*<.08*	--	--	*<.01*	--	*<.06*	--	--
28...	.05	<1	--	E.5	1760	--	<1	41	--	<.01	--	3	<.4
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA-TERIAL AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)
AUG													
28...	--	*<1*	--	--	--	--	--	--	--	--	--	--	--
28...	<.05	--	12	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	<1	.2	30	.8	<3	12000	4.2	9.5	<.01	3.2

DATE	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<1	30	<50	<50	<50	<50	<50	<50	<50	M	<50	M	<50

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01464380 NORTH RUN AT COOKSTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	M	M	<50	M	<50	<50	<50	<50	<50	<50	<50	<50	E4

DATE	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG								
28...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--
28...	<50	<50	<50	<50	<50	M	<1	<1

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB													
22...	0930	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	.23	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB													
22...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	1.1

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB									
22...	<.2	<.20	<.10	<.10	<.1	.43	<.10	<.20	<.2

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY													
22...	0930	<.004	<.002	<.005	.033	<.010	E.033	<.020	<.005	<.018	E.002	<.006	<.005

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
22...	<.005	<.002	<.004	<.035	<.027	<.050	.041	<.006	<.002	.013	<.003	<.010	E.005

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
22...	<.011	<.016	E.039	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY				
23...	1015	700	440	100
30...	1115	110	200	150
JUN				
06...	1050	110	400	110
13...	1105	460	<100	410
19...	1110	630	900	330

E Estimated value.

< Actual value is known to be less than the value shown.

01464504 CROSSWICKS CREEK AT GROVEVILLE ROAD, AT GROVEVILLE, NJ

LOCATION.--Lat 40°10'02", long 74°40'40", Mercer County, Hydrologic Unit 02040201, at bridge on Groveville Road (Main Street) in Groveville, 1.2 mi upstream of Doctors Creek, and 2.2 mi northeast of Bordentown.

DRAINAGE AREA.--98.0 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Site is at head of tide, infrequently affected, but sampled at low tide.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
28...	1120	245	--	.281	.226	760	80	9.6	6.7	132	12.0	7.5	39
MAR													
08...	1220	194	--	.133	.104	761	89	11.5	7.1	240	9.0	4.5	49
MAY													
21...	1130	52	9.5	.200	.161	766	85	8.6	7.3	209	13.0	15.0	66
AUG													
30...	1030	51	17	.218	.175	764	86	7.6	7.2	174	26.0	21.5	53

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
28...	11.6	2.45	3.92	5.6	14	12.3	E.1	8.6	18.4	90		--	.28
MAR													
08...	14.2	3.36	2.45	21.0	16	38.6	E.1	8.3	24.6	136	126	.050	.22
MAY													
21...	19.8	3.93	3.10	10.2	31	20.7	.2	9.7	25.8	141	117	.060	.32
AUG													
30...	15.8	3.27	3.73	8.5	26	18.2	.2	9.9	20.9	104	96	.080	E.31

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
28...	.04	.50	.481	<.003	.76	.98	.199	.029	.193	2.5	<.1	6.6	2.5
MAR													
08...	.07	.26	.801	<.003	1.0	1.1	.154	.013	.084	1.2	<.1	3.4	1.2
MAY													
21...	.08	.47	.960	.022	1.3	1.4	.066	.024	.105	.6	<.1	3.7	.6
AUG													
30...	.06	.33	E.612	.016	--	--	.071	.039	.133	.7	<.1	3.9	.7

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
28...	3.7	--	22	15
MAR				
08...	2.3	--	26	5
MAY				
21...	E1.8	2.10	29	3
AUG				
30...	E1.8	2.30	25	6

E Estimated value.
< Actual value is known to be less than the value shown.

01464504 CROSSWICKS CREEK AT GROVEVILLE ROAD, AT GROVEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
AUG													
30...	1030	--	--	--	--	--	--	E1	27.4	<.06	30	E.03	<1
30...	1030	7.00	330	.8	820	1.6	1.4	--	--	--	--	--	--

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)
AUG													
30...	1.6	2030	<1	41	<.01	2	<.4	<.05	14	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	2	.2	36	6.0

DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MATERIAL AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)
AUG													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	6	33000	20	220	.02	10	<1	80	E40	M	E30	E20	E30

DATE	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)
AUG													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	E20	90	230	220	280	140	240	310	E50	670	170	<50	<50

DATE	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHALENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)
AUG													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	M	<50	E20	M	M	E11	50	E20	360	<50	E20	490	10

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG	
30...	--
30...	18

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01464504 CROSSWICKS CREEK AT GROVEVILLE ROAD, AT GROVEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
MAR 08...	1220	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
MAR 08...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
MAR 08...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
MAY 21...	1130	<.004	<.002	<.005	.012	<.010	E.080	<.020	<.005	<.018	<.003	E.007	E.005

DATE	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)
MAY 21...	<.005	<.002	<.004	<.035	<.027	<.050	.314	<.006	<.002	<.007	<.003	<.010	E.004

DATE	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 21...	.026	<.016	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

01464504 CROSSWICKS CREEK AT GROVEVILLE ROAD, AT GROVEVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23...	0945	490	1300	600	05...	0928	330	100	190
30...	1150	230	200	240	11...	0841	490	200	130

01464515 DOCTORS CREEK AT ALLENTOWN, NJ

LOCATION.--Lat 40°10'37", long 74°35'57", Monmouth County, Hydrologic Unit 02040201, at bridge on Breza Road in Allentown, and 0.8 mi downstream from Conines Millpond dam.

DRAINAGE AREA.--17.4 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV													
21...	1400	11	--	.096	.075	758	93	11.6	7.3	191	4.5	5.6	56
FEB													
15...	1200	27	--	.056	.044	760	94	12.1	6.8	201	10.0	4.5	47
MAY													
14...	1110	7.3	6.4	.103	.080	765	78	7.5	7.3	219	27.5	17.5	61
AUG													
13...	1200	15	10	.198	.158	760	65	5.4	6.7	162	28.0	24.5	46

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
21...	14.0	5.03	4.41	9.4	24	22.6	.2	9.6	20.1	110	103	.660	.83
FEB													
15...	11.6	4.42	2.80	12.2	13	27.2	E.1	8.7	22.9	116	105	.530	.64
MAY													
14...	15.0	5.84	3.28	12.5	25	26.4	.2	7.0	21.2	128	112	.890	1.5
AUG													
13...	11.4	4.22	4.02	7.7	21	18.1	.2	7.6	18.4	98	87	.380	.70

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV													
21...	.66	1.0	.411	<.003	1.2	1.4	.105	.005	.046	.9	<.1	2.9	.9
FEB													
15...	.49	.62	1.57	.020	2.2	2.2	.155	.004	.045	.8	<.1	1.9	.8
MAY													
14...	1.05	1.5	.834	.048	2.3	2.3	.144	.020	.084	1.0	<.1	3.4	1.0
AUG													
13...	.36	.85	.486	.023	1.2	1.3	.102	.015	.069	.8	<.1	4.5	.8

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
21...	E1.8	--	34	5
FEB				
15...	E1.2	--	14	7
MAY				
14...	E1.1	2.80	33	<1
AUG				
13...	<1.0	23.1	29	3

E Estimated value.
< Actual value is known to be less than the value shown.

01464515 DOCTORS CREEK AT ALLENTOWN, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
02...	1101	9200	4200	990	23...	0930	50	200	190
09...	1000	80	200	220	30...	1010	790	<100	220

< Actual value is known to be less than the value shown.

01464527 BLACKS CREEK AT CHESTERFIELD, NJ

LOCATION.--Lat 40°06'34", long 74°38'31", Burlington County, Hydrologic Unit 02040201, at bridge on Chesterfield-Georgetown Road in Chesterfield, 346 ft north of intersection of Stelle Road and Chesterfield-Georgetown Road, and 2.4 mi upstream of Bacons Run.

DRAINAGE AREA.--8.91 mi^2.

PERIOD OF RECORD.--December 2000 to August 2001.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
DEC													
21...	0940	12	--	.245	.200	768	92	13.2	7.5	162	1.0	1.0	49
FEB													
22...	1030	9.7	--	.130	.107	769	96	13.4	6.6	180	-1.5	2.0	53
MAY													
14...	0900	5.0	19	.221	.179	764	70	6.9	7.1	204	16.5	16.0	71
AUG													
16...	1120	4.9	28	.263	.211	763	78	6.7	6.8	157	29.0	23.0	52

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
DEC													
21...	13.2	3.99	5.01	5.3	24	14.2	.3	10.4	16.2	101	90	.200	.47
FEB													
22...	14.1	4.29	3.60	7.6	21	19.3	.2	10.6	19.9	109	100	.140	.29
MAY													
14...	19.8	5.27	4.10	7.7	43	19.4	.3	10.1	18.1	129	112	.130	.53
AUG													
16...	14.7	3.62	4.88	6.1	36	15.0	.3	9.3	11.2	100	88	.050	.47

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
DEC													
21...	.18	.81	1.54	.014	2.0	2.4	.372	.011	.322	3.1	<.1	4.1	3.1
FEB													
22...	.15	.49	1.59	.012	1.9	2.1	.140	.010	.100	1.1	<.1	2.3	1.1
MAY													
14...	.12	.64	.351	.024	.89	.99	.152	.025	.137	1.1	<.1	4.6	1.1
AUG													
16...	.000	.69	.323	.018	.79	1.0	.224	.028	.182	1.6	<.1	5.7	1.6

< Actual value is known to be less than the value shown.

01464527 BLACKS CREEK AT CHESTERFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
DEC				
21...	2.4	--	23	45
FEB				
22...	2.0	--	24	14
MAY				
14...	<1.2	21.1	35	7
AUG				
16...	E1.0	38.9	33	9

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
02...	0955	16000	4800	9400

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
09...	0925	130	<100	280
30...	0938	330	100	670

E Estimated value.
< Actual value is known to be less than the value shown.

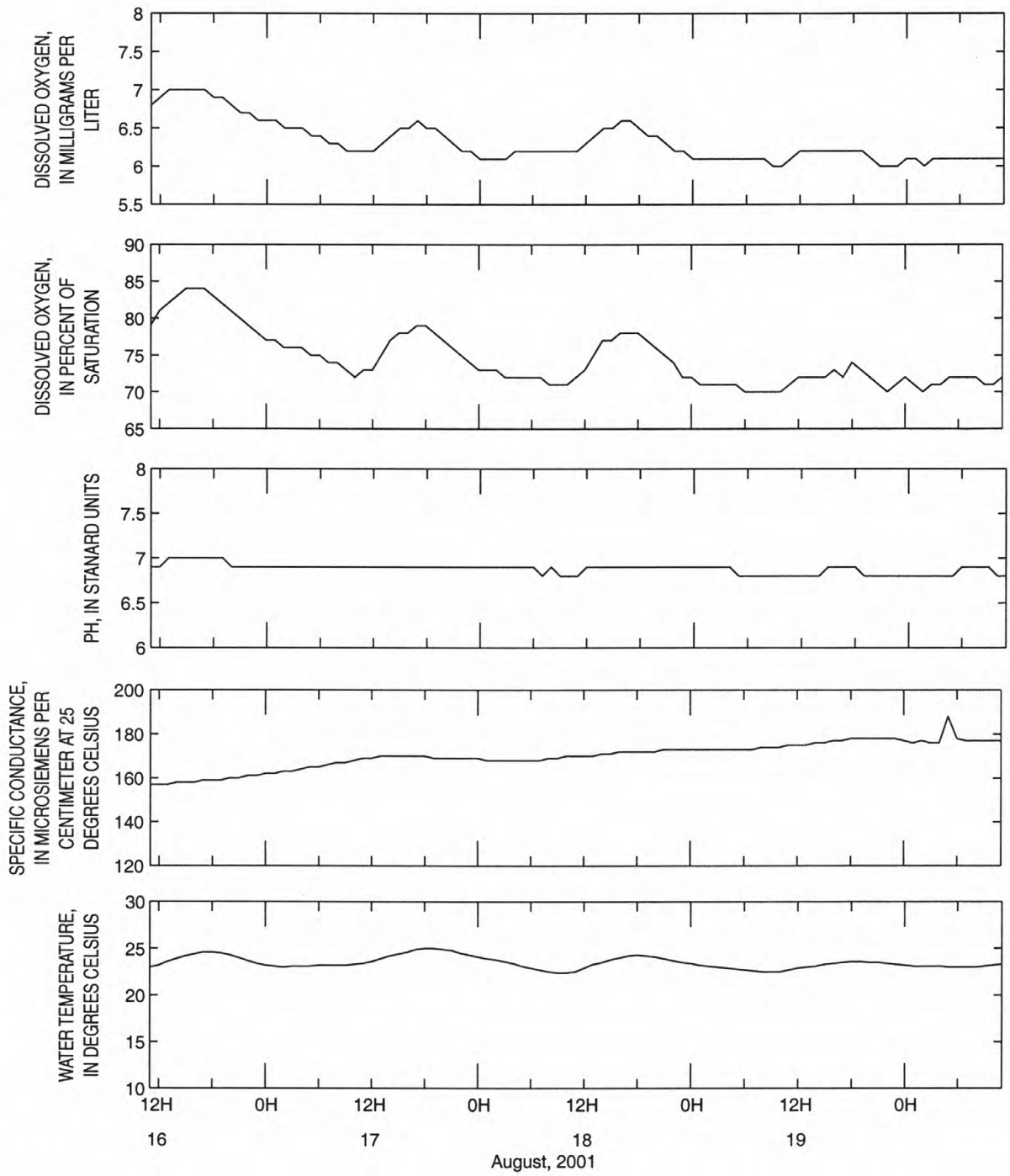


Figure 55. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01464527 Blacks Creek at Chesterfield, water year 2001.

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD, NEAR NESHAMINY, PA

LOCATION.--Lat 40°13'45", long 75°07'12", Bucks County, Hydrologic Unit 02040201, at bridge on Valley Road, 1.1 mi east of Neshaminy, PA, 2.0 mi downstream from Park Creek, 3.0 mi downstream from Bradford Dam, and 6.8 mi upstream from confluence with Neshaminy Creek.

DRAINAGE AREA.--26.8 mi^2.

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: February 1999 to June 1999, November 2000 to September 2001.

INSTRUMENTATION.--Water-temperature data logger (in-situ system; measurements recorded every 15 or 30 minutes) located at gage.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA). For the definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Fish community data for this and other sites are presented in "Water-Quality at Miscellaneous Surface-Water Sites."

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: maximum, 29.0 °C, Jun. 2, 1999, but may have been higher during period of missing record; minimum, -0.5 °C, Mar. 8, 1999.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT												
12...	1240	ENVIRONMENTAL	10	767	132	14.3	8.2	487	18.5	11.9	160	41.0
NOV												
02...	*1009*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	*E.01*
02...	1010	ENVIRONMENTAL	14	759	104	12.4	8.0	571	11.5	7.7	190	48.8
DEC												
26...	1520	ENVIRONMENTAL	18	766	111	16.3	7.9	569	-1.5	.1	170	43.6
JAN												
30...	1730	ENVIRONMENTAL	1030	747	97	13.3	7.2	450	7.0	1.6	84	21.3
MAR												
15...	1330	ENVIRONMENTAL	43	754	125	15.1	8.3	591	12.5	6.6	140	35.0
APR												
02...	1320	ENVIRONMENTAL	51	755	140	16.3	8.3	419	11.0	8.3	120	30.7
30...	1250	ENVIRONMENTAL	15	759	139	13.5	8.2	522	22.5	16.6	160	41.7
JUN												
06...	0750	ENVIRONMENTAL	25	756	98	9.2	7.7	445	22.0	18.0	140	37.1
28...	0930	ENVIRONMENTAL	18	760	119	10.1	7.9	441	30.0	23.0	140	35.8
AUG												
07...	0940	ENVIRONMENTAL	4.6	761	73	6.0	7.6	431	30.5	25.4	130	33.3
SEP												
11...	1310	ENVIRONMENTAL	1.8	759	109	9.3	8.3	769	25.5	22.9	180	46.0

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT													
12...	13.9	3.68	32.8	105	128	--	50.3	E.1	9.0	44.7	.25	.46	<.041
NOV													
02...	*<.008*	*<.09*	*<.1*	--	--	--	*<.1*	*<.2*	*<.1*	*<.1*	*<.10*	*<.08*	*<.041*
02...	16.4	4.35	41.2	134	163	--	59.5	E.1	9.7	55.8	.33	.42	<.041
DEC													
26...	15.4	3.25	42.9	93	114	--	81.1	E.1	11.9	48.1	.32	.36	<.041
JAN													
30...	7.36	2.74	47.5	39	47	--	95.4	E.1	3.7	17.2	.53	1.1	.117
MAR													
15...	12.1	2.63	53.6	71	86	--	110	E.1	6.6	32.2	.33	.49	<.041
APR													
02...	10.5	2.14	31.0	74	88	2	57.5	E.1	7.2	31.9	.22	.42	<.041
30...	14.1	2.99	38.7	105	119	4	69.6	<.2	4.1	40.9	.39	.50	<.041
JUN													
06...	12.3	3.08	30.1	100	122	--	45.7	E.1	9.4	37.4	.36	.45	<.040
28...	12.8	3.37	30.1	96	117	--	47.8	E.1	9.4	37.6	.41	.40	<.040
AUG													
07...	11.5	3.72	31.2	85	104	--	42.1	E.1	3.9	48.2	.34	.43	E.038
SEP													
11...	16.7	6.80	75.2	131	152	4	103	E.1	2.5	72.0	.98	1.1	E.031

E Estimated value.
< Actual value is known to be less than the value shown.

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD, NEAR NESHAMINY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
OCT													
12...	2.1	1.9	1.61	.006	--	--	.056	.048	.097	--	--	3.8	.4
NOV													
02...	--	--	*<.047*	*<.006*	--	--	*<.006*	*<.018*	*<.004*	--	--	--	--
02...	1.6	1.6	1.22	.008	--	--	.063	.046	.087	--	--	3.8	.4
DEC													
26...	1.1	1.1	.782	E.005	--	--	.043	.033	.067	--	--	3.1	.3
JAN													
30...	1.8	1.3	.751	.010	.97	.866	.063	.054	.347	8.6	--	6.4	--
MAR													
15...	1.8	1.6	1.28	.015	--	.102	.028	.021	.072	.7	<.1	3.7	.7
APR													
02...	1.7	1.5	1.29	.010	--	.172	.036	.025	.070	.7	<.1	3.1	.7
30...	1.3	1.2	.841	.028	--	.060	.052	.019	.076	.6	<.1	3.6	.6
JUN													
06...	1.4	1.3	.949	--	--	.101	.073	<.020	.099	.7	<.1	3.8	.7
28...	1.8	1.8	1.40	.040	--	.163	.050	.023	.085	.7	<.1	3.5	.7
AUG													
07...	1.3	1.2	.885	.017	--	.032	.091	.071	.100	.3	<.1	3.7	.3
SEP													
11...	3.1	3.0	2.00	.028	--	.105	.151	.112	.163	.4	<.1	5.0	.4

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT								
12...	280	266	7.7	75	20	14.2	.12	4
NOV								
02...	*<10*	--	--	*<13*	*<10*	*<3.2*	--	*7*
02...	337	322	26	120	20	11.8	.47	12
DEC								
26...	333	306	9.8	61	20	63.1	.22	5
JAN								
30...	240	222	280	15	70	85.1	1010	364
MAR								
15...	331	301	20	34	60	79.2	1.2	11
APR								
02...	238	222	6.5	39	50	67.4	1.0	8
30...	313	279	5.0	62	70	32.0	.15	4
JUN								
06...	255		10	44	70	42.5	.49	7
28...	248	241	7.5	49	20	23.4	.38	8
AUG								
07...	239	229	5.0	75	10	44.1	.04	3
SEP								
11...	435	410	<2.0	205	M	24.4	.01	1

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)
OCT													
12...	1240	E.02	<.04	E.01	698	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD, NEAR NESHAMINY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)
OCT													
12...	<.04	<.06	<.07	<.03	<.2	E.02	.12	<.05	<.3	<.2	<.1	<.03	<.06

DATE	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
OCT												
12...	<2	.2	<.2	<.2	<.06	<.03	<.04	<.07	M	E.03	.21	<.09

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
OCT													
12...	1240	<.004	<.002	<.005	.020	<.010	<.041	<.020	<.005	<.018	<.003	E.026	.007
JAN													
30...	1730	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
APR													
02...	1320	<.004	<.002	<.005	.010	<.010	<.041	<.020	<.005	<.018	<.003	E.010	.008
30...	1250	<.004	<.002	<.005	.017	<.010	<.041	<.020	<.005	<.018	<.003	E.020	<.005
JUN													
06...	0750	<.004	<.002	<.005	.181	<.010	E.005	<.020	<.005	<.018	<.003	E.029	.042
28...	0930	.014	<.002	<.005	.193	<.010	E.002	<.020	E.004	<.018	<.003	E.011	.032
AUG													
07...	0940	<.004	<.002	<.005	.033	<.010	E.011	<.020	<.005	<.018	<.003	E.013	.087
SEP													
11...	1310	<.004	<.002	<.005	.026	<.010	E.012	<.020	<.005	<.018	<.003	E.021	.006

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
OCT													
12...	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003	<.010	.082
JAN													
30...	<.005	<.002	<.004	<.035	<.027	<.050	E.011	<.006	<.002	<.007	<.003	<.010	<.015
APR													
02...	<.005	<.002	<.004	<.035	<.027	<.050	E.005	<.006	<.002	<.007	<.003	.010	.015
30...	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003	<.010	.017
JUN													
06...	<.005	<.002	E.001	<.035	<.027	<.050	.099	<.006	<.002	<.007	<.003	E.006	.057
28...	<.005	<.002	<.004	<.035	<.027	<.050	.086	<.006	<.002	<.007	<.003	<.010	<.030
AUG													
07...	<.005	<.002	<.004	<.035	<.027	<.050	E.008	<.006	<.002	<.007	<.003	<.010	.029
SEP													
11...	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003	<.010	.017

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD, NEAR NESHAMINY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT						
12...	E.008	<.016	<.034	E.022	<.005	<.009
JAN						
30...	<.011	<.080	<.034	--	<.005	<.009
APR						
02...	.034	<.016	<.034	--	<.005	<.009
30...	<.011	<.016	<.034	--	<.005	<.009
JUN						
06...	.091	<.016	<.034	--	<.005	E.003
28...	.016	<.016	<.034	E.009	<.005	<.009
AUG						
07...	E.002	<.016	<.034	--	<.005	<.009
SEP						
11...	<.011	<.016	<.034	--	<.005	<.009

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	6.0	4.0	5.0	.5	.0	.5
2	---	---	---	---	---	---	4.5	1.5	3.0	.5	.0	.0
3	---	---	---	11.0	7.0	9.0	3.0	.5	1.5	.0	.0	.0
4	---	---	---	11.5	8.5	10.5	3.0	.0	1.0	.0	.0	.0
5	---	---	---	10.5	8.0	9.0	3.5	.0	2.0	.0	.0	.0
6	---	---	---	9.0	6.0	8.0	2.5	.0	1.5	.0	.0	.0
7	---	---	---	9.0	6.0	8.0	2.5	.5	1.5	.0	.0	.0
8	---	---	---	10.0	6.5	8.5	3.0	.5	1.5	.0	.0	.0
9	---	---	---	11.5	9.0	10.0	3.0	.0	1.5	.5	.0	.5
10	---	---	---	12.5	11.0	12.0	3.0	.5	1.5	.5	.0	.5
11	---	---	---	12.0	10.5	11.5	4.0	2.5	3.0	.5	.0	.5
12	---	---	---	11.5	9.5	10.5	5.0	2.0	4.0	1.0	.0	.5
13	---	---	---	11.0	9.5	10.5	2.5	.5	1.5	1.0	.5	.5
14	---	---	---	10.5	9.0	10.0	2.5	1.5	1.5	1.0	.0	.5
15	---	---	---	9.0	7.0	8.0	3.0	2.0	2.5	1.5	1.0	1.0
16	---	---	---	8.0	6.5	7.5	4.5	2.0	3.0	2.0	1.5	1.5
17	---	---	---	8.5	6.5	7.5	11.0	4.0	8.5	1.5	1.0	1.5
18	---	---	---	7.5	5.5	6.0	9.0	4.5	6.5	1.5	1.0	1.0
19	---	---	---	6.0	4.5	5.0	4.5	3.5	4.0	1.5	1.0	1.5
20	---	---	---	5.5	2.5	4.0	4.0	2.0	3.0	1.5	1.0	1.5
21	---	---	---	4.5	2.0	3.5	2.0	1.0	1.5	1.5	.5	1.0
22	---	---	---	3.0	1.5	2.0	2.5	1.0	2.0	1.0	.0	.5
23	---	---	---	2.0	.5	1.5	1.0	.0	.5	1.0	.0	.5
24	---	---	---	2.5	.5	1.5	.5	.0	.5	1.5	.0	.5
25	---	---	---	3.0	.5	2.0	.5	.5	.5	1.5	.5	1.0
26	---	---	---	7.0	3.0	5.0	.5	.5	.5	1.5	.5	1.0
27	---	---	---	7.5	6.5	7.0	.5	.5	.5	2.0	1.0	1.5
28	---	---	---	8.5	6.5	7.5	.5	.5	.5	2.0	1.0	1.5
29	---	---	---	7.5	5.5	6.5	.5	.5	.5	2.0	1.0	1.5
30	---	---	---	7.0	6.0	6.5	.5	.0	.5	2.0	1.5	2.0
31	---	---	---	---	---	---	.5	.0	.0	2.5	1.5	2.0
MONTH	---	---	---	12.5	.5	7.1	11.0	.0	2.1	2.5	.0	.8

E Estimated value.
< Actual value is known to be less than the value shown.

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD, NEAR NESHAMINY, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	2.5	3.0	5.5	4.5	5.0	8.0	7.0	7.5	22.5	15.5	17.5
2	4.0	3.0	3.5	5.5	5.0	5.0	9.0	7.5	8.0	23.0	17.5	19.5
3	3.5	2.5	2.5	6.0	5.5	5.5	10.5	7.0	8.5	23.5	19.0	20.5
4	2.5	1.5	2.0	6.0	5.0	6.0	11.5	8.5	10.0	23.5	20.0	21.0
5	2.5	.5	1.5	5.0	4.0	4.5	12.0	9.0	10.5	23.5	19.5	22.0
6	2.5	1.0	1.5	4.0	3.5	4.0	12.0	10.5	11.0	21.5	17.0	18.5
7	3.5	2.5	3.0	5.5	4.0	4.5	11.0	10.0	10.5	20.5	14.5	17.0
8	3.0	2.5	3.0	5.5	5.0	5.0	10.0	9.5	10.0	19.5	15.0	16.5
9	4.0	2.5	3.5	6.0	5.5	5.5	14.5	9.5	11.5	20.5	16.0	18.5
10	4.5	4.0	4.5	6.0	5.0	5.5	14.5	13.5	14.0	21.0	16.5	18.0
11	4.0	2.5	3.0	6.5	5.5	6.0	13.5	12.0	12.5	21.5	17.5	19.0
12	3.0	2.0	2.5	7.0	5.5	6.0	12.0	11.5	12.0	22.5	18.5	20.0
13	4.5	3.0	3.5	7.0	5.5	6.0	14.0	12.0	13.0	21.5	17.0	19.0
14	5.0	4.0	4.5	7.0	6.5	7.0	15.0	12.5	14.0	19.5	15.5	17.0
15	5.5	5.0	5.0	7.0	6.5	7.0	15.0	13.0	14.0	20.0	15.0	17.0
16	5.5	5.0	5.0	8.0	7.0	7.5	14.5	13.5	14.0	20.0	15.0	17.0
17	5.5	4.0	5.0	8.0	7.5	7.5	13.5	12.5	13.0	18.5	16.0	16.5
18	4.0	2.5	3.0	8.0	7.0	7.5	13.0	11.0	12.0	16.0	15.5	16.0
19	4.0	2.0	3.0	8.0	6.5	7.5	13.0	10.5	12.0	19.5	16.0	17.0
20	5.0	3.5	4.0	8.5	7.0	7.5	12.5	11.0	12.0	19.5	17.0	18.0
21	6.0	4.5	5.0	8.5	6.5	7.5	14.0	12.5	13.0	17.5	15.0	16.0
22	5.0	2.5	3.5	7.5	6.5	7.0	17.0	13.5	15.0	17.0	15.5	16.0
23	3.5	2.0	2.5	8.5	6.5	7.5	19.5	16.5	17.5	18.0	16.0	17.0
24	3.5	2.5	3.0	8.5	7.5	8.0	20.0	18.0	19.0	21.0	17.0	18.5
25	4.0	3.5	4.0	7.5	6.0	7.0	19.0	16.0	17.5	19.0	17.0	18.0
26	5.0	4.0	4.5	7.5	6.5	7.0	16.5	14.0	15.5	17.0	16.0	16.5
27	6.0	4.5	5.0	7.0	6.0	6.5	16.5	14.5	15.5	17.5	16.0	16.5
28	6.0	5.5	5.5	7.5	6.0	6.5	17.0	15.5	16.0	19.5	17.0	18.0
29	---	---	---	7.5	6.5	7.0	16.5	14.5	15.5	20.0	16.5	18.0
30	---	---	---	7.0	5.5	6.0	19.5	14.5	16.5	20.5	17.0	18.0
31	---	---	---	7.5	6.0	6.5	---	---	---	21.0	15.0	17.5
MONTH	6.0	.5	3.6	8.5	3.5	6.3	20.0	7.0	13.0	23.5	14.5	17.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.0	15.0	16.0	26.0	24.0	25.0	23.0	20.5	22.0	26.0	24.5	25.0
2	17.0	15.0	16.0	25.5	21.0	23.5	24.5	22.0	23.0	24.5	21.5	22.5
3	19.5	17.0	17.5	23.0	19.5	21.0	25.0	23.0	24.0	23.0	20.5	21.5
4	20.0	16.0	18.0	23.0	21.0	22.0	24.5	23.0	24.0	23.5	21.5	22.5
5	21.5	17.0	19.0	23.0	21.5	22.0	24.5	22.5	23.5	23.0	22.0	22.5
6	21.0	18.0	19.0	22.5	20.5	21.5	26.5	23.5	24.5	22.5	20.5	21.5
7	23.5	18.0	20.0	22.5	19.5	21.0	28.0	25.0	26.0	22.5	20.5	21.5
8	24.5	18.0	20.5	22.0	21.5	21.5	28.5	26.0	27.0	23.5	21.5	22.5
9	23.5	17.5	20.0	24.0	21.0	22.0	29.0	25.5	27.0	24.5	23.0	23.5
10	23.5	17.5	20.0	24.5	22.5	23.5	29.0	26.5	28.0	24.5	23.5	24.0
11	25.0	18.5	21.0	25.0	22.5	23.5	27.0	24.5	26.0	24.5	22.5	23.5
12	26.5	20.0	23.0	23.5	21.0	22.0	25.0	24.0	24.5	23.0	21.0	22.0
13	27.0	21.5	24.0	22.5	20.0	21.5	26.0	23.5	24.5	22.0	20.5	21.0
14	26.0	22.5	23.5	22.5	20.0	21.0	26.0	23.0	24.0	22.5	18.5	20.5
15	25.5	22.5	23.5	22.0	20.0	21.0	25.5	23.0	24.0	19.5	17.0	18.0
16	24.0	22.5	23.5	22.5	21.0	22.0	25.5	22.5	23.5	19.0	16.5	17.5
17	23.0	22.0	22.5	24.0	22.5	23.0	25.5	23.5	24.5	18.5	16.5	17.5
18	22.5	21.5	22.0	25.0	22.5	23.5	25.0	23.0	23.5	18.5	17.0	18.0
19	24.0	22.0	23.0	24.0	22.5	23.0	25.0	23.5	23.5	19.0	17.5	18.0
20	26.0	22.5	24.0	23.5	21.5	22.5	25.5	23.5	24.5	19.5	19.0	19.0
21	24.0	22.0	23.0	23.5	20.5	22.0	25.5	23.0	24.0	21.5	19.5	20.5
22	25.5	22.0	23.0	24.0	21.5	23.0	24.5	22.5	23.5	22.0	20.0	20.5
23	24.5	22.0	23.5	24.5	22.5	23.5	24.5	22.5	23.0	21.0	20.0	20.5
24	24.5	22.5	23.5	27.0	24.5	25.5	24.5	22.5	23.0	21.0	20.5	20.5
25	26.0	21.0	23.0	27.5	26.0	26.5	24.5	22.5	23.5	21.5	18.5	20.5
26	26.5	21.0	23.0	26.5	23.5	25.5	24.0	21.5	22.5	18.5	16.0	17.0
27	27.5	21.5	23.5	25.0	21.5	23.0	25.5	23.5	24.0	16.0	14.5	15.5
28	26.5	22.5	24.0	22.5	21.0	21.5	26.0	24.0	25.0	15.5	13.5	14.5
29	25.5	23.0	24.0	22.5	21.0	21.5	26.0	23.5	24.5	14.5	13.5	14.0
30	26.5	23.5	24.5	23.0	21.0	21.5	25.0	23.0	24.0	14.0	12.5	13.0
31	---	---	---	22.0	19.5	21.0	26.0	24.0	24.5	---	---	---
MONTH	27.5	15.0	21.7	27.5	19.5	22.6	29.0	20.5	24.3	26.0	12.5	20.0
YEAR	29.0	.0	12.8									

01465893 LITTLE CREEK AT CHAIRVILLE, NJ

LOCATION.--Lat 39°53'53", long 74°47'19", Burlington County, Hydrologic Unit 02040202, at bridge on State Route 70 in Chairville, 250 feet east of Skeet Road, 1.9 mi east of Medford, 4.6 mi south of Lumberton, and 4.7 mi upstream of South Branch Rancocas Creek.

DRAINAGE AREA.--6.32 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 20...	1040	4.7	--	.644	.497	759	83	11.0	3.8	69	6.5	3.5	8
FEB 07...	1215	28	--	.645	.493	766	86	11.7	4.1	74	6.0	3.0	7
MAY 15...	0930	2.8	2.6	.712	.571	759	85	8.5	5.2	100	20.0	15.0	9
AUG 15...	1220	1.4	4.3	.275	.220	761	84	7.1	6.6	95	27.0	23.5	10

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 20...	1.57	.893	.80	6.6	--	10.4	<.2	7.4	5.8	57	--	<.030	.37
FEB 07...	1.43	.723	.62	4.0	--	6.6	<.2	5.1	7.9	54	--	<.030	.29
MAY 15...	1.73	1.11	1.17	11.5	3	18.2	<.2	2.9	5.1	78	44	.070	.56
AUG 15...	1.82	1.28	1.31	13.4	4	20.5	<.2	2.8	6.2	56	50	<.030	.28

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV 20...	.03	.88	.093	<.003	.46	.97	<.022	.008	.013	.3	<.1	13	.3
FEB 07...	<.03	.41	.047	<.003	.33	.46	.039	.009	.012	.6	<.1	13	.6
MAY 15...	.13	.62	.065	<.003	.63	.68	.144	.018	.041	1.4	<.1	12	1.4
AUG 15...	<.03	.40	.090	<.003	.37	.49	.080	.011	.041	.9	<.1	5.2	.9

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 20...	<1.0	--	E12	<1
FEB 07...	2.2	--	19	2
MAY 15...	E2.0	1.40	20	5
AUG 15...	<1.0	7.40	25	5

E Estimated value.
< Actual value is known to be less than the value shown.

01465893 LITTLE CREEK AT CHAIRVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
02...	1040	700	400	2600	09...	1244	20	<100	540
					30...	1035	<20	100	390

< Actual value is known to be less than the value shown.

01466100 MOUNT MISERY BROOK AT UPTON, NJ

LOCATION.--Lat 39°55'44", long 74°31'53", Burlington County, Hydrologic Unit 02040202, at bridge on State Route 70, 0.5 mi southwest of Upton, 1.1 mi downstream of confluence of North Branch, Middle Branch, and South Branch Mount Misery Brook, and 4.0 mi northeast of Four Mile Circle.

DRAINAGE AREA.--28.4 mi^2.

PERIOD OF RECORD.--December 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
DEC													
12...	1000	--	.135	.104	755	87	11.0	4.7	40	4.5	5.0	3	.60
FEB													
27...	1000	--	.308	.234	766	85	10.8	4.2	47	6.0	5.5	3	.55
MAY													
17...	1045	1.4	.325	.255	760	84	8.7	4.4	37	14.1	13.5	3	.49
AUG													
16...	1100	1.4	.277	.219	763	78	7.2	4.4	43	27.0	19.5	4	.69

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
DEC													
12...	.450	.45	1.9	<1	3.4	<.2	5.0	5.8	20	.120	E.08	.04	.13
FEB													
27...	.409	.41	1.8	--	3.0	<.2	4.3	6.2	24	<.030	.14	.03	.19
MAY													
17...	.378	.37	1.9	--	3.4	<.2	4.4	4.5	22	<.030	.16	<.03	.19
AUG													
16...	.548	.50	2.0	--	3.1	<.2	6.4	6.2	27	<.030	.17	<.03	.26

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN,PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)
DEC													
12...	E.028	<.003	--	--	.025	E.003	.004	.5	<.1	3.3	.5	<1.0	--
FEB													
27...	.048	<.003	.18	.24	.022	E.002	.004	.4	<.1	6.8	.4	E1.6	--
MAY													
17...	<.037	<.003	--	--	.053	.005	.011	.8	<.1	5.4	.8	E1.9	1.30
AUG													
16...	.043	.014	.21	.30	.117	E.002	.011	1.6	<.1	5.2	1.6	<1.0	1.60

DATE	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
DEC		
12...	E10	<1
FEB		
27...	E11	2
MAY		
17...	E10	3
AUG		
16...	E11	4

E Estimated value.
< Actual value is known to be less than the value shown.

01466100 MOUNT MISERY BROOK AT UPTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
AUG													
16...	1100	--	--	--	--	--	--	<2	21.9	.06	10	.06	<1
16...	1100	4.20	50	<.2	80	2.8	<.2	--	--	--	--	--	--

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)
AUG													
16...	E.4	780	1	18	<.01	<1	<.4	<.05	9	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	<1	<.03	.9	.1

DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MATERIAL AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)
AUG													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	3	1500	3.3	3.5	<.01	.7	<1	<3	<50	<50	<50	<50	<50

DATE	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)
AUG													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	<50	<50	<50	<50	<50	<5	<50	<50	<50	<50	<50	<50	<1

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLOROWATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLOROWATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLOROWATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB													
27...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

E Estimated value.
< Actual value is known to be less than the value shown.

01466100 MOUNT MISERY BROOK AT UPTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 27...	<.10	<.2	.11	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 27...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 17...	1045	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY 17...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 17...	<.011	<.016	<.034	<.005	<.009

< Actual value is known to be less than the value shown.

01466100 MOUNT MISERY BROOK AT UPTON, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
02...	1015	1700	1700	290
09...	1150	20	<100	20
30...	1010	<20	<100	40

< Actual value is known to be less than the value shown.

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ

LOCATION.--Lat 39°53'05", long 74°30'20", Burlington County, Hydrologic Unit 02040202, 25 ft upstream from Butterworth Road Bridge in Lebanon State Forest, 3.4 mi upstream from confluence with Cooper Branch, and 7.0 mi southeast of Browns Mills.

DRAINAGE AREA.--2.35 mi^2.

PERIOD OF RECORD.--Water years 1963-96, 1998 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1968 to September 1992.
pH: October 1984 to September 1992.
WATER TEMPERATURE: October 1960 to September 1992.
DISSOLVED OXYGEN: October 1984 to September 1992.

REMARKS.--Chemical analyses are from samples collected as water flows over the weir at the gaging station. All discharge record represents flow at a point 785 ft downstream of the gaging station. Discharges at the weir may be about 1 ft^3/s less than published in Water-Data Report NJ-01-1. For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Background, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
NOV												
30...	1045	ENVIRONMENTAL	1.3	--	.167	.124	758	38	4.5	4.2	52	8.0
MAR												
01...	1045	ENVIRONMENTAL	2.2	--	.402	.298	758	61	8.0	4.1	63	2.0
MAY												
24...	1045	ENVIRONMENTAL	1.9	.3	.390	.296	758	30	3.1	4.1	49	22.0
AUG												
07...	*0945*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
07...	1045	ENVIRONMENTAL	.92	.3	.126	.099	757	29	2.8	4.5	30	32.0

DATE	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
NOV													
30...	8.0	4	.55	.603	.25	2.1	--	3.4	<.2	4.6	6.5	15	<.030
MAR													
01...	3.5	3	.59	.472	.22	1.8	--	3.1	<.2	3.6	7.2	25	<.030
MAY													
24...	13.0	3	.45	.381	.11	1.8	--	3.3	<.2	3.8	3.9	36	<.030
AUG													
07...	--	--	*<.01*	*<.008*	--	*<.1*	--	--	--	*<.1*	--	--	--
07...	15.5	2	.28	.302	.23	1.8	<1	3.4	<.2	4.8	3.2	11	.030

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)
NOV													
30...	.11	<.03	.14	<.037	<.003	<.022	<.004	<.004	.2	<.1	4.7	.2	<1.0
MAR													
01...	.15	<.03	.17	<.037	<.003	<.022	<.004	E.002	.2	<.1	9.4	.2	<1.0
MAY													
24...	.18	<.03	.14	E.019	<.003	.025	<.004	<.004	.2	<.1	8.7	.2	<1.0
AUG													
07...	*<.10*	--	*<.08*	*<.037*	--	--	*<.004*	*<.004*	--	--	--	--	--
07...	E.06	.06	.09	<.037	<.003	<.022	E.002	<.004	.2	<.1	2.5	.2	E1.6

E Estimated value.
< Actual value is known to be less than the value shown.

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV					
30...	--	E13	--	--	<1
MAR					
01...	--	<13	--	--	8
MAY					
24...	.300	E10	--	--	1
AUG					
07...	--	*<7*	*<10*	*<.1*	--
07...	.100	<13	--	--	1

DATE	TIME	SAMPLE TYPE	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)
AUG												
07...	*0945*	*FIELD BLANK*	--	--	--	--	--	--	*<1*	*<.05*	*<.2*	--
07...	1045	ENVIRONMENTAL	--	--	--	--	--	--	--	--	--	<2
07...	1045	BED MATERIAL	5.48	140	.6	60	5.5	<.2	--	--	--	--

DATE	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
AUG													
07...	*<1.0*	--	*<.06*	--	--	*<.04*	--	*<.8*	--	*<.02*	*<.2*	--	*<10*
07...	--	7.6	--	<.06	8	--	E.03	--	<1	--	--	<.6	--
07...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
AUG													
07...	--	*<.08*	--	*<.3*	*<.1*	--	*<.01*	--	*<.2*	*<.06*	--	*<.3*	--
07...	120	--	<1	--	--	5	--	<.01	--	--	<1	--	<.4
07...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA-TERIAL AS FE) (01170)
AUG													
07...	*<1.0*	--	*<.08*	*<.04*	*<.2*	*<1*	--	--	--	--	--	--	--
07...	--	<.05	--	--	--	--	4	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	<1	<.03	2.3	.1	<.334	580

E Estimated value.
< Actual value is known to be less than the value shown.

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)
AUG													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
07...	3.1	6.3	.08	.5	<1	<3	<50	<50	<50	<50	<50	<50	<50

DATE	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)
AUG													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
07...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG												
07...	--	--	--	--	--	--	--	--	--	--	*<.02*	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	<50	<50	<50	<5	<50	<50	E30	<50	<50	<50	--	52

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
MAR													
01...	1045	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
MAR													
01...	<.10	<.2	.20	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
MAR									
01...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

E Estimated value.
< Actual value is known to be less than the value shown.

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY													
24...	1045	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
24...	<.005	<.002	<.004	<.035	<.027	<.050	E.001	<.006	.006	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
24...	<.011	<.016	<.034	E.002	<.009

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
02...	1000	140	100	20	09...	1132	<20	<100	10
					30...	0955	<20	<100	<10

E Estimated value.
< Actual value is known to be less than the value shown.

01466900 GREENWOOD BRANCH AT NEW LISBON, NJ

LOCATION.--Lat 39°57'22", long 74°37'41", Burlington County, Hydrologic Unit 02040202, at bridge on Four Mile Road (County Route 646) 0.1 mi south of New Lisbon, 0.5 mi upstream from mouth, and 3.1 mi east of Pemberton.

DRAINAGE AREA.--77.9 mi^2.

PERIOD OF RECORD.--December 2000 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
DEC													
14...	0800	68	--	.226	.176	760	80	10.4	4.6	48	4.5	4.0	5
MAR													
07...	0800	121	--	.361	.278	750	78	10.4	4.2	58	3.5	3.0	4
MAY													
31...	0800	73	4.1	.517	.412	759	75	7.5	4.4	45	12.0	15.1	4
AUG													
15...	0800	75	7.8	.376	.299	759	82	7.1	4.7	55	19.0	22.0	6

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
DEC													
14...	1.02	.590	.84	3.4	<1	5.3	<.2	5.5	7.3	31	.050	.15	.04
MAR													
07...	.93	.520	.58	3.4	--	5.1	<.2	3.7	6.8	27	<.030	.17	.05
MAY													
31...	.93	.521	.77	3.9	--	6.2	<.2	4.5	5.1	37	.030	.18	.03
AUG													
15...	1.17	.638	.79	4.3	--	6.5	<.2	5.1	8.6	31	<.030	.17	.09

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
DEC													
14...	.17	.076	<.003	.22	.25	.054	.007	.015	.5	<.1	4.5	.5	E2.0
MAR													
07...	.22	.048	<.003	.22	.27	<.022	.011	.023	.5	<.1	7.5	.5	E2.2
MAY													
31...	.38	.049	<.003	.23	.43	.125	.011	.051	2.6	<.1	7.2	2.6	E1.6
AUG													
15...	.42	.050	<.003	.22	.47	.224	.004	.071	4.5	<.1	5.3	4.5	E1.4

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
DEC			
14...	--	E12	2
MAR			
07...	--	<13	<1
MAY			
31...	1.60	E7	2
AUG			
15...	11.0	E12	11

E Estimated value.
< Actual value is known to be less than the value shown.

01466900 GREENWOOD BRANCH AT NEW LISBON, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
02...	0925	2400	1300	250	09...	1210	20	<100	<10
					30...	0930	<20	<100	10

< Actual value is known to be less than the value shown.

01467005 NORTH BRANCH RANCOCAS CREEK AT IRON WORKS PARK, AT MOUNT HOLLY, NJ

LOCATION.--Lat 39°59'31", long 74°46'58", Burlington County, Hydrologic Unit 02040202, at Iron Works Park footbridge, 0.3 mi north of Saint Andrews Cemetery in Mount Holly, and 0.1 mi downstream from Mill Dam.

DRAINAGE AREA.--140 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year. Published as "at Pine Street" (station 01467006) 1998-99.

REMARKS.--Site is at head of tide; all samples collected at low tide.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
DEC													
11...	1230	121	--	--	--	764	95	12.6	6.6	153	6.5	3.5	32
MAR													
08...	1200	280	--	.284	.220	762	99	12.8	6.2	110	8.0	4.5	21
MAY													
22...	1240	153	20	.393	.314	755	89	8.7	6.6	145	21.0	16.0	29
AUG													
15...	0950	124	13	.299	.238	761	91	7.7	6.8	102	27.0	23.5	22

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
DEC													
11...	10.1	1.59	2.48	11.0	6	13.6	<.2	8.0	29.9	92	82	.430	.67
MAR													
08...	6.06	1.45	1.32	9.6	5	14.1	<.2	5.3	16.3	72	59	.210	.36
MAY													
22...	8.96	1.55	1.80	12.2	6	14.3	E.1	5.4	28.2	102	78	.420	.68
AUG													
15...	6.64	1.35	1.91	8.3	7	12.4	<.2	5.4	15.1	66	56	.130	.45

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
DEC													
11...	.49	.69	.226	.004	.90	.92	.050	.076	.192	.7	<.1	4.5	.7
MAR													
08...	.22	.40	.346	<.003	.71	.75	.097	.027	.070	.7	<.1	6.1	.7
MAY													
22...	.46	.98	.257	.011	.93	1.2	.359	.016	.243	4.7	<.1	6.5	4.7
AUG													
15...	.16	.60	.233	.010	.68	.83	.202	.020	.149	2.7	<.1	5.2	2.7

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
DEC				
11...	3.4	--	24	<1
MAR				
08...	E1.7	--	18	4
MAY				
22...	3.1	3.70	23	20
AUG				
15...	E1.5	7.00	29	10

E Estimated value.
< Actual value is known to be less than the value shown.

01467005 NORTH BRANCH RANCOCAS CREEK AT IRON WORKS PARK, AT MOUNT HOLLY, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
02...	1105	700	600	400	09...	1303	700	200	280
					30...	1100	340	500	190

01467150 COOPER RIVER AT HADDONFIELD, NJ

LOCATION.--Lat 39°54'11", long 75°01'18", Camden County, Hydrologic Unit 02040202, on right bank of Wallworth Lake in Pennypacker Park, 200 ft upstream from bridge on State Highway 41 (Kings Highway) in Haddonfield, 0.6 mi upstream from North Branch Cooper River, and 7.7 mi upstream from mouth.

DRAINAGE AREA.--17.0 mi^2.

PERIOD OF RECORD.--Water years 1968-79, 1991 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: March 1968 to September 1969.
WATER TEMPERATURE: March 1968 to August 1969, recorded once daily; October 1998 to September 2001, recorded hourly.

INSTRUMENTATION.--
WATER TEMPERATURE: Water temperature data logger (in-situ system; measurements recorded every 15 or 30 minutes) located at gage.

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction". Fish community data for this and other sites are presented in "Water-Quality at Miscellaneous Surface-Water Sites."

COOPERATION.--Field data and samples for laboratory analyses on 11/16, 02/08, 05/09, and 08/02 were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. Coli, and enterococcus bacteria on those dates was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory. Other field data and samples for laboratory analyses were provided by the Delaware River Basin National Water-Quality Assessment Program (NAWQA).

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 19.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 34.0°C, July 6, 1999; minimum, 0.0°C, on several days during January 2000.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 31.0°C, Aug. 9, 10; minimum, 0.5°C, on several days in December and January.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
OCT												
02...	*1419*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
02...	1420	ENVIRONMENTAL	14	31	--	--	764	125	11.9	7.0	209	22.5
NOV												
06...	1210	ENVIRONMENTAL	9.3	28	--	--	764	97	11.0	7.2	225	12.0
16...	1000	ENVIRONMENTAL	16	--	.178	.142	762	83	10.1	6.7	191	--
DEC												
19...	1330	ENVIRONMENTAL	32	51	--	--	760	99	12.9	7.0	152	5.5
FEB												
01...	1200	ENVIRONMENTAL	21	30	--	--	763	114	14.7	7.0	389	10.5
05...	1220	ENVIRONMENTAL	240	110	--	--	755	106	14.0	7.0	287	.5
08...	1000	ENVIRONMENTAL	27	--	.235	.189	778	87	11.9	6.5	586	--
MAR												
08...	1430	ENVIRONMENTAL	19	24	--	--	760	108	13.5	7.2	565	8.0
21...	1920	ENVIRONMENTAL	491	200	--	--	753	92	11.0	6.9	177	8.5
APR												
03...	1020	ENVIRONMENTAL	21	31	--	--	766	88	10.5	7.0	240	9.5
MAY												
01...	1200	ENVIRONMENTAL	12	--	--	--	768	103	10.0	6.9	263	27.5
09...	1000	ENVIRONMENTAL	10	32	.121	.095	768	79	7.9	6.9	267	16.0
JUN												
05...	1310	ENVIRONMENTAL	16	24	--	--	760	99	8.9	7.0	225	25.0
JUL												
05...	1320	ENVIRONMENTAL	52	46	--	--	756	90	7.4	6.9	129	29.5
AUG												
02...	1000	ENVIRONMENTAL	6.5	43	.097	.077	770	69	6.0	6.9	246	21.0
09...	1120	ENVIRONMENTAL	6.5	29	--	--	764	94	7.4	7.0	236	33.5

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT													
02...	--	--	*<.02*	*<.014*	*<.24*	*<.1*	--	--	--	*<.3*	*<.1*	*<.1*	*<.3*
02...	17.6	57	15.9	4.18	3.26	11.7	--	28	34	23.0	.1	10.9	23.8
NOV													
06...	9.8	63	17.3	4.86	4.19	13.9	--	31	38	28.2	.3	13.2	23.8
16...	7.0	56	15.5	4.16	4.32	12.1	33	--	--	22.5	.2	11.5	20.4
DEC													
19...	4.4	43	12.1	3.07	2.83	8.6	--	--	--	15.7	E.1	7.0	18.8
FEB													
01...	4.6	57	16.3	3.91	3.36	43.3	--	26	31	77.2	E.1	8.1	23.7
05...	3.4	37	10.5	2.52	2.35	35.3	--	17	20	58.3	E.1	4.7	15.3
08...	3.0	65	18.8	4.34	3.72	85.1	25	--	--	150	E.1	8.3	23.7
MAR													
08...	5.8	68	19.5	4.74	3.42	76.4	--	24	30	136	E.2	9.2	27.3
21...	7.3	26	7.37	1.82	1.92	21.5	--	16	20	34.6	E.1	2.8	10.6
APR													
03...	7.8	56	15.4	4.20	2.92	21.7	--	28	34	39.2	E.1	8.7	25.2
MAY													
01...	17.3	64	17.5	4.93	3.43	20.4	--	32	39	39.1	.2	8.8	26.5
09...	16.0	68	18.6	5.17	4.26	22.1	32	--	--	40.4	.2	10.9	26.9
JUN													
05...	20.4	60	16.8	4.48	3.83	16.0	--	32	39	28.9	.2	11.2	20.5
JUL													
05...	24.9	35	9.89	2.42	3.03	8.5	--	19	24	14.0	E.1	5.2	12.6
AUG													
02...	22.5	63	16.9	5.11	4.57	15.6	29	--	--	33.1	.2	14.3	26.5
09...	28.1	65	17.5	5.24	4.76	14.6	--	32	39	30.1	.2	13.7	26.1

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN,PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
OCT													
02...	*<10*	--	*<.020*	*<.10*	--	*<.10*	*<.050*	*<.010*	--	--	--	*<.006*	*<.010*
02...	129	112	.214	.45	--	.63	.347	<.010	.80	.97	--	.023	.018
NOV													
06...	125	125	.076	<.10	--	.36	.143	E.004	--	.51	--	E.005	<.018
16...	124	111	<.030	.34	<.03	.44	.122	.003	.46	.56	.166	.037	--
DEC													
19...	99	84	.097	.39	--	.55	.339	E.005	.73	.89	--	.038	.027
FEB													
01...	209	194	.178	.67	--	.59	.374	.007	1.0	.97	.150	.015	E.011
05...	162	141	.181	.38	--	.72	.422	.014	.81	1.1	--	.014	<.018
08...	335	311	.130	.32	.16	.47	.425	.004	.75	.89	.149	.027	--
MAR													
08...	304	294	.114	.27	--	.42	.342	E.004	.61	.76	.133	.006	<.018
21...	102	95	.190	.55	--	1.5	.917	.009	1.5	2.4	1.0	.029	.021
APR													
03...	148	137	.174	.41	--	.53	.413	.007	.82	.95	<.022	.023	.019
MAY													
01...	159	141	E.021	.30	--	.54	.135	E.005	.44	.68	.312	.020	<.018
09...	170	149	.100	.40	.09	.61	.176	.009	.58	.78	.278	.019	--
JUN													
05...	134	124	.267	.52	--	.71	.334	.017	.85	1.0	.222	.027	.019
JUL													
05...	88	69	.094	.48	--	.86	.403	.016	.88	1.3	.614	.030	<.020
AUG													
02...	154	135	.220	.45	.23	.76	.290	.013	.74	1.0	.284	.019	--
09...	166	133	.115	.40	--	.69	.227	.014	.62	.92	.303	.011	<.020

E Estimated value.
< Actual value is known to be less than the value shown.

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT													
02...	*<.008*	--	--	--	--	--	--	*<16*	*<10*	*<2.2*	--	--	*1*
02...	.256	--	--	3.4	.9	--	--	40	470	66.6	--	.53	14
NOV													
06...	.137	--	--	2.4	.8	--	--	48	60	106	--	.22	9
16...	.194	1.5	<.1	4.6	1.5	3.4	--	31	--	--	14	--	--
DEC													
19...	.170	--	--	5.7	1.3	--	--	28	900	67.5	--	1.8	21
FEB													
01...	.150	2.0	--	3.7	--	--	--	21	660	89.2	--	.77	14
05...	.324	--	--	3.4	--	--	--	16	160	57.6	--	35	53
08...	.123	1.8	<.1	4.6	1.8	E1.8	--	25	--	--	3	--	--
MAR													
08...	.139	1.5	<.1	3.0	1.5	--	--	26	610	94.8	--	.56	11
21...	.883	13	.1	4.0	13	--	--	20	230	39.0	--	211	160
APR													
03...	.175	.2	<.1	4.2	.1	--	--	32	740	87.3	--	.98	17
MAY													
01...	.164	2.5	<.1	3.3	2.5	--	--	44	350	83.7	--	.57	18
09...	.234	2.3	<.1	3.5	2.3	2.3	24.0	44	--	--	13	--	--
JUN													
05...	.240	2.5	<.1	4.3	2.5	--	--	36	680	87.3	--	.61	14
JUL													
05...	.281	E3.2	<.1	5.0	E3.4	--	--	29	320	51.8	--	8.6	61
AUG													
02...	.287	2.4	<.1	2.9	2.4	E1.3	30.6	47	--	--	26	--	--
09...	.212	2.2	<.1	3.3	2.1	--	--	51	90	104	--	.23	13

E Estimated value.
< Actual value is known to be less than the value shown.

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3-TRICHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISOPROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)
OCT													
02...	1420	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03

DATE	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON DISULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)
OCT													
02...	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3	<.2	<.1	<.03	<.06

DATE	FURAN, TETRAHYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYLCHLORIDE TOTAL (UG/L) (34418)	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-CHLOROTOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISOPROPYLTOLUENE WATER WHOLE REC (UG/L) (77356)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)
OCT												
02...	<2	.4	<.2	<.2	<.06	<.03	<.04	<.07	<.1	<.05	<.04	<.09

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
OCT													
02...	1420	<.004	<.002	<.005	E.002	<.010	E.066	<.020	E.004	<.018	<.003	<.006	.061
FEB													
01...	1200	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
05...	1220	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
MAR													
21...	1920	<.004	<.002	<.005	E.003	E.007	E.054	<.020	<.005	<.018	<.003	<.006	.067
APR													
03...	1020	<.004	<.002	<.005	E.002	<.010	E.008	<.020	<.005	<.018	<.003	<.006	.005
MAY													
01...	1200	<.004	<.002	<.005	E.004	<.010	E.036	<.020	<.005	<.018	<.003	<.006	.011
JUN													
05...	1310	<.004	<.002	<.005	.010	<.010	E.042	<.020	E.003	<.018	<.003	E.004	.095
JUL													
05...	1320	<.004	.011	<.005	.041	<.010	E.528	<.020	E.004	<.018	<.003	<.006	.470
AUG													
09...	1120	<.004	<.002	<.005	E.006	<.010	E.148	<.020	<.005	<.018	<.003	<.006	.053

E Estimated value.
< Actual value is known to be less than the value shown.

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
OCT													
02...	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	E.012
FEB													
01...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
05...	<.005	<.002	<.004	<.035	E.026	<.050	<.013	<.006	<.002	<.007	<.003	<.010	.019
MAR													
21...	<.005	<.010	<.004	<.035	<.027	<.050	<.013	<.006	<.010	<.007	<.003	.084	.041
APR													
03...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	.017	E.007
MAY													
01...	<.005	<.002	<.004	<.035	E.013	<.050	E.005	<.006	<.002	<.007	<.003	<.010	<.015
JUN													
05...	<.005	<.002	<.004	<.035	<.027	<.050	E.006	<.006	<.002	<.007	<.003	.010	.016
JUL													
05...	<.005	<.002	<.004	<.035	E.015	<.050	.050	<.006	<.002	<.007	<.003	.020	.049
AUG													
09...	<.005	<.002	<.004	<.035	<.027	<.050	E.001	<.006	<.002	<.007	<.003	<.010	.028

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT					
02...	<.011	E.007	<.034	<.005	<.009
FEB					
01...	<.011	<.016	<.034	<.005	<.009
05...	<.011	<.016	<.034	<.005	<.009
MAR					
21...	.015	<.016	<.034	<.005	.009
APR					
03...	.018	<.016	<.034	<.005	<.009
MAY					
01...	<.011	<.016	<.034	<.005	<.009
JUN					
05...	E.005	E.005	<.034	<.005	E.003
JUL					
05...	.299	<.016	<.034	<.005	<.009
AUG					
09...	.021	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
06...	1010	790	300	250	05...	1010	16000	5500	4900
20...	1035	490	1100	250					
27...	1000	2400	900	400					

E Estimated value.
< Actual value is known to be less than the value shown.

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.0	14.0	15.5	11.0	9.0	10.0	7.0	5.5	6.0	1.0	.5	1.0
2	18.0	15.5	16.5	11.5	9.5	10.5	6.0	4.0	4.5	1.0	1.0	1.0
3	19.5	16.0	18.0	11.5	9.5	10.5	4.0	2.5	3.0	1.0	.5	1.0
4	20.5	17.5	19.0	12.0	10.5	11.5	3.5	2.5	3.0	1.0	.5	1.0
5	19.5	18.0	18.5	12.0	10.0	11.0	3.5	2.5	3.0	1.0	1.0	1.0
6	20.5	18.0	19.0	10.5	8.5	9.5	3.5	2.5	3.0	1.5	1.0	1.0
7	19.0	15.5	17.5	10.0	8.0	9.0	3.5	2.5	3.0	2.0	1.5	1.5
8	15.5	13.0	14.0	10.5	8.5	9.5	3.5	3.0	3.0	2.5	2.0	2.5
9	13.5	11.0	12.0	12.0	10.0	11.0	3.5	2.5	3.0	2.5	2.0	2.0
10	11.5	10.0	11.0	14.5	12.0	13.5	3.5	3.0	3.0	2.0	1.0	1.5
11	13.5	10.0	12.0	13.0	12.0	12.5	5.0	3.5	4.0	3.0	1.5	2.0
12	14.5	11.5	13.0	12.5	11.0	11.5	6.5	4.5	5.5	3.0	2.5	3.0
13	15.0	12.0	13.5	12.0	11.0	11.5	4.5	3.0	3.5	3.0	2.0	2.5
14	16.0	12.5	14.5	11.5	10.0	11.0	4.5	3.5	4.0	3.0	2.0	2.5
15	16.5	14.0	15.0	10.0	8.5	9.0	4.5	3.5	4.0	3.5	3.0	3.5
16	16.0	15.0	16.0	8.5	7.0	8.0	5.5	3.5	4.0	4.0	3.5	3.5
17	16.0	15.0	15.5	9.0	7.5	8.5	12.5	5.5	10.0	4.0	3.0	3.5
18	16.0	15.0	15.5	8.0	6.5	7.5	9.0	4.5	6.5	3.5	3.0	3.0
19	16.5	14.0	15.0	7.5	6.0	6.5	4.5	3.5	4.0	3.5	3.5	3.5
20	15.0	13.0	14.5	6.0	4.5	5.5	4.5	2.5	3.5	3.5	2.5	3.0
21	16.0	13.0	14.5	5.5	4.5	5.0	3.0	1.5	2.5	3.0	1.0	2.0
22	15.5	14.0	14.5	4.5	2.5	3.5	2.5	1.5	2.5	2.5	.5	1.5
23	14.0	12.0	13.0	3.5	1.5	2.5	1.5	.5	1.0	2.0	1.0	1.5
24	13.5	11.5	12.5	3.5	3.0	3.0	1.5	.5	1.0	3.5	1.5	2.0
25	14.5	12.0	13.0	3.5	3.0	3.5	1.5	.5	1.0	3.5	2.0	3.0
26	15.5	13.5	14.5	9.5	3.5	7.5	1.5	.5	1.0	3.0	1.5	2.0
27	15.5	14.0	14.5	9.0	7.5	8.0	1.0	.5	1.0	3.0	2.0	2.5
28	15.5	12.5	14.5	9.5	7.5	8.5	1.5	.5	1.0	4.0	2.0	3.0
29	12.5	10.5	11.5	8.5	6.5	7.5	1.5	.5	1.0	3.5	2.5	3.0
30	10.5	8.5	9.5	7.5	7.0	7.0	1.0	.5	1.0	4.5	3.0	3.5
31	10.5	8.0	9.5	---	---	---	1.0	.5	.5	5.0	3.5	4.0
MONTH	20.5	8.0	14.4	14.5	1.5	8.4	12.5	.5	3.1	5.0	.5	2.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.0	3.5	4.5	7.0	5.0	6.0	---	---	---	---	---	---
2	6.0	4.5	5.0	7.5	5.0	6.0	---	---	---	---	---	---
3	4.5	2.5	3.5	8.0	7.0	7.5	---	---	---	---	---	---
4	4.0	2.5	3.0	8.0	4.0	6.5	---	---	---	---	---	---
5	3.5	1.5	3.0	4.0	3.0	3.5	---	---	---	---	---	---
6	4.0	2.0	3.0	4.0	2.5	3.0	---	---	---	---	---	---
7	5.5	3.0	4.0	7.0	3.0	4.5	---	---	---	---	---	---
8	4.5	3.0	4.0	---	---	---	---	---	---	---	---	---
9	7.5	3.5	5.0	---	---	---	---	---	---	---	---	---
10	9.5	7.5	8.5	---	---	---	---	---	---	---	---	---
11	7.5	3.5	5.0	---	---	---	---	---	---	---	---	---
12	4.5	2.5	3.5	---	---	---	---	---	---	---	---	---
13	7.0	3.5	5.0	---	---	---	---	---	---	---	---	---
14	6.5	5.5	6.0	---	---	---	---	---	---	---	---	---
15	7.5	6.5	7.0	---	---	---	---	---	---	---	---	---
16	7.5	6.5	7.0	---	---	---	---	---	---	---	---	---
17	7.0	4.5	6.0	---	---	---	---	---	---	---	---	---
18	5.0	2.0	3.5	---	---	---	---	---	---	---	---	---
19	5.0	2.5	3.5	---	---	---	---	---	---	---	---	---
20	7.0	3.5	5.0	---	---	---	---	---	---	---	---	---
21	8.0	6.0	7.0	---	---	---	---	---	---	---	---	---
22	6.5	2.0	4.0	---	---	---	---	---	---	---	---	---
23	3.5	1.0	2.0	---	---	---	---	---	---	---	---	---
24	4.5	3.0	3.5	---	---	---	---	---	---	---	---	---
25	6.0	3.5	4.5	---	---	---	---	---	---	---	---	---
26	8.5	5.5	6.5	---	---	---	---	---	---	---	---	---
27	8.5	5.0	7.0	---	---	---	---	---	---	---	---	---
28	8.0	6.0	7.0	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	9.5	1.0	4.9	---	---	---	---	---	---	---	---	---

DELAWARE RIVER BASIN

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	28.0	23.0	26.0	26.0	21.5	23.5	25.5	23.5	24.5
2	---	---	---	25.5	21.0	23.0	27.0	22.5	24.5	24.0	21.0	22.5
3	---	---	---	24.0	20.5	22.5	27.0	23.0	25.0	24.0	20.5	22.0
4	---	---	---	24.0	21.5	22.5	26.0	23.0	25.0	24.5	21.0	22.5
5	---	---	---	25.5	21.5	23.5	26.5	22.5	24.0	23.5	21.0	22.5
6	21.5	19.5	20.5	25.5	21.5	23.5	28.0	25.0	26.5	24.5	20.5	22.0
7	22.0	19.0	20.5	25.0	21.0	23.0	29.0	26.0	27.0	25.0	20.5	22.5
8	23.0	19.0	21.0	24.0	22.0	22.5	28.5	26.5	27.5	25.0	21.0	23.0
9	23.0	18.5	21.0	26.5	21.5	24.0	31.0	26.5	28.5	25.5	21.5	23.0
10	22.5	19.0	21.0	27.0	24.0	25.5	31.0	26.0	28.0	25.5	22.5	24.0
11	24.0	19.5	22.0	25.5	23.0	24.5	26.0	25.5	25.5	24.0	21.5	23.0
12	26.0	20.5	23.0	25.0	22.0	23.5	25.5	24.0	24.5	24.0	21.0	22.5
13	27.0	22.5	24.5	24.0	22.0	23.0	27.0	24.0	25.5	25.0	20.5	22.5
14	26.5	23.0	25.0	23.5	20.5	22.0	28.0	23.0	25.5	22.0	16.5	19.5
15	25.5	23.5	24.5	24.5	21.0	22.5	27.5	23.0	25.0	18.5	15.5	17.0
16	24.0	22.5	23.5	25.0	22.0	23.5	27.0	23.5	25.5	19.5	16.5	17.5
17	23.5	21.0	22.5	26.5	23.0	25.0	26.5	24.0	25.0	20.0	16.5	18.0
18	26.5	21.5	23.5	25.5	23.5	24.0	26.5	23.5	25.0	19.5	17.0	18.0
19	27.0	21.0	24.0	25.0	22.0	23.5	25.5	24.0	24.5	21.0	17.0	19.0
20	28.0	22.0	25.0	25.5	22.5	24.0	26.0	22.5	24.5	20.0	18.5	19.0
21	26.0	23.0	24.0	26.5	22.0	24.0	25.5	23.5	24.5	21.5	18.5	20.0
22	26.0	22.0	24.0	27.0	22.5	24.5	25.5	22.5	24.0	23.5	20.5	21.5
23	25.0	22.0	23.5	28.5	24.0	25.5	24.5	22.5	23.5	22.5	21.0	22.0
24	25.5	21.5	23.5	29.5	25.0	27.0	25.0	21.5	23.5	23.0	21.0	22.0
25	26.5	21.0	23.5	30.5	26.0	28.0	25.5	23.0	24.5	22.0	19.5	20.5
26	27.0	22.0	24.5	28.5	24.5	26.5	26.5	22.0	24.0	19.5	17.0	18.5
27	27.5	23.0	25.5	25.0	22.0	23.5	26.5	23.0	25.0	17.5	16.0	17.0
28	28.0	24.5	26.0	25.0	22.0	23.5	27.0	24.0	25.5	16.5	15.5	16.0
29	28.0	25.0	26.5	23.0	21.0	22.0	26.0	23.5	25.0	16.0	14.5	15.0
30	29.0	25.5	27.0	22.5	20.5	21.5	25.5	23.0	24.0	15.0	13.0	13.5
31	---	---	---	25.0	20.5	22.0	26.0	22.0	24.0	---	---	---
MONTH	29.0	18.5	23.6	30.5	20.5	23.9	31.0	21.5	25.1	25.5	13.0	20.4
YEAR	31.0	.5	---									

01467155 NORTH BRANCH COOPER RIVER AT KRESSON, NJ

LOCATION.--Lat 39°51'33", long 74°55'46", Camden County, Hydrologic Unit 02040202, at bridge on Kresson Road, 0.5 mi northwest of Kresson Road, 0.5 mi northwest of Kresson Lake, 2.3 mi south of Marlton.

DRAINAGE AREA.--1.04 mi^2.

PERIOD OF RECORD.--Water year 1998 and November 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
29...	1000	--	.642	.499	764	67	8.7	6.7	119	10.0	4.5	42	14.1
FEB													
22...	1000	--	.318	.245	773	73	10.7	7.0	157	-5.0	.5	43	14.2
MAY													
24...	1000	4.0	.521	.404	760	66	6.7	6.7	143	20.0	14.5	47	15.8
AUG													
30...	1000	11	.227	.171	763	3	.3	7.2	244	22.0	20.0	97	34.1

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
29...	1.56	1.19	6.0	29	9.8	E.1	9.4	8.1	101	68	<.030	.51	<.03
FEB													
22...	1.83	1.21	11.1	26	18.5	<.2	6.8	12.6	105	82	.050	.26	.03
MAY													
24...	1.87	1.47	8.4	32	13.3	<.2	8.4	11.8	106	81	.060	.52	.06
AUG													
30...	2.87	2.59	8.4	81	15.1	<.2	12.1	10.1	160	135	.590	1.2	.71

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV													
29...	.52	<.037	<.003	--	--	.047	.031	.040	.6	<.1	14	.6	E1.2
FEB													
22...	.34	.125	<.003	.38	.47	.050	.016	.032	.7	<.1	6.9	.7	<1.0
MAY													
24...	.55	.099	.004	.62	.65	.088	.033	.047	1.0	<.1	11	1.0	<1.0
AUG													
30...	1.5	E.068	.015	--	--	.444	.046	.192	3.6	<.1	5.5	3.6	E2.4

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV			
29...	--	17	<1
FEB			
22...	--	15	6
MAY			
24...	.700	18	7
AUG			
30...	.300	16	13

E Estimated value.
< Actual value is known to be less than the value shown.

01467155 NORTH BRANCH COOPER RIVER AT KRESSON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
AUG 30...	1000	3	62.9	<.06	17	E.03	<1	.9	2830	<1	232	<.01	1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 30...	<.4	<.05	5

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)
FEB 22...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 22...	<.10	<.2	.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 22...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
MAY 24...	1000	<.004	<.002	<.005	E.003	<.010	<.050	<.020	<.005	<.018	<.003	<.006	.007

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAY													
24...	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.002	<.007	<.003	<.010	E.003

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY					
24...	E.004	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN				
06...	1050	80	300	140
20...	1005	3500	1500	200
27...	1025	110	100	290
JUL				
05...	1045	3500	2500	4200

E Estimated value.
< Actual value is known to be less than the value shown.

01467359 NORTH BRANCH BIG TIMBER CREEK AT GLENDORA, NJ

LOCATION.--Lat 39°50'04", long 75°04'02", Camden County, Hydrologic Unit 02040206, at bridge on Chews Landing-Clementon Road (County Route 683), 0.7 mi south of Glendora, 1.8 mi upstream of South Branch Big Timber Creek, and 2.5 mi north of Blackwood.

DRAINAGE AREA.--18.8 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Site is tide-affected; all samples collected at low tide. Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
DEC 11...	0910	18	--	.102	.084	764	85	11.2	6.8	173	5.0	4.0	50
MAR 13...	1300	156	--	.157	.123	747	84	9.7	6.7	266	15.0	8.0	37
MAY 22...	1020	E70	32	.231	.183	755	68	6.7	6.8	126	18.5	15.5	34
AUG 16...	0900	E22	15	.200	.162	766	47	4.2	6.9	164	23.5	21.0	46

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
DEC 11...	15.3	2.89	2.75	10.0	28	15.0	E.1	11.3	20.7	102	98	.130	.26
MAR 13...	11.7	1.99	2.16	33.3	19	53.1	E.1	4.8	14.9	145	136	.080	.36
MAY 22...	10.1	2.09	2.60	9.0	21	12.3	E.1	5.2	13.5	89	70	.150	.46
AUG 16...	13.7	2.89	3.09	8.9	27	14.9	E.1	9.0	18.9	100	90	.110	.34

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
DEC 11...	.13	.36	.754	<.003	1.0	1.1	.157	.014	.199	2.0	<.1	1.9	2.0
MAR 13...	.08	.58	.598	.007	.96	1.2	.273	.024	.246	2.6	<.1	3.6	2.6
MAY 22...	.19	.69	.411	.015	.87	1.1	.340	.032	.267	3.3	<.1	5.1	3.2
AUG 16...	.11	.55	.407	.019	.75	.96	.116	.038	.226	1.0	<.1	3.6	1.0

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
DEC 11...	E1.6	--	235	10
MAR 13...	2.5	--	55	23
MAY 22...	3.6	4.60	153	23
AUG 16...	<1.0	3.80	200	14

E Estimated value.
< Actual value is known to be less than the value shown.

01467359 NORTH BRANCH BIG TIMBER CREEK AT GLENDORA, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTEROCOCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
06...	0935	3500	600	460	05...	0940	9200	4000	7500
20...	1110	3500	800	360					
27...	0925	330	100	200					

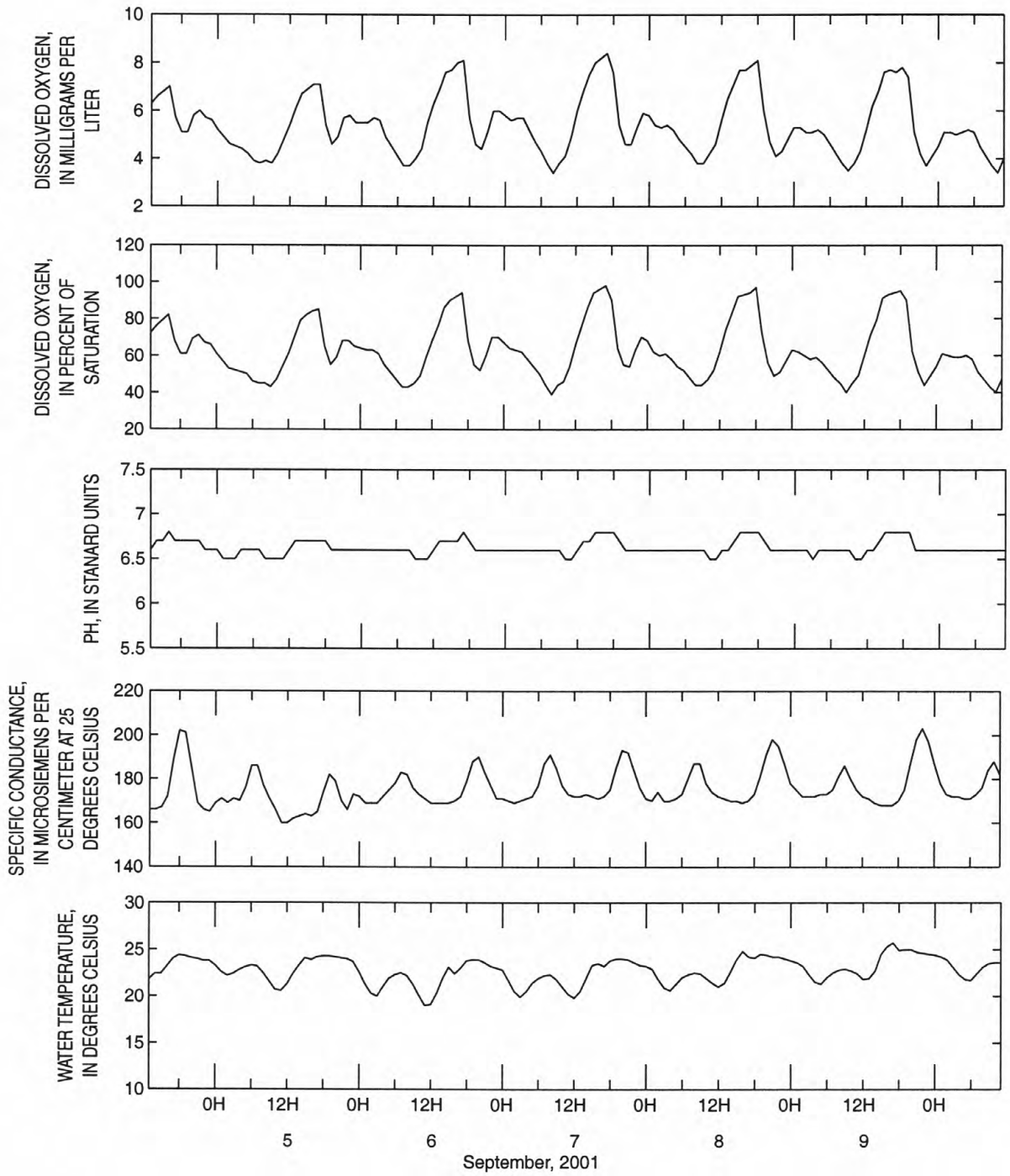


Figure 56. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01467359 North Branch Big Timber Creek at Glendora, water year 2001.

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA

LOCATION.--Lat 40°24'48", long 76°10'19", Berks County, PA, Hydrologic Unit 02040203, at bridge at Kricks Mill, 0.4 mi upstream from Mill Creek, and 3.5 mi west of Bernville.

DRAINAGE AREA.--66.5 mi^2.

PERIOD OF RECORD.--October 1998, revised, to August 2001 (discontinued).

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA).For the definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Fish community data for this and other sites are presented in "Water-Quality at Miscellaneous Surface-Water Sites."

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT												
03...	0900	ENVIRONMENTAL	59	749	92	9.2	8.2	584	14.5	14.6	270	75.7
NOV												
02...	1010	ENVIRONMENTAL	50	760	116	13.3	8.2	575	16.0	9.1	270	72.7
DEC												
27...	1140	ENVIRONMENTAL	66	759	108	15.3	8.2	592	-0.5	.8	280	80.5
FEB												
06...	*1209*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	*.04*
06...	1210	ENVIRONMENTAL	86	758	98	12.4	8.4	581	7.0	5.0	270	78.7
06...	*1211*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
MAR												
14...	0950	ENVIRONMENTAL	131	759	105	12.8	8.2	545	8.5	6.7	250	73.2
APR												
04...	1000	ENVIRONMENTAL	214	762	106	12.3	8.2	573	8.5	8.7	270	77.9
MAY												
03...	1330	ENVIRONMENTAL	84	761	120	11.2	8.2	593	34.0	18.7	270	76.1
JUN												
06...	0930	ENVIRONMENTAL	57	--	--	--	8.3	589	20.5	--	270	76.0
06...	*0931*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
27...	0930	ENVIRONMENTAL	49	761	91	8.0	8.3	602	28.5	21.3	280	77.0
AUG												
08...	1040	ENVIRONMENTAL	36	756	100	8.2	8.0	586	32.5	24.6	260	69.6

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
OCT													
03...	19.8	3.22	10.3	206	252	20.9	<.1	5.2	32.5	.28	.30	.048	8.7
NOV													
02...	20.5	3.28	12.2	216	263	22.8	.2	4.3	32.5	.27	.31	E.029	8.8
DEC													
27...	18.8	3.25	11.8	207	252	24.7	E.1	8.0	34.0	.42	.49	.224	9.8
FEB													
06...	*<.008*	*<.24*	*<.1*	--	--	*<.1*	*<.2*	*<.1*	*<.1*	*<.10*	*.08*	*<.041*	--
06...	17.5	3.14	12.4	199	243	25.9	E.1	5.7	32.0	.19	.40	.065	9.4
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
14...	16.0	3.35	13.3	176	215	26.3	<.2	6.2	30.8	.42	.62	.074	9.1
APR													
04...	17.3	3.01	11.8	200	244	23.3	<.2	5.3	31.3	.26	.33	.045	9.4
MAY													
03...	18.3	3.11	11.1	206	252	26.2	E.1	4.9	30.0	.24	.42	E.021	9.4
JUN													
06...	20.0	3.15	12.1	203	247	26.1	<.2	6.9	31.4	.27	.44	<.040	8.9
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	20.1	3.34	12.5	208	253	26.4	E.1	7.6	31.1	.27	.42	<.040	8.4
AUG													
08...	20.9	3.95	13.6	198	242	29.3	E.1	7.2	32.9	.30	.50	E.032	7.9

E Estimated value.
< Value shown is know to be less than the value shown.

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT													
03...	8.7	8.41	.065	.26	--	.059	.047	.079	--	--	1.5	.2	343
NOV													
02...	8.8	8.49	.083	--	--	.035	.025	.051	--	--	1.5	.2	334
DEC													
27...	9.7	9.31	.039	.26	--	.044	.039	.055	--	--	1.1	.3	344
FEB													
06...	--	*<.047*	*<.006*	--	--	*<.006*	*<.018*	*<.004*	--	--	--	--	*<10*
06...	9.2	9.00	.041	.33	.045	.024	.019	.043	.4	--	1.1	--	334
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
14...	8.9	8.45	.049	.54	.088	.031	.022	.069	.7	<.1	2.0	.7	328
APR													
04...	9.4	9.10	.041	.28	<.022	.026	.023	.044	<.1	<.1	1.5	<.1	327
MAY													
03...	9.3	9.03	.068	--	.175	.033	E.012	.076	E1.1	<.1	1.4	E1.1	351
JUN													
06...	8.8	8.51	.049	--	.075	.058	.033	.099	.5	<.1	1.6	.5	343
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	8.2	7.94	.055	--	.140	.072	.044	.112	1.1	<.1	4.6	1.1	332
AUG													
08...	7.7	7.39	.034	--	.126	.069	.057	.092	.9	<.1	1.9	.9	286

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT									
03...	329	8.0	4.0	4	23	M	8.1	7.9	50
NOV									
02...	336	3.1	2.9	3	26	M	6.7	9.3	69
DEC									
27...	347	7.3	3.9	--	20	<10	14.8	1.1	6
FEB									
06...	--	--	*<2.0*	*<2*	*<13*	*<10*	*<3.2*	--	--
06...	335	6.6	4.0	4	21	M	18.5	21	92
06...	--	--	*4.3*	*4*	--	--	--	--	--
MAR									
14...	312	19	2.6	3	13	M	22.8	11	32
APR									
04...	330	9.9	3.8	5	18	M	25.4	48	83
MAY									
03...	334	15	4.0	4	22	20	21.5	14	62
JUN									
06...	335	--	--	4	20	M	7.8	9.2	60
06...	--	--	--	--	--	--	--	--	--
27...	338	21	5.1	4	20	<10	8.2	12	89
AUG									
08...	329	18	5.1	5	22	M	10.3	6.8	70

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)
OCT													
03...	0900	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)
OCT													
03...	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3	<.2	<.1	<.03	<.06

DATE	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
OCT												
03...	<2	<.2	<.2	<.2	<.06	<.03	<.04	<.07	M	<.05	<.04	<.09

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	SAMPLE TYPE	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
OCT												
03...	0900	ENVIRONMENTAL	<.004	<.002	<.005	.226	<.010	<.041	<.020	<.005	<.018	<.003
FEB												
06...	1210	ENVIRONMENTAL	<.004	<.002	<.005	.213	<.010	<.041	<.020	<.005	<.018	<.003
APR												
04...	1000	ENVIRONMENTAL	<.004	<.002	<.005	.142	<.010	<.041	<.030	<.005	<.018	<.003
MAY												
03...	1330	ENVIRONMENTAL	<.004	<.002	<.005	.119	<.010	<.041	<.020	<.005	<.018	<.003
JUN												
06...	0930	ENVIRONMENTAL	<.004	<.002	<.005	.215	<.010	<.041	<.020	<.005	<.018	<.003
06...	*0931*	*SPLIT REPLICATE*	*<.004*	*<.002*	*<.005*	*.209*	*<.010*	*<.041*	*<.020*	*<.005*	*<.018*	*<.003*
27...	0930	ENVIRONMENTAL	<.004	<.002	<.005	.231	<.010	E.008	<.020	<.005	<.018	<.003
AUG												
08...	1040	ENVIRONMENTAL	<.004	<.002	<.005	.194	<.010	<.041	<.020	<.005	<.018	<.003

DATE	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
OCT													
03...	E.245	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.021	<.006	<.002	<.007	<.003
FEB													
06...	E.204	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	E.001
APR													
04...	E.145	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.011	<.006	<.007	<.007	<.003
MAY													
03...	E.118	<.005	<.005	.005	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003
JUN													
06...	<.006	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.014	<.006	<.002	<.007	<.003
06...	*<.006*	*E.002*	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*	*.015*	*<.006*	*<.004*	*<.007*	*<.003*
27...	E.066	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.017	<.006	<.002	<.007	<.003
AUG													
08...	<.006	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.011	<.006	<.002	<.007	<.003

< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT								
03...	<.010	.016	.019	E.013	<.034	<.005	<.005	<.009
FEB								
06...	<.010	E.012	.028	E.011	<.034	--	<.005	E.002
APR								
04...	<.010	E.012	.019	E.007	<.034	--	<.005	<.009
MAY								
03...	<.010	E.013	.091	E.007	<.034	--	<.005	<.009
JUN								
06...	<.010	E.010	.023	E.009	<.034	--	<.005	<.009
06...	*<.010*	*E.010*	*.024*	*E.010*	*<.034*	*--*	*<.005*	*<.009*
27...	<.010	<.015	.015	E.004	<.034	--	<.005	<.009
AUG								
08...	<.010	E.013	.017	E.013	<.034	--	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA

LOCATION.--Lat 40°09'05", long 75°36'06", Chester County, PA, Hydrologic Unit 02040203, at two-span county bridge on French Creek Road, 4.5 mi northwest of Phoenixville, and 7.3 mi upstream from mouth.

DRAINAGE AREA.--59.1 mi^2.

PERIOD OF RECORD.--October 1950, revised, to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: November 1998 to September 2001.

INSTRUMENTATION.--Water-temperature data logger (in situ system; measurements recorded every 15 minutes) located at gage.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA). For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality-Control Data" in the "Introduction." Fish community data for this and other sites are presented in "Water-Quality at Miscellaneous Surface-Water Sites."

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: maximum, 30.5°C, July 5, 6, 1999; minimum, -0.5°C, Dec. 25, 1998, Jan. 31, Mar. 12, 13, 1999.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT												
02...	1130	ENVIRONMENTAL	38	756	108	11.3	7.7	173	20.5	13.0	62	16.4
NOV												
02...	1320	ENVIRONMENTAL	25	762	--	--	7.8	173	17.5	9.0	62	16.5
DEC												
27...	1600	ENVIRONMENTAL	59	760	105	15.3	7.5	166	-2.5	.00	58	15.1
FEB												
07...	1020	ENVIRONMENTAL	112	764	108	14.8	7.4	239	11.0	2.5	56	14.6
MAR												
14...	1250	ENVIRONMENTAL	139	755	109	13.3	7.7	152	8.0	6.5	47	12.0
APR												
04...	*1409*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
04...	1410	ENVIRONMENTAL	122	765	110	12.2	7.8	143	14.0	10.5	47	12.1
04...	*1411*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	*47*	*12.1*
MAY												
03...	1120	ENVIRONMENTAL	67	766	97	9.1	7.7	151	28.0	18.5	51	13.2
22...	1220	ENVIRONMENTAL	340	756	97	9.9	7.3	147	17.0	14.0	46	12.2
JUN												
06...	1200	ENVIRONMENTAL	62	758	--	--	7.8	157	19.0	16.0	56	14.6
27...	1400	ENVIRONMENTAL	35	762	112	9.3	8.0	165	29.5	24.5	58	15.2
AUG												
08...	1330	ENVIRONMENTAL	16	758	127	10.0	8.4	168	33.0	27.0	58	15.6
SEP												
11...	0930	ENVIRONMENTAL	17	761	101	9.5	7.8	174	20.0	18.5	63	17.1

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT													
02...	5.19	1.93	8.1	--	--	--	10.9	<.1	17.1	12.8	.15	.18	<.041
NOV													
02...	5.16	1.62	7.7	45	54	--	11.3	E.1	15.9	12.2	.16	.19	<.041
DEC													
27...	4.87	1.50	7.6	34	42	--	12.7	<.2	17.0	14.7	.15	.17	<.041
FEB													
07...	4.81	1.72	20.8	28	34	--	40.6	<.2	13.2	13.3	.18	.36	<.041
MAR													
14...	4.08	1.54	10.3	23	28	--	18.0	<.2	11.6	12.7	.27	.73	<.041
APR													
04...	--	--	--	--	--	--	--	--	--	--	*<.10*	*<.08*	*<.041*
04...	4.15	1.23	7.7	28	34	--	11.8	<.2	12.5	13.5	.13	.15	<.041
04...	*4.15*	*1.26*	*7.7*	--	--	--	*11.7*	*<.2*	*12.5*	*13.4*	*.13*	*.15*	*<.041*
MAY													
03...	4.27	1.20	7.2	30	37	--	11.7	<.2	9.1	11.8	.16	.20	<.041
22...	3.79	1.94	8.7	28	34	--	13.0	<.2	11.7	11.9	.45	1.1	--
JUN													
06...	4.80	1.29	7.8	38	46	--	11.7	<.2	16.2	12.2	.15	.20	<.040
27...	4.80	1.38	7.4	40	48	--	11.5	<.2	17.5	11.7	.16	.21	E.024
AUG													
08...	4.68	1.54	7.5	46	53	1	11.3	E.1	14.4	11.6	.16	.18	E.032
SEP													
11...	4.95	1.65	6.9	49	59	--	11.5	<.2	14.4	11.8	.13	.16	<.040

E Estimated value.
< Actual value is known to be less than the value shown.

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT													
02...	1.7	1.7	1.53	E.003	--	.024	.021	.039	--	--	2.3	<.2	113
NOV													
02...	1.3	1.3	1.10	E.003	--	.008	<.018	.016	--	--	2.1	.3	113
DEC													
27...	2.4	2.4	2.26	.006	--	.016	E.012	.027	--	--	1.6	.2	108
FEB													
07...	1.9	1.7	1.51	.008	<.022	.018	E.015	.033	.3	--	2.4	--	155
MAR													
14...	2.0	1.6	1.29	E.003	.094	.014	<.018	.038	.5	<.1	3.4	.5	99
APR													
04...	--	--	*<.047*	*<.006*	--	*<.006*	*<.018*	*<.004*	--	--	--	--	--
04...	1.7	1.6	1.51	E.004	.068	.013	E.010	.025	.3	<.1	1.8	.3	96
04...	*1.7*	*1.6*	*1.50*	*E.004*	--	*.014*	*E.011*	*.022*	--	--	--	--	*92*
MAY													
03...	1.3	1.2	1.07	.018	.106	.010	<.018	.024	E.6	<.1	2.1	E.6	95
22...	2.0	1.4	.950	.011	.887	.046	.024	.293	7.9	<.1	5.4	7.9	107
JUN													
06...	1.5	1.4	1.29	.007	.095	.018	E.010	.034	.9	<.1	2.1	.9	103
27...	1.4	1.3	1.18	.023	.047	.029	<.020	.045	.5	<.1	4.6	.5	102
AUG													
08...	.69	.67	.516	E.005	.039	.024	.020	.023	.3	<.1	2.0	.3	97
SEP													
11...	1.1	1.0	.917	<.006	<.022	.016	<.020	.023	.3	<.1	1.7	.3	109

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT							
02...	107	2.4	E15	60	9.0	.23	2
NOV							
02...	102	<2.0	E9	50	4.4	.13	2
DEC							
27...	104	4.9	E12	50	13.8	.51	3
FEB							
07...	132	8.6	E6	80	26.4	1.3	4
MAR							
14...	90	13	E7	80	15.0	1.7	4
APR							
04...	--	--	--	--	--	--	--
04...	87	4.7	E11	60	11.8	1.3	4
04...	--	--	*E11*	*60*	*11.3*	--	*3*
MAY							
03...	82	4.9	<13	90	11.8	.60	3
22...	85	160	E11	160	51.1	83	91
JUN							
06...	97	--	E11	80	10.3	1.1	7
27...	99	7.4	E9	110	6.9	.38	4
AUG							
08...	96	3.0	<13	40	7.6	--	<1
SEP							
11...	102	<2.0	E9	20	5.1	.11	2

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3-TRICHLOROBENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRIMETHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRIMETHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISOPROPYLBENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)
OCT													
02...	1130	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03

DATE	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON DISULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)
OCT													
02...	<.04	<.06	E.01	<.03	<.2	<.02	<.04	<.05	<.3	<.2	<.1	<.03	<.06

DATE	FURAN, TETRAHYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYLCHLORIDE TOTAL (UG/L) (34418)	METHYLENECHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-CHLOROTOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISOPROPYLTOLUENE WATER WHOLE REC (UG/L) (77356)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)
OCT												
02...	<2	E.1	<.2	<.2	<.06	<.03	<.04	<.07	<.1	E.03	E.02	<.09

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYLATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
OCT													
02...	1130	<.004	E.002	<.005	.012	<.010	<.041	<.020	<.005	<.018	<.003	E.030	<.005
FEB													
07...	1020	<.004	.005	<.005	.007	<.010	E.060	<.100	<.005	<.018	<.003	E.021	<.005
APR													
04...	1410	<.004	<.002	<.005	.008	<.010	<.041	<.020	<.005	<.018	<.003	E.022	<.005
MAY													
03...	1120	<.004	<.002	<.005	.009	<.010	<.041	E.016	<.005	<.018	<.003	E.022	<.005
22...	1220	<.004	<.002	<.005	.270	<.010	E.007	<.020	<.005	<.018	<.003	E.023	.006
JUN													
06...	1200	E.004	<.002	<.005	.110	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
27...	1400	<.004	<.002	<.005	.103	<.010	<.041	<.020	<.005	<.018	<.003	E.014	<.005
AUG													
08...	1330	<.004	<.002	<.005	.017	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
SEP													
11...	0930	<.004	<.002	<.005	.011	<.010	<.041	<.020	<.005	<.018	<.003	E.023	<.005

E Estimated value.
< Actual value is known to be less than the value shown.

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
OCT													
02...	<.005	<.002	<.004	<.035	<.027	<.050	E.006	<.006	<.002	<.007	<.003	<.010	<.015
FEB													
07...	<.005	<.002	<.004	<.035	<.027	<.050	E.006	<.006	<.002	<.007	<.003	<.010	E.002
APR													
04...	<.005	<.002	<.004	<.035	<.027	<.050	E.008	<.006	<.003	<.007	<.003	<.010	<.015
MAY													
03...	<.005	<.002	<.004	<.035	<.027	<.050	E.008	<.006	<.002	<.007	<.003	<.010	<.015
22...	<.005	<.002	<.004	<.035	<.027	<.050	.147	<.006	<.002	<.007	<.003	<.010	<.015
JUN													
06...	<.005	<.002	<.004	<.035	<.027	<.050	.030	<.006	<.002	<.007	<.003	<.010	<.015
27...	<.005	<.002	<.004	<.035	<.027	<.050	E.006	<.006	<.002	<.007	<.003	<.010	<.015
AUG													
08...	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	.022
SEP													
11...	<.005	<.030	<.004	<.035	<.027	<.050	E.007	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT					
02...	.017	<.016	<.034	<.005	E.001
FEB					
07...	.012	<.016	<.034	<.005	<.009
APR					
04...	E.008	<.016	<.034	<.005	<.009
MAY					
03...	E.007	<.016	<.034	<.005	<.009
22...	.054	<.016	<.034	<.005	<.009
JUN					
06...	.394	<.016	<.034	<.005	<.009
27...	.665	<.016	<.034	<.005	<.009
AUG					
08...	.026	<.016	<.030	<.005	<.009
SEP					
11...	E.010	<.016	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	14.0	11.0	12.5	9.5	6.5	8.0	5.5	3.5	4.5	.0	.0	.0
2	---	---	---	9.5	6.5	8.0	3.5	1.5	2.5	.0	.0	.0
3	16.5	12.5	14.5	9.5	6.5	8.0	1.5	.0	.5	.0	.0	.0
4	17.0	14.0	15.5	11.0	8.5	9.5	.5	.0	.0	.0	.0	.0
5	17.0	16.0	16.0	10.0	7.5	9.0	1.5	.0	.5	.0	.0	.0
6	17.0	15.5	16.0	8.5	6.0	7.5	.5	.0	.0	.0	.0	.0
7	15.5	12.5	14.5	8.0	5.5	6.5	1.0	.0	.5	.0	.0	.0
8	12.5	10.0	11.0	9.5	6.5	8.0	2.0	.0	1.0	.0	.0	.0
9	10.0	8.5	9.0	11.0	9.0	10.0	2.0	.0	.5	.0	.0	.0
10	9.5	7.5	8.5	12.5	11.0	11.5	1.5	.0	.5	.0	.0	.0
11	11.0	8.0	9.5	12.0	10.0	11.0	3.5	1.5	2.5	.5	.0	.0
12	12.0	8.5	10.0	11.0	9.0	10.0	4.0	1.5	3.5	.0	.0	.0
13	12.5	9.0	11.0	10.5	9.0	10.0	1.5	.0	1.0	.0	.0	.0
14	13.5	10.0	11.5	10.0	7.5	9.0	2.5	1.0	2.0	.0	.0	.0
15	14.0	11.0	12.5	7.5	6.5	7.0	2.5	2.0	2.0	.0	.0	.0
16	13.5	12.5	13.0	7.0	5.0	6.0	3.5	2.0	2.5	.5	.0	.0
17	13.5	13.0	13.0	8.0	5.5	6.5	10.0	3.5	8.0	1.0	.0	.5
18	14.0	13.0	13.0	6.5	4.5	5.0	7.5	2.5	4.0	.5	.0	.5
19	14.0	11.5	12.5	5.0	3.0	4.0	2.5	1.5	2.0	1.0	.5	1.0
20	13.0	10.0	11.5	4.0	1.5	3.0	2.0	.0	1.0	1.5	.5	1.0
21	13.5	10.0	12.0	3.0	1.5	2.0	.5	.0	.0	.5	.0	.0
22	13.5	10.5	12.0	2.0	.0	1.0	1.0	.0	.5	.0	.0	.0
23	12.0	9.0	10.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0
24	12.0	9.0	10.5	2.0	.0	.5	.0	.0	.0	.0	.0	.0
25	13.5	10.0	11.5	2.0	.0	.5	.0	.0	.0	.0	.0	.0
26	13.5	11.0	12.0	6.0	2.0	4.0	.0	.0	.0	.0	.0	.0
27	14.0	11.0	12.5	6.5	5.5	6.0	.0	.0	.0	.5	.0	.0
28	13.0	9.5	12.0	7.5	6.0	7.0	.0	.0	.0	1.0	.0	.5
29	10.0	8.0	9.0	6.5	5.0	5.5	.0	.0	.0	.5	.0	.0
30	9.0	7.0	8.0	6.5	5.5	5.5	.0	.0	.0	1.0	.0	.5
31	9.5	6.5	7.5	---	---	---	.0	.0	.0	2.0	.5	1.0
MONTH	17.0	6.5	11.7	12.5	.0	6.3	10.0	.0	1.3	2.0	.0	.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	1.5	2.5	4.0	2.0	3.0	---	---	---	19.5	13.5	16.0
2	4.0	2.5	3.0	5.5	3.0	4.0	---	---	---	21.0	15.5	18.0
3	2.5	.5	1.5	6.5	5.0	5.5	---	---	---	22.0	17.0	19.0
4	2.0	.0	1.0	5.5	2.5	4.0	---	---	---	22.5	18.0	20.0
5	2.0	.0	.5	2.5	1.0	1.5	12.0	7.5	9.5	21.0	17.5	19.5
6	2.5	.0	1.0	3.5	1.0	2.0	10.0	9.0	9.5	19.5	15.0	17.0
7	4.0	2.0	2.5	6.0	2.0	4.0	9.5	9.0	9.0	18.0	13.0	15.0
8	3.0	1.5	2.0	5.5	3.0	4.5	9.0	8.0	8.5	18.0	13.0	15.0
9	4.5	2.5	3.0	5.5	4.0	4.5	14.5	8.5	11.0	18.5	14.0	16.0
10	4.5	2.5	3.5	6.0	3.0	4.0	14.5	12.5	13.5	19.5	14.5	16.5
11	2.5	.5	1.5	5.5	3.0	4.0	13.5	11.0	12.0	20.5	15.5	18.0
12	2.0	.0	1.0	7.0	3.0	5.0	11.5	10.0	11.0	20.5	17.0	18.5
13	4.5	2.0	3.0	5.5	4.5	5.5	15.5	11.5	13.0	19.5	15.5	17.0
14	4.5	3.5	4.0	7.0	5.0	6.0	15.5	11.5	13.5	18.0	13.5	15.5
15	5.5	4.5	5.0	5.5	4.0	5.0	14.5	11.5	13.0	18.0	13.0	15.0
16	5.0	4.5	4.5	---	---	---	13.0	11.0	12.0	17.5	13.0	15.0
17	4.5	2.5	4.0	---	---	---	11.0	9.5	10.0	15.0	14.0	14.5
18	2.5	.5	1.5	---	---	---	10.5	7.5	9.0	14.0	13.5	14.0
19	3.0	.0	1.5	---	---	---	11.5	7.0	9.5	17.5	14.0	15.5
20	4.5	2.0	3.0	---	---	---	11.0	8.5	10.0	16.5	15.0	15.5
21	6.0	3.0	4.5	---	---	---	13.0	10.5	12.0	15.0	13.5	14.0
22	3.0	.0	1.0	---	---	---	17.5	12.5	15.0	15.0	13.5	14.0
23	2.0	.0	.5	---	---	---	20.5	15.5	18.0	17.0	14.5	15.5
24	3.0	.0	1.5	---	---	---	21.0	17.0	19.0	18.5	15.5	16.5
25	3.5	2.0	3.0	---	---	---	17.0	12.5	14.5	17.0	15.5	16.5
26	5.5	3.0	4.0	---	---	---	16.0	10.5	13.0	15.5	14.5	15.0
27	5.5	3.0	4.0	---	---	---	16.5	11.5	14.0	15.5	14.0	14.5
28	5.5	3.0	4.5	---	---	---	17.5	13.5	15.0	17.5	14.5	16.0
29	---	---	---	---	---	---	16.5	11.5	13.5	17.0	14.5	15.5
30	---	---	---	---	---	---	17.0	11.5	14.0	16.5	14.5	15.5
31	---	---	---	---	---	---	---	---	---	16.0	12.5	14.0
MONTH	6.0	.0	2.6	---	---	---	21.0	7.0	12.4	22.5	12.5	16.0

DELAWARE RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.0	12.0	13.0	26.0	22.5	24.0	23.0	18.5	21.0	24.0	20.0	22.0
2	14.5	12.0	13.0	23.5	19.0	21.0	24.5	19.0	21.5	21.5	17.5	19.5
3	15.5	14.0	14.5	21.5	17.0	19.5	24.5	20.5	22.0	21.5	17.0	19.0
4	17.0	13.0	14.5	22.5	19.0	20.5	23.0	21.5	22.0	22.0	18.5	20.0
5	18.5	14.5	16.0	22.0	19.5	21.0	25.5	21.0	23.0	22.0	18.5	20.0
6	17.0	15.5	16.0	22.5	18.5	20.5	26.5	22.0	24.0	21.0	16.5	18.5
7	19.0	15.0	16.5	22.5	17.0	20.0	27.5	23.0	25.0	21.5	16.5	19.0
8	19.0	14.5	16.5	20.5	19.5	20.0	28.0	23.0	25.5	22.0	17.5	19.5
9	19.0	14.0	16.5	25.0	19.5	21.5	28.5	22.5	25.5	22.5	18.5	20.5
10	19.0	14.5	16.5	25.0	20.0	22.5	27.5	24.5	25.5	22.5	20.0	21.0
11	20.5	16.0	18.0	24.5	20.5	22.0	24.5	21.5	23.0	22.5	18.5	20.5
12	21.5	17.0	19.5	23.0	19.0	21.0	22.5	21.0	21.5	21.5	17.0	19.0
13	22.5	18.5	20.5	21.5	18.0	20.0	22.5	21.0	22.0	21.5	16.5	19.0
14	22.0	19.5	20.5	22.0	17.5	19.5	24.5	21.0	22.5	19.5	15.5	17.5
15	21.0	19.5	20.0	23.0	17.5	20.0	24.5	20.5	22.5	17.5	13.5	15.5
16	20.0	19.5	19.5	23.0	19.0	21.0	24.5	20.5	22.5	17.5	13.0	15.5
17	22.0	18.5	20.0	24.5	20.0	22.0	24.0	21.5	22.5	18.0	13.0	15.5
18	23.5	18.5	20.5	22.5	20.5	21.5	23.5	20.0	22.0	17.0	14.0	15.5
19	24.0	18.5	21.0	23.5	20.0	21.5	22.0	20.0	21.0	18.0	14.0	16.5
20	24.5	19.5	22.0	24.5	19.0	21.5	24.0	20.5	22.0	17.5	16.5	17.0
21	23.5	20.0	21.5	24.0	18.0	21.0	23.0	20.0	21.5	19.5	17.0	18.0
22	23.5	20.5	21.5	24.5	19.0	21.5	24.0	19.5	21.5	21.0	17.5	19.0
23	23.0	20.5	21.5	25.5	20.0	22.5	21.5	20.0	21.0	20.5	17.5	19.0
24	21.5	19.0	20.5	27.0	22.0	24.0	23.5	19.5	21.5	20.5	18.0	19.0
25	24.0	18.0	20.5	27.0	23.5	25.0	23.5	20.0	22.0	20.0	17.0	18.5
26	24.5	19.0	21.5	25.0	21.5	23.5	23.5	19.0	21.0	17.0	14.0	15.5
27	26.0	20.0	23.0	23.5	19.0	21.0	24.0	20.5	22.0	15.5	13.0	14.5
28	26.5	21.5	23.5	22.0	18.0	20.0	24.5	20.5	22.5	14.5	12.5	13.5
29	25.5	22.0	24.0	20.5	18.5	19.5	24.5	20.5	22.0	14.5	13.0	13.5
30	26.0	22.5	24.0	22.0	18.5	20.0	23.0	20.0	21.5	13.5	12.0	12.5
31	---	---	---	23.0	18.0	20.5	24.5	21.0	22.5	---	---	---
MONTH	26.5	12.0	19.2	27.0	17.0	21.3	28.5	18.5	22.4	24.0	12.0	17.8

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA

LOCATION.--Lat 39°58'04", long 75°11'20", Philadelphia County, PA, Hydrologic Unit 02040203, upstream from Fairmount Dam, 1,500 ft upstream from bridge on Spring Garden Street in Philadelphia, and 8.7 mi upstream from mouth.

DRAINAGE AREA.--1,893 mi^2.

PERIOD OF RECORD.--October 1998, revised, to current year. Records for January 1898 to December 1912, published in WSP 35, 48, 65, 82, 97, 125, 166, 202, 214, 261, 301, and 381, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1302: 1936(M). WSP 1432: 1945. See also PERIOD OF RECORD.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: September 1998 to April 1999, July 1999 to September 1999.
WATER TEMPERATURE: September 1998 to September 2001.

INSTRUMENTATION.--Water-quality monitor (in situ system; measurements recorded every 15 minutes) located inside raw-water water intake of Belmont Pumping Station, Philadelphia, PA.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA). For the definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
OCT												
11...	1050	ENVIRONMENTAL	1400	766	103	10.8	7.9	430	16.0	13.4	150	37.8
NOV												
07...	1340	ENVIRONMENTAL	757	762	98	10.7	8.0	562	12.5	11.4	200	44.6
JAN												
17...	1050	ENVIRONMENTAL	1550	762	110	14.7	7.9	545	8.5	3.2	160	39.7
17...	*1051*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
FEB												
08...	1050	ENVIRONMENTAL	4290	774	111	14.9	7.7	541	4.0	3.5	120	31.5
MAR												
15...	0950	ENVIRONMENTAL	5610	761	107	13.2	7.6	342	11.5	6.1	96	25.3
APR												
05...	1140	ENVIRONMENTAL	4350	770	106	12.0	8.0	304	18.0	10.4	100	26.6
MAY												
02...	*1109*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	*.02*
02...	1110	ENVIRONMENTAL	2160	766	86	8.2	7.9	382	29.5	18.1	120	31.7
JUN												
06...	1230	ENVIRONMENTAL	1930	758	111	10.0	7.9	369	20.5	20.2	130	32.7
28...	1340	ENVIRONMENTAL	2160	762	143	11.5	8.3	351	35.0	26.4	120	30.7
AUG												
06...	1220	ENVIRONMENTAL	993	763	122	9.6	7.6	490	35.0	27.5	170	36.0
SEP												
19...	1120	ENVIRONMENTAL	500	759	86	7.6	7.8	605	27.5	21.2	190	43.4

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT													
11...	14.3	4.04	23.6	95	116	--	33.2	.2	8.3	61.7	.43	.60	.109
NOV													
07...	20.6	4.72	33.9	98	120	--	47.5	.2	3.8	90.4	.50	.57	.129
JAN													
17...	14.8	4.06	39.0	82	101	--	62.3	E.1	9.8	68.7	1.1	1.2	.718
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
08...	10.3	2.81	51.9	60	73	--	95.5	E.1	8.2	33.7	.67	.71	.304
MAR													
15...	8.09	2.50	22.7	53	65	--	43.7	E.1	6.8	28.3	.51	.71	.218
APR													
05...	8.55	2.46	16.8	55	67	--	29.4	E.1	7.0	29.9	.37	.57	.157
MAY													
02...	*<.008*	*<.09*	*<.1*	--	--	--	*<.1*	*<.2*	*<.1*	*<.1*	*<.10*	*<.08*	*<.041*
02...	11.1	2.61	19.5	74	90	--	33.9	E.2	4.1	41.6	.40	.64	.045
JUN													
06...	12.0	3.17	19.7	77	94	--	33.2	E.1	8.6	39.2	.39	.51	<.040
28...	11.7	3.33	18.5	69	81	2	28.6	E.1	8.2	39.2	.31	.68	<.040
AUG													
06...	18.3	4.25	30.3	76	93	--	47.6	.2	6.7	72.6	.43	.62	.062
SEP													
19...	19.4	5.30	42.6	97	118	--	60.4	.3	6.4	92.9	.48	.54	.109

E Estimated value.
< Actual value known to be less than the value shown.

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
OCT													
11...	3.5	3.4	2.93	.031	.49	--	.230	.216	.237	--	--	3.1	.3
NOV													
07...	3.8	3.7	3.23	.041	.44	--	.356	.305	.390	--	--	3.3	.3
JAN													
17...	5.0	4.9	3.77	.081	.50	.038	.263	.255	.324	.6	--	2.6	--
17...	--	--	--	--	--	*.031*	--	--	--	*.5*	--	*2.6*	--
FEB													
08...	3.8	3.8	3.09	.052	.40	E.028	.123	.115	.156	E.6	--	2.7	--
MAR													
15...	3.1	2.9	2.43	.032	.49	.175	.073	.063	.129	1.0	.1	3.1	.9
APR													
05...	3.4	3.2	2.79	.036	.42	.114	.078	.065	.106	.7	<.1	1.9	.7
MAY													
02...	--	--	*<.047*	*<.006*	--	--	*<.006*	*<.018*	*<.004*	--	--	--	--
02...	3.3	3.1	2.69	.065	.60	.171	.133	.101	.170	1.1	<.1	2.4	1.1
JUN													
06...	3.1	3.0	2.57	.058	--	.236	.176	.114	.202	1.2	<.1	3.2	1.2
28...	3.2	2.8	2.52	.053	--	.177	.126	.074	.191	2.2	<.1	3.2	2.2
AUG													
06...	3.7	3.6	3.12	.036	.56	.230	.332	.315	.390	1.1	<.1	2.7	1.1
SEP													
19...	4.6	4.5	4.03	.038	.43	<.022	.474	.453	.491	.3	<.1	3.4	.3

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT								
11...	257	254	<2.0	75	30	50.4	18	5
NOV								
07...	335	320	2.0	99	50	48.0	4.7	2
JAN								
17...	319	307	5.5	75	40	132	12	3
17...	--	--	--	--	--	--	--	--
FEB								
08...	295	284	10	29	30	71.8	92	8
MAR								
15...	195	181	25	33	40	72.4	206	14
APR								
05...	175	167	7.0	39	30	69.5	51	4
MAY								
02...	*<10*	--	--	*<13*	*<10*	*<3.2*	--	*<1*
02...	228	201	6.0	49	40	29.5	33	6
JUN								
06...	218	207	11	43	30	36.9	30	6
28...	200	193	10	53	10	<3.0	48	8
AUG								
06...	287	277	7.0	81	M	40.7	16	6
SEP								
19...	363	348	4.5	111	20	37.3	--	<1

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3-TRICHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISOPROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)
OCT													
11...	1050	<.03	<.04	<.04	<7	<.3	<.2	E.04	E.03	<.03	<.05	<.03	<.03

DATE	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON DISULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)
OCT													
11...	E.03	<.06	<.07	<.03	<.2	.14	<.04	E.05	<.3	<.2	<.1	E.01	<.06

DATE	FURAN, TETRAHYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYLCHLORIDE TOTAL (UG/L) (34418)	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-CHLOROTOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISOPROPYLTOLUENE WATER WHOLE REC (UG/L) (77356)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)
OCT												
11...	<2	.5	<.2	<.2	E.10	<.03	E.05	<.07	M	E.10	E.02	<.09

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
OCT													
11...	1050	<.004	<.002	<.005	.094	<.010	E.010	<.020	<.005	<.018	<.003	E.071	.013
FEB													
08...	1050	<.004	<.002	<.005	E.004	<.010	E.040	<.020	<.005	<.018	<.003	E.002	<.005
APR													
05...	1140	<.004	<.002	<.005	.025	<.010	<.041	<.020	<.005	<.018	<.003	E.028	<.005
MAY													
02...	1110	<.004	<.002	<.005	.032	<.010	<.041	<.050	<.005	<.018	<.003	E.040	<.005
JUN													
06...	1230	.018	.004	<.005	.440	<.010	<.041	<.020	<.005	E.004	<.003	E.088	.009
28...	1340	.012	.006	<.005	.330	<.010	<.041	<.020	E.001	<.018	<.003	E.027	.008
AUG													
06...	1220	<.004	<.002	<.005	.122	<.010	E.003	<.020	<.005	<.018	<.003	E.046	.012
SEP													
19...	1120	<.004	<.002	<.005	.062	<.010	<.041	<.020	<.005	<.018	<.003	E.029	.007

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
OCT													
11...	<.005	<.002	<.004	<.035	<.027	<.050	.017	<.006	<.002	<.007	<.003	<.010	<.019
FEB													
08...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
APR													
05...	<.005	<.002	<.004	<.035	<.027	<.050	.016	<.006	<.002	<.007	<.003	<.010	<.015
MAY													
02...	<.005	<.008	<.004	<.035	<.027	<.050	.015	<.006	<.002	<.007	<.003	<.010	E.014
JUN													
06...	<.005	<.002	<.004	<.035	<.027	<.050	.166	<.006	<.002	<.007	<.003	<.010	.019
28...	<.005	<.002	<.004	<.035	<.027	<.050	.163	<.006	<.002	<.007	<.003	<.010	<.020
AUG													
06...	<.005	<.002	<.004	<.035	<.027	<.050	.036	<.006	<.002	<.007	<.003	<.010	.052
SEP													
19...	<.005	<.002	<.004	<.035	<.027	<.050	.017	<.006	<.002	<.007	<.003	<.010	.054

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT						
11...	.028	E.010	<.034	--	<.005	<.009
FEB						
08...	E.010	E.005	<.034	--	<.005	<.009
APR						
05...	<.011	<.016	<.034	--	<.005	<.009
MAY						
02...	.025	<.016	<.034	--	<.005	<.009
JUN						
06...	.056	E.013	<.034	--	<.005	<.009
28...	.055	E.008	<.034	E.003	<.005	<.009
AUG						
06...	.066	E.013	<.034	E.031	<.005	<.009
SEP						
19...	.020	<.016	<.034	--	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.5	16.5	17.0	13.0	12.0	12.0	7.5	7.0	7.5	.5	.5	.5
2	18.5	16.5	17.5	12.5	11.5	12.0	7.0	6.0	6.5	.5	.5	.5
3	19.0	17.0	18.0	13.0	11.0	12.0	6.0	5.5	5.5	.5	.5	.5
4	19.5	18.0	18.5	12.5	11.5	12.0	5.5	4.5	5.0	.5	.5	.5
5	20.0	19.0	19.5	12.0	11.5	12.0	5.0	4.0	4.5	.5	.5	.5
6	20.0	19.0	19.5	12.0	11.0	11.5	4.5	3.5	4.0	1.0	.5	1.0
7	19.5	18.0	19.0	12.0	11.0	11.5	3.5	3.0	3.5	1.5	1.0	1.5
8	18.0	17.0	17.5	12.0	11.0	11.5	3.0	3.0	3.0	1.5	1.0	1.5
9	17.0	15.5	16.0	12.0	11.5	12.0	3.0	2.5	3.0	2.0	1.0	1.5
10	15.5	13.5	14.5	12.5	12.0	12.5	3.0	2.5	3.0	1.5	1.0	1.0
11	---	---	---	13.0	12.5	13.0	4.5	3.0	3.5	1.5	1.0	1.0
12	16.5	13.0	13.5	12.5	12.0	12.5	5.5	4.5	5.0	2.0	1.5	2.0
13	14.5	13.5	14.0	13.0	12.5	12.5	4.5	4.0	4.5	3.0	2.0	2.5
14	15.5	13.5	14.5	12.5	12.0	12.5	5.0	4.0	4.5	3.5	2.5	3.0
15	16.5	14.5	15.5	12.0	10.5	11.0	5.5	4.0	4.5	4.0	3.5	3.5
16	16.0	15.5	16.0	10.5	10.0	10.0	4.5	4.0	4.0	4.0	3.0	3.5
17	16.0	15.5	16.0	10.5	10.0	10.0	10.0	4.5	7.5	4.0	3.0	3.5
18	16.0	15.5	16.0	10.0	9.0	9.5	9.5	5.5	7.5	3.5	3.0	3.0
19	16.0	15.5	15.5	9.5	8.5	9.0	5.5	4.0	4.5	3.5	3.0	3.5
20	15.5	14.5	15.0	8.5	8.0	8.0	4.0	3.0	3.5	3.5	1.5	2.5
21	16.0	15.0	15.5	8.0	7.0	7.5	3.0	3.0	3.0	2.0	1.5	2.0
22	16.5	15.5	16.0	7.0	5.5	6.0	3.0	2.0	3.0	2.0	1.0	1.5
23	16.0	14.5	15.5	5.5	4.5	5.0	2.0	1.0	1.5	2.0	1.0	1.5
24	15.5	15.0	15.0	5.0	4.5	4.5	1.5	1.0	1.0	2.0	1.0	1.5
25	16.5	14.5	15.5	4.5	3.5	4.0	1.0	.5	.5	3.0	1.5	2.0
26	16.5	15.0	15.5	6.0	4.0	5.0	.5	.0	.5	2.5	1.5	2.0
27	16.5	15.0	15.5	6.0	5.5	6.0	.5	.0	.5	3.0	2.0	2.5
28	16.0	15.0	15.5	7.0	6.0	6.5	.5	.5	.5	3.5	2.5	3.0
29	15.0	13.5	14.0	7.5	6.0	7.0	.5	.0	.5	3.5	2.5	3.0
30	13.5	12.5	13.0	7.5	7.0	7.5	.5	.5	.5	3.5	2.5	3.0
31	13.0	12.0	12.5	---	---	---	.5	.5	.5	4.0	2.5	3.5
MONTH	20.0	12.0	15.9	13.0	3.5	9.5	10.0	.0	3.4	4.0	.5	2.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	2.5	3.0	6.5	5.5	6.0	6.5	6.0	6.5	---	---	---
2	4.5	3.5	4.0	7.0	6.0	6.5	7.0	6.5	7.0	---	---	---
3	4.0	3.5	4.0	7.0	6.0	6.5	8.5	7.0	7.5	---	---	---
4	3.5	3.0	3.5	7.0	6.0	6.5	10.0	8.0	9.0	---	---	---
5	3.5	2.0	3.0	6.0	4.5	5.5	---	---	---	---	---	---
6	3.0	2.0	2.5	4.5	3.5	4.0	---	---	---	---	---	---
7	3.5	2.0	2.5	5.5	3.5	4.5	---	---	---	---	---	---
8	4.0	3.0	4.0	6.0	4.5	5.5	---	---	---	---	---	---
9	5.0	4.0	4.5	7.0	6.0	6.5	---	---	---	---	---	---
10	6.0	5.0	5.5	6.5	5.5	6.0	---	---	---	---	---	---
11	5.0	3.5	4.0	6.5	5.5	6.0	---	---	---	---	---	---
12	4.0	3.0	3.5	7.5	5.5	6.5	---	---	---	---	---	---
13	4.5	3.5	4.0	7.5	6.0	6.5	---	---	---	---	---	---
14	5.0	4.0	4.5	7.0	5.5	6.5	---	---	---	---	---	---
15	5.5	5.0	5.5	6.5	6.0	6.0	---	---	---	---	---	---
16	5.5	5.5	5.5	6.5	6.0	6.5	---	---	---	---	---	---
17	6.0	5.0	5.5	7.0	6.5	6.5	---	---	---	---	---	---
18	5.0	4.0	4.5	7.5	6.5	7.0	---	---	---	---	---	---
19	4.5	3.5	4.0	7.5	6.0	7.0	---	---	---	---	---	---
20	4.0	3.5	4.0	8.0	6.5	7.5	---	---	---	---	---	---
21	5.5	4.0	4.5	7.5	7.5	7.5	---	---	---	---	---	---
22	4.0	3.0	3.5	7.5	6.5	7.0	---	---	---	---	---	---
23	4.0	3.0	3.5	7.5	6.0	6.5	---	---	---	---	---	---
24	4.5	3.0	3.5	7.5	7.0	7.0	---	---	---	---	---	---
25	5.0	3.5	4.0	7.5	6.5	7.0	---	---	---	---	---	---
26	6.0	5.0	5.0	7.5	6.5	6.5	---	---	---	---	---	---
27	6.0	4.5	5.5	7.5	6.0	6.5	---	---	---	---	---	---
28	6.5	5.5	6.0	7.5	6.0	6.5	---	---	---	---	---	---
29	---	---	---	7.0	6.5	6.5	---	---	---	---	---	---
30	---	---	---	6.5	5.5	6.0	---	---	---	---	---	---
31	---	---	---	6.0	5.5	6.0	---	---	---	---	---	---
MONTH	6.5	2.0	4.2	8.0	3.5	6.3	10.0	6.0	7.5	---	---	---

DELAWARE RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	28.0	27.5	28.0	25.0	23.0	24.0	26.5	25.5	26.0
2	---	---	---	28.0	25.5	26.5	25.5	23.0	24.0	25.5	24.0	25.0
3	---	---	---	25.5	23.5	24.0	25.5	23.5	24.5	25.5	23.5	24.5
4	---	---	---	24.5	23.5	24.0	25.5	24.5	25.0	25.0	24.5	24.5
5	---	---	---	24.0	23.5	24.0	27.0	24.5	25.5	25.0	24.0	24.5
6	---	---	---	24.0	23.0	23.5	28.0	25.0	26.5	25.0	23.5	24.0
7	22.0	20.5	21.5	24.5	23.0	23.5	29.0	27.0	28.0	25.0	23.5	24.0
8	23.0	21.0	22.0	24.5	23.0	23.5	29.5	27.5	28.5	24.5	23.5	24.0
9	23.0	22.0	22.5	25.5	24.0	24.5	30.0	28.0	29.0	25.0	24.0	24.5
10	23.5	22.5	23.0	25.5	24.5	25.0	29.5	28.5	29.0	25.0	24.0	24.5
11	24.0	22.5	23.5	25.5	25.0	25.5	29.0	28.0	28.5	25.0	24.0	24.5
12	25.5	23.0	24.0	25.5	25.0	25.5	28.0	27.0	27.5	24.5	23.5	24.0
13	26.5	24.0	25.0	25.5	24.5	25.0	27.0	23.5	24.5	24.5	23.5	24.0
14	26.5	25.0	25.5	25.5	24.0	24.5	25.5	23.5	24.5	24.0	22.0	22.5
15	27.0	25.5	26.5	25.5	23.5	24.5	27.0	24.5	25.0	22.0	21.0	21.0
16	26.5	24.5	26.0	26.0	24.0	25.0	26.0	24.5	25.5	22.5	20.5	21.0
17	25.5	23.0	23.5	26.5	24.0	25.0	26.0	25.0	25.5	22.5	20.5	21.0
18	24.5	22.5	23.5	25.5	24.0	25.0	27.0	25.0	26.0	21.5	20.5	21.0
19	25.5	23.5	24.5	25.5	24.0	24.5	26.5	25.5	26.0	21.5	20.5	21.0
20	27.0	24.5	25.5	26.0	24.0	25.0	27.0	25.5	26.0	21.0	20.5	20.5
21	26.5	25.5	26.0	26.5	24.0	25.5	27.0	25.5	26.0	21.0	20.0	20.5
22	26.5	25.5	26.0	26.5	24.5	25.5	27.0	25.5	26.0	22.5	21.0	21.5
23	26.5	22.0	25.0	27.0	25.0	26.0	26.0	25.5	25.5	22.5	21.5	22.0
24	23.0	21.5	22.5	27.5	25.5	26.5	26.0	25.0	25.5	22.5	22.0	22.0
25	24.0	22.5	23.0	28.5	26.5	27.5	26.5	25.0	25.5	22.5	21.5	22.0
26	24.5	23.0	23.5	28.0	26.5	27.5	26.0	25.0	25.5	21.5	19.5	21.0
27	26.0	24.0	25.0	27.0	25.0	26.5	26.0	25.0	25.5	19.5	18.0	18.5
28	27.0	25.5	26.0	25.0	23.5	24.0	27.0	25.5	26.0	18.0	17.0	17.5
29	28.0	26.0	27.0	23.5	22.5	23.0	27.5	25.5	26.5	17.0	16.5	16.5
30	28.5	27.0	27.5	23.5	22.5	22.5	26.0	25.5	26.0	16.5	15.0	15.5
31	---	---	---	24.5	22.0	23.0	26.5	25.5	26.0	---	---	---
MONTH	28.5	20.5	24.5	28.5	22.0	25.0	30.0	23.0	26.0	26.5	15.0	22.1
YEAR	30.0	.0	13.6									

01475090 EDWARDS RUN AT JEFFERSON, NJ

LOCATION.--Lat 39°44'48", long 75°11'43", Gloucester County, Hydrologic Unit 02040206, at bridge on Pitman-Jefferson Road, 1.0 mi southeast of Jefferson, 1.6 mi northeast of Mullica Hill, and 1.3 mi upstream of confluence with Myers Creek.

DRAINAGE AREA.--2.92 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
28...	1000	--	.191	.151	760	68	8.1	6.9	193	--	7.5	61	16.4
FEB													
22...	1000	--	.112	.087	770	88	12.7	7.4	201	-2.0	1.0	64	17.2
MAY													
23...	1000	22	.275	.216	754	87	8.7	7.1	187	17.0	15.0	57	15.3
AUG													
23...	1100	4.4	.148	.116	760	84	7.5	7.5	192	23.0	20.5	66	17.8

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
28...	4.88	8.01	6.8	22	17.3	.2	11.3	28.6	126	112	.170	.63	.21
FEB													
22...	5.19	5.90	6.4	15	16.2	.2	9.5	34.1	129	116	.150	.34	.14
MAY													
23...	4.67	8.15	7.7	24	15.2	.2	8.2	28.5	130	108	.420	1.1	.46
AUG													
23...	5.32	6.65	7.9	36	21.4	.2	10.0	22.2	137	121	<.030	.31	.05

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV													
28...	.80	1.20	.007	1.8	2.0	.124	.060	.152	1.0	<.1	5.6	1.0	2.0
FEB													
22...	.54	2.89	.006	3.2	3.4	.139	.025	.104	1.2	<.1	3.0	1.2	E1.5
MAY													
23...	1.4	1.15	.017	2.3	2.5	.266	.182	.382	2.0	<.1	7.4	2.0	3.1
AUG													
23...	.37	1.88	.011	2.2	2.3	.050	.056	.119	.3	<.1	3.2	.3	<1.0

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV			
28...	--	30	<1
FEB			
22...	--	16	9
MAY			
23...	15.8	35	17
AUG			
23...	15.5	40	2

E Estimated value.
< Actual value is known to be less than the value shown.

01475090 EDWARDS RUN AT JEFFERSON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
AUG													
23...	1100	--	--	--	--	--	--	E1	50.0	<.06	34	.12	<1
23...	1100	6.60	120	.3	450	4.1	<.2	--	--	--	--	--	--

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)
AUG													
23...	.9	710	<1	16	<.01	2	<.4	<.05	6	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	<1	1.8	11	.8

DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MATERIAL AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)
AUG													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	5	5200	4.7	9.5	.01	.4	<1	10	<50	<50	<50	<50	<50

DATE	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)
AUG													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)
AUG													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	<50	<50	<50	<50	<50	<5	<50	<50	<50	<50	<50	<50	<1

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG	
23...	--
23...	2

E Estimated value.
< Actual value is known to be less than the value shown.

01475090 EDWARDS RUN AT JEFFERSON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB 22...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 22...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	E.1

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 22...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
MAY 23...	1000	<.004	<.002	.005	.086	<.010	E.026	<.020	E.002	<.018	<.003	E.013	.117

DATE	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)
MAY 23...	<.005	<.002	<.004	<.035	<.027	E.551	.200	<.006	.029	<.007	<.003	.108	E.004

DATE	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 23...	<.011	<.016	E.056	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

01475090 EDWARDS RUN AT JEFFERSON, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
10...	0940	940	300	230
17...	0940	1100	1300	900
24...	0940	16000	1300	210
31...	0950	940	600	870
AUG				
07...	0930	24000	1200	320

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ

LOCATION.--Lat 39°44'26", long 75°15'34", Gloucester County, Hydrologic Unit 02040202, on right bank 25 ft downstream from County Bridge Route 607 on Gibbstown-Harrisonville Road (Tomlin Station Road), 1.8 mi west of Mullica Hill, and 2.8 mi east of Swedesboro.

DRAINAGE AREA.--26.9 mi^2.

PERIOD OF RECORD.--Water years 1965 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: June 1966 to September 1969.
WATER TEMPERATURE: May 1966 to September 1973, daily maximum-minimum; October 1998 to October 2001, recorded hourly.

INSTRUMENTATION.--
WATER TEMPERATURE: Water temperature data logger (in-situ system; measurements recorded every 15 or 30 minutes) located at gage.

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction". Fish community data for this and other sites are presented in "Water-Quality at Miscellaneous Surface-Water Sites."

COOPERATION.--Field data and samples for laboratory analyses on 11/16, 02/07, 05/17, and 08/23 were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria on those dates was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory. Other field data and samples for laboratory analyses were provided by the Delaware River Basin National Water-Quality Assessment Program (NAWQA).

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 18.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 27.5°C, July 6, 1999; minimum, 0.0°C, on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 26.5°C, Aug. 9, 10; minimum, 0.0°C, on several days during December and January.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)
OCT												
02...	1110	ENVIRONMENTAL	17	3.2	--	--	765	101	10.1	6.9	226	20.5
NOV												
06...	0920	ENVIRONMENTAL	16	8.0	--	--	764	87	10.2	7.4	248	8.0
16...	1000	ENVIRONMENTAL	19	--	.126	.102	766	87	10.8	7.3	227	--
DEC												
19...	1100	ENVIRONMENTAL	48	58	--	--	764	99	13.2	7.0	192	2.0
19...	*1101*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
FEB												
01...	0950	ENVIRONMENTAL	35	21	--	--	764	--	--	7.0	205	9.0
07...	0930	ENVIRONMENTAL	82	--	.220	.174	771	84	11.5	7.2	199	9.5
MAR												
08...	1040	ENVIRONMENTAL	32	8.8	--	--	763	109	14.0	7.2	230	8.5
21...	1720	ENVIRONMENTAL	118	180	--	--	753	92	11.0	7.1	158	9.5
30...	1100	ENVIRONMENTAL	661	210	--	--	744	90	10.7	6.8	95	10.0
MAY												
01...	1010	ENVIRONMENTAL	27	--	--	--	769	98	9.9	7.2	220	23.5
01...	*1011*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--	--	--
17...	1000	ENVIRONMENTAL	18	6.8	.121	.096	765	77	7.9	7.0	232	14.1
JUN												
05...	0920	ENVIRONMENTAL	32	12	--	--	762	95	9.1	7.0	193	21.0
JUL												
05...	1040	ENVIRONMENTAL	34	16	--	--	757	84	7.4	7.2	194	27.5
AUG												
09...	0930	ENVIRONMENTAL	9.3	6.0	--	--	764	86	7.3	7.2	263	30.5
23...	1000	ENVIRONMENTAL	12	4.7	.125	.100	766	83	7.4	7.2	239	--

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT													
02...	15.5	69	21.2	3.99	4.00	11.5	--	38	46	19.9	.2	10.1	25.3
NOV													
06...	8.4	76	23.8	4.16	4.50	13.9	--	49	60	23.4	.2	11.2	24.1
16...	6.5	71	22.5	3.71	4.23	10.3	43	--	--	18.6	.2	12.1	24.1
DEC													
19...	3.2	55	16.1	3.51	4.11	9.0	--	22	27	19.4	E.1	8.4	26.5
19...	--	*54*	*15.8*	*3.45*	*4.09*	*9.0*	--	--	--	*16.8*	*E.1*	*8.3*	*26.2*
FEB													
01...	3.5	56	16.7	3.46	3.64	11.0	--	25	31	19.5	.2	8.5	27.4
07...	3.0	48	14.3	3.05	3.89	13.9	18	--	--	24.3	E.1	7.2	23.3
MAR													
08...	4.8	64	19.3	3.91	3.74	13.4	--	24	30	25.4	.2	8.4	28.8
21...	7.3	42	12.5	2.48	2.80	10.3	--	--	--	16.6	.2	5.6	18.7
30...	7.1	25	7.50	1.62	2.91	4.9	--	11	13	8.1	E.2	3.4	12.6
MAY													
01...	15.2	65	19.5	4.03	3.31	11.8	--	34	41	21.7	.2	6.2	26.5
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	14.5	73	23.0	3.86	3.47	12.6	39	--	--	22.2	.2	9.3	25.2
JUN													
05...	17.2	60	17.5	3.94	3.96	10.2	--	28	34	18.1	.2	9.5	22.5
JUL													
05...	21.3	62	18.6	3.69	4.07	9.7	--	36	43	19.0	.2	8.0	21.0
AUG													
09...	24.1	74	22.6	4.23	4.64	17.7	--	49	60	28.2	.2	10.7	22.9
23...	21.0	69	20.8	4.05	3.84	16.1	45	--	--	25.4	.2	9.8	22.4

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
OCT													
02...	140	126	.127	.31	--	.40	1.44	.022	1.7	1.8	--	.069	.059
NOV													
06...	138	136	.079	.21	--	.38	.140	E.004	.35	.52	--	E.004	<.018
16...	135	126	.040	.35	.04	.37	.953	.009	1.3	1.3	.080	.030	--
DEC													
19...	117	107	.282	.61	--	.80	1.31	.009	1.9	2.1	--	.037	.024
19...	*116*	--	*.286*	--	--	*.80*	*1.31*	*.009*		*2.1*	--	*.036*	*.024*
FEB													
01...	123	113	.272	.47	--	.62	1.45	.011	1.9	2.1	.098	.016	E.013
07...	117	107	.160	.49	.17	.76	1.28	.006	1.8	2.0	.163	.053	--
MAR													
08...	142	126	.279	.48	--	.50	1.72	.013	2.2	2.2	.052	.017	E.012
21...	95		.147	.55	--	1.4	.234	.010	.79	1.6	1.1	.026	.019
30...	74	51	.197	.67	--	1.7	.658	.010	1.3	2.3	1.1	.039	.025
MAY													
01...	139	120	.185	.53	--	.67	1.27	.038	1.8	1.9	.140	.057	.037
01...	--	--	--	--	--	--	--	--	--	--	*.213*	--	--
17...	130	130	.360	.69	.35	.77	1.29	.108	2.0	2.1	.076	.050	--
JUN													
05...	120	109	.083	.36	--	.45	1.30	.056	1.7	1.8	.125	.045	.035
JUL													
05...	130	110	E.033	.34	--	.55	.992	.025	1.3	1.5	.089	.041	<.020
AUG													
09...	173	148	.050	.31	--	.41	1.35	.043	1.7	1.8	.066	.214	.214
23...	148	137	.030	.32	.04	.29	1.65	.019	2.0	1.9	.062	.091	--

E Estimated value.
< Actual value is known to be less than the value shown.

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT													
02...	.152	--	--	3.1	.3	--	--	57	280	40.3	--	.26	6
NOV													
06...	.260	--	--	2.4	1.0	--	--	67	250	69.0	--	.49	11
16...	.096	.8	<.1	3.0	.8	E1.9	--	35	--	--	5	--	--
DEC													
19...	.161	--	--	4.7	1.1	--	--	41	460	72.7	--	2.6	20
19...	*.166*	*--*	*--*	*--*	*--*	*--*	*--*	*44*	*450*	*72.3*	*--*	*--*	*24*
FEB													
01...	.095	.9	--	3.6	--	--	--	33	340	59.9	--	1.5	16
07...	.137	1.4	<.1	5.5	1.3	2.1	--	30	--	--	16	--	--
MAR													
08...	.074	.5	<.1	2.9	.5	--	--	38	340	49.2	--	.48	6
21...	.682	9.1	.1	4.7	9.0	--	--	25	220	37.9	--	46	146
30...	.746	10	<.1	6.2	10	--	--	26	290	53.0	--	310	174
MAY													
01...	.164	1.2	<.1	3.4	1.2	--	--	50	350	37.8	--	.50	7
01...	*--*	*1.6*	*<.1*	*3.3*	*1.6*	*--*	*--*	*--*	*--*	*--*	*--*	*--*	*--*
17...	.108	.6	<.1	2.2	.6	3.1	1.50	56	--	--	<1	--	--
JUN													
05...	.135	1.0	<.1	4.8	1.0	--	--	41	470	37.2	--	.74	9
JUL													
05...	.174	E1.3	<.1	4.6	E1.3	--	--	46	410	36.1	--	1.7	18
AUG													
09...	.318	.4	<.1	2.7	.4	--	--	88	120	26.0	--	.11	4
23...	.148	.6	<.1	2.9	.6	<1.0	1.40	77	--	--	5	--	--

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)
OCT													
02...	1110	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03

DATE	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)
OCT													
02...	<.04	<.06	<.07	<.03	<.2	E.02	<.04	<.05	<.3	<.2	<.1	<.03	<.06

DATE	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
OCT												
02...	<2	.2	<.2	<.2	<.06	<.03	<.04	<.07	<.1	<.05	<.04	<.09

E Estimated value.
< Actual value is known to be less than the value shown.

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	SAMPLE TYPE	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
OCT												
02...	1110	ENVIRONMENTAL	<.004	<.002	<.005	E.007	<.010	<.041	<.020	<.005	<.018	<.003
FEB												
01...	0950	ENVIRONMENTAL	<.004	<.002	<.005	E.005	<.010	<.041	<.020	<.005	<.018	<.003
MAR												
21...	1720	ENVIRONMENTAL	<.004	<.002	<.005	E.003	E.071	<.041	<.020	<.005	<.018	<.003
30...	1100	ENVIRONMENTAL	<.004	<.002	<.005	.104	E.005	<.041	<.020	<.005	<.018	<.003
MAY												
01...	1010	ENVIRONMENTAL	<.004	<.002	<.005	E.007	<.010	E.573	<.020	<.005	<.018	<.003
01...	*1011*	*SPLIT REPLICATE*	*<.004*	*<.002*	*<.005*	*E.006*	*<.010*	*E.520*	*<.040*	*<.005*	*<.018*	*<.003*
JUN												
05...	0920	ENVIRONMENTAL	<.004	<.002	<.005	.078	<.010	E.005	E.008	E.004	<.018	<.003
JUL												
05...	1040	ENVIRONMENTAL	<.004	<.002	<.005	.154	<.010	E.035	<.020	<.005	<.018	<.003
AUG												
09...	0930	ENVIRONMENTAL	<.004	<.002	<.005	.009	<.010	E.043	<.020	<.005	<.018	<.003

DATE	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
OCT													
02...	E.005	E.003	<.005	<.002	<.004	<.035	<.027	<.050	.016	<.006	<.002	<.007	<.003
FEB													
01...	E.006	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.022	<.006	<.002	<.007	<.003
MAR													
21...	<.006	E.003	<.005	<.002	<.004	<.035	<.027	<.050	.026	<.006	<.020	<.007	<.003
30...	E.004	.010	<.005	<.002	<.004	<.035	<.027	<.050	.258	<.006	<.002	<.007	<.005
MAY													
01...	E.006	.005	<.005	<.002	<.004	<.035	<.027	<.050	.025	<.006	<.002	<.007	<.003
01...	*E.004*	*E.004*	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*	*.021*	*<.006*	*<.002*	*<.007*	*<.003*
JUN													
05...	E.017	.011	<.005	<.002	<.004	<.035	<.027	E.013	.100	<.006	<.002	E.005	<.003
JUL													
05...	E.007	.294	<.005	<.002	<.004	<.035	<.027	E.007	.211	.013	<.002	E.006	<.003
AUG													
09...	E.004	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.019	<.006	<.002	<.007	<.003

E Estimated value.
< Actual value is known to be less than the value shown.

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT							
02...	<.010	E.004	E.004	<.016	E.068	<.005	<.009
FEB							
01...	<.010	<.015	<.011	<.016	<.034	<.005	<.009
MAR							
21...	.027	E.004	<.011	<.016	E.039	<.005	<.009
30...	.015	<.015	<.011	<.016	<.034	<.005	E.005
MAY							
01...	<.010	E.004	E.007	<.016	E.087	<.005	<.009
01...	*<.010*	*E.004*	*E.006*	*<.016*	*E.065*	*<.005*	*<.009*
JUN							
05...	<.010	E.011	E.005	<.016	E.061	<.005	<.009
JUL							
05...	.033	<.015	E.005	<.016	E.047	<.005	<.009
AUG							
09...	<.010	E.003	E.002	<.016	E.056	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL				
10...	1000	20	200	190
17...	1000	130	100	320
24...	1000	170	100	470
31...	1005	110	100	330
AUG				
07...	0945	80	<100	390

E Estimated value.
< Actual value is known to be less than the value shown.

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.5	13.0	14.5	10.5	8.5	9.5	6.5	5.5	6.0	1.5	.0	.5
2	16.5	15.0	15.5	10.5	8.5	9.5	5.5	3.5	4.5	1.5	.0	1.0
3	18.0	15.5	17.0	10.5	8.5	10.0	3.5	2.0	3.0	.5	.0	.0
4	18.5	16.5	17.5	12.0	10.5	11.0	3.5	1.5	2.5	1.5	.0	.5
5	18.5	17.5	18.0	11.5	10.0	10.5	4.0	2.0	3.0	1.0	.0	.5
6	18.5	17.5	18.0	10.0	8.5	9.0	3.5	2.0	2.5	2.0	.5	1.0
7	18.0	15.0	16.5	10.0	7.5	8.5	3.5	2.5	3.0	2.5	.5	1.5
8	15.0	12.5	13.5	10.5	8.5	9.5	4.0	2.5	3.0	2.5	1.5	2.0
9	12.5	10.5	11.0	12.5	10.5	11.0	3.5	2.0	3.0	2.5	1.0	2.0
10	10.5	10.0	10.5	13.5	12.5	13.0	4.0	2.5	3.5	2.5	1.0	1.5
11	12.0	10.5	11.0	12.5	11.5	12.0	5.0	4.0	4.5	3.5	1.0	2.0
12	12.5	10.5	12.0	11.5	10.5	11.0	6.0	4.0	5.0	3.0	1.5	2.0
13	13.0	11.0	12.5	12.0	11.0	11.5	4.0	2.5	3.0	3.0	1.0	2.0
14	14.0	12.5	13.5	11.5	9.5	11.0	4.0	3.5	3.5	3.5	1.0	2.5
15	15.0	13.0	14.0	9.5	8.5	9.0	4.0	3.0	3.5	3.5	3.0	3.5
16	15.5	14.5	15.0	8.5	7.5	8.0	6.0	4.0	4.5	4.5	3.0	3.5
17	15.5	15.0	15.5	9.0	8.0	8.5	10.5	6.0	8.5	4.0	2.5	3.0
18	16.0	15.0	15.5	8.0	7.0	7.5	8.0	4.0	5.5	3.5	2.5	3.0
19	15.0	13.5	14.5	7.0	6.0	6.5	4.0	3.0	3.5	3.5	2.5	3.0
20	14.0	12.0	13.5	6.5	4.5	5.5	4.0	2.0	3.0	3.0	2.5	2.5
21	15.0	12.5	13.5	5.5	4.0	5.0	2.5	1.0	2.0	2.5	1.0	1.5
22	14.5	12.5	13.5	4.0	3.5	3.5	3.0	.5	2.0	1.5	.5	1.0
23	13.0	11.0	12.0	4.0	3.0	3.0	1.0	.0	.5	1.5	.5	1.0
24	13.0	11.0	12.0	4.0	3.0	3.5	1.5	.5	1.0	2.5	.5	1.5
25	14.0	11.5	13.0	5.0	2.5	3.5	.5	.0	.5	3.0	1.5	2.0
26	14.5	13.0	13.5	8.0	5.0	6.5	.5	.0	.5	2.5	1.0	2.0
27	15.0	13.0	14.0	8.5	7.5	8.0	1.5	.5	1.0	3.0	2.0	2.5
28	14.5	11.5	13.5	8.5	7.5	8.0	1.0	.5	1.0	3.0	2.5	3.0
29	11.5	10.0	10.5	8.0	6.5	7.5	1.0	.0	.5	3.0	2.5	3.0
30	10.0	8.5	9.5	7.5	6.5	7.0	1.0	.0	1.0	3.5	3.0	3.0
31	10.0	8.5	9.5	---	---	---	1.0	.0	.5	4.0	3.5	3.5
MONTH	18.5	8.5	13.7	13.5	2.5	8.2	10.5	.0	2.9	4.5	.0	2.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.5	4.0	4.0	6.5	5.5	6.0	8.5	8.0	8.0	19.0	14.5	17.0
2	5.0	4.0	4.5	7.0	5.5	6.0	8.5	8.5	8.5	20.0	16.5	18.5
3	5.0	4.0	4.0	8.5	6.5	7.5	9.5	8.0	8.5	21.0	18.0	19.5
4	4.0	3.5	3.5	8.0	5.5	7.0	10.5	9.5	10.0	21.5	19.0	20.5
5	4.0	2.5	3.0	5.5	4.0	4.5	11.0	10.0	10.5	21.0	18.5	20.0
6	4.0	2.5	3.0	4.5	3.5	4.0	11.5	10.5	11.0	18.5	16.0	17.5
7	---	---	---	6.0	4.0	4.5	11.5	10.5	11.0	16.5	14.0	15.5
8	---	---	---	6.5	5.0	6.0	11.0	10.5	10.5	17.0	14.0	15.5
9	---	---	---	7.5	6.0	6.5	15.0	10.5	12.5	17.0	15.0	16.0
10	---	---	---	7.5	4.5	6.0	15.0	13.5	14.0	18.5	15.5	17.5
11	---	---	---	7.5	5.0	6.5	13.5	12.0	12.5	20.0	17.0	18.5
12	---	---	---	8.5	5.5	7.0	13.5	11.5	12.5	20.5	18.5	19.5
13	---	---	---	8.5	7.0	7.5	15.0	13.0	14.0	19.5	17.0	18.0
14	---	---	---	9.0	7.0	8.0	15.5	12.5	14.0	17.5	15.5	16.5
15	---	---	---	8.0	6.5	7.5	15.5	13.0	14.5	17.0	15.0	16.0
16	---	---	---	9.0	7.0	8.5	14.5	12.5	13.5	16.5	15.0	16.0
17	---	---	---	9.0	8.5	8.5	13.0	11.0	12.0	16.0	15.0	15.5
18	6.0	4.5	5.0	8.5	7.5	8.0	13.0	10.0	11.5	15.0	15.0	15.0
19	4.5	3.5	4.0	9.5	6.5	8.0	13.0	9.5	11.5	17.5	15.0	16.0
20	6.0	4.5	5.0	9.5	6.5	8.0	13.0	10.5	12.0	17.5	16.0	16.5
21	6.5	6.0	6.0	8.5	7.5	8.0	15.5	12.5	14.0	16.0	14.5	15.0
22	6.0	3.0	5.0	8.5	7.5	8.0	20.0	15.0	17.5	17.0	15.0	16.0
23	3.5	2.5	3.0	9.5	7.0	8.0	22.0	17.5	20.0	18.0	16.0	17.0
24	4.0	3.5	3.5	9.0	8.0	8.5	22.0	19.0	20.5	18.5	16.5	17.5
25	5.0	4.0	4.5	8.0	7.0	7.5	19.0	14.0	16.0	18.5	17.0	17.5
26	6.5	5.0	5.5	8.0	7.5	7.5	15.5	12.0	14.0	18.0	16.0	17.0
27	6.5	5.5	6.0	7.5	6.0	7.0	16.5	12.5	14.5	18.0	16.0	17.0
28	6.5	6.0	6.5	9.0	5.0	7.0	17.0	14.5	15.5	17.5	16.0	16.5
29	---	---	---	8.0	6.5	7.5	16.0	13.0	14.5	18.0	15.0	16.0
30	---	---	---	8.0	7.0	7.5	17.0	13.0	15.0	18.0	16.5	17.0
31	---	---	---	8.0	7.0	7.5	---	---	---	17.0	14.5	16.0
MONTH	---	---	---	9.5	3.5	7.1	22.0	8.0	13.1	21.5	14.0	17.0

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.5	14.5	15.5	25.0	24.0	24.5	22.0	19.0	20.5	23.5	21.0	22.5
2	17.5	15.0	16.0	24.0	20.5	21.5	22.5	20.0	21.0	21.0	19.0	20.0
3	18.0	16.5	17.0	21.0	19.0	20.0	23.0	20.5	21.5	20.5	18.0	19.5
4	18.5	16.5	17.0	22.0	20.5	21.0	23.0	21.5	22.0	22.0	19.5	20.5
5	20.0	17.0	18.5	23.5	21.0	22.0	23.5	21.5	22.5	21.5	20.0	21.0
6	19.5	18.5	19.0	22.5	20.5	21.5	24.5	22.5	23.5	20.5	18.5	19.5
7	19.5	18.0	19.0	22.0	19.5	20.5	25.5	23.5	24.5	21.0	18.5	20.0
8	20.0	18.0	19.0	21.5	20.5	21.0	26.0	24.0	25.0	21.5	19.5	20.5
9	19.5	17.5	18.5	23.5	21.0	22.5	26.5	24.0	25.5	22.0	20.0	21.0
10	20.5	17.5	19.0	23.5	22.5	23.0	26.5	24.5	25.0	22.5	21.5	22.0
11	21.5	18.5	20.0	23.0	22.0	22.5	25.0	24.0	24.5	22.0	20.0	21.0
12	23.0	20.0	21.5	22.0	20.5	21.5	24.0	23.5	23.5	20.5	18.5	20.0
13	24.0	21.0	22.5	21.5	19.5	20.5	24.5	23.0	24.0	21.0	18.0	20.0
14	24.0	22.0	23.0	21.0	19.5	20.5	24.0	23.0	23.5	20.5	16.0	18.0
15	23.5	22.5	23.0	21.5	19.0	20.5	23.5	22.5	23.0	16.5	15.0	16.0
16	23.0	22.5	22.5	22.5	20.5	21.5	23.0	21.5	22.5	17.0	14.5	16.0
17	22.5	21.0	21.5	23.5	21.5	22.5	23.5	22.5	23.0	17.5	14.5	16.0
18	23.5	21.0	22.0	23.0	21.5	22.5	23.5	21.5	22.5	18.0	15.5	16.5
19	24.0	20.5	22.0	22.0	21.0	21.5	23.0	22.5	22.5	18.0	16.0	17.0
20	24.5	21.0	22.5	22.0	20.5	21.0	24.5	22.5	23.5	19.0	18.0	18.5
21	23.5	21.5	22.5	22.0	19.5	21.0	24.0	22.0	23.0	20.0	18.5	19.5
22	24.0	21.5	22.5	22.0	20.0	21.0	23.0	21.0	22.0	20.5	19.0	20.0
23	23.0	22.0	22.5	23.5	21.0	22.0	22.5	21.5	22.0	20.5	19.0	20.0
24	23.0	21.0	22.0	24.5	22.5	23.5	23.0	21.5	22.5	21.0	20.0	20.5
25	23.5	20.0	21.5	26.0	24.0	25.0	23.0	21.0	22.0	21.0	18.0	20.0
26	24.0	21.0	22.5	25.0	22.0	24.0	22.0	19.5	21.0	18.0	16.0	16.5
27	24.5	22.0	23.0	22.0	21.0	21.5	23.5	21.5	22.5	16.0	15.0	15.5
28	25.0	23.0	24.0	21.5	19.5	20.5	24.5	22.0	23.0	15.0	14.0	14.5
29	25.5	23.0	24.5	20.5	19.5	19.5	23.5	22.0	23.0	15.0	14.0	14.5
30	26.0	24.0	25.0	20.5	19.0	20.0	22.5	21.5	22.0	14.5	13.0	13.5
31	---	---	---	21.0	18.5	20.0	23.5	21.5	22.5	---	---	---
MONTH	26.0	14.5	21.0	26.0	18.5	21.6	26.5	19.0	22.9	23.5	13.0	18.7
YEAR	26.5	.0	13.0									

01482500 SALEM RIVER AT WOODSTOWN, NJ

LOCATION.--Lat 39°38'36", long 75°19'52", Salem County, Hydrologic Unit 02040206, downstream from Memorial Lake Dam at Woodstown, 0.2 mi upstream from small brook, and 0.3 mi downstream from Pennsylvania-Reading Seashore Lines bridge.

DRAINAGE AREA.--14.6 mi^2.

PERIOD OF RECORD.--Water years 1973 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Field data and samples for laboratory analyses on 11/16 and 02/15 were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 16...	1000	E6.9	--	.164	.130	766	85	10.5	7.4	282	--	6.5	96
FEB 15...	1000	E12	--	.171	.133	760	78	9.5	7.6	266	4.0	6.5	84
MAY 22...	0950	34	8.9	.246	.195	755	89	8.5	7.6	256	19.0	17.0	88
AUG 16...	1200	4.4	5.9	.215	.161	766	86	6.8	7.6	269	27.5	27.5	96

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 16...	21.5	10.2	7.14	9.3	45	24.8	E.1	5.9	36.6	166	149	.250	.90
FEB 15...	19.2	8.70	6.29	9.6	24	23.4	E.1	9.1	40.0	171	146	.370	.95
MAY 22...	19.8	9.47	5.10	8.6	48	25.4	E.1	6.3	28.9	171	137	.450	1.1
AUG 16...	21.4	10.3	7.76	8.8	69	26.4	E.1	3.7	17.4	156	137	<.030	.57

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV 16...	.32	1.1	1.47	.057	2.4	2.6	.174	.042	.179	1.4	<.1	5.2	1.4
FEB 15...	.34	1.4	3.43	.053	4.4	4.8	.202	.029	.140	1.1	<.1	5.9	1.1
MAY 22...	.47	1.2	.889	.119	2.0	2.1	.133	.108	.238	.9	<.1	6.6	.9
AUG 16...	<.03	1.1	.038	.005	.61	1.1	.400	.094	.236	2.1	<.1	6.9	2.1

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS-SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV				
16...	3.4	--	19	40
FEB				
15...	3.6	--	E10	16
MAY				
22...	2.3	3.30	19	10
AUG				
16...	3.0	75.1	21	10

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN				
14...	1000	16000	7200	2900
21...	0930	230	600	100
28...	0930	170	300	60
JUL				
05...	1000	80	200	100
12...	0945	220	800	50

E Estimated value.

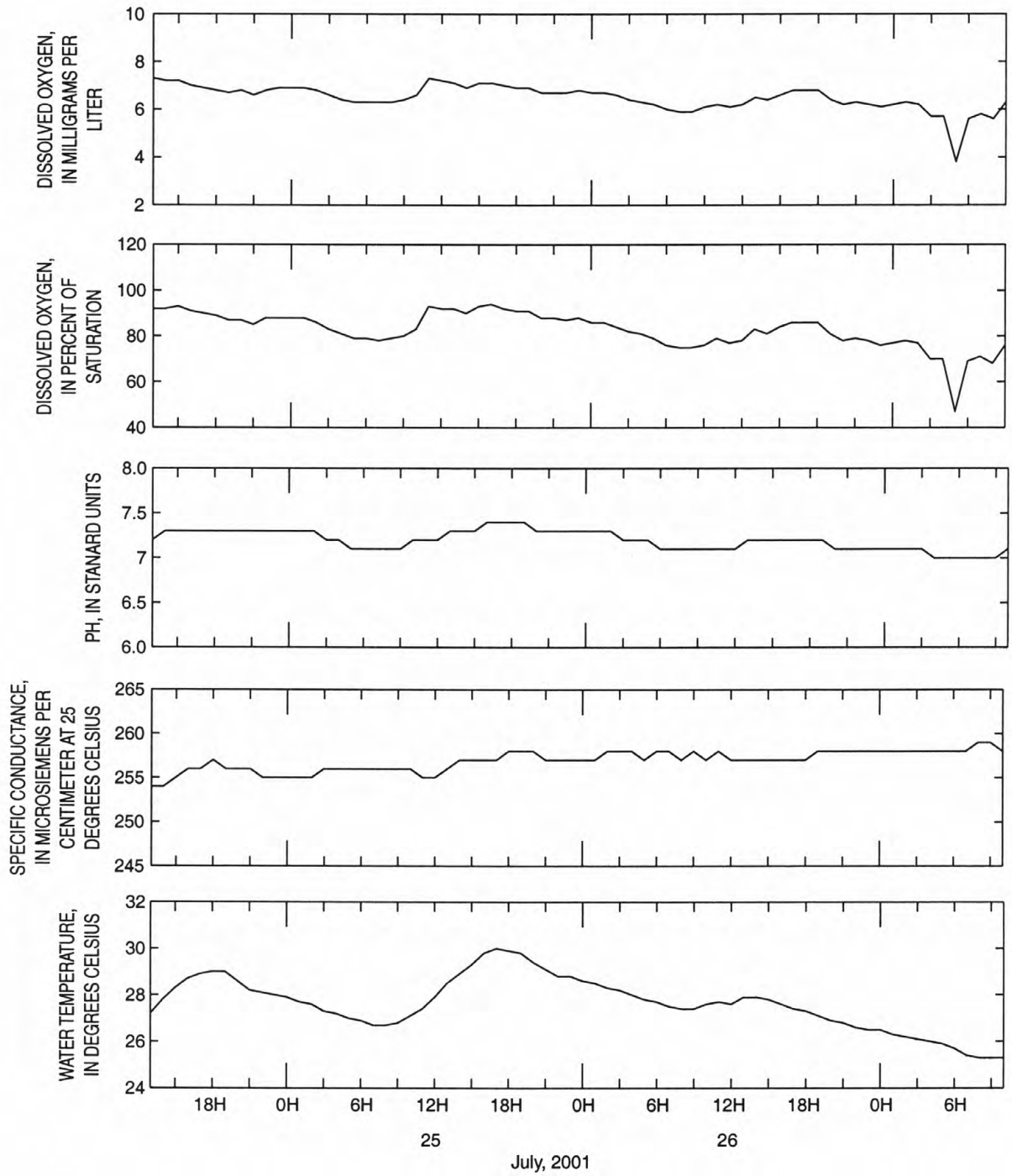


Figure 57. Reconnaissance Study--Physical characteristics and concentration of constituents measured at 01482500 Salem River at Woodstown, water year 2001.

01482530 MAJOR RUN AT SHARPTOWN, NJ

LOCATION.--Lat 39°38'55", long 75°22'29", Salem County, Hydrologic Unit 02040206, at bridge on Pointers-Swedesboro Road (County Route 620), 0.7 mi southwest of Sharptown, 0.4 mi upstream from mouth, and 2.6 mi west of Woodstown.

DRAINAGE AREA.--3.04 mi^2.

PERIOD OF RECORD.--November 2000 to August 2001.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV 30...	0800	--	.111	.085	758	61	7.6	7.5	558	--	6.0	140	49.2
FEB 28...	0930	--	.143	.111	767	86	11.1	7.5	415	3.0	5.0	110	36.5
JUN 07...	0800	26	.297	.225	758	58	5.2	7.4	374	17.0	20.5	98	31.1
AUG 16...	0800	32	.115	.088	763	62	5.1	7.8	574	19.5	25.0	130	43.9

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV 30...	4.11	5.85	41.7	102	73.6	.3	13.6	30.8	294	284	1.13	1.6	1.17
FEB 28...	5.19	6.71	27.4	55	51.2	.2	13.8	28.9	235	221	2.05	2.7	2.03
JUN 07...	5.03	9.86	23.9	63	42.5	.3	12.0	24.6	229	197	1.82	2.8	2.02
AUG 16...	4.78	6.52	54.7	86	99.5	.4	4.5	26.8	311	293	.040	.59	.09

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV 30...	1.8	.650	.093	2.3	2.4	.195	.009	.159	.9	<.1	4.4	.9	3.8
FEB 28...	2.9	3.51	.181	6.2	6.4	.455	.045	.231	2.5	<.1	4.8	2.5	2.3
JUN 07...	3.5	1.83	.294	4.7	5.3	.317	.059	.358	1.7	<.1	8.9	1.7	4.5
AUG 16...	1.9	.111	.004	.70	2.0	.592	.034	.358	3.8	<.1	6.2	3.7	3.2

< Actual value is known to be less than the value shown.

01482530 MAJOR RUN AT SHARPTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	BORON, DISSOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV 30...	--	16	24
FEB 28...	--	17	13
JUN 07...	89.3	34	27
AUG 16...	194	32	42

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)
AUG 16...	0800	4	38.9	.07	28	.09	1	1.4	2980	1	120	<.01	3

DATE	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
AUG 16...	E.3	<.05	10

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLOROWATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLOROWATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLOROWATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
FEB 28...	0930	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYLETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 28...	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.2

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 28...	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

E Estimated value.
< Actual value is known to be less than the value shown.

01482530 MAJOR RUN AT SHARPTOWN, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
JUN													
07...	0800	<.004	<.010	<.005	9.61	<.010	<.041	<.020	<.010	<.018	<.003	E2.1	.083

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
JUN													
07...	<.005	<.002	<.004	<.035	E.007	<.050	4.02	<.006	<.002	<.007	<.003	.024	E.003

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
JUN					
07...	.034	<.016	<.034	<.005	<.009

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN				
14...	0930	2200	3000	390
21...	1015	490	600	200
28...	1030	790	400	360
JUL				
05...	0920	330	100	400
12...	0945	3800	700	400

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN

01482530 MAJOR RUN AT SHARPTOWN, NJ

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

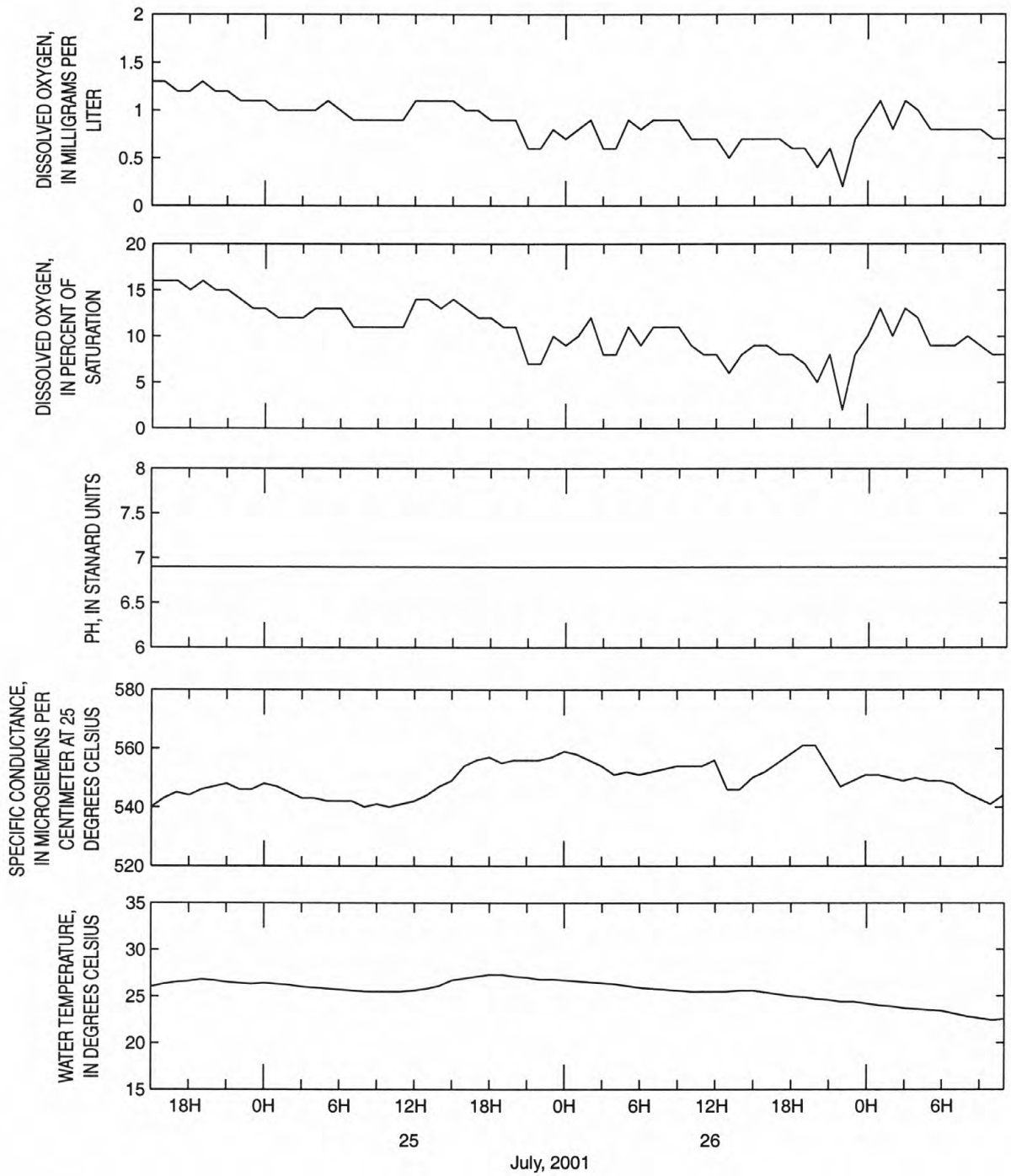


Figure 58. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01482530 Major Run at Shaprton, water year 2001.

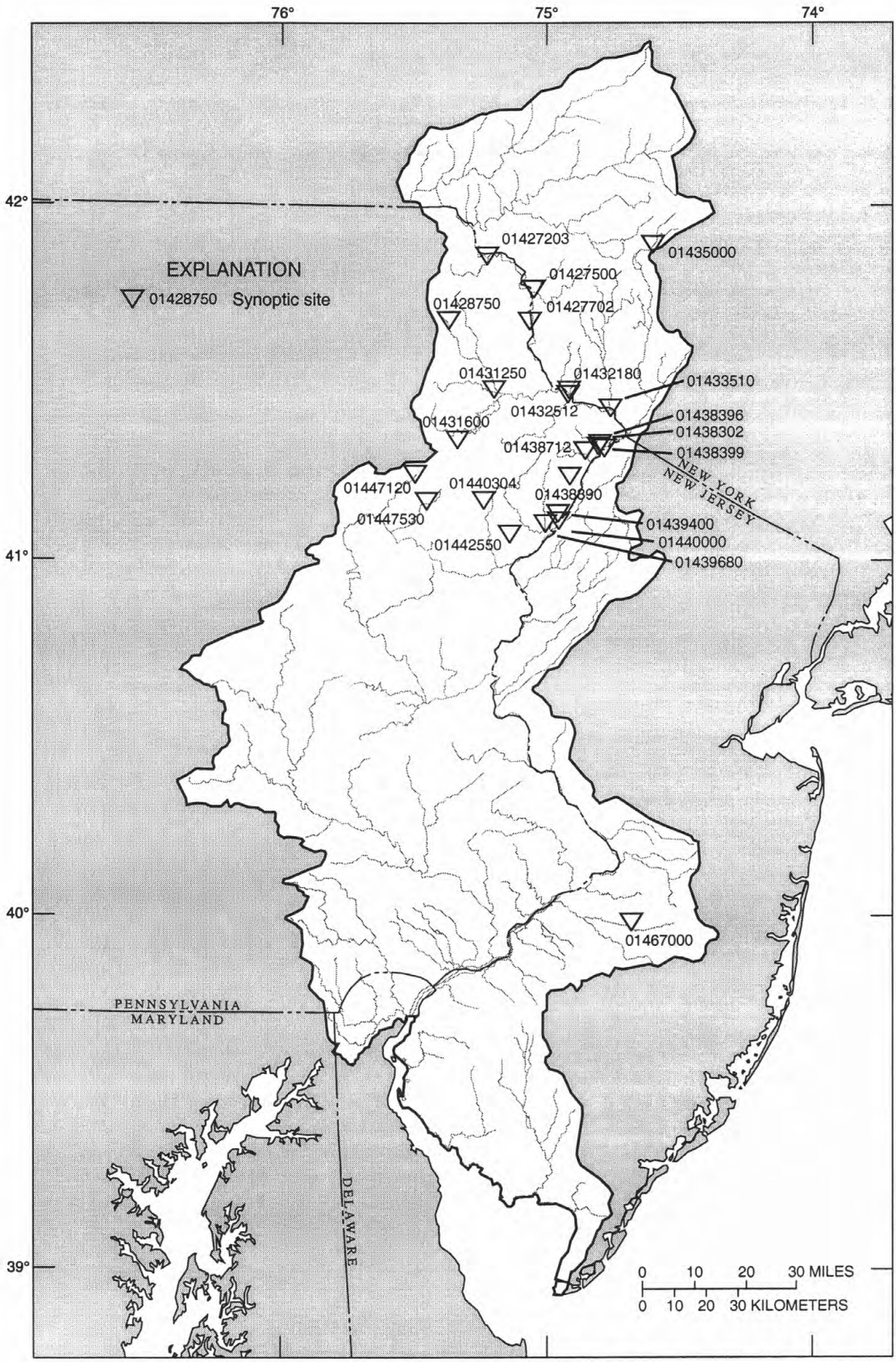


Figure 59. Location of sites in the Delaware River Basin National Water-Quality Assessment Program, surface-water synoptic study, water year 2001.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING, MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

Miscellaneous water-quality sites are locations where non-routine water-quality data are collected during one year for use in hydrologic analyses. Data are collected either intermittently or systematically for a limited period of time. Water-quality data presented in this table were collected by the Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA) as part of two basin-wide surveys of nutrients, pesticides, major ions, and organic carbon, during periods of base flow; the first survey was May 7 through May 16, 2001, and the second was August 20 through August 29, 2001. Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table. For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality Control Data" in the "Introduction."

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
01427203 EQUINUNK CREEK AT EQUINUNK, PA (LAT 41 51 21N LONG 075 13 31W)												
MAY 2001												
09...	*1519*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
09...	1520	ENVIRONMENTAL	24	740	122	11.1	7.6	69	23.5	18.6	22	7.38
AUG												
23...	*1009*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
23...	1010	ENVIRONMENTAL	4.4	739	105	9.6	7.2	84	19.0	18.0	29	9.60
01427500 CALLICOON CREEK AT CALLICOON NY (LAT 41 45 39N LONG 075 02 55W)												
MAY 2001												
10...	1250	ENVIRONMENTAL	E46	717	146	13.1	9.4	134	27.5	17.6	31	9.80
AUG												
23...	1310	ENVIRONMENTAL	E16	739	120	10.9	8.6	155	21.0	18.2	38	11.7
01427702 CALKINS CR 1200 FT AB MOUTH AT MILANVILLE, PA (LAT 41 40 21N LONG 075 03 53W)												
MAY 2001												
10...	1430	ENVIRONMENTAL	12	742	114	10.4	8.8	82	25.5	18.4	26	8.21
AUG												
22...	1000	ENVIRONMENTAL	1.3	748	105	9.5	7.3	100	22.5	19.6	33	10.3
01428750 WEST BRANCH LACKAWAXEN RIVER NEAR ALDENVILLE PA (LAT 41 40 28N LONG 075 22 35W)												
MAY 2001												
09...	1200	ENVIRONMENTAL	18	731	130	12.9	8.1	86	20.5	13.7	28	9.48
AUG												
22...	*1659*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	*E.01*
22...	1700	ENVIRONMENTAL	6.9	728	105	8.9	8.1	88	26.5	21.3	32	10.6
01431250 MIDDLE CREEK AT HAWLEY, PA (LAT 41 28 48N LONG 075 12 03W)												
MAY 2001												
09...	0830	ENVIRONMENTAL	33	741	108	10.4	7.4	94	15.5	16.0	30	10.0
AUG												
22...	1120	ENVIRONMENTAL	4.3	738	122	10.3	8.2	116	27.0	22.2	39	12.9
01431600 WALLENPAUPACK CREEK AT EAST STERLING, PA. (LAT 41 20 10N LONG 075 20 25W)												
MAY 2001												
08...	1500	ENVIRONMENTAL	E92	732	123	11.9	7.6	81	E17.0	15.2	22	7.12
AUG												
22...	0910	ENVIRONMENTAL	E15	729	102	9.2	7.7	103	19.5	18.4	31	10.1
01432180 HALFWAY BROOK AT BARRYVILLE NY (LAT 41 28 38N LONG 074 54 39W)												
MAY 2001												
09...	1520	ENVIRONMENTAL	18	751	--	--	7.2	123	27.0	15.6	18	5.11
AUG												
22...	*1449*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	*.01*
22...	1450	ENVIRONMENTAL	1.5	752	102	9.2	7.4	185	E25.0	19.9	26	7.37
01432512 SHOHOLA CREEK AT SHOHOLA, PA (LAT 41 27 53N LONG 074 55 02W)												
MAY 2001												
09...	1210	ENVIRONMENTAL	46	754	77	7.6	7.0	77	21.5	15.9	14	3.46
AUG												
22...	1710	ENVIRONMENTAL	15	749	99	8.3	7.2	86	E22.5	23.1	16	3.89

E Estimated value.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
01427203 EQUINUNK CREEK AT EQUINUNK, PA (LAT 41 51 21N LONG 075 13 31W)													
MAY 2001													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
09...	.915	.79	2.9	16	20	--	4.8	<.2	1.6	6.4	.12	.13	<.040
AUG													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	1.24	.75	4.1	22	27	--	7.3	<.2	2.0	5.9	E.07	.08	<.040
01427500 CALLICOON CREEK AT CALLICOON NY (LAT 41 45 39N LONG 075 02 55W)													
MAY 2001													
10...	1.68	1.65	9.8	19	13	5	19.3	<.2	1.0	8.0	.21	.47	<.041
AUG													
23...	2.19	1.85	13.4	27	28	2	26.7	<.2	1.4	8.3	.16	.20	<.040
01427702 CALKINS CR 1200 FT AB MOUTH AT MILANVILLE, PA (LAT 41 40 21N LONG 075 03 53W)													
MAY 2001													
10...	1.28	1.39	4.0	18	22	--	6.3	<.2	2.2	7.6	.17	.21	<.041
AUG													
22...	1.75	1.36	4.9	26	32	--	8.6	<.2	3.1	7.0	.10	.13	<.040
01428750 WEST BRANCH LACKAWAXEN RIVER NEAR ALDENVILLE PA (LAT 41 40 28N LONG 075 22 35W)													
MAY 2001													
09...	1.14	1.01	3.7	20	24	--	6.2	<.2	1.9	7.1	.17	.15	<.041
AUG													
22...	*<.008*	*<.09*	*<.1*	--	--	--	*M*	*<.2*	*E.1*	*<.1*	*<.10*	*<.08*	*<.040*
22...	1.30	1.09	4.1	24	30	--	8.1	<.2	1.7	6.2	.15	.20	<.040
01431250 MIDDLE CREEK AT HAWLEY, PA (LAT 41 28 48N LONG 075 12 03W)													
MAY 2001													
09...	1.22	.98	4.6	22	26	--	6.7	<.2	1.5	8.6	.16	.33	<.040
AUG													
22...	1.73	1.15	5.6	34	37	2	8.9	<.2	1.1	6.8	.20	.26	<.040
01431600 WALLENPAUPACK CREEK AT EAST STERLING, PA. (LAT 41 20 10N LONG 075 20 25W)													
MAY 2001													
08...	.997	.51	5.0	10	12	--	10	<.2	1.8	7.3	.10	.15	<.041
AUG													
22...	1.44	.59	6.3	19	24	--	12.9	<.2	2.2	6.7	E.07	.14	<.040
01432180 HALFWAY BROOK AT BARRYVILLE NY (LAT 41 28 38N LONG 074 54 39W)													
MAY 2001													
09...	1.30	.66	14.7	6	8	--	24.1	<.2	3.0	8.1	.10	.12	<.040
AUG													
22...	*<.008*	*<.09*	*<.1*	--	--	--	*<.1*	*<.2*	*.1*	*<.1*	*<.10*	*<.08*	*<.040*
22...	1.92	.78	23.3	19	24	--	38.1	E.1	3.5	7.8	E.08	.17	<.040
01432512 SHOHOLA CREEK AT SHOHOLA, PA (LAT 41 27 53N LONG 074 55 02W)													
MAY 2001													
09...	1.38	.51	7.9	4	6	--	12.5	<.2	1.5	7.1	.16	.19	<.041
AUG													
22...	1.55	.48	8.6	7	9	--	15.6	<.2	1.0	4.6	.24	.27	<.040

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
01427203 EQUINUNK CREEK AT EQUINUNK, PA (LAT 41 51 21N LONG 075 13 31W)													
MAY 2001													
09...	--	--	--	--	--	--	--	*<.30*	--	--	--	--	--
09...	.20	.19	.072	E.003	.006	<.020	.006	1.7	47	35	--	<13	M
AUG													
23...	--	--	--	--	--	--	--	*<.30*	--	--	--	--	--
23...	.14	--	.055	<.006	E.004	<.020	.006	.93	52	45	<2.0	13	M
01427500 CALLICOON CREEK AT CALLICOON NY (LAT 41 45 39N LONG 075 02 55W)													
MAY 2001													
10...	.85	.59	.382	.007	.015	<.018	.034	2.4	84	64	--	<13	20
AUG													
23...	.55	.51	.353	<.006	.030	E.017	.034	1.7	96	84	<2.0	14	20
01427702 CALKINS CR 1200 FT AB MOUTH AT MILANVILLE, PA (LAT 41 40 21N LONG 075 03 53W)													
MAY 2001													
10...	.33	.29	.120	E.003	.016	E.010	.023	2.2	56	42	--	<13	30
AUG													
22...	.27	.23	.133	.014	.032	<.020	.035	3.4	61	54	<2.0	E7	M
01428750 WEST BRANCH LACKAWAXEN RIVER NEAR ALDENVILLE PA (LAT 41 40 28N LONG 075 22 35W)													
MAY 2001													
09...	.44	.45	.283	E.003	.010	<.018	.015	1.8	58	44	--	<13	20
AUG													
22...	--	--	*<.050*	*<.006*	*<.006*	*<.020*	*<.004*	--	*<10*	--	--	*<13*	*<10*
22...	.37	.32	.171	<.006	.028	E.011	.034	1.7	56	49	<2.0	E8	20
01431250 MIDDLE CREEK AT HAWLEY, PA (LAT 41 28 48N LONG 075 12 03W)													
MAY 2001													
09...	--	--	<.050	.018	.025	<.020	.033	3.7	63	47	--	E7	100
AUG													
22...	--	--	E.028	<.006	.026	.019	.033	3.3	69	59	<2.0	E8	20
01431600 WALLENPAUPACK CREEK AT EAST STERLING, PA. (LAT 41 20 10N LONG 075 20 25W)													
MAY 2001													
08...	.36	.31	.201	<.006	E.005	<.018	.009	2.1	56	40	--	E6	40
AUG													
22...	.30	--	.164	<.006	<.006	<.020	.009	1.7	59	52	<2.0	<13	30
01432180 HALFWAY BROOK AT BARRYVILLE NY (LAT 41 28 38N LONG 074 54 39W)													
MAY 2001													
09...	.18	.15	.055	.021	.009	<.020	.015	2.2	78	61	<2.0	E7	30
AUG													
22...	--	--	*<.050*	*<.006*	*<.006*	*<.020*	*<.004*	--	*<10*	--	--	*<13*	*<10*
22...	.31	--	.135	<.006	.016	E.011	.027	1.5	102	95	<2.0	E10	40
01432512 SHOHOLA CREEK AT SHOHOLA, PA (LAT 41 27 53N LONG 074 55 02W)													
MAY 2001													
09...	--	--	E.040	.008	.011	<.018	.020	3.2	54	37	<2.0	<13	60
AUG													
22...	--	--	E.028	<.006	.008	<.020	.012	1.3	52	36	<2.0	E9	70

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DIAZINON, DISSOLVED (UG/L) (39572)
01427203 EQUINUNK CREEK AT EQUINUNK, PA (LAT 41 51 21N LONG 075 13 31W)													
MAY 2001													
09...	--	--	--	*<.004*	*<.002*	*<.005*	*<.007*	*<.010*	*<.041*	*<.020*	*<.005*	*<.003*	*<.005*
09...	4.8	.27	4	<.004	<.002	<.005	E.002	<.010	<.041	<.020	<.005	<.003	<.005
AUG													
23...	--	--	--	*<.004*	*<.002*	*<.005*	*<.007*	*<.010*	*<.041*	*<.020*	*<.005*	*<.003*	*<.005*
23...	12.8	.02	1	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.003	<.005
01427500 CALLICOON CREEK AT CALLICOON NY (LAT 41 45 39N LONG 075 02 55W)													
MAY 2001													
10...	4.8	--	4	<.004	<.002	<.005	E.006	<.010	<.041	<.020	<.005	<.003	<.005
AUG													
23...	8.3	--	1	<.004	<.002	<.005	E.006	<.010	<.041	<.020	<.005	<.003	<.005
01427702 CALKINS CR 1200 FT AB MOUTH AT MILANVILLE, PA (LAT 41 40 21N LONG 075 03 53W)													
MAY 2001													
10...	4.8	--	<1	<.004	<.002	<.005	E.004	<.010	<.041	<.020	<.005	<.003	<.005
AUG													
22...	8.2	.00	1	<.004	<.002	<.005	.009	<.010	<.041	<.020	<.005	<.003	<.005
01428750 WEST BRANCH LACKAWAXEN RIVER NEAR ALDENVILLE PA (LAT 41 40 28N LONG 075 22 35W)													
MAY 2001													
09...	7.8	.13	3	<.004	<.002	<.005	E.004	<.010	<.041	<.020	<.005	<.003	<.005
AUG													
22...	*<3.0*	--	*1*	--	--	--	--	--	--	--	--	--	--
22...	5.7	--	<1	<.004	<.002	<.005	E.006	<.010	<.041	<.020	<.005	<.003	<.005
01431250 MIDDLE CREEK AT HAWLEY, PA (LAT 41 28 48N LONG 075 12 03W)													
MAY 2001													
09...	19.3	.11	1	<.004	<.002	<.005	E.005	<.010	<.041	<.020	<.005	<.003	<.005
AUG													
22...	4.9	.02	2	<.004	<.002	<.005	E.003	<.010	<.041	<.020	<.005	<.003	<.005
01431600 WALLENPAUPACK CREEK AT EAST STERLING, PA. (LAT 41 20 10N LONG 075 20 25W)													
MAY 2001													
08...	20.4	--	12	<.004	<.002	<.005	E.003	<.010	<.041	<.020	<.005	<.003	<.005
AUG													
22...	24.2	--	<1	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.003	<.005
01432180 HALFWAY BROOK AT BARRYVILLE NY (LAT 41 28 38N LONG 074 54 39W)													
MAY 2001													
09...	13.3	.05	1	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.003	<.005
AUG													
22...	*<3.0*	--	*<1*	--	--	--	--	--	--	--	--	--	--
22...	23.5	.01	3	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.003	<.005
01432512 SHOHOLA CREEK AT SHOHOLA, PA (LAT 41 27 53N LONG 074 55 02W)													
MAY 2001													
09...	10.1	.15	1	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.003	<.005
AUG													
22...	8.5	.07	2	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.003	<.005

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
01427203 EQUINUNK CREEK AT EQUINUNK, PA (LAT 41 51 21N LONG 075 13 31W)													
MAY 2001													
09...	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*	*<.013*	*<.006*	*<.002*	*<.007*	*<.003*	*<.010*	*<.016*
09...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.016
AUG													
23...	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*	*<.013*	*<.006*	*<.002*	*<.007*	*<.003*	*<.010*	*<.016*
23...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.016
01427500 CALLICOON CREEK AT CALLICOON NY (LAT 41 45 39N LONG 075 02 55W)													
MAY 2001													
10...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.016
AUG													
23...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.016
01427702 CALKINS CR 1200 FT AB MOUTH AT MILANVILLE, PA (LAT 41 40 21N LONG 075 03 53W)													
MAY 2001													
10...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.016
AUG													
22...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.016
01428750 WEST BRANCH LACKAWAXEN RIVER NEAR ALDENVILLE PA (LAT 41 40 28N LONG 075 22 35W)													
MAY 2001													
09...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.016
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.016
01431250 MIDDLE CREEK AT HAWLEY, PA (LAT 41 28 48N LONG 075 12 03W)													
MAY 2001													
09...	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.002	<.007	<.003	<.010	<.016
AUG													
22...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.016
01431600 WALLENPAUPACK CREEK AT EAST STERLING, PA. (LAT 41 20 10N LONG 075 20 25W)													
MAY 2001													
08...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.016
AUG													
22...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.016
01432180 HALFWAY BROOK AT BARRYVILLE NY (LAT 41 28 38N LONG 074 54 39W)													
MAY 2001													
09...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.016
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.016
01432512 SHOHOLA CREEK AT SHOHOLA, PA (LAT 41 27 53N LONG 074 55 02W)													
MAY 2001													
09...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.016
AUG													
22...	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.016

E Estimated value.
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DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
01427203 EQUINUNK CREEK AT EQUINUNK, PA (LAT 41 51 21N LONG 075 13 31W)			
MAY 2001			
09...	*<.034*	*<.005*	*<.009*
09...	<.034	<.005	<.009
AUG			
23...	*<.034*	*<.005*	*<.009*
23...	<.034	<.005	<.009
01427500 CALLICOON CREEK AT CALLICOON NY (LAT 41 45 39N LONG 075 02 55W)			
MAY 2001			
10...	<.034	<.005	<.009
AUG			
23...	<.034	<.005	<.009
01427702 CALKINS CR 1200 FT AB MOUTH AT MILANVILLE, PA (LAT 41 40 21N LONG 075 03 53W)			
MAY 2001			
10...	<.034	<.005	<.009
AUG			
22...	<.034	<.005	<.009
01428750 WEST BRANCH LACKAWAXEN RIVER NEAR ALDENVILLE PA (LAT 41 40 28N LONG 075 22 35W)			
MAY 2001			
09...	<.034	<.005	<.009
AUG			
22...	--	--	--
22...	<.034	<.005	<.009
01431250 MIDDLE CREEK AT HAWLEY, PA (LAT 41 28 48N LONG 075 12 03W)			
MAY 2001			
09...	<.034	<.005	<.009
AUG			
22...	<.034	<.005	<.009
01431600 WALLENPAUPACK CREEK AT EAST STERLING, PA. (LAT 41 20 10N LONG 075 20 25W)			
MAY 2001			
08...	<.034	<.005	<.009
AUG			
22...	<.034	<.005	<.009
01432180 HALFWAY BROOK AT BARRYVILLE NY (LAT 41 28 38N LONG 074 54 39W)			
MAY 2001			
09...	<.034	<.005	<.009
AUG			
22...	--	--	--
22...	<.034	<.005	<.009
01432512 SHOHOLA CREEK AT SHOHOLA, PA (LAT 41 27 53N LONG 074 55 02W)			
MAY 2001			
09...	<.034	<.005	<.009
AUG			
22...	<.034	<.005	<.009

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DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
01433510 MONGAUP RIVER AT MONGAUP NY (LAT 41 25 36N LONG 074 45 22W)												
MAY 2001												
09...	0920	ENVIRONMENTAL	--	757	107	12.0	6.9	106	14.0	9.9	18	5.56
AUG												
23...	*1239*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
23...	1240	ENVIRONMENTAL	--	752	100	9.1	7.3	107	22.3	19.1	20	5.98
01435000 NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)												
OCT 2000												
16...	1040	ENVIRONMENTAL	60	729	93	10.0	6.4	27	9.5	10.2	9	2.52
MAY 2001												
10...	*0929*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	*.01*
10...	0930	ENVIRONMENTAL	104	723	109	11.9	7.0	35	21.0	9.1	9	2.60
AUG												
23...	1600	ENVIRONMENTAL	26	719	106	9.8	7.5	34	19.5	16.3	9	2.65
01438302 VANDERMARK CREEK AT MOUTH AT MILFORD, PA (LAT 41 19 20N LONG 074 47 44W)												
MAY 2001												
08...	1340	ENVIRONMENTAL	5.7	762	110	11.9	7.2	120	21.0	11.9	30	7.68
AUG												
21...	1420	ENVIRONMENTAL	<1.0	753	122	12.1	7.6	195	20.4	15.4	48	13.2
01438396 SAWKILL CREEK 2000 FT AB MOUTH AT MILFORD, PA (LAT 41 19 08N LONG 074 48 10W)												
MAY 2001												
08...	0840	ENVIRONMENTAL	20	762	103	11.7	6.9	144	7.5	9.6	28	7.76
AUG												
21...	0840	ENVIRONMENTAL	3.2	752	101	9.6	7.0	182	22.0	17.5	38	10.5
01438399 SHIMERS BROOK AT MILLVILLE ROAD NEAR MONTAGUE NJ (LAT 41 18 47N LONG 074 46 44W)												
MAY 2001												
08...	1110	ENVIRONMENTAL	4.4	763	99	10.2	8.2	322	16.0	13.8	130	37.2
AUG												
21...	1230	ENVIRONMENTAL	1.6	752	97	8.5	8.3	459	22.5	21.0	190	51.8
01438712 RAYMONDSKILL CR BL SWALE BROOK NR SILVER SPRING PA (LAT 41 18 19N LONG 074 51 05W)												
MAY 2001												
07...	1750	ENVIRONMENTAL	17	755	100	9.5	6.9	118	17.0	17.3	21	5.56
AUG												
21...	1710	ENVIRONMENTAL	5.2	743	97	8.0	7.3	110	21.3	23.5	24	6.27
01438890 DINGMANS CR BL FULMER FALLS NR DINGMANS FERRY, PA (LAT 41 13 52N LONG 074 54 37W)												
MAY 2001												
07...	1430	ENVIRONMENTAL	7.4	757	99	10.0	7.3	82	19.5	14.6	17	4.44
AUG												
20...	1730	ENVIRONMENTAL	.63	742	93	8.2	7.0	98	24.0	20.1	24	6.20
01439400 TOMS CREEK AT EGYPT MILLS, PA (LAT 41 07 33N LONG 074 57 20W)												
MAY 2001												
07...	1110	ENVIRONMENTAL	8.4	769	105	11.7	6.6	90	15.0	11.1	24	6.21
AUG												
20...	1410	ENVIRONMENTAL	1.2	752	103	9.6	7.1	86	29.0	18.0	26	6.58

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DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
01433510 MONGAUP RIVER AT MONGAUP NY (LAT 41 25 36N LONG 074 45 22W)													
MAY 2001													
09...	1.11	.97	11.4	5	7	--	19.4	<.2	2.8	7.1	.16	.19	<.040
AUG													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	1.25	.95	10.6	9	11	--	18.7	<.2	1.7	6.8	.15	.19	<.040
01435000 NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)													
OCT 2000													
16...	.638	.30	1.1	4	4	--	1.5	E.1	2.5	4.9	E.07	.09	<.041
MAY 2001													
10...	*<.008*	*<.09*	*<.1*	--	--	--	*<.1*	*<.2*	*<.1*	*<.1*	*<.10*	*<.08*	*<.041*
10...	.631	.30	1.5	3	4	--	2.9	<.2	2.0	4.7	<.10	E.07	<.041
AUG													
23...	.674	.40	1.8	4	5	--	3.6	<.2	2.4	4.8	<.10	E.06	<.040
01438302 VANDERMARK CREEK AT MOUTH AT MILFORD, PA (LAT 41 19 20N LONG 074 47 44W)													
MAY 2001													
08...	2.52	.61	8.8	10	12	--	18.3	<.2	5.6	9.2	E.09	.09	<.041
AUG													
21...	3.70	.81	14.3	16	20	--	33.9	<.2	6.8	11.4	<.10	E.08	<.040
01438396 SAWKILL CREEK 2000 FT AB MOUTH AT MILFORD, PA (LAT 41 19 08N LONG 074 48 10W)													
MAY 2001													
08...	2.08	.58	14.9	12	14	--	27.6	<.2	3.9	8.9	E.09	E.08	<.041
AUG													
21...	2.93	.79	17.3	16	20	--	35.8	<.2	5.6	9.7	E.07	.10	<.040
01438399 SHIMERS BROOK AT MILLVILLE ROAD NEAR MONTAGUE NJ (LAT 41 18 47N LONG 074 46 44W)													
MAY 2001													
08...	8.32	.56	14.6	107	130	--	26.8	<.2	2.1	13.9	.19	.34	<.040
AUG													
21...	13.6	.86	19.0	162	185	6	40.3	<.2	3.5	12.6	.16	.22	<.040
01438712 RAYMONDSKILL CR BL SWALE BROOK NR SILVER SPRING PA (LAT 41 18 19N LONG 074 51 05W)													
MAY 2001													
07...	1.76	.39	13.0	8	10	--	23.8	<.2	2.3	6.5	.16	.22	<.041
AUG													
21...	2.12	.49	10.1	15	18	--	19.7	<.2	3.5	4.5	.17	.22	<.040
01438890 DINGMANS CR BL FULMER FALLS NR DINGMANS FERRY, PA (LAT 41 13 52N LONG 074 54 37W)													
MAY 2001													
07...	1.39	.42	8.0	7	9	--	13.3	<.2	1.4	7.2	.14	.26	<.041
AUG													
20...	2.00	.40	8.6	15	19	--	14.9	<.2	3.5	5.8	.10	.18	<.040
01439400 TOMS CREEK AT EGYPT MILLS, PA (LAT 41 07 33N LONG 074 57 20W)													
MAY 2001													
07...	2.15	.32	6.2	11	13	--	10.9	<.2	5.3	9.5	<.10	E.06	<.041
AUG													
20...	2.43	.38	5.3	15	18	--	9.4	<.2	6.8	9.2	<.10	E.04	<.040

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
01433510 MONGAUP RIVER AT MONGAUP NY (LAT 41 25 36N LONG 074 45 22W)													
MAY 2001													
09...	.50	.47	.311	.009	--	.006	<.020	.019	--	--	3.1	--	77
AUG													
23...	--	--	--	--	--	--	--	--	--	--	*5.0*	--	--
23...	.40	.37	.213	<.006	--	E.005	<.020	.008	--	--	2.8	--	67
01435000 NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)													
OCT 2000													
16...	.14	--	.052	<.006	--	<.006	<.018	E.002	--	--	1.0	<.2	20
MAY 2001													
10...	--	--	*<.047*	*<.006*	--	*<.006*	*<.018*	*<.004*	--	--	--	--	*<10*
10...	--	--	.206	<.006	<.022	<.006	<.018	E.002	.2	<.1	.99	.2	26
AUG													
23...	--	--	.119	<.006	<.022	<.006	<.020	.006	.2	<.1	.65	.2	23
01438302 VANDERMARK CREEK AT MOUTH AT MILFORD, PA (LAT 41 19 20N LONG 074 47 44W)													
MAY 2001													
08...	.86	--	.762	.017	--	.016	<.018	.018	--	--	1.3	--	72
AUG													
21...	--	--	2.35	<.006	--	.012	E.010	.020	--	--	.73	--	119
01438396 SAWKILL CREEK 2000 FT AB MOUTH AT MILFORD, PA (LAT 41 19 08N LONG 074 48 10W)													
MAY 2001													
08...	--	--	.253	.006	--	.007	<.018	.009	--	--	1.8	--	85
AUG													
21...	.72	--	.619	<.006	--	.013	E.010	.018	--	--	1.2	--	101
01438399 SHIMERS BROOK AT MILLVILLE ROAD NEAR MONTAGUE NJ (LAT 41 18 47N LONG 074 46 44W)													
MAY 2001													
08...	.48	.33	.137	<.006	--	.010	<.020	.026	--	--	3.5	--	188
AUG													
21...	.34	.27	.116	<.006	--	.013	E.012	.019	--	--	3.5	--	260
01438712 RAYMONDSKILL CR BL SWALE BROOK NR SILVER SPRING PA (LAT 41 18 19N LONG 074 51 05W)													
MAY 2001													
07...	--	--	E.031	<.006	--	.007	<.018	.016	--	--	3.3	--	72
AUG													
21...	--	--	E.038	<.006	--	E.006	<.020	.017	--	--	3.0	--	66
01438890 DINGMANS CR BL FULMER FALLS NR DINGMANS FERRY, PA (LAT 41 13 52N LONG 074 54 37W)													
MAY 2001													
07...	.34	.23	.084	.006	--	.008	<.018	.025	--	--	3.0	--	49
AUG													
20...	.36	.29	.184	<.006	--	.011	<.020	.019	--	--	2.6	--	59
01439400 TOMS CREEK AT EGYPT MILLS, PA (LAT 41 07 33N LONG 074 57 20W)													
MAY 2001													
07...	--	--	.136	E.004	--	.006	<.018	.008	--	--	1.3	--	50
AUG													
20...	--	--	.306	<.006	--	.011	<.020	.013	--	--	.76	--	51

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
01433510 MONGAUP RIVER AT MONGAUP NY (LAT 41 25 36N LONG 074 45 22W)													
MAY 2001													
09...	53	<2.0	E8	30	14.0	--	3	<.004	<.002	<.005	<.007	<.010	<.041
AUG													
23...	--	--	--	--	--	--	--	*<.004*	*<.002*	*<.005*	*<.007*	*<.010*	*<.041*
23...	52	<2.0	<13	M	<3.0	--	2	<.004	<.002	<.005	.011	<.010	<.041
01435000 NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)													
OCT 2000													
16...	16	2.0	<13	<10	E2.3	.16	1	<.004	<.002	<.005	<.007	<.010	<.041
MAY 2001													
10...	--	--	*<13*	*<10*	*<3.2*	--	*<1*	--	--	--	--	--	--
10...	17	--	<13	<10	E1.8	--	<1	<.004	<.002	<.005	<.007	<.010	<.041
AUG													
23...	19	<2.0	<13	<10	E1.9	.11	2	<.004	<.002	<.005	<.007	<.010	<.041
01438302 VANDERMARK CREEK AT MOUTH AT MILFORD, PA (LAT 41 19 20N LONG 074 47 44W)													
MAY 2001													
08...	62	<2.0	<13	M	<3.2	.02	1	<.004	<.002	<.005	<.007	<.010	<.041
AUG													
21...	104	<2.0	20	<10	<3.0	--	<1	<.004	<.002	<.005	<.007	<.010	<.041
01438396 SAWKILL CREEK 2000 FT AB MOUTH AT MILFORD, PA (LAT 41 19 08N LONG 074 48 10W)													
MAY 2001													
08...	74	<2.0	<13	20	E1.9	--	<1	<.004	<.002	<.005	<.007	<.010	<.041
AUG													
21...	95	<2.0	E12	<10	3.3	--	<1	<.004	<.002	<.005	<.007	<.010	<.041
01438399 SHIMERS BROOK AT MILLVILLE ROAD NEAR MONTAGUE NJ (LAT 41 18 47N LONG 074 46 44W)													
MAY 2001													
08...	168	6.1	<13	20	3.6	.09	8	<.004	<.002	<.005	E.002	<.010	<.041
AUG													
21...	239	<2.0	15	<10	E2.9	.07	16	<.004	<.002	<.005	<.007	<.010	<.041
01438712 RAYMONDSKILL CR BL SWALE BROOK NR SILVER SPRING PA (LAT 41 18 19N LONG 074 51 05W)													
MAY 2001													
07...	58	2.3	<13	100	27.0	.07	2	<.004	<.002	<.005	E.002	<.010	<.041
AUG													
21...	56	<2.0	E7	90	6.5	.03	2	<.004	<.002	<.005	<.007	<.010	<.041
01438890 DINGMANS CR BL FULMER FALLS NR DINGMANS FERRY, PA (LAT 41 13 52N LONG 074 54 37W)													
MAY 2001													
07...	37	<2.0	<13	60	16.2	.15	8	.164	.023	<.005	.023	<.010	E.007
AUG													
20...	51	<2.0	E9	M	33.6	.00	3	<.004	<.002	<.005	<.007	<.010	<.041
01439400 TOMS CREEK AT EGYPT MILLS, PA (LAT 41 07 33N LONG 074 57 20W)													
MAY 2001													
07...	48	<2.0	<13	M	E2.4	--	<1	<.004	<.002	<.005	<.007	<.010	<.041
AUG													
20...	50	<2.0	E7	<10	E2.2	--	<1	<.004	<.002	<.005	<.007	<.010	<.041

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
01433510 MONGAUP RIVER AT MONGAUP NY (LAT 41 25 36N LONG 074 45 22W)													
MAY 2001													
09...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
AUG													
23...	*<.020*	*<.005*	*<.003*	*<.005*	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*	*<.013*	*<.006*	*<.002*
23...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.002
01435000 NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)													
OCT 2000													
16...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
MAY 2001													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
AUG													
23...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
01438302 VANDERMARK CREEK AT MOUTH AT MILFORD, PA (LAT 41 19 20N LONG 074 47 44W)													
MAY 2001													
08...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
AUG													
21...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
01438396 SAWKILL CREEK 2000 FT AB MOUTH AT MILFORD, PA (LAT 41 19 08N LONG 074 48 10W)													
MAY 2001													
08...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
AUG													
21...	<.025	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
01438399 SHIMERS BROOK AT MILLVILLE ROAD NEAR MONTAGUE NJ (LAT 41 18 47N LONG 074 46 44W)													
MAY 2001													
08...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
AUG													
21...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
01438712 RAYMONDSKILL CR BL SWALE BROOK NR SILVER SPRING PA (LAT 41 18 19N LONG 074 51 05W)													
MAY 2001													
07...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
AUG													
21...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
01438890 DINGMANS CR BL FULMER FALLS NR DINGMANS FERRY, PA (LAT 41 13 52N LONG 074 54 37W)													
MAY 2001													
07...	E.045	<.005	<.003	E.002	<.005	<.002	<.004	<.035	<.027	<.050	.021	<.006	<.002
AUG													
20...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
01439400 TOMS CREEK AT EGYPT MILLS, PA (LAT 41 07 33N LONG 074 57 20W)													
MAY 2001													
07...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
AUG													
20...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
01433510 MONGAUP RIVER AT MONGAUP NY (LAT 41 25 36N LONG 074 45 22W)							
MAY 2001							
09...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
AUG							
23...	*<.007*	*<.003*	*<.010*	*<.016*	*<.034*	*<.005*	*<.009*
23...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
01435000 NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)							
OCT 2000							
16...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
MAY 2001							
10...	--	--	--	--	--	--	--
10...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
AUG							
23...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
01438302 VANDERMARK CREEK AT MOUTH AT MILFORD, PA (LAT 41 19 20N LONG 074 47 44W)							
MAY 2001							
08...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
AUG							
21...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
01438396 SAWKILL CREEK 2000 FT AB MOUTH AT MILFORD, PA (LAT 41 19 08N LONG 074 48 10W)							
MAY 2001							
08...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
AUG							
21...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
01438399 SHIMERS BROOK AT MILLVILLE ROAD NEAR MONTAGUE NJ (LAT 41 18 47N LONG 074 46 44W)							
MAY 2001							
08...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
AUG							
21...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
01438712 RAYMONDSKILL CR BL SWALE BROOK NR SILVER SPRING PA (LAT 41 18 19N LONG 074 51 05W)							
MAY 2001							
07...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
AUG							
21...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
01438890 DINGMANS CR BL FULMER FALLS NR DINGMANS FERRY, PA (LAT 41 13 52N LONG 074 54 37W)							
MAY 2001							
07...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
AUG							
20...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
01439400 TOMS CREEK AT EGYPT MILLS, PA (LAT 41 07 33N LONG 074 57 20W)							
MAY 2001							
07...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
AUG							
20...	<.007	<.003	<.010	<.016	<.034	<.005	<.009

< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
01439680 LITTLE BUSHKILL CREEK AT BUSHKILL, PA (LAT 41 05 52N LONG 075 00 15W)												
MAY 2001												
08...	1640	ENVIRONMENTAL	22	762	115	11.9	6.9	51	21.0	13.7	14	3.48
AUG												
20...	1050	ENVIRONMENTAL	3.9	752	105	9.5	6.9	61	31.0	19.7	18	4.31
01440000 FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)												
MAY 2001												
10...	*1618*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	--
10...	*1619*	*FIELD BLANK*	--	--	--	--	--	--	--	--	--	*E.01*
10...	1620	ENVIRONMENTAL	55	757	100	9.3	8.0	235	30.5	18.4	87	25.6
AUG												
23...	1550	ENVIRONMENTAL	13	755	104	9.4	8.1	285	20.0	19.6	110	32.3
01440304 BRODHEAD CREEK NEAR MOUNTAINHOME, PA (LAT 41 09 49N LONG 075 14 24W)												
MAY 2001												
15...	0950	ENVIRONMENTAL	28	737	101	11.0	6.9	73	17.0	10.3	19	5.22
AUG												
21...	1110	ENVIRONMENTAL	11	737	104	9.7	7.3	87	24.0	17.4	21	5.78
01442550 MARSHALLS CREEK NEAR MARSHALLS CREEK, PA (LAT 41 04 09N LONG 075 08 24W)												
MAY 2001												
15...	1150	ENVIRONMENTAL	6.2	740	100	10.6	7.2	82	18.0	11.2	25	7.59
AUG												
21...	0910	ENVIRONMENTAL	1.6	743	96	8.9	7.2	92	21.0	17.8	29	8.48
01447120 LEHIGH RIVER NEAR GOULDSBORO, PA (LAT 41 14 13N LONG 075 30 04W)												
MAY 2001												
08...	1050	ENVIRONMENTAL	22	720	106	10.0	6.9	74	20.0	15.4	16	4.91
AUG												
21...	1600	ENVIRONMENTAL	6.9	714	102	8.6	7.3	75	21.0	20.2	19	5.96
01447530 TOBYHANNA CREEK AT WARNERTOWN, PA (LAT 41 09 42N LONG 075 27 21W)												
MAY 2001												
08...	0850	ENVIRONMENTAL	26	722	108	10.8	7.1	135	12.0	12.7	19	5.88
AUG												
21...	1740	ENVIRONMENTAL	9.1	713	101	8.6	7.3	127	22.5	20.0	22	6.78
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 12N LONG 074 41 05W)												
OCT 2000												
03...	1220	ENVIRONMENTAL	169	761	105	10.3	4.4	48	22.5	16.2	7	1.63
MAY 2001												
16...	0920	ENVIRONMENTAL	80	757	90	8.7	5.9	57	14.5	16.6	9	2.23
AUG												
29...	0940	ENVIRONMENTAL	52	761	83	7.1	6.3	53	29.5	23.2	9	2.07

E Estimated value.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)
01439680 LITTLE BUSHKILL CREEK AT BUSHKILL, PA (LAT 41 05 52N LONG 075 00 15W)													
MAY 2001													
08...	1.25	.27	3.5	--	--	6.0	<.2	2.1	6.6	.16	.18	<.041	.24
AUG													
20...	1.65	.42	4.1	9	11	7.1	<.2	3.9	5.8	.12	.23	<.040	.36
01440000 FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)													
MAY 2001													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	*<.008*	*<.09*	*<.1*	--	--	*<.1*	*<.2*	*<.1*	*<.1*	*<.10*	*<.08*	*<.041*	--
10...	5.52	.50	10.5	73	89	18.3	<.2	4.0	13.3	.10	.17	<.041	.29
AUG													
23...	8.16	.62	11.2	92	112	20.9	<.2	3.4	19.3	.10	.10	<.040	--
01440304 BRODHEAD CREEK NEAR MOUNTAINHOME, PA (LAT 41 09 49N LONG 075 14 24W)													
MAY 2001													
15...	1.42	.43	5.7	9	11	10	<.2	3.5	6.4	E.05	.09	<.041	.35
AUG													
21...	1.69	.47	7.0	12	14	12.3	<.2	3.4	6.4	E.08	E.08	<.040	--
01442550 MARSHALLS CREEK NEAR MARSHALLS CREEK, PA (LAT 41 04 09N LONG 075 08 24W)													
MAY 2001													
15...	1.57	.38	5.1	11	13	8.2	<.2	6.1	10.3	<.10	.23	<.040	.49
AUG													
21...	1.84	.38	5.4	16	20	9.9	<.2	7.9	9.1	E.07	.15	<.040	.31
01447120 LEHIGH RIVER NEAR GOULDSBORO, PA (LAT 41 14 13N LONG 075 30 04W)													
MAY 2001													
08...	.840	.47	6.0	5	7	11.2	<.2	.7	6.2	E.10	.21	<.041	.31
AUG													
21...	1.06	.31	6.0	9	10	11.8	<.2	1.8	4.7	.17	.23	<.040	.31
01447530 TOBYHANNA CREEK AT WARNERTOWN, PA (LAT 41 09 42N LONG 075 27 21W)													
MAY 2001													
08...	1.06	.67	15.7	5	6	26.9	<.2	.6	9.4	E.10	.20	<.041	.44
AUG													
21...	1.32	.88	14.3	12	15	24.0	<.2	1.2	8.0	.21	.26	<.040	.44
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 12N LONG 074 41 05W)													
OCT 2000													
03...	.661	.73	3.3	<1	--	5.8	<.1	4.0	6.4	.27	.35	.026	.40
MAY 2001													
16...	.918	1.20	5.0	0	M	7.7	<.2	3.5	8.3	.23	.44	<.041	.50
AUG													
29...	.898	1.05	4.7	--	--	7.4	<.2	4.0	6.5	.19	.28	<.040	--

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, PARTICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
01439680 LITTLE BUSHKILL CREEK AT BUSHKILL, PA (LAT 41 05 52N LONG 075 00 15W)													
MAY 2001													
08...	.21	.057	E.003	--	--	.010	<.018	.015	--	--	3.9	--	42
AUG													
20...	.25	.127	<.006	--	--	.011	<.020	.015	--	--	3.0	--	41
01440000 FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)													
MAY 2001													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	*<.047*	*.006*	--	--	*<.006*	*<.018*	*<.004*	--	--	--	--	*<10*
10...	.21	.111	.009	--	.036	.006	<.018	.014	.3	M	1.8	E.3	140
AUG													
23...	--	<.050	<.006	--	--	E.004	<.020	.006	--	--	1.4	--	165
01440304 BRODHEAD CREEK NEAR MOUNTAINHOME, PA (LAT 41 09 49N LONG 075 14 24W)													
MAY 2001													
15...	--	.254	.007	--	--	.012	E.013	.012	--	--	1.3	--	51
AUG													
21...	--	.257	<.006	--	--	.012	E.010	.015	--	--	.94	--	49
01442550 MARSHALLS CREEK NEAR MARSHALLS CREEK, PA (LAT 41 04 09N LONG 075 08 24W)													
MAY 2001													
15...	--	.267	.007	--	--	.021	.022	.028	--	--	1.6	--	60
AUG													
21...	--	.158	<.006	--	--	.027	E.017	.041	--	--	2.0	--	62
01447120 LEHIGH RIVER NEAR GOULDSBORO, PA (LAT 41 14 13N LONG 075 30 04W)													
MAY 2001													
08...	--	.100	<.006	--	--	E.004	<.018	.012	--	--	3.4	--	48
AUG													
21...	.25	.084	<.006	--	--	<.006	<.020	.008	--	--	3.9	--	50
01447530 TOBYHANNA CREEK AT WARNERTOWN, PA (LAT 41 09 42N LONG 075 27 21W)													
MAY 2001													
08...	--	.246	.014	--	--	.007	<.018	.014	--	--	3.6	--	76
AUG													
21...	.39	.176	<.006	--	--	.007	<.020	.014	--	--	4.6	--	76
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 12N LONG 074 41 05W)													
OCT 2000													
03...	.33	.051	<.010	.32	--	.010	<.010	.034	--	--	9.5	.9	43
MAY 2001													
16...	.29	.059	<.006	--	.106	.009	<.018	.054	1.4	<.1	7.7	1.4	43
AUG													
29...	--	E.065	<.006	--	.140	.009	<.020	.043	1.1	<.1	5.0	1.0	34

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
01439680 LITTLE BUSHKILL CREEK AT BUSHKILL, PA (LAT 41 05 52N LONG 075 00 15W)													
MAY 2001													
08...	28	2.6	<13	50	8.9	.34	6	<.004	<.002	<.005	E.003	<.010	<.041
AUG													
20...	33	<2.0	E6	30	14.6	--	<1	<.004	<.002	<.005	<.007	<.010	<.041
01440000 FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)													
MAY 2001													
10...	--	--	*--*	*--*	*--*	*--*	*--*	*<.004*	*<.002*	*<.005*	*<.007*	*<.010*	*<.041*
10...	--	--	*<13*	*<10*	*<3.2*	*--*	*--*	--	--	--	--	--	--
10...	122	<2.0	E10	50	12.6	.21	1	<.004	<.002	<.005	E.003	<.010	<.041
AUG													
23...	151	<2.0	E13	20	<3.0	.05	1	<.004	<.002	<.005	<.007	<.010	<.041
01440304 BRODHEAD CREEK NEAR MOUNTAINHOME, PA (LAT 41 09 49N LONG 075 14 24W)													
MAY 2001													
15...	39	<2.0	E9	10	5.8	--	<1	<.004	<.002	<.005	E.002	<.010	<.041
AUG													
21...	45	<2.0	E12	M	E2.0	--	<1	<.004	<.002	<.005	<.007	<.010	<.041
01442550 MARSHALLS CREEK NEAR MARSHALLS CREEK, PA (LAT 41 04 09N LONG 075 08 24W)													
MAY 2001													
15...	47	2.5	E7	M	4.2	.05	3	<.004	<.002	<.005	<.007	<.010	<.041
AUG													
21...	53	2.4	E11	10	5.9	.01	3	<.004	<.002	<.005	<.007	<.010	<.041
01447120 LEHIGH RIVER NEAR GOULDSBORO, PA (LAT 41 14 13N LONG 075 30 04W)													
MAY 2001													
08...	34	--	E10	80	27.5	.12	2	<.004	<.002	<.005	.009	<.010	<.041
AUG													
21...	37	<2.0	E12	110	15.0	.02	1	<.004	<.002	<.005	E.002	<.010	<.041
01447530 TOBYHANNA CREEK AT WARNERTOWN, PA (LAT 41 09 42N LONG 075 27 21W)													
MAY 2001													
08...	65	--	E10	80	16.4	.26	4	<.004	<.002	<.005	E.004	<.010	<.041
AUG													
21...	65	<2.0	16	70	14.1	.02	1	<.004	<.002	<.005	<.007	<.010	<.041
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 12N LONG 074 41 05W)													
OCT 2000													
03...	--	2.6	E12	780	16.5	1.7	4	<.004	<.002	<.005	<.007	<.010	<.041
MAY 2001													
16...	30	4.1	13	480	23.2	.43	2	<.004	<.002	<.005	E.003	<.010	E.007
AUG													
29...		5.0	19	560	18.6	.51	4	<.004	<.002	<.005	<.007	<.010	E.012

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
01439680 LITTLE BUSHKILL CREEK AT BUSHKILL, PA (LAT 41 05 52N LONG 075 00 15W)													
MAY 2001													
08...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
AUG													
20...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
01440000 FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)													
MAY 2001													
10...	*<.020*	*<.005*	*<.003*	*<.005*	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*	*<.013*	*<.006*	*<.002*
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
AUG													
23...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
01440304 BRODHEAD CREEK NEAR MOUNTAINHOME, PA (LAT 41 09 49N LONG 075 14 24W)													
MAY 2001													
15...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
AUG													
21...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
01442550 MARSHALLS CREEK NEAR MARSHALLS CREEK, PA (LAT 41 04 09N LONG 075 08 24W)													
MAY 2001													
15...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
AUG													
21...	<.020	<.005	<.003	<.005	<.005	<.004	<.004	<.035	<.027	<.050	<.013	<.006	<.002
01447120 LEHIGH RIVER NEAR GOULDSBORO, PA (LAT 41 14 13N LONG 075 30 04W)													
MAY 2001													
08...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002
AUG													
21...	<.020	<.005	<.003	<.005	<.005	<.004	<.004	<.035	<.027	<.050	<.013	<.006	<.002
01447530 TOBYHANNA CREEK AT WARNERTOWN, PA (LAT 41 09 42N LONG 075 27 21W)													
MAY 2001													
08...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
AUG													
21...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 12N LONG 074 41 05W)													
OCT 2000													
03...	<.020	E.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
MAY 2001													
16...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002
AUG													
29...	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
01439680 LITTLE BUSHKILL CREEK AT BUSHKILL, PA (LAT 41 05 52N LONG 075 00 15W)							
MAY 2001							
08...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
AUG							
20...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
01440000 FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)							
MAY 2001							
10...	*<.007*	*<.003*	*<.010*	*<.016*	*<.034*	*<.005*	*<.009*
10...	--	--	--	--	--	--	--
10...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
AUG							
23...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
01440304 BRODHEAD CREEK NEAR MOUNTAINHOME, PA (LAT 41 09 49N LONG 075 14 24W)							
MAY 2001							
15...	<.007	E.001	<.010	<.016	<.034	<.005	<.009
AUG							
21...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
01442550 MARSHALLS CREEK NEAR MARSHALLS CREEK, PA (LAT 41 04 09N LONG 075 08 24W)							
MAY 2001							
15...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
AUG							
21...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
01447120 LEHIGH RIVER NEAR GOULDSBORO, PA (LAT 41 14 13N LONG 075 30 04W)							
MAY 2001							
08...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
AUG							
21...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
01447530 TOBYHANNA CREEK AT WARNERTOWN, PA (LAT 41 09 42N LONG 075 27 21W)							
MAY 2001							
08...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
AUG							
21...	<.007	<.003	<.010	<.016	<.034	<.005	<.009
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 12N LONG 074 41 05W)							
OCT 2000							
03...	.007	<.003	<.010	E.006	E.041	<.005	<.009
MAY 2001							
16...	<.007	<.003	<.010	E.006	<.034	<.005	<.009
AUG							
29...	<.007	<.003	<.010	<.016	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

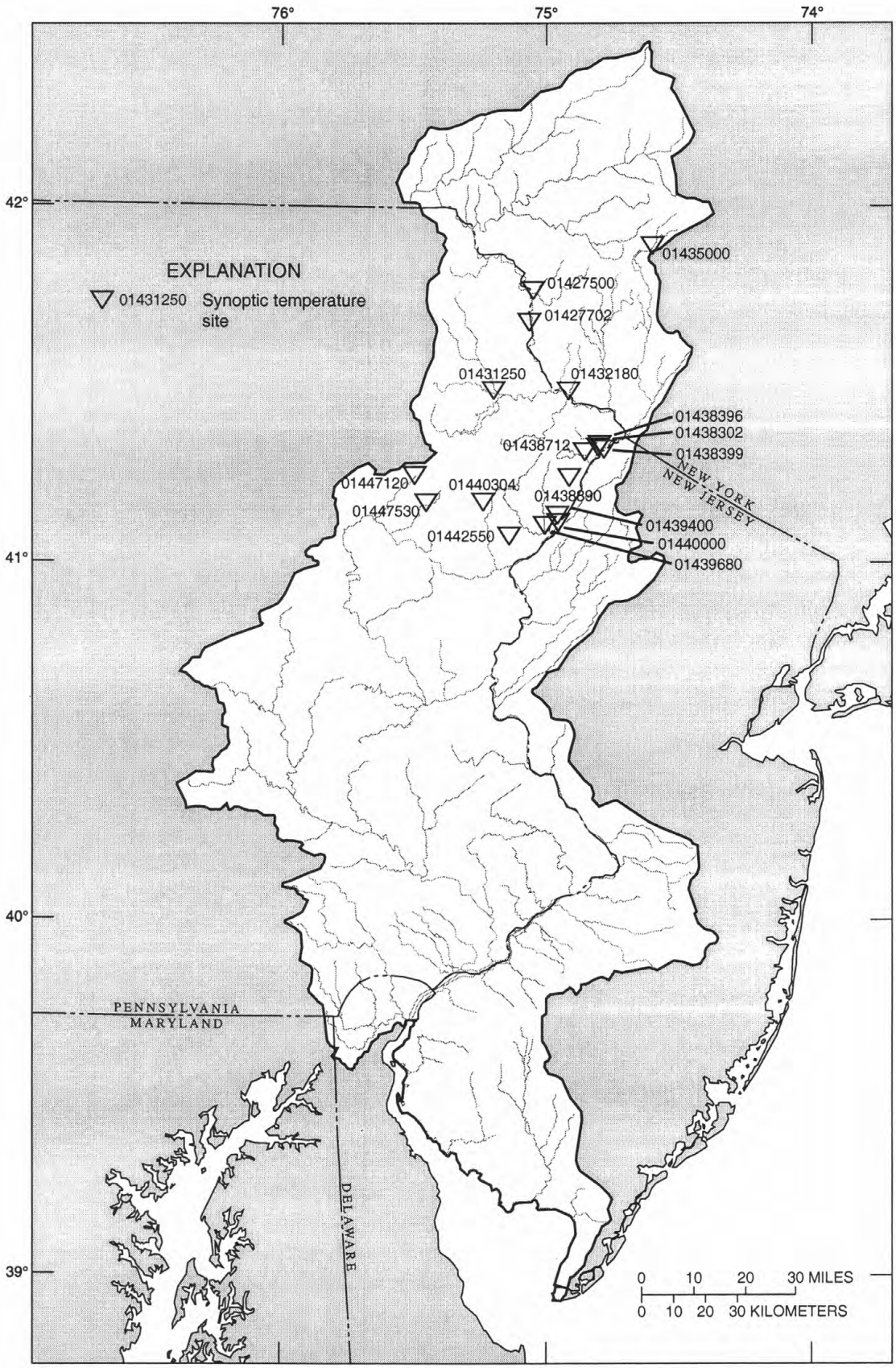


Figure 60. Location of sites in the Delaware River Basin National Water-Quality Assessment Program, water temperature synoptic study, water year 2001.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA

Continous water-temperature data were collected at the Delaware River Basin National Water-Quality Assessment (DELR NAWQA) synoptic sites from August 1 through September 19, 2001. These data were collected to coincide with ecological data that were being collected during that time frame at most of these sites. Each site was instrumented with an, in situ, submersible, water-temperature logger that was programmed to record every 30 minutes. Additional water-quality data collected as part of the DELR NAWQA synoptic study are listed in "Water Quality at Miscellaneous Surface-Water Sites."

01427500 CALLICOON CREEK AT CALLICOON, NY (LAT 41 45 39N LONG 07502 55W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	22.5	18.0	20.5
2	---	---	---	---	---	---	25.5	18.5	21.5	21.0	15.0	17.5
3	---	---	---	---	---	---	23.5	20.0	21.5	21.5	14.0	17.5
4	---	---	---	---	---	---	24.5	20.0	22.0	20.0	16.0	17.5
5	---	---	---	---	---	---	25.5	20.0	22.5	21.0	15.0	17.5
6	---	---	---	---	---	---	26.5	19.5	22.5	20.5	13.5	16.5
7	---	---	---	---	---	---	27.0	20.5	23.0	21.0	14.0	17.0
8	---	---	---	---	---	---	26.0	21.0	23.0	21.5	15.0	18.0
9	---	---	---	---	---	---	27.5	20.5	23.0	23.0	17.0	19.0
10	---	---	---	---	---	---	23.5	21.5	22.5	20.5	18.0	19.0
11	---	---	---	---	---	---	22.5	20.0	21.5	21.5	16.5	18.5
12	---	---	---	---	---	---	21.5	20.0	21.0	21.0	14.5	17.0
13	---	---	---	---	---	---	23.0	20.5	21.5	20.5	14.5	17.0
14	---	---	---	---	---	---	23.0	19.0	21.0	18.0	14.0	16.0
15	---	---	---	---	---	---	24.0	18.0	21.0	17.5	11.5	14.0
16	---	---	---	---	---	---	23.5	18.5	21.0	18.0	11.5	14.0
17	---	---	---	---	---	---	23.5	20.0	21.5	---	---	---
18	---	---	---	---	---	---	22.0	18.5	20.0	---	---	---
19	---	---	---	---	---	---	23.5	18.5	20.5	---	---	---
20	---	---	---	---	---	---	24.5	20.0	21.5	---	---	---
21	---	---	---	---	---	---	22.0	18.5	20.5	---	---	---
22	---	---	---	---	---	---	24.0	17.5	20.0	---	---	---
23	---	---	---	---	---	---	19.5	17.0	18.0	---	---	---
24	---	---	---	---	---	---	23.0	17.0	19.5	---	---	---
25	---	---	---	---	---	---	23.5	16.0	19.0	---	---	---
26	---	---	---	---	---	---	22.5	17.0	19.5	---	---	---
27	---	---	---	---	---	---	21.5	19.0	20.0	---	---	---
28	---	---	---	---	---	---	22.0	17.0	19.0	---	---	---
29	---	---	---	---	---	---	23.5	18.0	20.0	---	---	---
30	---	---	---	---	---	---	20.5	16.5	18.5	---	---	---
31	---	---	---	---	---	---	23.5	18.5	20.5	---	---	---
MONTH	---	---	---	---	---	---	27.5	16.0	20.9	---	---	---

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA,--Continued

01427702 CALKINS CREEK 1200 FEET ABOVE MOUTH AT MILANVILLE, PA (LAT 41 40 22N LONG 075 03 53W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	20.5	19.0	20.0
2	---	---	---	---	---	---	21.5	18.0	20.0	19.0	16.5	17.5
3	---	---	---	---	---	---	22.0	19.5	20.5	18.5	16.0	17.0
4	---	---	---	---	---	---	22.0	20.5	21.0	18.5	16.5	17.5
5	---	---	---	---	---	---	23.0	20.0	21.5	---	---	---
6	---	---	---	---	---	---	22.5	20.0	21.0	---	---	---
7	---	---	---	---	---	---	23.0	20.5	21.5	---	---	---
8	---	---	---	---	---	---	23.5	21.0	22.5	---	---	---
9	---	---	---	---	---	---	23.5	20.5	22.0	---	---	---
10	---	---	---	---	---	---	23.0	21.5	22.0	---	---	---
11	---	---	---	---	---	---	22.0	20.5	21.0	---	---	---
12	---	---	---	---	---	---	21.5	20.5	21.0	---	---	---
13	---	---	---	---	---	---	22.0	21.0	21.5	---	---	---
14	---	---	---	---	---	---	21.5	19.5	20.5	---	---	---
15	---	---	---	---	---	---	21.5	18.5	20.0	---	---	---
16	---	---	---	---	---	---	21.5	19.0	20.0	---	---	---
17	---	---	---	---	---	---	21.5	20.0	20.5	---	---	---
18	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
19	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
20	---	---	---	---	---	---	21.5	20.0	20.5	---	---	---
21	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
22	---	---	---	---	---	---	20.5	18.5	19.5	---	---	---
23	---	---	---	---	---	---	20.0	18.0	18.5	---	---	---
24	---	---	---	---	---	---	20.5	18.0	19.0	---	---	---
25	---	---	---	---	---	---	20.0	17.5	19.0	---	---	---
26	---	---	---	---	---	---	20.0	18.0	19.0	---	---	---
27	---	---	---	---	---	---	20.0	19.0	19.5	---	---	---
28	---	---	---	---	---	---	20.0	18.5	19.0	---	---	---
29	---	---	---	---	---	---	20.0	18.5	19.0	---	---	---
30	---	---	---	---	---	---	19.5	17.5	18.5	---	---	---
31	---	---	---	---	---	---	20.5	18.5	19.5	---	---	---
MONTH	---	---	---	---	---	---	23.5	17.5	20.5	---	---	---

01431250 MIDDLE CREEK AT HAWLEY, PA (LAT 41 28 49N LONG 075 12 03W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	22.5	19.5	21.0
2	---	---	---	---	---	---	26.5	20.5	23.5	22.0	17.5	19.5
3	---	---	---	---	---	---	27.0	22.0	24.5	21.5	16.0	18.5
4	---	---	---	---	---	---	26.0	22.5	24.0	19.5	17.0	18.5
5	---	---	---	---	---	---	27.5	22.5	25.0	20.5	16.5	18.5
6	---	---	---	---	---	---	28.0	22.5	25.5	20.5	14.5	18.0
7	---	---	---	---	---	---	28.5	23.5	26.0	21.5	15.0	18.5
8	---	---	---	---	---	---	29.5	23.5	26.5	22.0	16.5	19.5
9	---	---	---	---	---	---	29.5	23.0	26.5	22.5	17.5	20.0
10	---	---	---	---	---	---	27.0	25.0	26.0	22.0	19.5	20.5
11	---	---	---	---	---	---	25.0	22.0	23.5	21.0	17.0	19.0
12	---	---	---	---	---	---	24.0	22.0	23.0	20.5	15.5	18.5
13	---	---	---	---	---	---	26.0	22.5	24.0	21.0	15.5	18.5
14	---	---	---	---	---	---	25.5	21.5	23.5	19.0	15.5	17.5
15	---	---	---	---	---	---	25.0	20.0	22.5	17.5	13.0	15.5
16	---	---	---	---	---	---	25.0	20.0	22.5	18.0	12.5	15.5
17	---	---	---	---	---	---	24.5	22.0	23.0	18.0	12.5	15.5
18	---	---	---	---	---	---	24.0	19.5	22.0	---	---	---
19	---	---	---	---	---	---	24.0	19.5	22.0	---	---	---
20	---	---	---	---	---	---	25.0	21.5	23.0	---	---	---
21	---	---	---	---	---	---	23.5	19.5	22.0	---	---	---
22	---	---	---	---	---	---	23.5	18.5	21.5	---	---	---
23	---	---	---	---	---	---	21.0	18.5	20.0	---	---	---
24	---	---	---	---	---	---	23.0	18.5	21.0	---	---	---
25	---	---	---	---	---	---	23.0	17.5	20.5	---	---	---
26	---	---	---	---	---	---	23.0	18.0	21.0	---	---	---
27	---	---	---	---	---	---	22.0	20.5	21.0	---	---	---
28	---	---	---	---	---	---	23.5	18.5	21.0	---	---	---
29	---	---	---	---	---	---	23.5	19.0	21.0	---	---	---
30	---	---	---	---	---	---	22.0	17.5	19.5	---	---	---
31	---	---	---	---	---	---	23.5	19.0	21.5	---	---	---
MONTH	---	---	---	---	---	---	29.5	17.5	22.9	---	---	---

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA,--Continued

01432180 HALFWAY BROOK AT BARRYVILLE, NY (LAT 41 28 38N LONG 074 54 39W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	20.5	17.0	19.0
2	---	---	---	---	---	---	21.5	17.5	19.0	18.0	14.5	16.0
3	---	---	---	---	---	---	22.0	18.5	20.0	18.0	13.5	15.5
4	---	---	---	---	---	---	22.0	19.5	20.5	16.5	14.5	15.5
5	---	---	---	---	---	---	23.0	19.5	20.5	17.5	14.5	15.5
6	---	---	---	---	---	---	23.5	19.5	21.0	17.0	13.0	15.0
7	---	---	---	---	---	---	24.0	20.0	21.5	17.5	13.0	15.5
8	---	---	---	---	---	---	24.0	20.5	22.0	18.5	14.0	16.5
9	---	---	---	---	---	---	24.5	20.5	22.0	19.0	15.5	17.0
10	---	---	---	---	---	---	23.5	21.0	22.0	18.5	17.0	17.5
11	---	---	---	---	---	---	22.0	20.0	20.5	18.5	15.5	17.0
12	---	---	---	---	---	---	20.5	19.5	20.0	17.5	14.0	15.5
13	---	---	---	---	---	---	22.0	19.5	20.5	17.5	14.0	15.5
14	---	---	---	---	---	---	21.5	19.0	20.0	16.5	13.5	15.0
15	---	---	---	---	---	---	21.5	18.0	19.5	14.5	11.5	13.0
16	---	---	---	---	---	---	21.5	17.5	19.5	14.5	11.0	13.0
17	---	---	---	---	---	---	21.0	19.0	19.5	15.0	11.5	13.0
18	---	---	---	---	---	---	20.5	17.5	19.0	14.5	11.5	13.0
19	---	---	---	---	---	---	21.0	17.5	19.0	---	---	---
20	---	---	---	---	---	---	21.5	18.5	20.0	---	---	---
21	---	---	---	---	---	---	20.0	17.5	19.0	---	---	---
22	---	---	---	---	---	---	20.5	16.5	18.5	---	---	---
23	---	---	---	---	---	---	18.0	16.0	17.0	---	---	---
24	---	---	---	---	---	---	20.0	16.5	18.0	---	---	---
25	---	---	---	---	---	---	20.0	16.0	18.0	---	---	---
26	---	---	---	---	---	---	20.0	16.0	18.0	---	---	---
27	---	---	---	---	---	---	18.5	17.5	18.0	---	---	---
28	---	---	---	---	---	---	20.5	17.5	18.5	---	---	---
29	---	---	---	---	---	---	20.0	17.0	18.0	---	---	---
30	---	---	---	---	---	---	18.0	15.5	17.0	---	---	---
31	---	---	---	---	---	---	20.5	17.0	18.5	---	---	---
MONTH	---	---	---	---	---	---	24.5	15.5	19.5	---	---	---

01435000 NEVERSINK RIVER NEAR CLARYVILLE, NY (LAT 41 53 24N LONG 074 35 25W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	20.5	15.5	17.5
2	---	---	---	---	---	---	---	---	---	19.5	13.0	15.5
3	---	---	---	---	---	---	---	---	---	20.0	12.5	15.5
4	---	---	---	---	---	---	---	---	---	18.0	14.5	16.0
5	---	---	---	---	---	---	---	---	---	20.0	14.0	16.0
6	---	---	---	---	---	---	---	---	---	19.5	12.5	15.5
7	---	---	---	---	---	---	22.0	16.5	19.0	20.5	13.0	16.0
8	---	---	---	---	---	---	23.0	16.5	19.0	20.5	13.5	16.5
9	---	---	---	---	---	---	24.0	16.5	19.5	20.0	14.5	17.0
10	---	---	---	---	---	---	20.5	17.5	19.0	17.5	15.5	16.5
11	---	---	---	---	---	---	20.0	16.0	18.0	19.5	13.5	16.0
12	---	---	---	---	---	---	18.0	16.5	17.0	19.5	13.0	15.5
13	---	---	---	---	---	---	20.0	16.5	18.0	19.0	13.0	15.5
14	---	---	---	---	---	---	20.0	16.0	17.5	16.0	13.5	14.5
15	---	---	---	---	---	---	21.0	14.5	17.0	17.5	11.0	13.5
16	---	---	---	---	---	---	20.0	15.5	17.5	18.0	11.0	14.0
17	---	---	---	---	---	---	20.5	16.5	17.5	18.0	11.5	14.0
18	---	---	---	---	---	---	19.5	15.5	17.0	17.5	12.0	14.5
19	---	---	---	---	---	---	20.5	15.5	17.5	17.0	12.5	14.5
20	---	---	---	---	---	---	20.0	16.5	17.5	---	---	---
21	---	---	---	---	---	---	19.0	15.0	17.0	---	---	---
22	---	---	---	---	---	---	21.0	14.5	17.0	---	---	---
23	---	---	---	---	---	---	16.5	14.5	16.0	---	---	---
24	---	---	---	---	---	---	21.0	15.0	17.5	---	---	---
25	---	---	---	---	---	---	21.0	14.0	17.0	---	---	---
26	---	---	---	---	---	---	20.0	15.0	17.0	---	---	---
27	---	---	---	---	---	---	19.0	16.0	17.0	---	---	---
28	---	---	---	---	---	---	20.0	14.5	16.5	---	---	---
29	---	---	---	---	---	---	20.0	14.5	16.5	---	---	---
30	---	---	---	---	---	---	17.0	14.0	15.5	---	---	---
31	---	---	---	---	---	---	21.0	15.5	17.5	---	---	---
MONTH	---	---	---	---	---	---	24.0	14.0	17.5	---	---	---

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA,--Continued

01438302 VANDERMARK CREEK AT MOUTH AT MILFORD, PA (LAT 41 19 20N LONG 074 47 44W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	18.0	14.5	16.0	---	---	---
2	---	---	---	---	---	---	19.0	15.5	17.0	---	---	---
3	---	---	---	---	---	---	19.0	16.5	17.5	---	---	---
4	---	---	---	---	---	---	18.0	16.5	17.5	---	---	---
5	---	---	---	---	---	---	19.0	16.5	17.5	---	---	---
6	---	---	---	---	---	---	20.0	17.0	18.0	---	---	---
7	---	---	---	---	---	---	21.0	17.5	19.0	---	---	---
8	---	---	---	---	---	---	21.0	18.0	19.5	---	---	---
9	---	---	---	---	---	---	21.5	18.0	19.5	---	---	---
10	---	---	---	---	---	---	20.5	19.0	20.0	---	---	---
11	---	---	---	---	---	---	19.5	17.5	18.0	---	---	---
12	---	---	---	---	---	---	18.0	17.0	17.5	---	---	---
13	---	---	---	---	---	---	19.0	17.5	18.0	---	---	---
14	---	---	---	---	---	---	19.0	17.5	18.0	---	---	---
15	---	---	---	---	---	---	18.5	16.5	17.5	---	---	---
16	---	---	---	---	---	---	18.5	16.0	17.0	---	---	---
17	---	---	---	---	---	---	18.5	17.0	17.5	---	---	---
18	---	---	---	---	---	---	18.0	15.5	17.0	---	---	---
19	---	---	---	---	---	---	18.0	16.0	17.0	---	---	---
20	---	---	---	---	---	---	19.0	17.0	17.5	---	---	---
21	---	---	---	---	---	---	17.5	16.0	17.0	---	---	---
22	---	---	---	---	---	---	18.0	15.5	16.5	---	---	---
23	---	---	---	---	---	---	16.5	15.0	15.5	---	---	---
24	---	---	---	---	---	---	17.5	15.0	16.0	---	---	---
25	---	---	---	---	---	---	17.5	14.0	15.5	---	---	---
26	---	---	---	---	---	---	17.5	14.0	16.0	---	---	---
27	---	---	---	---	---	---	17.0	16.0	16.5	---	---	---
28	---	---	---	---	---	---	18.0	15.5	16.5	---	---	---
29	---	---	---	---	---	---	17.5	15.0	16.0	---	---	---
30	---	---	---	---	---	---	16.5	14.5	15.5	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	21.5	14.0	17.5	---	---	---

01438396 SAWKILL CREEK 2000 FEET ABOVE MOUTH AT MILFORD, PA (LAT 41 19 08N LONG 074 48 10W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	20.5	16.5	18.5	---	---	---
2	---	---	---	---	---	---	21.5	17.5	19.5	---	---	---
3	---	---	---	---	---	---	21.5	18.5	20.0	---	---	---
4	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
5	---	---	---	---	---	---	22.0	18.5	20.0	---	---	---
6	---	---	---	---	---	---	22.0	19.0	20.5	---	---	---
7	---	---	---	---	---	---	23.0	19.0	21.0	---	---	---
8	---	---	---	---	---	---	23.5	20.0	21.5	---	---	---
9	---	---	---	---	---	---	23.5	19.5	21.5	---	---	---
10	---	---	---	---	---	---	22.0	20.5	21.5	---	---	---
11	---	---	---	---	---	---	21.0	19.5	20.0	---	---	---
12	---	---	---	---	---	---	20.0	19.0	19.5	---	---	---
13	---	---	---	---	---	---	21.5	19.0	20.0	---	---	---
14	---	---	---	---	---	---	21.5	19.0	20.0	---	---	---
15	---	---	---	---	---	---	21.0	18.0	19.5	---	---	---
16	---	---	---	---	---	---	20.5	17.5	19.0	---	---	---
17	---	---	---	---	---	---	20.5	18.5	19.0	---	---	---
18	---	---	---	---	---	---	20.0	17.0	18.5	---	---	---
19	---	---	---	---	---	---	20.0	17.5	18.5	---	---	---
20	---	---	---	---	---	---	20.5	18.5	19.5	---	---	---
21	---	---	---	---	---	---	19.5	17.5	18.5	---	---	---
22	---	---	---	---	---	---	19.5	17.0	18.5	---	---	---
23	---	---	---	---	---	---	18.5	16.5	17.5	---	---	---
24	---	---	---	---	---	---	19.0	17.0	18.0	---	---	---
25	---	---	---	---	---	---	19.0	15.5	17.5	---	---	---
26	---	---	---	---	---	---	19.0	15.5	17.5	---	---	---
27	---	---	---	---	---	---	18.5	17.0	18.0	---	---	---
28	---	---	---	---	---	---	19.5	17.0	18.0	---	---	---
29	---	---	---	---	---	---	19.0	17.0	18.0	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	23.5	15.5	19.3	---	---	---

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA,--Continued

01438399 SHIMERS BROOK AT MILLVILLE ROAD NEAR MONTAGUE, NJ (LAT 41 18 47N LONG 074 46 44W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	22.0	19.0	20.5	---	---	---
2	---	---	---	---	---	---	22.5	20.0	21.5	---	---	---
3	---	---	---	---	---	---	23.0	21.5	22.0	---	---	---
4	---	---	---	---	---	---	23.0	22.0	22.5	---	---	---
5	---	---	---	---	---	---	23.5	21.5	22.5	---	---	---
6	---	---	---	---	---	---	24.5	22.0	23.5	---	---	---
7	---	---	---	---	---	---	25.0	23.0	24.5	---	---	---
8	---	---	---	---	---	---	25.0	23.0	24.5	---	---	---
9	---	---	---	---	---	---	26.0	23.0	24.5	---	---	---
10	---	---	---	---	---	---	25.0	24.5	25.0	---	---	---
11	---	---	---	---	---	---	25.0	22.0	23.0	---	---	---
12	---	---	---	---	---	---	22.5	21.5	22.0	---	---	---
13	---	---	---	---	---	---	23.5	22.5	23.0	---	---	---
14	---	---	---	---	---	---	24.5	22.0	23.0	---	---	---
15	---	---	---	---	---	---	24.5	21.0	23.0	---	---	---
16	---	---	---	---	---	---	23.5	20.5	22.0	---	---	---
17	---	---	---	---	---	---	22.0	21.0	21.5	---	---	---
18	---	---	---	---	---	---	21.5	19.5	20.5	---	---	---
19	---	---	---	---	---	---	22.0	20.0	21.0	---	---	---
20	---	---	---	---	---	---	23.0	21.5	22.0	---	---	---
21	---	---	---	---	---	---	22.0	20.5	21.5	---	---	---
22	---	---	---	---	---	---	21.5	19.5	20.5	---	---	---
23	---	---	---	---	---	---	20.5	18.5	19.5	---	---	---
24	---	---	---	---	---	---	20.5	19.0	20.0	---	---	---
25	---	---	---	---	---	---	20.5	18.0	19.0	---	---	---
26	---	---	---	---	---	---	20.5	18.0	19.5	---	---	---
27	---	---	---	---	---	---	21.0	20.0	20.5	---	---	---
28	---	---	---	---	---	---	21.5	19.5	20.5	---	---	---
29	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	26.0	18.0	21.8	---	---	---

01438712 RAYMONDS CREEK BELOW SWALE BROOK NEAR SILVER SPRING, PA (LAT 41 18 19N LONG 074 51 05W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

01438890 DINGMANS CREEK BELOW FULMER FALLS NEAR DINGMANS FERRY, PA (LAT 41 13 52N LONG 074 54 37W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	19.5	16.5	18.0	---	---	---
2	---	---	---	---	---	---	19.5	17.0	18.5	---	---	---
3	---	---	---	---	---	---	20.5	18.5	19.5	---	---	---
4	---	---	---	---	---	---	20.5	19.0	20.0	---	---	---
5	---	---	---	---	---	---	21.5	19.0	20.5	---	---	---
6	---	---	---	---	---	---	22.0	20.0	21.0	---	---	---
7	---	---	---	---	---	---	23.0	20.5	21.5	---	---	---
8	---	---	---	---	---	---	23.0	21.0	22.0	---	---	---
9	---	---	---	---	---	---	22.5	20.5	21.5	---	---	---
10	---	---	---	---	---	---	22.0	21.0	21.5	---	---	---
11	---	---	---	---	---	---	21.0	19.5	20.0	---	---	---
12	---	---	---	---	---	---	21.0	19.5	20.0	---	---	---
13	---	---	---	---	---	---	21.5	20.5	21.0	---	---	---
14	---	---	---	---	---	---	21.5	20.0	21.0	---	---	---
15	---	---	---	---	---	---	20.5	18.5	19.5	---	---	---
16	---	---	---	---	---	---	20.0	18.0	19.0	---	---	---
17	---	---	---	---	---	---	20.0	19.0	19.5	---	---	---
18	---	---	---	---	---	---	20.0	18.0	19.0	---	---	---
19	---	---	---	---	---	---	19.5	18.0	18.5	---	---	---
20	---	---	---	---	---	---	20.5	19.0	19.5	---	---	---
21	---	---	---	---	---	---	19.5	17.5	18.5	---	---	---
22	---	---	---	---	---	---	19.0	17.0	18.0	---	---	---
23	---	---	---	---	---	---	18.0	16.5	17.0	---	---	---
24	---	---	---	---	---	---	18.5	17.0	17.5	---	---	---
25	---	---	---	---	---	---	18.0	15.5	17.0	---	---	---
26	---	---	---	---	---	---	18.0	15.5	17.0	---	---	---
27	---	---	---	---	---	---	18.5	17.5	18.0	---	---	---
28	---	---	---	---	---	---	19.0	17.0	18.0	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	23.0	15.5	19.4	---	---	---

01439400 TOMS CREEK AT EGYPT MILLS, PA (LAT 41 07 33N LONG 074 57 20W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	16.5	15.0	16.0	---	---	---
2	---	---	---	---	---	---	17.5	15.5	16.5	---	---	---
3	---	---	---	---	---	---	18.0	16.5	17.0	---	---	---
4	---	---	---	---	---	---	17.5	16.5	17.0	---	---	---
5	---	---	---	---	---	---	17.5	16.0	17.0	---	---	---
6	---	---	---	---	---	---	18.0	16.5	17.5	---	---	---
7	---	---	---	---	---	---	19.0	17.0	18.0	---	---	---
8	---	---	---	---	---	---	18.5	17.5	18.0	---	---	---
9	---	---	---	---	---	---	19.0	17.5	18.0	---	---	---
10	---	---	---	---	---	---	19.0	18.0	18.5	---	---	---
11	---	---	---	---	---	---	18.0	17.0	17.5	---	---	---
12	---	---	---	---	---	---	17.0	16.5	17.0	---	---	---
13	---	---	---	---	---	---	17.5	17.0	17.0	---	---	---
14	---	---	---	---	---	---	17.5	16.5	17.0	---	---	---
15	---	---	---	---	---	---	17.5	16.0	17.0	---	---	---
16	---	---	---	---	---	---	17.5	16.0	16.5	---	---	---
17	---	---	---	---	---	---	18.0	17.0	17.0	---	---	---
18	---	---	---	---	---	---	17.0	16.0	16.5	---	---	---
19	---	---	---	---	---	---	17.0	16.0	16.5	---	---	---
20	---	---	---	---	---	---	18.0	17.0	17.5	---	---	---
21	---	---	---	---	---	---	17.5	16.5	17.0	---	---	---
22	---	---	---	---	---	---	17.0	16.0	16.5	---	---	---
23	---	---	---	---	---	---	16.5	15.5	16.0	---	---	---
24	---	---	---	---	---	---	16.5	15.5	16.0	---	---	---
25	---	---	---	---	---	---	16.5	15.0	16.0	---	---	---
26	---	---	---	---	---	---	16.5	15.0	16.0	---	---	---
27	---	---	---	---	---	---	17.0	16.0	16.5	---	---	---
28	---	---	---	---	---	---	17.5	16.0	17.0	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	19.0	15.0	16.9	---	---	---

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA,--Continued

01439680 LITTLE BUSHKILL CREEK AT BUSHKILL, PA (LAT 41 05 52N LONG 075 00 15W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	19.0	16.0	17.5	---	---	---
2	---	---	---	---	---	---	20.0	17.0	18.5	---	---	---
3	---	---	---	---	---	---	20.0	18.0	19.0	---	---	---
4	---	---	---	---	---	---	20.0	18.5	19.5	---	---	---
5	---	---	---	---	---	---	21.0	18.5	19.5	---	---	---
6	---	---	---	---	---	---	21.5	19.0	20.5	---	---	---
7	---	---	---	---	---	---	22.5	19.5	21.0	---	---	---
8	---	---	---	---	---	---	22.5	20.5	21.5	---	---	---
9	---	---	---	---	---	---	23.0	20.5	21.5	---	---	---
10	---	---	---	---	---	---	22.5	21.5	22.0	---	---	---
11	---	---	---	---	---	---	21.5	19.5	20.5	---	---	---
12	---	---	---	---	---	---	20.5	19.5	20.0	---	---	---
13	---	---	---	---	---	---	21.0	20.5	20.5	---	---	---
14	---	---	---	---	---	---	21.0	19.5	20.0	---	---	---
15	---	---	---	---	---	---	20.5	18.5	19.5	---	---	---
16	---	---	---	---	---	---	20.0	17.5	19.0	---	---	---
17	---	---	---	---	---	---	20.5	19.0	19.5	---	---	---
18	---	---	---	---	---	---	19.5	17.5	18.5	---	---	---
19	---	---	---	---	---	---	19.5	18.0	18.5	---	---	---
20	---	---	---	---	---	---	21.0	19.0	19.5	---	---	---
21	---	---	---	---	---	---	19.5	18.0	18.5	---	---	---
22	---	---	---	---	---	---	19.5	17.0	18.0	---	---	---
23	---	---	---	---	---	---	17.5	16.5	17.0	---	---	---
24	---	---	---	---	---	---	19.0	17.0	18.0	---	---	---
25	---	---	---	---	---	---	19.0	16.0	17.5	---	---	---
26	---	---	---	---	---	---	18.5	15.5	17.0	---	---	---
27	---	---	---	---	---	---	18.5	17.5	18.0	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	23.0	15.5	19.3	---	---	---

01440000 FLAT BROOK AT FLATBROOKVILLE, NJ (Lat 41 06 24N long 74 57 09W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA,--Continued

01440304 BRODHEAD CREEK NEAR MOUNTAINHOME, PA (LAT 41 09 49N LONG 075 14 24W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	20.5	16.0	18.0	---	---	---
3	---	---	---	---	---	---	20.5	17.5	18.5	---	---	---
4	---	---	---	---	---	---	19.0	17.5	18.5	---	---	---
5	---	---	---	---	---	---	20.5	17.5	19.0	---	---	---
6	---	---	---	---	---	---	21.0	18.0	19.5	---	---	---
7	---	---	---	---	---	---	22.0	18.0	20.0	---	---	---
8	---	---	---	---	---	---	22.5	19.0	20.5	---	---	---
9	---	---	---	---	---	---	22.5	18.5	20.5	---	---	---
10	---	---	---	---	---	---	20.5	19.5	20.0	---	---	---
11	---	---	---	---	---	---	19.5	18.0	18.5	---	---	---
12	---	---	---	---	---	---	19.0	17.5	18.0	---	---	---
13	---	---	---	---	---	---	19.5	18.0	18.5	---	---	---
14	---	---	---	---	---	---	20.5	17.5	18.5	---	---	---
15	---	---	---	---	---	---	20.0	16.5	18.5	---	---	---
16	---	---	---	---	---	---	20.0	16.5	18.5	---	---	---
17	---	---	---	---	---	---	19.5	18.0	18.5	---	---	---
18	---	---	---	---	---	---	19.5	16.5	18.0	---	---	---
19	---	---	---	---	---	---	19.0	17.0	18.0	---	---	---
20	---	---	---	---	---	---	20.5	17.5	18.5	---	---	---
21	---	---	---	---	---	---	18.5	16.5	17.5	---	---	---
22	---	---	---	---	---	---	19.5	16.0	17.5	---	---	---
23	---	---	---	---	---	---	17.5	16.0	16.5	---	---	---
24	---	---	---	---	---	---	19.0	16.0	17.5	---	---	---
25	---	---	---	---	---	---	19.0	15.5	17.5	---	---	---
26	---	---	---	---	---	---	19.0	15.5	17.0	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	22.5	15.5	18.5	---	---	---

01442550 MARSHALLS CREEK NEAR MARSHALLS CREEK, PA (LAT 41 04 09N LONG 075 08 24W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	19.0	16.5	17.5	---	---	---
2	---	---	---	---	---	---	19.5	17.0	18.5	---	---	---
3	---	---	---	---	---	---	20.0	18.5	19.0	---	---	---
4	---	---	---	---	---	---	19.5	19.0	19.0	---	---	---
5	---	---	---	---	---	---	20.5	18.0	19.5	---	---	---
6	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
7	---	---	---	---	---	---	22.0	19.5	21.0	---	---	---
8	---	---	---	---	---	---	22.5	20.5	21.5	---	---	---
9	---	---	---	---	---	---	22.5	20.5	21.5	---	---	---
10	---	---	---	---	---	---	22.0	21.0	22.0	---	---	---
11	---	---	---	---	---	---	21.0	19.5	20.0	---	---	---
12	---	---	---	---	---	---	20.0	19.5	19.5	---	---	---
13	---	---	---	---	---	---	20.5	19.5	20.0	---	---	---
14	---	---	---	---	---	---	20.0	19.0	19.5	---	---	---
15	---	---	---	---	---	---	20.0	18.0	19.0	---	---	---
16	---	---	---	---	---	---	19.5	17.5	19.0	---	---	---
17	---	---	---	---	---	---	20.0	19.0	19.5	---	---	---
18	---	---	---	---	---	---	19.5	17.5	18.5	---	---	---
19	---	---	---	---	---	---	19.5	18.0	18.5	---	---	---
20	---	---	---	---	---	---	20.5	19.0	19.5	---	---	---
21	---	---	---	---	---	---	19.5	18.0	18.5	---	---	---
22	---	---	---	---	---	---	19.0	17.0	18.0	---	---	---
23	---	---	---	---	---	---	18.0	17.0	17.5	---	---	---
24	---	---	---	---	---	---	18.5	17.0	17.5	---	---	---
25	---	---	---	---	---	---	18.5	16.5	17.5	---	---	---
26	---	---	---	---	---	---	18.5	16.0	17.5	---	---	---
27	---	---	---	---	---	---	18.5	17.5	18.0	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	22.5	16.0	19.2	---	---	---

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA,--Continued

01447120 LEHIGH RIVER NEAR GOULDSBORO, PA (LAT 41 14 13N LONG 075 30 04W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

01447530 TOBYHANNA CREEK AT WARNERTOWN, PA (LAT 41 09 42N LONG 075 27 21W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	21.0	18.5	20.0
2	---	---	---	---	---	---	23.0	18.0	20.5	18.5	15.5	17.0
3	---	---	---	---	---	---	23.5	20.0	21.5	19.0	15.0	17.0
4	---	---	---	---	---	---	22.5	19.5	21.0	19.0	17.0	18.0
5	---	---	---	---	---	---	24.5	20.0	22.0	19.0	16.0	17.5
6	---	---	---	---	---	---	25.0	21.5	23.5	18.0	14.0	16.5
7	---	---	---	---	---	---	26.0	22.0	24.0	19.0	14.5	17.0
8	---	---	---	---	---	---	26.5	22.5	24.5	20.0	15.5	18.0
9	---	---	---	---	---	---	26.5	22.5	24.5	20.5	17.5	19.0
10	---	---	---	---	---	---	25.5	24.0	24.5	20.0	18.0	19.0
11	---	---	---	---	---	---	24.0	20.0	21.5	---	---	---
12	---	---	---	---	---	---	22.5	20.0	21.0	---	---	---
13	---	---	---	---	---	---	23.0	21.5	22.0	---	---	---
14	---	---	---	---	---	---	23.0	20.5	22.0	---	---	---
15	---	---	---	---	---	---	23.0	19.5	21.0	---	---	---
16	---	---	---	---	---	---	22.5	19.5	21.0	---	---	---
17	---	---	---	---	---	---	22.5	20.5	21.5	---	---	---
18	---	---	---	---	---	---	21.5	18.5	20.0	---	---	---
19	---	---	---	---	---	---	21.5	19.0	20.5	---	---	---
20	---	---	---	---	---	---	23.0	20.5	21.5	---	---	---
21	---	---	---	---	---	---	21.5	19.0	20.0	---	---	---
22	---	---	---	---	---	---	21.0	17.0	19.0	---	---	---
23	---	---	---	---	---	---	19.5	18.0	18.5	---	---	---
24	---	---	---	---	---	---	20.5	17.5	19.0	---	---	---
25	---	---	---	---	---	---	20.5	17.0	19.0	---	---	---
26	---	---	---	---	---	---	20.5	17.5	19.0	---	---	---
27	---	---	---	---	---	---	20.0	19.0	19.5	---	---	---
28	---	---	---	---	---	---	21.0	18.0	19.5	---	---	---
29	---	---	---	---	---	---	20.5	18.0	19.5	---	---	---
30	---	---	---	---	---	---	19.0	17.5	18.5	---	---	---
31	---	---	---	---	---	---	21.5	19.0	20.0	---	---	---
MONTH	---	---	---	---	---	---	26.5	17.0	21.1	---	---	---

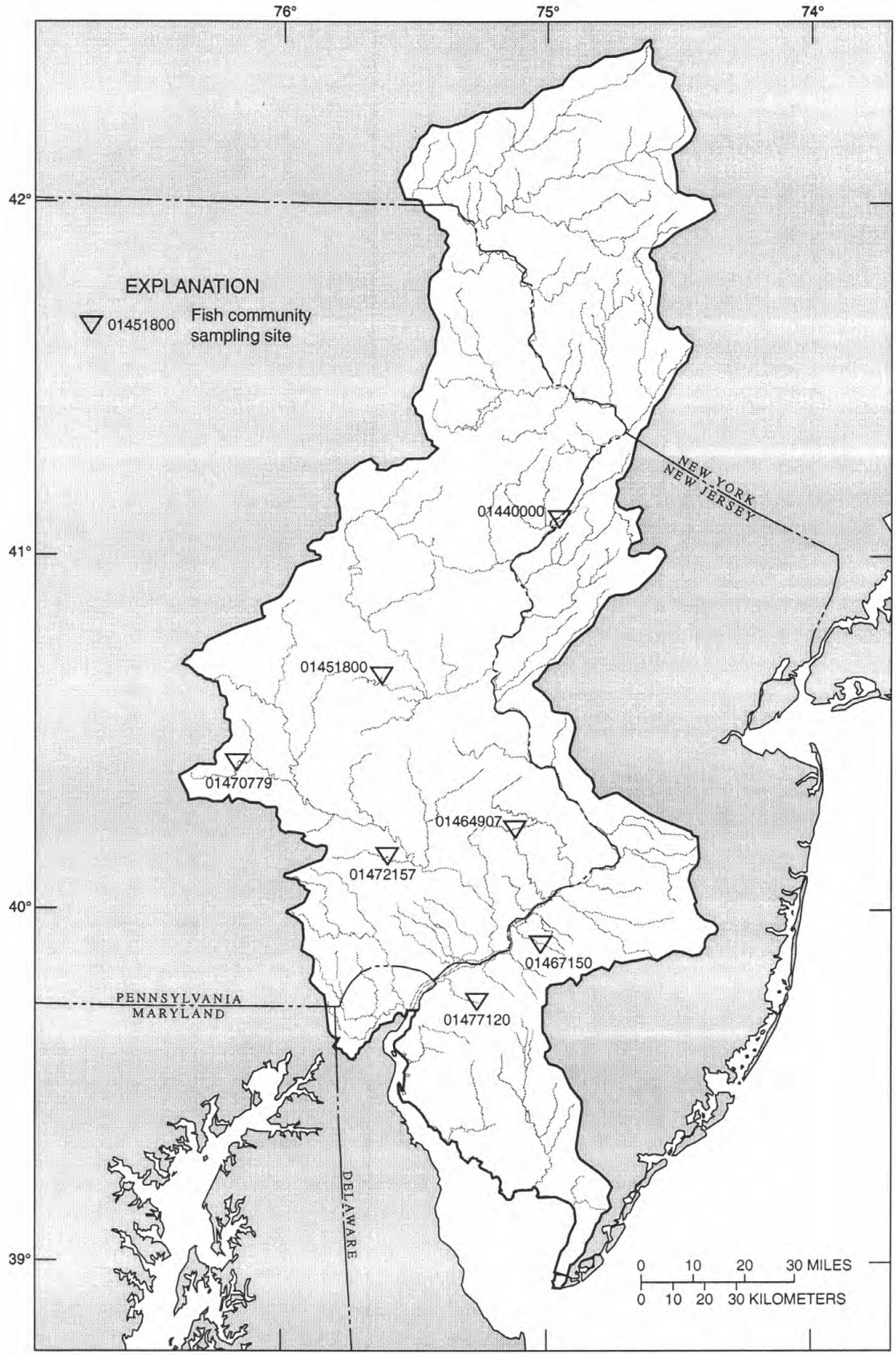


Figure 61. Location of sites in the Delaware River Basin National Water-Quality Assessment Program, fish-community survey, water year 2001.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, FISH COMMUNITY SURVEY

Fish-community surveys were conducted at 7 stream sites in the Delaware River basin during 2001. Sites were located in New Jersey and Pennsylvania. Fish were collected from each site by electrofishing with pulsed-DC current in a representative reach 153 to 310 meters long. One electrofishing pass was conducted at each reach except at station 01467150, at which two passes were conducted. One-quarter inch mesh was used for the dip nets. Fish were identified, measured, weighed, and checked for anomalies such as parasites, lesions, and skeletal deformities. Most individuals were returned to the stream after processing. More details regarding collection methods can be found in Meador and others, 1993, Methods for sampling fish communities as part of the National Water-Quality Assessment program: U.S. Geological Survey Open-File Report 93-104, 40 p. Additional surface-water and/or water-quality data for these sites can be found in the continuous record station section of this report. Family names are in uppercase, scientific names are in italics, and common names follow. Minimum and maximum total lengths (in mm) are in parenthesis below abundance.

List of stations and collection dates

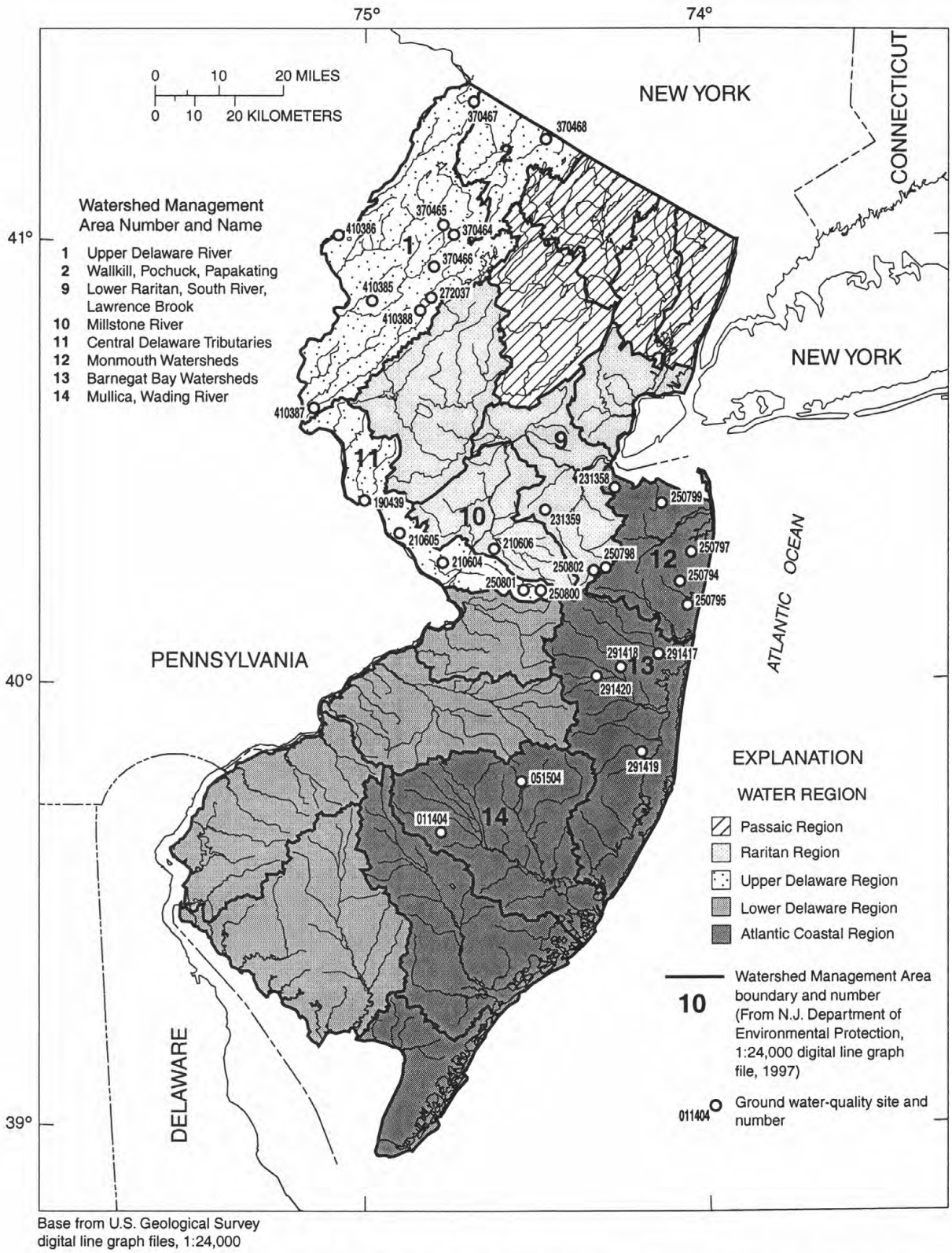
Station ID	Station name	Collection Date
01440000	FLAT BROOK NEAR FLATBROOKVILLE, NJ	07-19-01
01451800	JORDAN CREEK NEAR SCHNECKSVILLE, PA	07-18-01
01464907	LITTLE NESHAMINY CREEK AT VALLEY ROAD, NEAR NESHAMINY, PA	07-24-01
01467150	COOPER RIVER AT HADDONFIELD, NJ	07-11-01
01470779	TULPEHOCKEN CREEK NEAR BERNVILLE, PA	07-17-01
01472157	FRENCH CREEK NEAR PHOENIXVILLE, PA	07-12-01
01477120	RACCOON CREEK NEAR SWEDESBORO, NJ	07-10-01

Fish species, numbers, minimum and maximum total lengths (in mm), collected during 2001

FAMILY scientific name common name	01440000	01451800	01464907	01467150	01470779	01472157	01477120
PETROMYZONTIDAE							
Lampetra appendix American brook lamprey	0	0	0	0	0	0	46 (78-177)
Petromyzon marinus sea lamprey	13 (85-140)	0	0	0	0	0	16 (142-177)
ANGUILLIDAE							
Anguilla rostrata American eel	170 (40-475)	19 (160-586)	40 (130-570)	51 (108-655)	0	5 (375-860)	41 (111-540)
CLUPEIDAE							
Alosa aestivalis blueback herring	0	0	0	7 (55-66)	0	0	0
Alosa pseudoharengus alewife	0	0	0	1 (66)	0	0	1 (47)
CYPRINIDAE							
Cyprinella analostana satinfin shiner	0	7 (51-83)	29 (43-82)	0	0	9 (30-94)	12 (58-93)
C. spiloptera spotfin shiner	0	0	42 (48-104)	0	13 (75-102)	0	0
Cyprinus carpio common carp	0	0	0	2 (324-366)	30 (304-638)	0	0
Exoglossum maxillingua cutlips minnow	221 (45-115)	348 (55-128)	0	0	37 (49-130)	154 (51-129)	0
Hybognathus regius eastern silvery minnow	0	0	0	15 (47-140)	0	0	52 (90-137)
Luxilus cornutus common shiner	0	65 (28-121)	1 (84)	0	2 (70-76)	51 (54-133)	31 (70-106)
Notemigonus crysoleucas golden shiner	0	0	0	0	0	0	6 (82-112)
Notropis amoenus comely shiner	0	0	0	0	0	0	0
N. hudsonius spottail shiner	0	0	24 (47-56)	153 (31-111)	29 (35-104)	4 (75-102)	69 (67-127)
N. procne swallowtail shiner	0	0	166 (46-75)	0	0	4 (50-66)	11 (45-68)
Pimephales notatus bluntnose minnow	0	62 (47-73)	0	0	11 (57-82)	0	0
P. promelas fathead minnow	0	0	0	0	1 (73)	0	0

FAMILY *scientific name* common name	01440000	01451800	01464907	01467150	01470779	01472157	01477120
Rhinichthys atratulus blacknose dace	889 (29-79)	520 (30-73)	3 (40-47)	0	144 (36-86)	85 (50-67)	0
R. cataractae longnose dace	106 (56-115)	331 (40-101)	0	0	74 (55-115)	67 (32-118)	0
Semotilus atromaculatus creek chub	0	2 (32-32)	0	0	1 (78)	1 (76)	0
Semotilus corporalis fallfish	3 (41-47)	0	0	2 (50-50)	2 (71-72)	89 (37-290)	46 (80-253)
CATOSTOMIDAE							
Catostomus commersoni white sucker	97 (29-51)	551 (30-355)	256 (52-300)	59 (44-314)	245 (40-385)	94 (35-341)	82 (37-363)
Erimyzon oblongus creek chubsucker	0	0	0	0	0	0	0
Hypentelium nigricans northern hog sucker	7 (72-92)	0	0	0	0	0	0
ICTALURIDAE							
Ameiurus catus white catfish	0	0	0	0	0	0	0
A. natalis yellow bullhead	0	0	21 (117-260)	0	0	3 (149-171)	0
A. nebulosus brown bullhead	0	0	1 (83)	1 (39)	0	3 (134-162)	0
Ictalurus punctatus channel catfish	0	0	0	0	0	0	0
Noturus insignis margined madtom	11 (65-118)	181 (55-140)	0	0	0	13 (72-135)	0
ESOCIDAE							
Esox americanus redfin pickerel	0	1 (155)	1 (88)	0	0	0	3 (77-121)
Esox niger chain pickerel	0	0	0	1 (120)	0	0	0
UMBRIDAE							
Umbra pygmaea eastern mudminnow	0	0	0	0	0	0	8 (45-74)
SALMONIDAE							
Oncorhynchus mykiss rainbow trout	0	5 (288-373)	0	0	0	7 (227-280)	0
Salmo trutta brown trout	1 (74)	4 (181-221)	0	0	3 (274-335)	51 (212-299)	0
APHREDODERIDAE							
Aphredoderus sayanus pirate perch	0	0	0	0	0	0	2 (71-74)
CYPRINODONTIDAE							
Fundulus diaphanus banded killifish	0	11 (56-82)	48 (55-101)	0	0	0	0
PERCICHTHYIDAE							
Morone americana white perch	0	0	0	12 (105-186)	0	0	1 (166)

FAMILY *scientific name* common name	01440000	01451800	01464907	01467150	01470779	01472157	01477120
Morone saxatilis striped bass	0	0	0	0	0	0	2 (178-244)
CENTRARCHIDAE							
Ambloplites rupestris rock bass	0	45 (60-168)	40 (76-195)	0	17 (103-183)	140 (46-192)	0
Lepomis auritus redbreast sunfish	0	24 (49-160)	186 (19-173)	0	0	18 (66-125)	11 (66-141)
L. cyanellus green sunfish	0	1 (62)	24 (35-131)	16 (45-126)	6 (60-145)	19 (48-164)	0
L. gibbosus pumpkinseed	0	2 (97-99)	14 (74-133)	85 (55-165)	2 (60-145)	1 (72)	63 (49-122)
L. macrochirus bluegill	0	2 (81-178)	7 (59-87)	166 (46-134)	38 (85-145)	7 (55-91)	9 (46-131)
Micropterus dolomieu smallmouth bass	1 (57)	2 (210-282)	2 (30-283)	0	0	23 (30-300)	0
M. salmoides largemouth bass	0	0	3 (61-233)	32 (27-441)	3 (61-157)	35 (44-69)	5 (42-145)
Pomoxis nigromaculatus black crappie	0	0	2 (43-173)	0	1 (168)	0	0
PERCIDAE							
Etheostoma olmstedi tessellated darter	117 (43-71)	38 (35-79)	170 (39-76)	207 (31-73)	50 (31-69)	64 (35-75)	50 (32-78)
Perca flavescens yellow perch	0	0	0	3 (56-71)	0	0	0
Percina peltata shield darter	59 (35-92)	0	0	0	0	31 (66-90)	0



Base from U.S. Geological Survey digital line graph files, 1:24,000

Figure 62. Location of sites in the Ambient Ground-Water-Quality Network, water year 2001.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 1

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
403719075091801	410387	NJDEP POHATCONG MW82	403719	0750918	190	12	7 - 12	112SFDF
405035074502201	410388	NJDEP COH HATCHERY MW85	405035	0745022	520	12	2 - 12	112SFDF
*405154074585701	410385	NJDEP JENNY JUMP SP MW88	405154	0745857	420	37	17 - 37	112SFDF
*405220074482201	272037	NJDEP STEPHENS SP MW84	405220	0744822	615	57.5	43 - 58	112SFDF
405631074475001	370466	NJDEP ALLAMUCHY SP MW90	405631	0744750	560	13.8	9 - 14	112SFDF
*410049075045801	410386	NJDEP WORTHINGTON SP MW92	410049	0750458	320	36	31 - 36	112SFDF
*410053074441301	370464	NJDEP ANDOVER MW86	410053	0744413	600	38	33 - 38	112SFDF
*410213074460901	370465	NJDEP AUGUSTA MW97	410213	0744609	621	31.5	27 - 32	112SFDF
411853074403601	370467	NJDEP HIGH POINT SP MW100	411853	0744036	1340	50	40 - 50	350HGFL

* - Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units:
121SFDF - Stratified drift
350HGFL - High Falls Formation

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Explanation of the records, Quality-control data" in the "Introduction".

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	SAMPLE TYPE	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
NJDEP MW82	403719075091801	09-24-01	1110	ENVIRONMENTAL	--	75	9.9	755	53
NJDEP MW85	405035074502201	09-27-01	1210	ENVIRONMENTAL	.10	100	180	745	62
NJDEP MW88	405154074585701	09-24-01	1000	ENVIRONMENTAL	.50	60	6.0	752	45
NJDEP MW84	405220074482201	09-25-01	1045	ENVIRONMENTAL	3.0	95	19	739	51
NJDEP MW90	*405631074475001*	*09-17-01*	*1255*	*AMBIENT BLANK*	--	--	--	--	--
		09-17-01	1300	ENVIRONMENTAL	.94	38	.2	758	50
NJDEP MW92	410049075045801	09-19-01	1030	ENVIRONMENTAL	.50	45	2.6	760	37
NJDEP MW86	410053074441301	09-17-01	1030	ENVIRONMENTAL	.50	45	.5	752	39
NJDEP MW97	410213074460901	09-18-01	1015	ENVIRONMENTAL	.50	45	.9	749	47
NJDEP MW100	411853074403601	09-26-01	1200	ENVIRONMENTAL	.09	93	12	723	41

LOCAL IDENT-I-FIER	DATE	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
NJDEP MW82	09-24-01	4.5	6.9	342	23.0	140	39.8	10.5	1.69	15.3	118
NJDEP MW85	09-27-01	6.9	7.2	538	9.5	240	49.7	28.2	1.37	12.7	214
NJDEP MW88	09-24-01	4.8	7.4	207	12.0	100	22.7	10.5	.57	2.4	81
NJDEP MW84	09-25-01	5.5	7.8	384	11.0	190	40.2	21.3	2.09	6.3	163
NJDEP MW90	*09-17-01*	--	--	--	--	--	--	--	--	--	--
	09-17-01	5.2	7.4	429	13.5	190	48.5	17.9	2.79	6.7	142
NJDEP MW92	09-19-01	3.9	7.0	244	13.0	110	32.3	6.94	.94	3.2	77
NJDEP MW86	09-17-01	4.2	7.1	819	11.0	450	96.3	50.2	1.22	3.3	431
NJDEP MW97	09-18-01	5.1	7.5	414	11.0	200	60.7	12.1	.74	4.2	163
NJDEP MW100	09-26-01	4.4	5.8	32	10.0	12	1.86	1.79	.77	.6	7

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	LOCAL IDENT-I-FIER	DATE	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
NJDEP MW82		09-24-01	144	15.6	<.2	9.7	17.9	194	199	.056	.14	3.86
NJDEP MW85		09-27-01	264	29.9	E.1	15.6	17.3	272	289	<.040	<.10	.897
NJDEP MW88		09-24-01	99	1.5	E.1	11.8	14.5	118	113	<.040	<.10	E.027
NJDEP MW84		09-25-01	199	18.8	<.2	13.2	14.6	242	215	<.040	.17	.111
NJDEP MW90		*09-17-01*	--	--	--	--	--	--	--	--	--	--
		09-17-01	173	13.2	<.2	6.2	16.0	229	243	<.040	E.07	10.5
NJDEP MW92		09-19-01	94	15.1	E.1	2.7	10.1	128	119	<.040	<.10	.233
NJDEP MW86		09-17-01	526	7.9	<.2	10.7	7.1	387		<.040	<.10	.065
NJDEP MW97		09-18-01	199	8.3	<.2	9.7	18.3	213	228	<.040	<.10	3.67
NJDEP MW100		09-26-01	8	.9	E.1	6.1	5.6	22	22	<.040	<.10	E.037

	LOCAL IDENT-I-FIER	DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)
NJDEP MW82		09-24-01	.010	4.0	<.020	.70	1	.06	<.2	24.0	<.06	35
NJDEP MW85		09-27-01	<.006	--	<.020	.82	1	E.03	<.2	29.1	<.06	13
NJDEP MW88		09-24-01	<.006	--	<.020	.52	4	<.05	E.2	4.2	<.06	12
NJDEP MW84		09-25-01	<.006	.28	<.020	1.5	16	.13	E.1	11.5	<.06	9
NJDEP MW90		*09-17-01*	--	--	--	--	--	--	--	--	--	--
		09-17-01	.006	--	<.020	.55	2	<.05	E.1	6.4	<.06	68
NJDEP MW92		09-19-01	E.003	--	E.011	.56	2	.06	.2	59.9	<.06	E6
NJDEP MW86		09-17-01	<.006	--	<.020	.67	<1	E.03	E.1	13.8	<.06	E6
NJDEP MW97		09-18-01	<.006	--	<.020	.41	1	E.04	E.1	2.4	<.06	11
NJDEP MW100		09-26-01	<.006	--	<.020	1.4	6	.12	<.2	1.1	<.06	<7

	LOCAL IDENT-I-FIER	DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)
NJDEP MW82		09-24-01	.04	<.8	1.0	10	E.08	208	<.01	18.7	.4	<1.0
NJDEP MW85		09-27-01	.05	<.8	.7	M	.15	518	<.01	3.87	E.2	<1.0
NJDEP MW88		09-24-01	<.04	<.8	.3	<10	<.08	3.8	<.01	<.06	<.3	<1.0
NJDEP MW84		09-25-01	.59	4.1	2.1	<10	.44	2.7	<.01	.41	<.3	<1.0
NJDEP MW90		*09-17-01*	--	--	--	--	--	--	--	--	--	--
		09-17-01	<.04	<.8	.8	<10	<.08	1.0	<.01	<.06	<.3	<1.0
NJDEP MW92		09-19-01	E.02	<.8	.5	20	<.08	199	<.01	E.03	<.3	<1.0
NJDEP MW86		09-17-01	<.04	<.8	3.4	<10	E.04	16.3	<.01	<.20	.3	<1.0
NJDEP MW97		09-18-01	<.04	<.8	.3	<10	<.08	<.1	<.01	<.06	E.3	<1.0
NJDEP MW100		09-26-01	3.99	<.8	2.3	<10	2.95	7.9	<.01	3.25	<.3	<1.0

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material is verified but not quantified.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENTIFIER	DATE	THALLIUM, DISSOLVED (UG/L AS TL) (01057)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)
NJDEP MW82	09-24-01	<.04	2	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW85	09-27-01	<.04	<1	.24	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW88	09-24-01	<.04	<1	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW84	09-25-01	<.04	23	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW90	*09-17-01*	--	--	*<.10*	*<.10*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*	*<.10*
	09-17-01	<.04	<1	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW92	09-19-01	<.04	1	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW86	09-17-01	<.04	<1	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW97	09-18-01	<.04	<1	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW100	09-26-01	E.02	27	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10

LOCAL IDENTIFIER	DATE	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)
NJDEP MW82	09-24-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP HACKETTSTOWN	09-27-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	.24	<.10	<.2
NJDEP MW88	09-24-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP MW84	09-25-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP MW90	*09-17-01*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*	*<.2*
	09-17-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP MW92	09-19-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP MW86	09-17-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP MW97	09-18-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP MW100	09-26-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2

LOCAL IDENTIFIER	DATE	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)
NJDEP MW82	09-24-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP MW85	09-27-01	<.2	<.2	<.10	<.2	<.10	.29	<.2	<.2	<.20	<.10
NJDEP MW88	09-24-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP MW84	09-25-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP MW90	*09-17-01*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*	*<.2*	*<.2*	*<.20*	*<.10*
	09-17-01	<.2	<.2	<.10	<.2	<.10	<.10	.2	<.2	<.20	<.10
NJDEP MW92	09-19-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP MW86	09-17-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP MW97	09-18-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP MW100	09-26-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10

E Estimated value.
< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	DATE	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)
NJDEP MW82	09-24-01	<.10	<.1	<.10	<.10	<.20	<.2	1.2	1.07	2.1	1.42
NJDEP MW85	09-27-01	<.10	13.8	<.10	1.24	<.20	<.2	1.7	.49	3.0	1.47
NJDEP MW88	09-24-01	<.10	<.1	<.10	<.10	<.20	<.2	.73	.10	1.3	.96
NJDEP MW84	09-25-01	<.10	<.1	<.10	<.10	<.20	<.2	1.2	.43	1.8	.76
NJDEP MW90	*09-17-01*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*	--	--	--	--
	09-17-01	<.10	<.1	<.10	<.10	<.20	<.2	1.3	.000	2.5	3.94
NJDEP MW92	09-19-01	<.10	<.1	<.10	<.10	<.20	<.2	.80	.78	1.4	3.20
NJDEP MW86	09-17-01	<.10	<.1	<.10	<.10	<.20	<.2	2.9	1.97	4.4	<4.15
NJDEP MW97	09-18-01	<.10	<.1	<.10	<.10	<.20	<.2	1.5	2.08	2.4	<4.15
NJDEP MW100	09-26-01	<.10	<.1	<.10	<.10	<.20	<.2	.53	.98	1.0	2.20

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW82	403719075091801	09-24-01	1110	<.004	<.002	<.005	.037	<.010	<.041	<.020
NJDEP MW85	405035074502201	09-27-01	1210	<.004	<.002	<.005	.020	<.010	<.041	<.020
NJDEP MW88	405154074585701	09-24-01	1000	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW84	405220074482201	09-25-01	1045	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW90	405631074475001	09-17-01	1300	<.004	<.002	<.005	.355	<.010	<.041	<.020
NJDEP MW92	410049075045801	09-19-01	1030	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW86	410053074441301	09-17-01	1030	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW97	410213074460901	09-18-01	1015	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW100	411853074403601	09-26-01	1200	<.004	<.002	<.005	<.007	<.010	<.041	<.020

LOCAL IDENT-I-FIER	DATE	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)
NJDEP MW82	09-24-01	<.005	<.018	<.003	E.077	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW85	09-27-01	<.005	<.018	<.003	E.027	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW88	09-24-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW84	09-25-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW90	09-17-01	<.005	<.018	<.003	E.318	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW92	09-19-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW86	09-17-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW97	09-18-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW100	09-26-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027

E Estimated value.
< Actual value is known to be less than the value shown.

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	DATE	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
NJDEP MW82	09-24-01	<.050	E.011	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW85	09-27-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	E.014	<.011	<.016
NJDEP MW88	09-24-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW84	09-25-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW90	09-17-01	<.050	E.003	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW92	09-19-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW86	09-17-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW97	09-18-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW100	09-26-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016

LOCAL IDENT-I-FIER	DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
NJDEP MW82	09-24-01	<.034	<.005	<.009
NJDEP MW85	09-27-01	<.034	<.005	<.009
NJDEP MW88	09-24-01	<.034	<.005	<.009
NJDEP MW84	09-25-01	<.034	<.005	E.006
NJDEP MW90	09-17-01	<.034	<.005	<.009
NJDEP MW92	09-19-01	<.034	<.005	<.009
NJDEP MW86	09-17-01	<.130	<.005	<.009
NJDEP MW97	09-18-01	<.034	<.005	<.009
NJDEP MW100	09-26-01	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 2

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
411348074273901	370468	NJDEP WAWAYANDA SP MW99	411348	0742739	420	13.5	9 - 14	112SFDF

Aquifer units:
112SFDF - Stratified drift

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
NJDEP MW99	411348074273901	09-24-01	1220	.25	50	15	749	11	1.1	7.5

LOCAL IDENTIFIER	DATE	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
NJDEP MW99	09-24-01	797	14.0	350	78.3	37.0	1.45	33.9	290	353	72.9

LOCAL IDENTIFIER	DATE	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
NJDEP MW99	09-24-01	E.1	11.9	25.9	394	--	<.040	<.10	1.85	E.003	<.020

LOCAL IDENTIFIER	DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COPPER, DISSOLVED (UG/L AS CU) (01040)
NJDEP MW99	09-24-01	.48	2	.06	.3	28.4	<.06	16	E.04	1.2	.4

LOCAL IDENTIFIER	DATE	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	THALLIUM, DISSOLVED (UG/L AS TL) (01057)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)
NJDEP MW99	09-24-01	10	.09	74.3	<.01	<.06	E.3	<1.0	<.04	<1	<.10

LOCAL IDENTIFIER	DATE	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
NJDEP MW99	09-24-01	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

LOCAL IDENTIFIER	DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)
NJDEP MW99	09-24-01	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10

E Estimated value.
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WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	DATE	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)
NJDEP MW99	09-24-01	<.2	<.10	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10

LOCAL IDENT-I-FIER	DATE	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)
NJDEP MW99	09-24-01	<.10	<.20	<.2	2.7	-0.13	4.9	.33

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW99	411348074273901	09-24-01	1220	<.004	<.002	<.005	.038	<.010	<.041	<.020

LOCAL IDENT-I-FIER	DATE	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)
NJDEP MW99	09-24-01	<.005	<.018	<.003	E.076	<.005	<.005	<.002	<.004	<.035	<.027

LOCAL IDENT-I-FIER	DATE	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
NJDEP MW99	09-24-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016

LOCAL IDENT-I-FIER	DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
NJDEP MW99	09-24-01	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 9

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
*401508074193501	250802	NJDEP MANALAPAN MW104	401508	0741935	160	35.1	30 - 35	211RDBK
*401531074172801	250798	NJDEP FREEHOLD MW69	401531	0741728	150	22	17 - 22	211RDBK
402323074280901	231359	NJDEP PIGEON SWAMP MW102	402323	0742809	100	14.5	10 - 15	111HPPM

* - Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units:
211RDBK - Red Bank Sand
111HPPM - Undifferentiated Holocene, Pleistocene, Pliocene, and Miocene

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Explanation of the records, Quality-control data" in the "Introduction".

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	SAMPLE TYPE	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
NJDEP MW104	401508074193501	09-26-01	1030	ENVIRONMENTAL	3.0	75	3.9	760	41
NJDEP MW69	*401531074172801*	*08-22-01*	*0900*	*AMBIENT BLANK*	--	--	--	--	--
		08-22-01	0930	ENVIRONMENTAL	.50	35	.5	763	6
NJDEP MW102	402323074280901	09-26-01	1120	ENVIRONMENTAL	.60	75	.8	760	--

LOCAL IDENT-I-FIER	DATE	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
NJDEP MW104	09-26-01	4.2	4.9	1050	13.5	73	3.42	15.6	3.69	164	2
NJDEP MW69	*08-22-01*	--	--	--	--	--	--	--	--	--	--
	08-22-01	.6	4.9	499	15.0	51	5.79	8.85	3.15	61.8	1
NJDEP MW102	09-26-01	<.2	5.9	325	15.0	41	6.82	5.87	2.21	3.7	96

LOCAL IDENT-I-FIER	DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
NJDEP MW104	09-26-01	2	273	<.2	8.9	53.8	550	528	<.040	<.10	.948
NJDEP MW69	*08-22-01*	--	--	--	--	--	--	--	--	--	--
	08-22-01	6	127	<.2	13.8	3.1	245	250	2.70	2.9	4.41
NJDEP MW102	09-26-01	--	4.2	<.2	8.7	58.4	170	--	1.12	1.3	<.050

LOCAL IDENT-I-FIER	DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)
NJDEP MW104	09-26-01	<.006	--	<.020	<.30	87	<.05	<.2	70.4	.16	22
NJDEP MW69	*08-22-01*	--	--	--	--	--	--	--	--	--	--
	08-22-01	E.003	7.3	<.020	.35	54	.05	<.2	35.1	.15	24
NJDEP MW102	09-26-01	E.003	--	<.020	3.9	3	E.03	2.2	41.2	<.06	E10

E Estimated value.
< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)
NJDEP MW104	09-26-01	2.46	E.7	.8	<10	E.07	115	<.01	25.2	E.3	<1.0
NJDEP MW69	*08-22-01*	--	--	--	--	--	--	--	--	--	--
	08-22-01	.90	.9	1.0	<10	<.08	224	<.01	64.6	E.2	<1.0
NJDEP MW102	09-26-01	E.02	E.5	.7	59100	.18	2570	<.01	1.83	<.3	<1.0

LOCAL IDENT-I-FIER	DATE	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)
NJDEP MW104	09-26-01	E.04	52	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW69	*08-22-01*	--	--	*<.10*	*<.10*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*	*<.10*
	08-22-01	E.03	147	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW102	09-26-01	.10	16	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10

LOCAL IDENT-I-FIER	DATE	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)
NJDEP MW104	09-26-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP MW69	*08-22-01*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*	*<.2*
	08-22-01	<.10	<.10	<.20	<.20	<.10	<.2	.21	<.10	<.10	<.2
NJDEP MW102	09-26-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2

LOCAL IDENT-I-FIER	DATE	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)
NJDEP MW104	09-26-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP MW69	*08-22-01*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*	*<.2*	*<.2*	*<.20*	*<.10*
	08-22-01	<.2	<.2	<.10	<.2	<.10	<.10	3.4	<.2	<.20	<.10
NJDEP MW102	09-26-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10

LOCAL IDENT-I-FIER	DATE	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)
NJDEP MW104	09-26-01	<.10	<.1	<.10	<.10	<.20	<.2	2.7	2.42	5.2	7.46
NJDEP MW69	*08-22-01*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*	--	--	--	--
	08-22-01	<.10	<.1	<.10	<.10	<.20	<.2	2.1	3.11	2.3	4.87
NJDEP MW102	09-26-01	<.10	<.1	<.10	<.10	<.20	<.2	.85	.74	2.1	4.22

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW104	401508074193501	09-26-01	1030	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW69	401531074172801	08-22-01	0930	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW102	402323074280901	09-26-01	1120	<.004	<.002	<.005	<.007	<.010	<.041	<.020

LOCAL IDENTIFIER	DATE	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)
NJDEP MW104	09-26-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW69	08-22-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW102	09-26-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027

LOCAL IDENTIFIER	DATE	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
NJDEP MW104	09-26-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW69	08-22-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW102	09-26-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016

LOCAL IDENTIFIER	DATE	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
NJDEP MW104	09-26-01	<.034	<.005	<.009
NJDEP MW69	08-22-01	<.034	<.005	<.009
NJDEP MW102	09-26-01	<.034	<.005	<.009

< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 10

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
401809074371701	210606	NJDEP CANOE BK DR MW75	401809	0743717	101	18	13 - 18	111HPPM

Aquifer units:
111HPPM - Undifferentiated Holocene, Pleistocene, Pliocene, and Miocene

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)
NJDEP MW75	401809074371701	08-07-01	0920	56	.3	762	56	5.4	5.3	244

LOCAL IDENT-I-FIER	DATE	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
NJDEP MW75	08-07-01	17.5	53	12.0	5.61	3.75	18.6	9	11	39.9	<.2

LOCAL IDENT-I-FIER	DATE	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)
NJDEP MW75	08-07-01	10.1	29.5	124	132	E.031	E.06	1.65	<.006	<.020	.65

LOCAL IDENT-I-FIER	DATE	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)
NJDEP MW75	08-07-01	86	E.03	<.2	105	.18	34	.16	<.8	1.6	<10

LOCAL IDENT-I-FIER	DATE	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	THALLIUM, DISSOLVED (UG/L AS TL) (01057)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)
NJDEP MW75	08-07-01	.37	281	.02	2.18	.9	<1.0	.04	5	<.10	<.10

LOCAL IDENT-I-FIER	DATE	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)
NJDEP MW75	08-07-01	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

LOCAL IDENT-I-FIER	DATE	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
NJDEP MW75	08-07-01	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2

E Estimated value.
< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	DATE	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)
NJDEP MW75	08-07-01	<.10	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10

LOCAL IDENT-I-FIER	DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)
NJDEP MW75	08-07-01	<.20	<.2	.85	.96	1.6	5.09

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW75	401809074371701	08-07-01	0920	<.004	<.002	<.005	.007	<.010	<.041	<.020

LOCAL IDENT-I-FIER	DATE	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)
NJDEP MW75	08-07-01	<.005	<.018	<.003	E.002	<.005	<.005	<.002	<.004	<.035	<.027

LOCAL IDENT-I-FIER	DATE	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
NJDEP MW75	08-07-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016

LOCAL IDENT-I-FIER	DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
NJDEP MW75	08-07-01	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 11

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
*401229074290001	250800	NJDEP U.FREEHOLD MW72	401229	0742900	152	18.5	14 - 19	211MLRW
401233074320401	250801	NJDEP ASSUNPINK WMA MW73	401233	0743204	105	26	21 - 26	211EGLS
*401619074462401	210604	NJDEP COLLEGE OF NJ MW74	401619	0744624	100	19.5	15 - 20	231SCKN
402018074540301	210605	NJDEP HOWEL FARM MW77	402018	0745403	80	13.5	9 - 14	227PSSC
402431075020801	190439	NJDEP BULLS ISLAND SP MW78	402431	0750208	103	39	34 - 39	111ALVM

* - Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units:
211MLRW - Wenonah-Mount Laurel aquifer system
211EGLS - Englishtown aquifer system
231SCKN - Stockton Formation
227PSSC - Passaic Formation
111ALVM - Holocene Alluvium

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Explanation of the records, Quality-control data" in the "Introduction".

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	SAMPLE TYPE	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
NJDEP MW72	401229074290001	08-08-01	0915	ENVIRONMENTAL	.50	30	.5	759	49
NJDEP MW73	401233074320401	09-06-01	1110	ENVIRONMENTAL	.80	56	5.1	765	84
NJDEP MW74	*401619074462401*	*09-20-01*	*0914*	*AMBIENT BLANK*	--	--	--	--	--
		09-20-01	0915	ENVIRONMENTAL	.50	60	7.6	761	35
NJDEP MW77	402018074540301	09-06-01	1210	ENVIRONMENTAL	--	85	7.0	763	39
NJDEP MW78	*402431075020801*	*09-19-01*	*0940*	*FIELD BLANK*	--	--	--	--	--
		09-19-01	1040	ENVIRONMENTAL	.43	40	1.8	763	49

LOCAL IDENT-I-FIER	DATE	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
NJDEP MW72	08-08-01	5.2	4.3	173	12.5	53	9.16	7.43	2.59	1.5	--
NJDEP MW73	09-06-01	9.0	5.2	165	12.5	55	16.7	3.20	4.81	1.7	1
NJDEP MW74	*09-20-01*	--	--	--	--	--	--	--	--	--	--
	09-20-01	3.6	6.2	373	14.5	130	36.1	10.5	1.61	20.2	130
NJDEP MW77	09-06-01	3.8	6.8	315	17.0	110	30.4	8.79	1.97	13.8	95
NJDEP MW78	*09-19-01*	--	--	--	--	--	*.06*	*E.005*	--	*<.1*	--
	09-19-01	5.3	6.2	202	12.0	73	17.6	7.00	1.81	8.7	56

LOCAL IDENT-I-FIER	DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
NJDEP MW72	08-08-01	--	7.6	E.2	7.3	46.2	87	--	E.034	<.10	3.86
NJDEP MW73	09-06-01	6	6.1	<.2	6.3	26.0	113	68	E.011	E.05	E3.78
NJDEP MW74	*09-20-01*	--	--	--	--	--	--	--	--	--	--
	09-20-01	159	26.0	<.2	24.9	9.3	208	211	<.040	<.10	E.033
NJDEP MW77	09-06-01	116	18.3	<.2	16.6	21.2	188	168	E.020	E.07	E3.02
NJDEP MW78	*09-19-01*	--	--	--	*<.1*	--	--	--	--	--	--
	09-19-01	68	11.2	<.2	11.5	15.6	117	117	.145	.19	1.98

E Estimated value.
< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	LOCAL IDENT-I-FIER	DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)
NJDEP MW72		08-08-01	E.003	--	E.009	.44	1140	<.05	<.2	50.8	.29	20
NJDEP MW73		09-06-01	E.001	--	E.006	.43	32	<.05	<.2	111	<.06	19
NJDEP MW74		*09-20-01*	--	--	--	--	--	--	--	--	--	--
		09-20-01	E.004	--	<.020	1.0	5	<.05	.3	965	.08	26
NJDEP MW77		09-06-01	<.006	--	E.021	.67	1	<.05	.4	48.8	<.06	20
NJDEP MW78		*09-19-01*	--	--	--	--	*<1*	*<.05*	*<.2*	*<1.0*	*<.06*	*<7*
		09-19-01	.012	2.2	<.020	.48	<1	<.05	E.1	23.7	<.06	16

	LOCAL IDENT-I-FIER	DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)
NJDEP MW72		08-08-01	.10	.9	36.8	<10	3.76	52.6	<.01	7.50	E.3	<1.0
NJDEP MW73		09-06-01	.29	<.8	1.4	<10	5.04	63.7	<.01	2.71	<.3	<1.0
NJDEP MW74		*09-20-01*	--	--	--	--	--	--	--	--	--	--
		09-20-01	.05	<.8	.3	2030	<.08	759	<.01	7.41	<.3	<1.0
NJDEP MW77		09-06-01	.17	<.8	.9	M	.25	159	<.01	.25	<.3	<1.0
NJDEP MW78		*09-19-01*	*.12*	*<.8*	*.4*	*<10*	*.14*	*<.1*	*<.01*	*E.05*	*<.3*	*<1.0*
		09-19-01	.25	<.8	1.0	20	.57	1110	<.01	5.69	.5	<1.0

	LOCAL IDENT-I-FIER	DATE	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)
NJDEP MW72		08-08-01	E.02	25	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW73		09-06-01	<.04	3	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW74		*09-20-01*	--	--	*<.10*	*<.10*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*	*<.10*
		09-20-01	<.04	2	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW77		09-06-01	<.04	2	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW78		*09-19-01*	*<.04*	*3*	--	--	--	--	--	--	--	--
		09-19-01	<.04	2	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10

	LOCAL IDENT-I-FIER	DATE	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)
NJDEP MW72		08-08-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP MW73		09-06-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP MW74		*09-20-01*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*	*<.2*
		09-20-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP MW77		09-06-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP MW78		*09-19-01*	--	--	--	--	--	--	--	--	--	--
		09-19-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	DATE	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)
NJDEP MW72	08-08-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP MW73	09-06-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP MW74	*09-20-01*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*	*<.2*	*<.2*	*<.20*	*<.10*
	09-20-01	<.2	<.2	<.10	<.2	<.10	<.10	.2	<.2	<.20	<.10
NJDEP MW77	09-06-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP MW78	*09-19-01*	--	--	--	--	--	--	--	--	--	--
	09-19-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10

LOCAL IDENT-I-FIER	DATE	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)
NJDEP MW72	08-08-01	<.10	<.1	<.10	<.10	<.20	<.2	1.5	7.20	1.3	8.38
NJDEP MW73	09-06-01	<.10	<.1	<.10	<.10	<.20	<.2	.62	.33	1.1	5.69
NJDEP MW74	*09-20-01*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*	--	--	--	--
	09-20-01	<.10	<.1	<.10	<.10	<.20	<.2	1.5	4.12	2.3	4.63
NJDEP MW77	09-06-01	<.10	<.1	<.10	<.10	<.20	<.2	1.5	4.99	1.9	5.26
NJDEP MW78	*09-19-01*	--	--	--	--	--	--	--	--	--	--
	09-19-01	<.10	<.1	<.10	<.10	<.20	<.2	.46	.77	1.2	3.23

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW72	401229074290001	08-08-01	0915	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW73	401233074320401	09-06-01	1110	<.004	<.002	<.005	E.007	<.010	<.041	<.020
NJDEP MW74	401619074462401	09-20-01	0915	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW77	402018074540301	09-06-01	1210	<.004	<.002	<.005	.053	<.010	<.041	<.020
NJDEP MW78	402431075020801	09-19-01	1040	<.004	<.002	<.005	<.007	<.010	<.041	<.020

LOCAL IDENT-I-FIER	DATE	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)
NJDEP MW72	08-08-01	E.002	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW73	09-06-01	<.005	<.018	<.003	E.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW74	09-20-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW77	09-06-01	<.005	<.018	<.003	E.033	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW78	09-19-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027

E Estimated value.
< Actual value is known to be less than the value shown.

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

	LOCAL IDENT-I-FIER	DATE	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
NJDEP MW72		08-08-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW73		09-06-01	<.050	3.97	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW74		09-20-01	<.050	E.003	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW77		09-06-01	<.050	E.003	<.006	<.002	<.007	<.003	<.010	E.004	<.011	<.016
NJDEP MW78		09-19-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016

	LOCAL IDENT-I-FIER	DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
NJDEP MW72		08-08-01	<.034	<.005	<.009
NJDEP MW73		09-06-01	<.034	<.005	<.009
NJDEP MW74		09-20-01	<.034	<.005	<.009
NJDEP MW77		09-06-01	<.034	<.005	<.009
NJDEP MW78		09-19-01	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 12

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
401021074030601	250795	NJDEP WALL TWP MW67	401021	0740306	47	27.5	23 - 28	121CKKD
401335074042701	250794	NJDEP NEPTUNE TWP MW68	401335	0740427	82	29.5	25 - 30	121CKKD
*401732074022101	250797	NJDEP EATONTOWN MW71	401732	0740221	39	38.5	34 - 39	125VNCN
*402412074073001	250799	NJDEP MIDDLETOWN MW70	402412	0740730	65	23.8	19 - 24	211MRSL
402623074154701	231358	NJDEP CHEESEQUAKE SP MW103	402623	0741547	50	55	50 - 55	211MRPAU

* - Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units:
121CKKD - Kirkwood-Cohansey aquifer system
125VNCN - Vincentown aquifer system
211MRSL - Marshalltown Formation
211MRPAU - Upper Potomac-Raritan-Magothy aquifer system

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Explanation of the records, Quality-control data" in the "Introduction".

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	SAMPLE TYPE	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
NJDEP MW67	*401021074030601*	*07-27-01*	*0840*	*EQUIPMENT BLANK*	--	--	--	--	--
		07-30-01	*1549*	*AMBIENT BLANK*	--	--	--	--	--
		07-30-01	1550	ENVIRONMENTAL	--	40	2.4	758	19
NJDEP MW68	401335074042701	07-31-01	1010	ENVIRONMENTAL	--	70	7.7	761	15
NJDEP MW71	401732074022101	08-07-01	0915	ENVIRONMENTAL	.50	50	3.3	763	36
NJDEP MW70	*402412074073001*	*09-06-01*	*1000*	*AMBIENT BLANK*	--	--	--	--	--
		09-06-01	1100	ENVIRONMENTAL	--	--	7.8	769	16
NJDEP MW103	402623074154701	09-25-01	1240	ENVIRONMENTAL	.13	70	170	753	

LOCAL IDENT-I-FIER	DATE	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
NJDEP MW67	*07-27-01*	--	--	--	--	--	*E.01*	*<.008*	--	*<.1*	--
	07-30-01	--	--	--	--	--	--	--	--	--	--
	07-30-01	1.6	5.2	282	25.0	62	13.9	6.72	3.25	23.4	11
NJDEP MW68	07-31-01	1.4	4.9	240	18.5	45	6.02	7.19	3.07	11.9	2
NJDEP MW71	08-07-01	3.6	7.8	245	15.5	110	41.0	2.26	1.50	3.3	92
NJDEP MW70	*09-06-01*	--	--	--	--	--	--	--	--	--	--
	09-06-01	1.6	4.2	322	15.0	69	16.0	7.02	5.34	17.6	--
NJDEP MW103	09-25-01	--	6.0	308	15.0	97	34.0	2.85	2.03	7.0	53

LOCAL IDENT-I-FIER	DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
NJDEP MW67	*07-27-01*	--	--	--	*<.1*	--	--	--	--	--	--
	07-30-01	--	--	--	--	--	--	--	--	--	--
	07-30-01	13	43.5	<.2	5.4	24.6	163	154	.063	.18	5.92
NJDEP MW68	07-31-01	3	23.0	<.2	13.7	67.2	161	148	<.040	<.10	E.031
NJDEP MW71	08-07-01	112	8.2	<.2	11.8	1.9	133	130	<.040	<.10	1.17
NJDEP MW70	*09-06-01*	--	--	--	--	--	--	--	--	--	--
	09-06-01	--	19.2	E.1	18.7	106	205	--	E.027	E.07	E.029
NJDEP MW103	09-25-01	65	12.2	<.2	8.2	46.7	152		.055	.15	.779

E Estimated value.
< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENTIFIER	DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)
NJDEP MW67	*07-27-01*	--	--	--	--	*<1*	*<.05*	*<.2*	*<1.0*	*<.06*	*<7*
	07-30-01	--	--	--	--	--	--	--	--	--	--
	07-30-01	<.006	6.1	<.020	1.2	51	<.05	<.2	65.8	.12	114
NJDEP MW68	07-31-01	<.006	--	<.020	1.1	70	<.05	E.1	35.9	1.12	7
NJDEP MW71	08-07-01	<.006	--	E.009	E.20	<1	<.05	<.2	1.4	<.06	17
NJDEP MW70	*09-06-01*	--	--	--	--	--	--	--	--	--	--
	09-06-01	<.006	--	.020	.60	242	<.05	<.2	72.2	.47	34
NJDEP MW103	09-25-01	E.004	.93	<.020	3.0	24	E.04	1.4	39.6	<.06	14

LOCAL IDENTIFIER	DATE	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)
NJDEP MW67	*07-27-01*	*<.04*	*<.8*	*E.2*	*<10*	*<.08*	*<.1*	*<.01*	*<.06*	*E.3*	*<1.0*
	07-30-01	--	--	--	--	--	--	--	--	--	--
	07-30-01	.13	<.8	.7	70	.15	49.1	<.01	1.40	.5	<1.0
NJDEP MW68	07-31-01	.09	E.6	.5	14800	.24	158	<.01	1.41	<.3	<1.0
NJDEP MW71	08-07-01	<.04	5.5	E.2	<10	<.08	.3	<.01	<.06	<.3	<1.0
NJDEP MW70	*09-06-01*	--	--	--	--	--	--	--	--	--	--
	09-06-01	1.78	<.8	191	8430	13.9	517	<.01	23.1	<.3	<1.0
NJDEP MW103	09-25-01	--	--	3.0	2560	--	121	<.01	--	E.2	<1.0

LOCAL IDENTIFIER	DATE	THALLIUM, DISSOLVED (UG/L AS TL) (01057)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)
NJDEP MW67	*07-27-01*	*<.04*	*<1*	--	--	--	--	--	--	--	--
	07-30-01	--	--	*<.10*	*<.10*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*	*<.10*
	07-30-01	E.02	3	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW68	07-31-01	<.04	13	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW71	08-07-01	<.04	<1	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW70	*09-06-01*	--	--	*<.10*	*<.10*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*	*<.10*
	09-06-01	<.04	247	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW103	09-25-01	<.04	37	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10

LOCAL IDENTIFIER	DATE	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)
NJDEP MW67	*07-27-01*	--	--	--	--	--	--	--	--	--	--
	07-30-01	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*	*<.2*
	07-30-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP MW68	07-31-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP MW71	08-07-01	<.10	<.10	<.20	<.20	<.10	<.2	.36	<.10	<.10	<.2
NJDEP MW70	*09-06-01*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*	*1.66*	*<.10*	*<.10*	*<.2*
	09-06-01	<.10	<.10	<.20	<.20	<.10	<.2	1.72	<.10	<.10	<.2
NJDEP MW103	09-25-01	<.10	<.10	<.20	<.20	<.10	.2	2.72	<.10	.64	<.2

E Estimated value.
< Actual value is known to be less than the value shown.

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	DATE	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)
NJDEP MW67	*07-27-01*	--	--	--	--	--	--	--	--	--	--
	07-30-01	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*	*<.2*	*<.2*	*<.20*	*<.10*
	07-30-01	<.2	<.2	<.10	<.2	<.10	<.10	E.1	<.2	<.20	<.10
NJDEP MW68	07-31-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP MW71	08-07-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP MW70	*09-06-01*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*	*1.1*	*<.2*	*<.20*	*<.10*
	09-06-01	<.2	<.2	<.10	<.2	<.10	<.10	1.1	<.2	<.20	<.10
NJDEP MW103	09-25-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	E.1	<.20	<.10

LOCAL IDENT-I-FIER	DATE	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)
NJDEP MW67	*07-27-01*	--	--	--	--	--	--	--	--	--	--
	07-30-01	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*	--	--	--	--
	07-30-01	<.10	<.1	<.10	<.10	<.20	<.2	1.4	8.05	1.3	9.21
NJDEP MW68	07-31-01	<.10	<.1	<.10	<.10	<.20	<.2	.85	3.13	1.1	6.36
NJDEP MW71	08-07-01	<.10	<.1	<.10	<.10	<.20	<.2	1.1	.11	1.2	2.31
NJDEP MW70	*09-06-01*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*	--	--	--	--
	09-06-01	<.10	<.1	<.10	<.10	<.20	<.2	1.5	5.28	1.9	8.60
NJDEP MW103	09-25-01	<.10	<.1	<.10	<.10	<.20	<.2	1.3	2.10	2.2	3.33

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW67	401021074030601	07-30-01	1550	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW68	401335074042701	07-31-01	1010	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW71	401732074022101	08-07-01	0915	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW70	402412074073001	09-06-01	1100	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW103	402623074154701	09-25-01	1240	<.004	<.002	<.005	<.007	<.010	<.041	<.020

LOCAL IDENT-I-FIER	DATE	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)
NJDEP MW67	07-30-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW68	07-31-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW71	08-07-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW70	09-06-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.030
NJDEP MW103	09-25-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027

E Estimated value.
< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	LOCAL IDENT-I-FIER	DATE	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
NJDEP MW67		07-30-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW68		07-31-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW71		08-07-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW70		09-06-01	<.050	.014	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW103		09-25-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016

	LOCAL IDENT-I-FIER	DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
NJDEP MW67		07-30-01	<.034	<.005	<.009
NJDEP MW68		07-31-01	<.034	<.005	<.009
NJDEP MW71		08-07-01	<.034	<.005	<.009
NJDEP MW70		09-06-01	<.034	<.005	<.009
NJDEP MW103		09-25-01	<.034	<.005	<.009

E Estimated value.
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WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 13

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
*395034074112101	291419	NJDEP FORKED RIVER MW61	395034	0741121	19	20	15 - 20	121CKKD
*400052074191201	291420	NJDEP LAKEHURST MW66	400052	0741912	72	25	20 - 25	121CKKD
400204074145401	291418	NJDEP DOVER TWP MW63	400204	0741454	63	24	19 - 24	121CKKD
400346074081701	291417	NJDEP BRICK TWP MW64	400346	0740817	13	18.5	14 - 19	121CKKD

* - Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units:
121CKKD - Kirkwood-Cohansey aquifer system

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Explanation of the records, Quality-control data" in the "Introduction".

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	SAMPLE TYPE	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
NJDEP MW61	395034074112101	08-01-01	0945	ENVIRONMENTAL	.50	50	1.1	773	14
NJDEP MW66	*400052074191201*	*08-02-01*	*0730*	*FIELD BLANK*	--	--	--	--	--
		08-02-01	0900	ENVIRONMENTAL	.50	45	.7	770	47
NJDEP MW63	400204074145401	08-06-01	1010	ENVIRONMENTAL	--	30	2.8	763	106
NJDEP MW64	400346074081701	08-02-01	1140	ENVIRONMENTAL	--	60	3.2	768	40

LOCAL IDENTIFIER	DATE	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
NJDEP MW61	08-01-01	1.4	5.5	129	15.5	28	8.88	1.34	.93	12.0	6
NJDEP MW66	*08-02-01*	--	--	--	--	--	*<.01*	*<.008*	--	*<.1*	--
	08-02-01	4.7	5.6	210	15.5	41	13.2	1.88	1.94	18.7	1
NJDEP MW63	08-06-01	10.0	5.5	563	18.0	67	18.6	5.04	1.44	76.2	10
NJDEP MW64	08-02-01	3.6	4.5	1580	21.0	57	19.6	1.92	1.74	235	--

LOCAL IDENTIFIER	DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
NJDEP MW61	08-01-01	7	19.9	<.2	5.1	8.6	80	73	<.040	.12	2.75
NJDEP MW66	*08-02-01*	--	--	--	*<.1*	--	--	--	--	--	--
	08-02-01	6	--	--	--	--	--	--	<.040	E.10	3.27
NJDEP MW63	08-06-01	12	150	<.2	4.9	9.2	285	274	<.040	<.10	.560
NJDEP MW64	08-02-01	--	449	<.2	3.6	23.0	816	750	<.040	.13	3.14

LOCAL IDENTIFIER	DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)
NJDEP MW61	08-01-01	<.006	2.9	<.020	1.7	24	.05	<.2	30.5	<.06	15
NJDEP MW66	*08-02-01*	--	--	--	--	*<1*	*<.05*	*<.2*	*<1.0*	*<.06*	*<7*
	08-02-01	<.006	--	<.020	1.5	36	<.05	<.2	4.0	<.06	17
NJDEP MW63	08-06-01	<.006	--	<.020	.42	8	<.05	<.2	68.9	<.06	18
NJDEP MW64	08-02-01	E.004	3.3	<.020	1.5	987	E.03	<.2	44.9	E.06	23

E Estimated value.
< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	LOCAL IDENT-I-FIER	DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)
NJDEP MW61		08-01-01	.22	<.8	3.0	<10	E.08	14.2	<.01	.79	.4	<1.0
NJDEP MW66		*08-02-01*	*<.04*	*<.8*	*<.2*	*<10*	*.09*	*.2*	*<.01*	*<.06*	*<.3*	*<1.0*
		08-02-01	<.04	<.8	1.1	<10	.09	4.6	<.01	<.06	<.3	<1.0
NJDEP MW63		08-06-01	.04	1.0	3.9	20	.10	28.2	<.01	3.60	<.3	<1.0
NJDEP MW64		08-02-01	.36	2.9	17.7	70	.29	38.9	<.01	5.53	E.3	<1.0

	LOCAL IDENT-I-FIER	DATE	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)
NJDEP MW61		08-01-01	<.04	32	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW66		*08-02-01*	*<.04*	*<1*	--	--	--	--	--	--	--	--
		08-02-01	<.04	<1	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW63		08-06-01	E.02	7	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW64		08-02-01	<.04	38	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10

	LOCAL IDENT-I-FIER	DATE	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)
NJDEP MW61		08-01-01	<.10	<.10	<.20	<.20	<.10	<.2	.42	<.10	<.10	<.2
NJDEP MW66		*08-02-01*	--	--	--	--	--	--	--	--	--	--
		08-02-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP MW63		08-06-01	<.10	<.10	<.20	<.20	<.10	<.2	.22	<.10	<.10	<.2
NJDEP MW64		08-02-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2

	LOCAL IDENT-I-FIER	DATE	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)
NJDEP MW61		08-01-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP MW66		*08-02-01*	--	--	--	--	--	--	--	--	--	--
		08-02-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP MW63		08-06-01	<.2	<.2	<.10	<.2	<.10	<.10	E.2	<.2	<.20	<.10
NJDEP MW64		08-02-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10

	LOCAL IDENT-I-FIER	DATE	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)
NJDEP MW61		08-01-01	<.10	<.1	<.10	<.10	<.20	<.2	.73	2.46	.95	3.65
NJDEP MW66		*08-02-01*	--	--	--	--	--	--	--	--	--	--
		08-02-01	<.10	<.1	<.10	<.10	<.20	<.2	1.2	3.78	2.1	4.88
NJDEP MW63		08-06-01	<.10	<.1	<.10	<.10	<.20	<.2	2.4	8.99	3.5	5.35
NJDEP MW64		08-02-01	<.10	<.1	<.10	<.10	<.20	<.2	5.8	53.5	8.5	32.2

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW61	395034074112101	08-01-01	0945	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW66	400052074191201	08-02-01	0900	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW63	400204074145401	08-06-01	1010	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW64	400346074081701	08-02-01	1140	<.004	<.002	<.005	<.007	<.010	<.041	<.020

LOCAL IDENT-I-FIER	DATE	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)
NJDEP MW61	08-01-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW66	08-02-01	<.005	<.018	<.003	<.006	<.005	.491	<.002	<.004	<.035	<.027
NJDEP MW63	08-06-01	<.005	.046	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW64	08-02-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027

LOCAL IDENT-I-FIER	DATE	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
NJDEP MW61	08-01-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW66	08-02-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	.130	<.011	<.016
NJDEP MW63	08-06-01	<.050	.018	<.006	<.002	<.007	<.003	<.010	.021	<.011	<.016
NJDEP MW64	08-02-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016

LOCAL IDENT-I-FIER	DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
NJDEP MW61	08-01-01	<.034	<.005	<.009
NJDEP MW66	08-02-01	<.034	<.005	<.009
NJDEP MW63	08-06-01	<.034	<.005	<.009
NJDEP MW64	08-02-01	<.034	<.005	<.009

< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 14

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
*393947074464501	011404	NJDEP HAMMONTON MW54	393947	0744645	68	14	9 - 14	121CKKD
*394640074323201	051504	NJDEP WOODLAND TWP MW58	394640	0743232	68	10	5 - 10	121CKKD

* - Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units:
121CKKD - Kirkwood-Cohansey aquifer system

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Explanation of the records, Quality-control data" in the "Introduction".

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	SAMPLE TYPE	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
NJDEP MW54	393947074464501	07-26-01	1100	ENVIRONMENTAL	.50	35	1.0	758	--
NJDEP MW58	*394640074323201*	*07-27-01*	*1330*	*EQUIPMENT BLANK*	--	--	--	--	--
		07-31-01	*0845*	*AMBIENT BLANK*	--	--	--	--	--
		07-31-01	1000	ENVIRONMENTAL	.50	40	1.8	769	3

LOCAL IDENTIFIER	DATE	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
NJDEP MW54	07-26-01	<.2	5.1	239	19.0	84	16.8	10.3	5.18	3.8	3
NJDEP MW58	*07-27-01*	--	--	--	--	--	*<.01*	*<.008*	--	*<.1*	--
	07-31-01	--	--	--	--	--	--	--	--	--	--
	07-31-01	.3	5.1	54	21.0	4	.91	.465	4.87	1.9	3

LOCAL IDENTIFIER	DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
NJDEP MW54	07-26-01	4	12.5	<.2	3.4	40.1	140	133	<.040	.38	8.69
NJDEP MW58	*07-27-01*	--	--	--	*<.1*	--	--	--	--	--	--
	07-31-01	--	--	--	--	--	--	--	--	--	--
	07-31-01	3	4.0	<.2	2.4	11.2	35	29	<.040	E.07	E.038

LOCAL IDENTIFIER	DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)
NJDEP MW54	07-26-01	.026	9.1	<.020	4.3	263	.13	E.1	35.7	E.04	38
NJDEP MW58	*07-27-01*	--	--	--	--	*<1*	*E.03*	*<.2*	*<1.0*	*<.06*	*<7*
	07-31-01	--	--	--	--	--	--	--	--	--	--
	07-31-01	<.006	--	<.020	1.7	158	.05	.4	12.7	<.06	14

E Estimated value.
< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	LOCAL IDENT-I-FIER	DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)
NJDEP MW54		07-26-01	.07	E.6	1.3	90	.12	12.7	<.01	.47	E.2	<1.0
NJDEP MW58		*07-27-01*	*<.04*	*<.8*	*<.2*	*<10*	*<.08*	*<.1*	*<.01*	*<.06*	*<.3*	*<1.0*
		07-31-01	--	--	--	--	--	--	--	--	--	--
		07-31-01	.12	<.8	.5	1320	<.08	41.3	<.01	.90	<.3	<1.0

	LOCAL IDENT-I-FIER	DATE	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)
NJDEP MW54		07-26-01	.05	<1	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP MW58		*07-27-01*	*<.04*	*<1*	--	--	--	--	--	--	--	--
		07-31-01	--	--	*<.10*	*<.10*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*	*<.10*
		07-31-01	.07	9	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10

	LOCAL IDENT-I-FIER	DATE	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)
NJDEP MW54		07-26-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP MW58		*07-27-01*	--	--	--	--	--	--	--	--	--	--
		07-31-01	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*	*<.2*
		07-31-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2

	LOCAL IDENT-I-FIER	DATE	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)
NJDEP MW54		07-26-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP MW58		*07-27-01*	--	--	--	--	--	--	--	--	--	--
		07-31-01	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*	*<.2*	*<.2*	*<.20*	*<.10*
		07-31-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10

	LOCAL IDENT-I-FIER	DATE	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)
NJDEP MW54		07-26-01	<.10	<.1	<.10	<.10	<.20	<.2	1.1	2.43	1.7	8.77
NJDEP MW58		*07-27-01*	--	--	--	--	--	--	--	--	--	--
		07-31-01	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*	--	--	--	--
		07-31-01	<.10	<.1	.41	<.10	<.20	<.2	.70	3.51	1.1	7.61

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW54	393947074464501	07-26-01	1100	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW58	394640074323201	07-31-01	1000	<.004	<.002	<.005	<.007	<.010	<.041	<.020

LOCAL IDENT-I-FIER	DATE	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)
NJDEP MW54	07-26-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW58	07-31-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027

LOCAL IDENT-I-FIER	DATE	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
NJDEP MW54	07-26-01	<.050	E.010	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW58	07-31-01	<.050	<.013	<.006	<.002	.007	<.003	<.010	<.015	<.011	<.016

LOCAL IDENT-I-FIER	DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
NJDEP MW54	07-26-01	E.297	<.005	<.009
NJDEP MW58	07-31-01	<.034	<.005	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

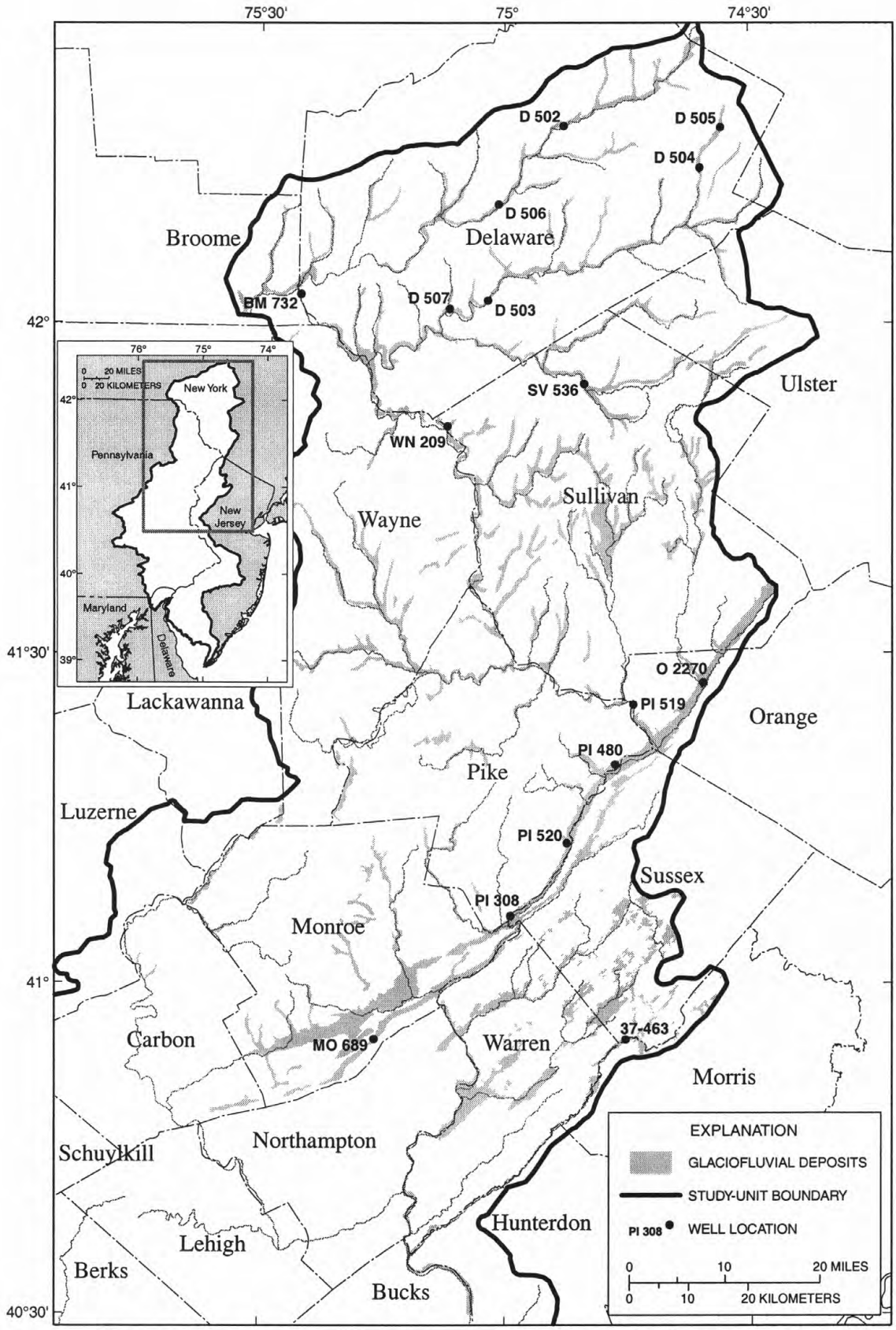

Figure 63. Location of sites in the Delaware River Basin National Water-Quality Assessment Program, ground-water synoptic study in the glaciofluvial deposits within the New England, Valley and Ridge, and Appalachian Plateau Physiographic Provinces, water year 2001.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES

The following tables contain site, water-level, and water-quality data from a network of 16 domestic and monitoring wells. The network was established as part of the National Water-Quality Assessment (NAWQA) Program in the Delaware River Basin (DELR).

The wells were sampled to assess the status of ground-water quality in the glaciofluvial deposits of the New England, Valley and Ridge, and Appalachian Plateau Physiographic Provinces. Samples were tested for physical characteristics, nutrients, major ions, trace elements, dissolved and volatile organic compounds (VOCs), pesticides (including their metabolites), and radioisotopes. Many VOCs and pesticide constituents were not detected at any of the 16 wells.

Tables listing all of the VOC and pesticide schedule analytes and their reporting levels are in "Explanation of the Records" in the "Introduction." Only VOCs and pesticide compounds measured at or above the reporting levels at one or more sites (either surface water or ground water) of the DELR NAWQA Project are listed in the water-quality table.

WATER-QUALITY CONTROL DATA

As part of the water-quality sampling for the DELR NAWQA, an extensive quality-assurance plan was executed to ensure the integrity of the sample results. Quality-control samples were collected as blanks, including ambient, trip, source-solution, and equipment blanks; replicates; and spikes (both field and lab). These quality-control samples were analyzed for nutrients, major ions, trace elements, dissolved and volatile organic compounds, pesticides and their metabolites, and radioisotopes. Source-solution blanks were analyzed for volatile organic compounds (VOCs), and spikes were analyzed for pesticides and VOCs.

The following summarizes the quality-control sample results: Fifteen replicate samples were collected at 4 separate sample sites for one or more of the above chemical groups. All replicates closely reproduced the results for the environmental samples. Results from replicate samples are included within the water-quality tables on following pages. Twenty-six blank samples were collected. Concentrations of all constituents analyzed in the blank samples were less than the method detection limits, except for dissolved residue, which had one hit of 17 mg/L. The two field pesticides spikes of 100 uL/1 liter of sample had recoveries between 97 and 106 percent. The two lab pesticides spikes of 200 uL/1 liter of sample had recoveries of between 71 and 112 percent. The one VOCs spike of 20 uL/40mL of sample had a recovery between 98 and 100 percent. One VOC spike was unrecoverable due to a spiking error (sample was spiked with 10 uL/40mL of sample instead of the required 20 uL).

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES,--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL ID	STATION NUMBER	DATE	TIME	SAMPLE TYPE	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)
MONROE COUNTY PA									
MO 689	405501075155401	07-18-01	1200	ENVIRONMENTAL	1028	1028	470	64	14.59
PIKE COUNTY PA									
PI 308	410612074591501	07-16-01	1200	ENVIRONMENTAL	1028	1028	350	108	30.11
PI 480	411957074462601	07-11-01	1200	ENVIRONMENTAL	1028	1028	465	213	86.99
		07-11-01	*1201*	*REPLICATE*	*80020*	*1028*	*465*	*213*	*86.99*
		07-11-01	*1210*	*REPLICATE*	*80020*	*1028*	*465*	*213*	*86.99*
PI 519	412522074441301	07-10-01	1100	ENVIRONMENTAL	1028	1028	600	120	103.82
PI 520	411252074522001	07-12-01	1100	ENVIRONMENTAL	1028	1028	440	200	38.48
WAYNE COUNTY PA									
WN 209	415040075070301	07-25-01	1200	ENVIRONMENTAL	1028	1028	820	142	20.16
SUSSEX COUNTY NJ									
370463	405459074451201	07-17-01	1300	ENVIRONMENTAL	1028	1028	660	123	30.68
		07-17-01	*1301*	*REPLICATE*	*80020*	*1028*	*660*	*123*	*30.68*
		07-17-01	*1304*	*REPLICATE*	*80020*	*1028*	*660*	*123*	*30.68*
BROOME COUNTY NY									
BM 732	420244075251101	07-26-01	1200	ENVIRONMENTAL	1028	1028	1000	22	9.54
DELAWARE COUNTY NY									
D 502	421758074524101	07-24-01	1200	ENVIRONMENTAL	1028	1028	1380	25.5	21.55
D 503	420207075020401	07-30-01	1100	ENVIRONMENTAL	1028	1028	1080	120	15.98
D 504	421409074355701	07-31-01	1100	ENVIRONMENTAL	1028	1028	1540	45	18.17
D 505	421747074332301	08-14-01	1300	ENVIRONMENTAL	1028	1028	1500	70.4	3.73
		08-14-01	*1301*	*REPLICATE*	*80020*	*1028*	*1500*	*70.4*	*3.73*
		08-14-01	*1304*	*REPLICATE*	*80020*	*1028*	*1500*	*70.4*	*3.73*
D 506	421052075004501	08-15-01	1400	ENVIRONMENTAL	1028	1028	1280	128	38.70
D 507	420125075064801	08-01-01	1200	ENVIRONMENTAL	1028	1028	1034	23	15.71
ORANGE COUNTY NY									
O 2270	412722074354501	08-09-01	1200	ENVIRONMENTAL	1028	1028	500	28	20.00
		08-09-01	*1201*	*REPLICATE*	*80020*	*1028*	*500*	*28*	*20.00*
		08-09-01	*1210*	*REPLICATE*	*80020*	*1028*	*500*	*28*	*20.00*
SULLIVAN COUNTY NY									
SV 536	415429074501101	07-23-01	1100	ENVIRONMENTAL	1028	1028	1460	125	32.61

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES,--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL ID	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (mS/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
MONROE COUNTY PA										
MO 689	.6	.4	8.1	211	14.6	110	30.3	7.13	.35	2.3
PIKE COUNTY PA										
PI 308	3.4	7.3	6.2	100	10.4	32	9.55	1.93	.72	5.2
PI 480	8.1	3.1	7.7	329	11.8	140	45.7	6.17	.47	9.0
	8.1	*3.1*	*7.7*	*329*	*11.8*	*140*	*45.8*	*6.18*	*.48*	*9.1*
	8.1	*3.1*	*7.7*	*329*	*11.8*	--	--	--	--	--
PI 519	4.8	10.9	6.5	95	13.0	39	11.7	2.25	.30	2.7
PI 520	1.6	9.6	7.2	210	11.2	77	25.9	2.94	.47	8.8
WAYNE COUNTY PA										
WN 209	.3	<.2	7.9	190	13.8	80	25.1	4.13	.79	9.2
SUSSEX COUNTY NJ										
370463	15	8.1	8.2	514	13.2	160	36.3	17.4	1.07	40.9
	15	*8.1*	*8.2*	*514*	*13.2*	--	--	--	--	--
	15	*8.1*	*8.2*	*514*	*13.2*	--	--	--	--	--
BROOME COUNTY NY										
BM 732	15	2.1	6.0	115	11.0	32	8.82	2.44	1.08	7.9
DELAWARE COUNTY NY										
D 502	13	6.6	6.2	174	15.4	65	19.3	4.00	1.24	7.1
D 503	3.7	5.8	5.8	221	11.4	75	17.3	7.67	1.07	9.4
D 504	1.3	10.2	6.5	153	11.0	45	14.6	2.18	.70	11.0
D 505	1.4	4.5	6.5	74	14.6	27	8.53	1.43	.69	3.1
	1.4	*4.5*	*6.5*	*74*	*14.6*	--	--	--	--	--
	1.4	*4.5*	*6.5*	*74*	*14.6*	--	--	--	--	--
D 506	4.9	7.6	6.3	86	13.0	31	7.98	2.70	1.01	3.4
D 507	.4	7.3	5.8	349	12.2	48	13.9	3.24	2.64	43.5
ORANGE COUNTY NY										
O 2270	.5	5.5	5.9	143	15.2	35	10.3	2.10	.82	11.3
	.5	*5.5*	*5.9*	*143*	*15.2*	*35*	*10.4*	*2.10*	*.83*	*11.4*
	.5	*5.5*	*5.9*	*143*	*15.2*	--	--	--	--	--
SULLIVAN COUNTY NY										
SV 536	2.4	.6	7.5	138	11.8	64	20.0	3.42	.68	2.2

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES,--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL ID	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
MONROE COUNTY PA										
MO 689	95	.01	2.0	<.2	7.5	13.6	133	121	<.040	<.10
PIKE COUNTY PA										
PI 308	14	.02	9.3	<.2	8.8	12.7	67	57	E.022	<.10
PI 480	78	.02	34.4	<.2	8.5	26.1	230	180	<.040	<.10
	78	*.02*	*34.3*	*<.2*	*8.5*	*26.0*	*230*	*180*	*<.040*	*<.10*
	78	--	--	--	--	--	--	--	--	--
PI 519	21	<.01	4.5	<.2	8.8	10.2	66	59	<.040	<.10
PI 520	43	.02	26.7	<.2	7.7	14.0	127	113	<.040	<.10
WAYNE COUNTY PA										
WN 209	94	.03	2.3	E.1	7.2	3.5	104	110	.055	<.10
SUSSEX COUNTY NJ										
370463	96	<.01	90.3	E.1	17.5	13.2	289	275	<.040	<.10
	96	--	--	--	--	--	--	--	--	--
	96	--	--	--	--	--	--	--	--	--
BROOME COUNTY NY										
BM 732	18	.02	15.2	<.2	4.5	8.6	59	62	<.040	<.10
DELAWARE COUNTY NY										
D 502	29	.02	9.0	<.2	8.3	14.1	128	109	<.040	E.07
D 503	20	.05	34.0	<.2	10.2	11.6	162	125	<.040	<.10
D 504	44	.02	19.0	<.2	7.3	9.7	105	100	<.040	<.10
D 505	22	.02	3.9	<.2	5.2	4.8	41	42	<.040	<.10
	22	--	--	--	--	--	--	--	--	--
	22	--	--	--	--	--	--	--	--	--
D 506	21	<.01	5.2	<.2	5.2	8.4	42	50	E.036	<.10
D 507	22	.04	83.9	<.2	4.2	9.1	205	178	<.040	E.05
ORANGE COUNTY NY										
O 2270	14	.03	24.3	<.2	5.2	9.1	99	78	<.040	<.10
	14	*.03*	*24.1*	*<.2*	*5.3*	*8.9*	*99*	*77*	*<.040*	*<.10*
	14	--	--	--	--	--	--	--	--	--
SULLIVAN COUNTY NY										
SV 536	57	<.01	4.6	.2	5.0	1.6	75	73	<.040	<.10

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES,--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL ID	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	TOTAL COLI-FORM, M ENDO MF, WTR (COL/ 100 ML) (31501)	E COLI, NA-MUG, WATER (COL/ 100 ML) (50278)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)
MONROE COUNTY PA										
MO 689	.052	E.005	.055	.014	.018	3.8	<1	--	<1	<.05
PIKE COUNTY PA										
PI 308	.134	E.003	--	E.005	<.020	.37	<1	--	<1	<.05
PI 480	.544	<.006	--	<.006	<.020	<.30	<1	--	<1	.05
	.537	*<.006*	--	*<.006*	*<.020*	--	--	--	--	--
	--	--	--	--	--	--	--	--	*<1*	*E.05*
PI 519	1.23	<.006	--	<.006	<.020	E.22	<1	--	<1	<.05
PI 520	.161	<.006	--	<.006	<.020	E.25	<1	--	<1	<.05
WAYNE COUNTY PA										
WN 209	E.025	<.006	.107	.040	.035	<.30	<1	--	<1	<.05
SUSSEX COUNTY NJ										
370463	.145	E.004	.098	.035	.032	.59	>80	<1	1	<.05
	--	--	--	--	--	*.41*	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
BROOME COUNTY NY										
BM 732	.442	<.006	--	.007	<.020	E.28	E8	<1	<1	<.05
DELAWARE COUNTY NY										
D 502	6.29	<.006	--	E.004	<.020	.43	>80	<1	<1	E.03
D 503	4.89	<.006	--	.014	E.012	.37	<1	--	2	<.05
D 504	2.02	<.006	--	.011	E.009	E.27	<1	--	<1	.06
D 505	.333	<.006	--	.006	<.020	.41	<1	--	<1	<.05
	--	--	--	--	--	*E.32*	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
D 506	.651	<.006	--	<.006	<.020	E.29	<1	--	<1	E.03
D 507	1.01	<.006	--	.006	<.020	E.27	<1	--	2	<.05
ORANGE COUNTY NY										
O 2270	1.36	<.006	--	.010	<.020	E.23	E2	<1	1	<.05
	1.36	*<.006*	--	*.010*	*<.020*	--	--	--	--	--
	--	--	--	--	--	--	--	--	*<1*	*<.05*
SULLIVAN COUNTY NY										
SV 536	.210	<.006	.144	.054	.047	1.2	E2	<1	<1	<.05

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES,--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL ID	ARSENIC DIS-SOLVED (uG/L AS AS) (01000)	BARIUM, DIS-SOLVED (uG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (uG/L AS BE) (01010)	BORON, DIS-SOLVED (uG/L AS B) (01020)	CADMIUM DIS-SOLVED (uG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (uG/L AS CR) (01030)	COBALT, DIS-SOLVED (uG/L AS CO) (01035)	COPPER, DIS-SOLVED (uG/L AS CU) (01040)	IRON, DIS-SOLVED (uG/L AS FE) (01046)	LEAD, DIS-SOLVED (uG/L AS PB) (01049)
MONROE COUNTY PA										
MO 689	1.2	36.2	<.06	<7	<.04	<.8	.04	1.6	<10	E.06
PIKE COUNTY PA										
PI 308	<.2	2.2	<.06	10	<.04	<.8	.04	17.3	70	.43
PI 480	E.1	8.3	<.06	E5	<.04	<.8	.07	1.5	10	.46
	--	--	--	--	--	--	--	--	*20*	--
	<.2	*8.2*	*<.06*	*E6*	*<.04*	*<.8*	*.07*	*1.4*	--	*.50*
PI 519	<.2	13.8	<.06	16	E.03	<.8	.02	14.2	M	.92
PI 520	<.2	3.3	<.06	10	<.04	E.6	.04	2.9	M	.09
WAYNE COUNTY PA										
WN 209	.8	41.1	<.06	14	<.04	<.8	.04	<.2	50	.09
SUSSEX COUNTY NJ										
370463	E.1	16.8	<.06	E6	<.04	<.8	.04	3.1	30	.42
	--	--	--	--	--	--	--	--	--	--
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BROOME COUNTY NY										
BM 732	<.2	33.2	<.06	7	<.04	<.8	.03	10.6	190	.31
DELAWARE COUNTY NY										
D 502	E.1	76.7	<.06	10	<.04	<.8	.06	86.8	120	.38
D 503	E.1	32.4	<.06	8	E.04	<.8	.03	11.5	10	.48
D 504	.6	38.1	<.06	9	<.04	<.8	.03	21.0	40	1.03
D 505	.2	15.9	<.06	8	<.04	<.8	.02	<.2	<10	<.08
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
D 506	E.1	20.1	<.06	8	<.04	<.8	2.04	<.2	570	<.08
D 507	<.2	69.8	<.06	15	E.02	<.8	.06	52.5	110	1.86
ORANGE COUNTY NY										
O 2270	E.1	75.8	<.06	10	<.04	<.8	.04	31.6	10	2.02
	--	--	--	--	--	--	--	--	*10*	--
	E.1	*77.3*	*<.06*	*11*	*<.04*	*<.8*	*.04*	*35.1*	--	*2.29*
SULLIVAN COUNTY NY										
SV 536	E.2	8.0	<.06	<7	<.04	<.8	.02	2.0	M	<.08

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not qualtified.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES,--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL ID	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
MONROE COUNTY PA										
MO 689	3.6	3.6	.6	<.06	.8	<1.0	337	<.04	<.2	1
PIKE COUNTY PA										
PI 308	2.0	5.0	<.2	.71	<.3	<1.0	39.2	<.04	<.2	3
PI 480	5.9	1.6	.3	<.06	.5	<1.0	131	<.04	<.2	1
	--	--	--	--	--	--	--	--	--	--
	6.1	*1.7*	*.3*	*<.06*	*.3*	*<1.0*	*131*	*<.04*	*<.2*	*2*
PI 519	1.1	1.4	<.2	<.06	<.3	<1.0	19.1	.04	<.2	4
PI 520	2.6	.7	<.2	<.06	<.3	<1.0	72.8	<.04	<.2	6
WAYNE COUNTY PA										
WN 209	2.7	490	.9	<.06	<.3	<1.0	239	<.04	E.2	<1
SUSSEX COUNTY NJ										
370463	.5	1.3	.3	<.06	<.3	<1.0	59.1	<.04	.4	1
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
BROOME COUNTY NY										
BM 732	E.2	5.9	<.2	.11	<.3	<1.0	29.2	<.04	<.2	4
DELAWARE COUNTY NY										
D 502	.8	7.7	<.2	<.06	E.2	<1.0	60.2	<.04	<.2	15
D 503	2.0	9.9	<.2	.68	E.2	<1.0	67.8	<.04	<.2	8
D 504	.6	2.0	<.2	<.06	<.3	<1.0	45.5	<.04	<.2	4
D 505	E.3	11.1	.4	.08	<.3	<1.0	28.7	<.04	<.2	<1
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
D 506	.4	157	<.2	5.10	<.3	<1.0	20.1	<.04	E.2	2
D 507	E.3	4.0	<.2	.17	<.3	<1.0	45.1	<.04	<.2	14
ORANGE COUNTY NY										
O 2270	E.2	6.3	<.2	<.06	E.2	<1.0	48.5	<.04	<.2	24
	--	--	--	--	--	--	--	--	--	--
	E.2	*7.5*	*<.2*	*.06*	*<.3*	*<1.0*	*48.2*	*<.04*	*<.2*	*19*
SULLIVAN COUNTY NY										
SV 536	.4	8.2	<.2	<.06	E.2	<1.0	28.9	<.04	<.2	2

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES,--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL ID	ACETO-CHLOR ESA FLTRD 0.7 mM GF REC (UG/L) (61029)	ACETO-CHLOR OA FLTRD 0.7 mM GF REC (UG/L) (61030)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR OA FLTRD 0.7 mM GF REC (UG/L) (61031)	ALA-CHLOR, (ESA) WAT FLT GF 0.7U REC (UG/L) (50009)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	CAF-FEINE, WATER FLTRD REC (UG/L) (50305)
MONROE COUNTY PA									
MO 689	<.05	<.05	--	<.05	<.050	--	--	<.009	<.010
PIKE COUNTY PA									
PI 308	<.05	<.05	<.004	<.05	<.050	<.002	<.005	<.007	<.010
PI 480	<.05	<.05	<.004	<.05	<.050	<.002	<.005	<.007	<.010
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
PI 519	<.05	<.05	<.004	<.05	<.050	<.002	<.005	<.007	<.010
PI 520	<.05	<.05	<.004	<.05	<.050	<.002	<.005	<.007	<.010
WAYNE COUNTY PA									
WN 209	<.05	<.05	<.004	<.05	<.050	<.002	<.005	<.007	<.010
SUSSEX COUNTY NJ									
370463	<.05	<.05	<.004	.05	<.050	<.002	<.005	<.007	<.010
	<.05	*<.05*	*<.004*	*<.05*	*<.050*	*<.002*	*<.005*	*<.007*	*<.010*
	--	--	--	--	--	--	--	--	--
BROOME COUNTY NY									
BM 732	<.05	<.05	<.004	<.05	<.050	<.002	<.005	E.004	<.010
DELAWARE COUNTY NY									
D 502	<.05	<.05	<.004	<.05	<.050	<.002	<.005	.013	<.010
D 503	<.05	<.05	<.004	<.05	.080	<.002	<.005	<.007	<.010
D 504	<.05	<.05	<.004	<.05	<.050	<.002	<.005	E.006	<.010
D 505	<.05	<.05	<.004	<.05	<.050	<.002	<.005	<.007	<.010
	<.05	*<.05*	*<.004*	*<.05*	*<.050*	*<.002*	*<.005*	*<.007*	*<.010*
	--	--	--	--	--	--	--	--	--
D 506	<.05	<.05	<.004	<.05	<.050	<.002	<.005	E.011	<.010
D 507	<.05	<.05	<.004	<.05	<.050	<.002	<.005	<.007	<.010
ORANGE COUNTY NY									
O 2270	<.05	<.05	<.004	<.05	<.050	<.002	<.005	<.007	<.010
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
SULLIVAN COUNTY NY									
SV 536	<.05	<.05	<.004	<.05	<.050	<.002	<.005	<.007	E.004

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES,--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL ID	CAR-BARYL WATER FLTRD 0.7 m GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 m GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 m GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)
MONROE COUNTY PA									
MO 689	--	--	--	--	--	<.028	<.04	--	--
PIKE COUNTY PA									
PI 308	<.041	<.020	<.005	<.018	<.003	<.006	<.04	<.005	<.005
PI 480	<.041	<.020	<.005	<.018	<.003	<.006	<.04	<.005	<.005
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
PI 519	<.041	<.020	<.005	<.018	<.003	<.006	<.04	<.005	<.005
PI 520	<.041	<.020	<.005	<.018	<.003	<.006	<.04	<.005	<.005
WAYNE COUNTY PA									
WN 209	E.005	<.020	<.005	<.018	<.003	<.006	<.04	<.005	<.005
SUSSEX COUNTY NJ									
370463	<.041	<.020	<.005	<.018	<.003	<.006	<.04	<.005	<.005
	<.041	*<.020*	*<.005*	*<.018*	*<.003*	*<.006*	*<.04*	*<.005*	*<.005*
	--	--	--	--	--	--	--	--	--
BROOME COUNTY NY									
BM 732	<.041	<.020	<.005	<.018	<.003	E.004	<.04	<.005	<.005
DELAWARE COUNTY NY									
D 502	<.041	<.020	<.005	<.018	<.003	E.022	<.04	<.005	<.005
D 503	<.041	<.020	<.005	<.018	<.003	<.006	<.04	<.005	<.005
D 504	<.041	<.020	<.005	<.018	<.003	E.002	<.04	<.005	<.005
D 505	<.041	<.020	<.005	<.018	<.003	E.003	<.04	<.005	<.005
	<.041	*<.020*	*<.005*	*<.018*	*<.003*	*E.003*	*<.04*	*<.005*	*<.005*
	--	--	--	--	--	--	--	--	--
D 506	<.041	<.020	<.005	<.018	<.003	E.004	E.01	<.005	<.005
D 507	<.041	<.020	<.005	<.018	<.003	<.006	<.04	<.005	<.005
ORANGE COUNTY NY									
O 2270	<.041	<.020	<.005	<.018	<.003	<.006	<.04	<.005	<.005
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
SULLIVAN COUNTY NY									
SV 536	<.041	<.020	<.005	<.018	<.003	<.006	<.04	<.005	<.005

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES,--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL ID	DIMETH-ENAMID OXA, WATER FLT, REC (UG/L) (62482)	DIMETH-ENAMID, ESA, WAT FLT (UG/L) (61951)	EPTC WATER FLTRD 0.7 m GF, REC (UG/L) (82668)	FLUFEN-ACET, ESA, WAT FLT (UG/L) (61952)	FLUFE-NACET OXA WATER FLT, REC (UG/L) (62483)	IMAZ-AQUIN WATER FLTRD REC (UG/L) (50356)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 m GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)
MONROE COUNTY PA									
MO 689	<.0500	<.05	--	<.05	<.0500	<.016	--	--	--
PIKE COUNTY PA									
PI 308	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
PI 480	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
PI 519	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
PI 520	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
WAYNE COUNTY PA									
WN 209	<.0500	<.05	<.002	<.05	<.0500	<.002	<.004	<.035	<.027
SUSSEX COUNTY NJ									
370463	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
	<.0500	*<.05*	*<.002*	*<.05*	*<.0500*	*<.016*	*<.004*	*<.035*	*<.027*
	--	--	--	--	--	--	--	--	--
BROOME COUNTY NY									
BM 732	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
DELAWARE COUNTY NY									
D 502	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
D 503	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
D 504	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
D 505	<.0500	<.05	<.002	<.05	<.0500	E.021	<.004	<.035	<.027
	<.0500	*<.05*	*<.002*	*<.05*	*<.0500*	*E.019*	*<.004*	*<.035*	*<.027*
	--	--	--	--	--	--	--	--	--
D 506	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
D 507	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
ORANGE COUNTY NY									
O 2270	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
SULLIVAN COUNTY NY									
SV 536	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES,--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL ID	METHYL AZIN-PHOS WAT FLT 0.7 m GF, REC (UG/L) (82686)	METOLA-CHLOR ESA FLTRD 0.7 mM GF REC (UG/L) (61043)	METOLA-CHLOR OA FLTRD 0.7 mM GF REC (UG/L) (61044)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 m GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 m GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 m GF, REC (UG/L) (82683)
MONROE COUNTY PA									
MO 689	--	<.05	<.05	--	--	--	--	--	--
PIKE COUNTY PA									
PI 308	<.050	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
PI 480	<.050	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
PI 519	<.050	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
PI 520	<.050	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
WAYNE COUNTY PA									
WN 209	<.050	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
SUSSEX COUNTY NJ									
370463	<.050	.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
	<.050	*<.05*	*<.05*	*<.013*	*<.006*	*<.002*	*<.007*	*<.003*	*<.010*
	--	--	--	--	--	--	--	--	--
BROOME COUNTY NY									
BM 732	<.050	.17	<.05	<.013	<.006	<.002	<.007	<.003	<.010
DELAWARE COUNTY NY									
D 502	<.050	1.27	<.05	<.013	<.006	<.002	<.007	<.003	<.010
D 503	<.050	.67	<.05	<.013	<.006	<.002	<.007	<.003	<.010
D 504	<.050	.26	<.05	<.013	<.006	<.002	<.007	<.003	<.010
D 505	<.050	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
	<.050	*<.05*	*<.05*	*<.013*	*<.006*	*<.002*	*<.007*	*<.003*	*<.010*
	--	--	--	--	--	--	--	--	--
D 506	<.050	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
D 507	<.050	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
ORANGE COUNTY NY									
O 2270	<.050	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
SULLIVAN COUNTY NY									
SV 536	<.050	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010

< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES,--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL ID	PROMETON, WATER, DISS, REC (UG/L) (04037)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 m GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 m GF, REC (UG/L) (82665)	THIOBENCARB WATER FLTRD 0.7 m GF, REC (UG/L) (82681)	TRIFLURALIN WAT FLT 0.7 m GF, REC (UG/L) (82661)	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)
MONROE COUNTY PA									
MO 689	--	--	<.006	--	--	--	<.03	<.04	<.04
PIKE COUNTY PA									
PI 308	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
PI 480	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
PI 519	<.015	<.011	<.016	<.034	<.005	<.009	E.03	<.04	<.04
PI 520	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
WAYNE COUNTY PA									
WN 209	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
SUSSEX COUNTY NJ									
370463	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
	<.015	*<.011*	*<.016*	*<.034*	*<.005*	*<.009*	--	--	--
	--	--	--	--	--	--	*<.03*	*<.04*	*<.04*
BROOME COUNTY NY									
BM 732	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
DELAWARE COUNTY NY									
D 502	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
D 503	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
D 504	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
D 505	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
	<.015	*<.011*	*<.016*	*<.034*	*<.005*	*<.009*	--	--	--
	--	--	--	--	--	--	*<.03*	*<.04*	*<.04*
D 506	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
D 507	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
ORANGE COUNTY NY									
O 2270	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
SULLIVAN COUNTY NY									
SV 536	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES,--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL ID	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)
MONROE COUNTY PA									
MO 689	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
PIKE COUNTY PA									
PI 308	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
PI 480	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
PI 519	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
PI 520	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
WAYNE COUNTY PA									
WN 209	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
SUSSEX COUNTY NJ									
370463	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
	--	--	--	--	--	--	--	--	--
	<7	*<.3*	*<.2*	*<.06*	*<.04*	*<.03*	*<.05*	*<.03*	*<.03*
BROOME COUNTY NY									
BM 732	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
DELAWARE COUNTY NY									
D 502	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
D 503	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
D 504	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
D 505	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
	--	--	--	--	--	--	--	--	--
	<7	*<.3*	*<.2*	*<.06*	*<.04*	*<.03*	*<.05*	*<.03*	*<.03*
D 506	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
D 507	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
ORANGE COUNTY NY									
O 2270	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
SULLIVAN COUNTY NY									
SV 536	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03

< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES,--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL ID	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UUG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)
MONROE COUNTY PA									
MO 689	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
PIKE COUNTY PA									
PI 308	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
PI 480	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
PI 519	<.04	<.06	<.07	<.03	<.2	E.04	<.04	<.05	<.3
PI 520	<.04	<.06	<.07	<.03	<.2	E.08	<.04	<.05	<.3
WAYNE COUNTY PA									
WN 209	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
SUSSEX COUNTY NJ									
370463	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
	--	--	--	--	--	--	--	--	--
	<.04	*<.06*	*<.07*	*<.03*	*<.2*	*<.02*	*<.04*	*<.05*	*<.3*
BROOME COUNTY NY									
BM 732	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
DELAWARE COUNTY NY									
D 502	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
D 503	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	E.6
D 504	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
D 505	<.04	<.06	<.07	<.03	<.2	E.03	<.04	<.05	<.3
	--	--	--	--	--	--	--	--	--
	<.04	*<.06*	*<.07*	*<.03*	*<.2*	*E.04*	*<.04*	*<.05*	*<.3*
D 506	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
D 507	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
ORANGE COUNTY NY									
O 2270	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
SULLIVAN COUNTY NY									
SV 536	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3

E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES,--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL ID	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)
MONROE COUNTY PA									
MO 689	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
PIKE COUNTY PA									
PI 308	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
PI 480	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
PI 519	<.2	<.1	<.03	<.06	<2	.7	<.2	<.2	<.06
PI 520	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
WAYNE COUNTY PA									
WN 209	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
SUSSEX COUNTY NJ									
370463	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
	--	--	--	--	--	--	--	--	--
	<.2	*<.1*	*<.03*	*<.06*	*<2*	*<.2*	*<.2*	*<.2*	*<.06*
BROOME COUNTY NY									
BM 732	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
DELAWARE COUNTY NY									
D 502	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
D 503	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
D 504	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
D 505	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
	--	--	--	--	--	--	--	--	--
	<.2	*<.1*	*<.03*	*<.06*	*<2*	*<.2*	*<.2*	*<.2*	*<.06*
D 506	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
D 507	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
ORANGE COUNTY NY									
O 2270	<.2	<.1	<.03	<.06	<2	E.1	<.2	<.2	<.06
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
SULLIVAN COUNTY NY									
SV 536	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06

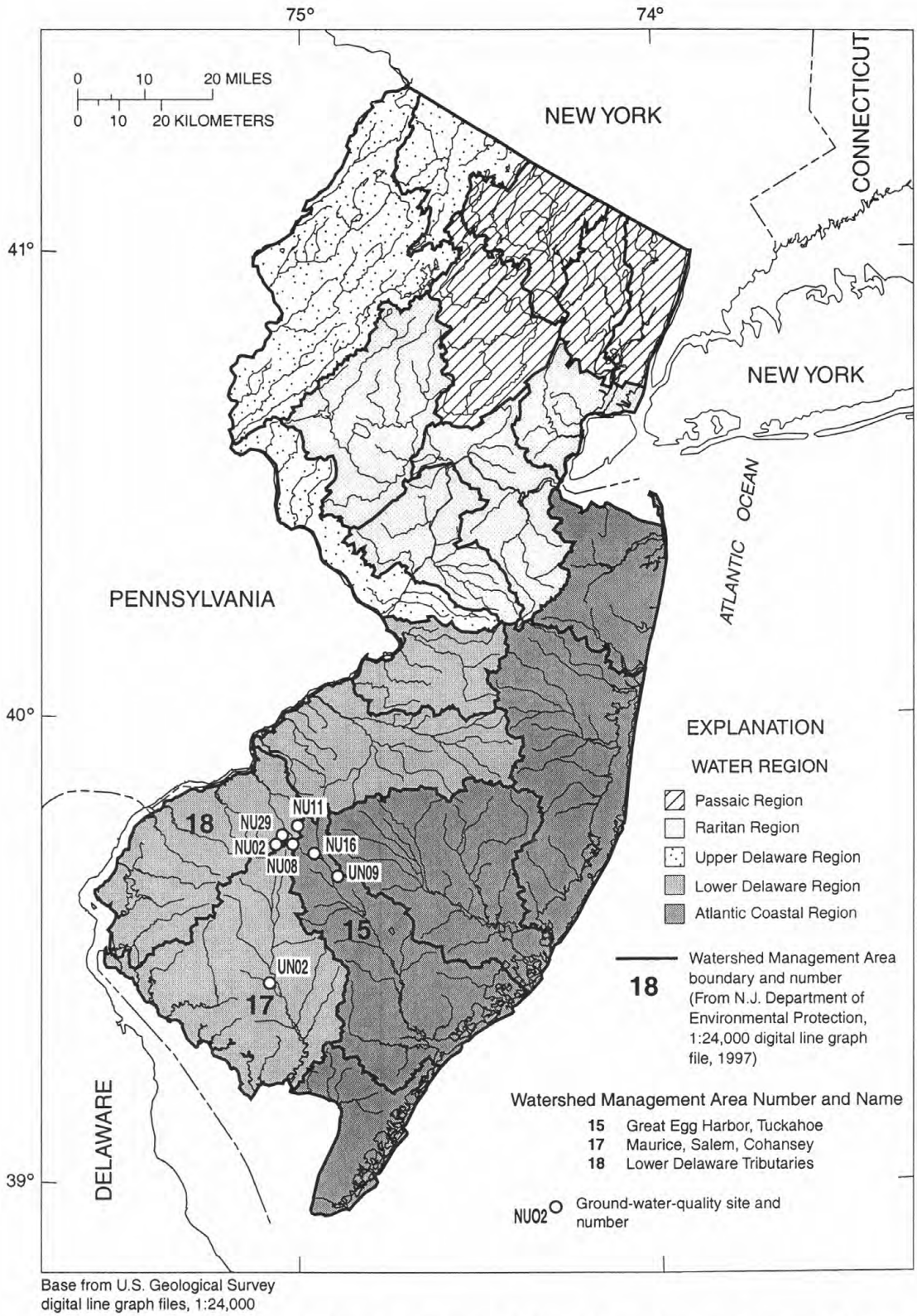
E Estimated value.
< Actual value is known to be less than the value shown.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES,--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL ID	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	RADON 222 TOTAL (PCI/L) (82303)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
MONROE COUNTY PA									
MO 689	<.03	<.04	<.07	<.1	<.05	<.04	<.09	373	.51
PIKE COUNTY PA									
PI 308	<.03	<.04	<.07	<.1	<.05	<.04	<.09	823	<.02
PI 480	<.03	<.04	<.07	<.1	<.05	<.04	<.09	497	.15
	--	--	--	--	--	--	--	*479*	--
	--	--	--	--	--	--	--	--	*.16*
PI 519	<.03	<.04	<.07	<.1	<.05	<.04	<.09	932	<.02
PI 520	<.03	<.04	<.07	<.1	<.05	<.04	<.09	860	E.01
WAYNE COUNTY PA									
WN 209	<.03	<.04	<.07	<.1	.17	<.04	<.09	828	.59
SUSSEX COUNTY NY									
370463	<.03	<.04	<.07	<.1	<.05	<.04	<.09	1450	.86
	--	--	--	--	--	--	--	--	--
	<.03	*<.04*	*<.07*	*<.1*	*<.05*	*<.04*	*<.09*	--	--
BROOME COUNTY NY									
BM 732	<.03	<.04	<.07	<.1	<.05	<.04	<.09	1640	<.02
DELAWARE COUNTY NY									
D 502	<.03	<.04	<.07	<.1	<.05	<.04	<.09	1290	<.02
D 503	<.03	<.04	<.07	<.1	<.05	<.04	<.09	719	<.02
D 504	<.03	<.04	<.07	<.1	<.05	<.04	<.09	1640	.06
D 505	<.03	<.04	<.07	<.1	<.05	<.04	<.09	1520	.03
	--	--	--	--	--	--	--	--	--
	<.03	*<.04*	*<.07*	*<.1*	*<.05*	*<.04*	*<.09*	--	--
D 506	<.03	<.04	<.07	<.1	<.05	<.04	<.09	1090	<.02
D 507	<.03	<.04	<.07	<.1	<.05	<.04	<.09	1120	<.02
ORANGE COUNTY NY									
O 2270	<.03	<.04	<.07	<.1	<.05	<.04	<.09	576	E.02
	--	--	--	--	--	--	--	*546*	--
	--	--	--	--	--	--	--	--	*E.02*
SULLIVAN COUNTY NY									
SV 536	<.03	<.04	<.07	<.1	<.05	<.04	<.09	2280	.24

E Estimated value.
< Actual value is known to be less than the value shown.



Base from U.S. Geological Survey digital line graph files, 1:24,000

Figure 64. Location of sites in the Long Island-New Jersey National Water-Quality Assessment Program, ground-water low-intensity-phase synoptic study, calendar years 1999-2001.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

LINJ NAWQA GROUND-WATER-QUALITY NETWORK

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
392558075051901	110925	USGS UND02	392558	0750519	55	26	24 - 26	121CKKD
393940074534201	070842	USGS UND09	393940	0745342	100	14	12 - 14	121CKKD
394233074574401	070843	USGS NU16	394233	0745744	125	22	20 - 22	121CKKD
394340075012701	151220	USGS NU08	394340	0750127	155	30	28 - 30	121CKKD
394342075040301	151210	USGS NU02	394342	0750403	150	19	17 - 19	121CKKD
394446075031001	151258	USGS NU29	394446	0750310	120	19	17 - 19	121CKKD
394604075003601	070836	USGS NU11	394604	0750036	165	37	35 - 37	121CKKD

Aquifer unit:
121CKKD - Kirkwood-Cohansey

REMARKS.--Samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020 and pesticides with schedule 2001 (listed in their entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs and pesticides identified by the analyses in one or more samples are listed in the following table. For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Explanation of the records, Quality-control data" in the "Introduction".

WATER-QUALITY DATA, CALENDAR YEARS 1999-2001

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	SAMPLE TYPE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	BROMIDE DISSOLVED (MG/L AS BR) (71870)
USGS UND02	392558075051901	08-25-00	0800	ENVIRONMENTAL	.67	.500	.40	1.8	<.01
		08-25-00	*0805*	*FIELD BLANK*	--	--	--	--	--
		08-25-01	*0805*	*FIELD BLANK*	*<.02*	*<.014*	*<.24*	*<.1*	*<.01*
		08-28-01	1500	ENVIRONMENTAL	.74	.530	.37	1.7	.02
USGS UND09	393940074534201	08-12-99	1000	ENVIRONMENTAL	--	--	--	--	<.01
		08-28-01	*0905*	*FIELD BLANK*	*<.01*	*<.008*	*<.09*	*<.1*	*<.01*
		08-28-01	1000	ENVIRONMENTAL	.27	.246	.22	1.5	<.01
USGS NU16	394233074574401	08-12-99	1300	ENVIRONMENTAL	--	--	--	--	.01
		08-24-00	1100	ENVIRONMENTAL	16.1	5.95	2.82	14.6	.02
		08-24-01	0900	ENVIRONMENTAL	17.4	6.56	2.81	17.4	<.01
USGS NU08	394340075012701	08-12-99	0800	ENVIRONMENTAL	--	--	--	--	.02
		08-24-00	1600	ENVIRONMENTAL	.21	1.50	.75	8.5	.02
		08-23-01	1600	ENVIRONMENTAL	.15	1.17	.63	8.3	.01
USGS NU02	394342075040301	11-07-00	1100	ENVIRONMENTAL	5.48	1.62	2.76	14.3	.01
		08-23-01	1330	ENVIRONMENTAL	5.63	1.72	2.64	13.1	<.01
USGS NU29	394446075031001	08-24-00	1800	ENVIRONMENTAL	8.98	2.20	2.51	25.7	.06
		08-23-01	0900	ENVIRONMENTAL	14.6	3.50	3.16	40.5	.01
USGS NU11	394604075003601	08-12-99	1500	ENVIRONMENTAL	--	--	--	--	.01
		08-24-00	1400	ENVIRONMENTAL	6.58	1.97	3.76	7.5	.04
		08-24-01	1300	ENVIRONMENTAL	7.03	1.72	3.00	7.8	.01

LOCAL IDENTIFIER	DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN DISSOLVED (MG/L AS N) (00602)
USGS UND02	08-25-00	3.5	<.1	4.9	10.8	33	.072	.11	<.050	<.010	--
	08-25-00	--	--	--	--	--	--	--	--	--	--
	08-25-01	*<.3*	*<.1*	*<.1*	*<.3*	*<10*	*<.020*	*<.10*	*<.050*	*<.010*	--
	08-28-01	3.4	<.2	5.1	11.6	34	.059	.12	<.050	<.006	--
USGS UND09	08-12-99	2.4	<.1	--	11.2	24	<.020	<.10	<.050	<.010	--
	08-28-01	*<.1*	*<.2*	*<.1*	*<.1*	*18*	*<.040*	*<.10*	*<.050*	*<.006*	--
	08-28-01	3.8	<.2	4.2	13.6	42	<.040	<.10	E.023	<.006	--
USGS NU16	08-12-99	35.4	<.1	--	20.7	140	<.020	<.10	2.17	<.010	--
	08-24-00	43.7	<.1	2.7	16.9	153	<.020	<.10	2.41	<.010	--
	08-24-01	52.7	<.2	2.5	18.2	150	E.021	.11	2.01	<.006	2.1
USGS NU08	08-12-99	16.9	<.1	--	<.1	40	<.020	<.10	.843	<.010	--
	08-24-00	15.1	<.1	6.2	<.3	35	<.020	<.10	1.18	<.010	--
	08-23-01	13.5	<.2	6.1	<.1	54	<.040	<.10	1.23	<.006	--
USGS NU02	11-07-00	15.0	<.2	4.4	21.4	78	<.041	<.10	2.89	<.006	--
	08-23-01	16.6	<.2	3.9	19.6	94	<.040	E.08	2.80	<.006	--
USGS NU29	08-24-00	43.8	<.1	2.4	6.5	126	.239	.46	<.050	<.010	--
	08-23-01	84.4	<.2	2.6	8.1	196	.178	.35	.102	<.006	.45
USGS NU11	08-12-99	15.9	<.1	--	9.7	71	<.020	<.10	2.66	<.010	--
	08-24-00	14.8	<.1	4.9	10.6	70	<.020	<.10	2.96	<.010	--
	08-24-01	12.7	<.2	5.2	18.6	60	E.026	.15	2.53	<.006	2.7

E Estimated value.
< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

LINJ NAWQA GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, CALENDAR YEARS 1999-2001

	LOCAL IDENT-I-FIER	DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)
USGS UND02		08-25-00	.035	.033	2.2	7700	44.5	<.03	<.07	<.04	<7	<.3
		08-25-00	--	--	--	--	--	*<.03*	*<.07*	*<.04*	*<7*	*<.3*
		08-25-01	*<.006*	*<.010*	*.47*	*<10*	*<2.2*	--	--	--	--	--
		08-28-01	.034	E.035	2.0	7700	51.5	<.03	<.04	<.04	<7	<.3
USGS UND09		08-12-99	<.004	<.010	--	--	--	<.03	<.07	<.04	<5	<.3
		08-28-01	*<.006*	*<.020*	*.58*	*<10*	*<3.0*	*<.03*	*<.04*	*<.04*	*<7*	*<.3*
		08-28-01	<.006	<.020	.98	10	15.2	<.03	<.04	<.04	<7	<.3
USGS NU16		08-12-99	<.004	<.010	--	--	--	E.02	<.07	<.04	<5	<.3
		08-24-00	<.006	<.010	.86	<10	40.2	E.01	<.07	<.04	<7	<.3
		08-24-01	<.006	<.020	.67	M	29.1	<.03	<.04	<.04	<7	<.3
USGS NU08		08-12-99	<.004	<.010	--	--	--	E.01	<.07	<.04	<5	<.3
		08-24-00	<.006	<.010	.53	<10	2.7	<.03	<.07	<.04	<7	<.3
		08-23-01	<.006	<.020	.40	20	E1.6	<.03	<.04	<.04	<7	<.3
USGS NU02		11-07-00	<.006	<.018	.66	<10	15.8	E.01	<.04	<.04	<7	<.3
		08-23-01	<.006	<.020	.61	M	17.4	<.03	<.04	<.04	<7	<.3
USGS NU29		08-24-00	.009	<.010	--	3010	43.3	<.03	<.07	<.04	<7	<.3
		08-23-01	E.006	<.020	3.7	2440	52.7	<.03	<.04	<.04	<7	<.3
USGS NU11		08-12-99	<.004	<.010	--	--	--	<.03	<.07	<.04	<5	<.3
		08-24-00	<.006	<.010	.63	<10	7.7	<.03	<.07	<.04	<7	<.3
		08-24-01	<.006	<.020	.52	200	21.8	<.03	<.04	E.04	<7	<.3

	LOCAL IDENT-I-FIER	DATE	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)
USGS UND02		08-25-00	<.2	<.06	<.04	<.05	<.05	<.03	<.05	<.04	<.06	<.07
		08-25-00	*<.2*	*<.06*	*<.04*	*<.05*	*<.05*	*<.03*	*<.05*	*<.04*	*<.06*	*<.07*
		08-25-01	--	--	--	--	--	--	--	--	--	--
		08-28-01	<.2	<.06	<.04	<.03	<.05	<.03	<.03	<.04	<.06	<.07
USGS UND09		08-12-99	<.2	<.06	<.04	<.05	<.05	<.03	<.05	<.10	<.10	<.37
		08-28-01	*<.2*	*<.06*	*<.04*	*<.03*	*<.05*	*<.03*	*<.03*	*<.04*	*<.06*	*<.07*
		08-28-01	<.2	<.06	<.04	<.03	<.05	<.03	<.03	<.04	<.06	<.07
USGS NU16		08-12-99	<.2	<.06	<.04	<.05	<.05	<.03	<.05	<.10	<.10	<.37
		08-24-00	<.2	<.06	<.04	<.05	<.05	<.03	<.05	<.04	<.06	<.07
		08-24-01	<.2	<.06	<.04	<.03	<.05	<.03	<.03	<.04	<.06	<.07
USGS NU08		08-12-99	<.2	<.06	<.04	<.05	<.05	<.03	<.05	<.10	<.10	<.37
		08-24-00	<.2	<.06	<.04	<.05	<.05	<.03	<.05	<.04	<.06	<.07
		08-23-01	<.2	<.06	<.04	<.03	<.05	<.03	<.03	<.04	<.06	<.07
USGS NU02		11-07-00	<.2	<.06	<.04	<.03	<.05	<.03	<.03	<.04	<.06	<.07
		08-23-01	<.2	<.06	<.04	<.03	<.05	<.03	<.03	<.04	<.06	<.07
USGS NU29		08-24-00	<.2	<.06	<.04	<.05	<.05	<.03	<.05	<.04	<.06	<.07
		08-23-01	<.2	<.06	<.04	<.03	<.05	<.03	<.03	<.04	<.06	<.07
USGS NU11		08-12-99	<.2	<.06	<.04	<.05	<.05	<.03	<.05	<.10	<.10	<.37
		08-24-00	<.2	<.06	<.04	<.05	<.05	<.03	<.05	<.04	<.06	<.07
		08-24-01	<.2	<.06	<.04	<.03	<.05	<.03	<.03	<.04	<.06	<.07

E Estimated value.
< Actual value is known to be less than the value shown.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

LINJ NAWQA GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, CALENDAR YEARS 1999-2001

	LOCAL IDENT-I-FIER	DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2 -DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)
USGS	UND02	08-25-00	<.03	<.2	<.05	<.04	<.05	<.3	<.2	<.1	<.03	<.06
		08-25-00	*<.03*	*<.2*	*<.05*	*<.04*	*<.05*	*<.3*	*<.2*	*<.1*	*<.03*	*<.06*
		08-25-01	--	--	--	--	--	--	--	--	--	--
		08-28-01	<.03	<.2	<.02	<.04	<.05	<.3	<.2	<.1	<.03	<.06
USGS	UND09	08-12-99	<.03	<.2	E.02	<.04	<.05	<.1	<.2	<.1	<.03	<.03
		08-28-01	*<.03*	*<.2*	*<.02*	*<.04*	*<.05*	*<.3*	*<.2*	*<.1*	*<.03*	*<.06*
		08-28-01	<.03	<.2	E.04	<.04	<.05	<.3	<.2	<.1	<.03	<.06
USGS	NU16	08-12-99	<.03	<.2	9.12	<.04	<.05	<.1	<.2	<.1	<.03	<.03
		08-24-00	<.03	<.2	4.51	<.04	<.05	<.3	<.2	<.1	<.03	<.06
		08-24-01	<.03	<.2	3.06	<.04	<.05	<.3	<.2	<.1	<.03	<.06
USGS	NU08	08-12-99	<.03	<.2	1.88	<.04	<.05	<.1	<.2	<.1	<.03	<.03
		08-24-00	<.03	<.2	.64	<.04	<.05	<.3	<.2	<.1	<.03	<.06
		08-23-01	<.03	<.2	.51	<.04	<.05	<.3	<.2	<.1	<.03	<.06
USGS	NU02	11-07-00	<.03	<.2	.18	<.04	<.05	<.3	<.2	<.1	<.03	<.06
		08-23-01	<.03	<.2	.16	<.04	<.05	<.3	<.2	<.1	<.03	<.06
USGS	NU29	08-24-00	<.03	<.2	<.05	<.04	<.05	<.3	<.2	<.1	<.03	<.06
		08-23-01	<.03	<.2	<.02	<.04	<.05	<.3	<.2	<.1	<.03	<.06
USGS	NU11	08-12-99	<.03	<.2	.90	<.04	<.05	<.1	<.2	<.1	<.03	<.03
		08-24-00	<.03	<.2	.73	<.04	<.05	<.3	<.2	<.1	<.03	<.06
		08-24-01	<.03	<.2	4.80	E.01	<.05	<.3	<.2	<.1	<.03	<.06

	LOCAL IDENT-I-FIER	DATE	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)
USGS	UND02	08-25-00	<2	<.2	<.5	<.4	<.06	<.04	<.04	<.07	<.1	<.05
		08-25-00	*<2*	*<.2*	*<.5*	*<.4*	*<.06*	*<.04*	*<.04*	*<.07*	*<.1*	*<.05*
		08-25-01	--	--	--	--	--	--	--	--	--	--
		08-28-01	<2	<.2	<.2	<.2	<.06	<.03	<.04	<.07	<.1	<.05
USGS	UND09	08-12-99	<9	<.2	<.2	<.4	<.06	<.04	<.06	<.11	<.1	<.05
		08-28-01	*<2*	*<.2*	*<.2*	*<.2*	*<.06*	*<.03*	*<.04*	*<.07*	*<.1*	*<.05*
		08-28-01	<2	<.2	<.2	<.2	<.06	<.03	<.04	<.07	<.1	<.05
USGS	NU16	08-12-99	<9	<.2	<.2	<.4	<.06	<.04	<.06	<.11	M	<.05
		08-24-00	<2	E.1	<.5	<.4	<.06	<.04	<.04	<.07	<.1	<.05
		08-24-01	<2	<.2	<.2	<.2	<.06	<.03	<.04	<.07	<.1	<.05
USGS	NU08	08-12-99	<9	E.1	<.2	<.4	<.06	<.04	<.06	<.11	<.1	<.05
		08-24-00	<2	<.2	<.5	<.4	<.06	<.04	<.04	<.07	<.1	<.05
		08-23-01	<2	<.2	<.2	<.2	<.06	<.03	<.04	<.07	<.1	<.05
USGS	NU02	11-07-00	9	.3	<.2	<.2	<.06	<.03	<.04	<.07	M	<.05
		08-23-01	<2	.4	<.2	<.2	<.06	<.03	<.04	<.07	<.1	<.05
USGS	NU29	08-24-00	<2	<.2	<.5	<.4	<.06	<.04	<.04	<.07	<.1	<.05
		08-23-01	<2	<.2	<.2	<.2	<.06	<.03	<.04	<.07	<.1	<.05
USGS	NU11	08-12-99	<9	.3	<.2	<.4	<.06	<.04	<.06	<.11	<.1	<.05
		08-24-00	<2	E.1	<.5	<.4	<.06	<.04	<.04	<.07	<.1	<.05
		08-24-01	<2	<.2	<.2	<.2	<.06	<.03	<.04	<.07	<.1	<.05

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

WATER-QUALITY DATA, CALENDAR YEARS 1999-2001

LOCAL IDENT-I-FIER	DATE	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)
USGS UND02	08-25-00	<.04	<.09	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
	08-25-00	*<.04*	*<.09*	*<.002*	*<.002*	*<.002*	*<.001*	*<.002*	*<.003*	*<.003*	*<.004*
	08-25-01	--	--	*<.002*	*<.002*	*<.002*	*<.001*	*<.002*	*<.003*	*<.003*	*<.004*
	08-28-01	<.04	<.09	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005
USGS UND09	08-12-99	<.04	<.09	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
	08-28-01	*<.04*	*<.09*	*<.004*	*<.002*	*<.005*	*<.007*	*<.010*	*<.041*	*<.020*	*<.005*
	08-28-01	<.04	<.09	<.004	<.002	<.005	<.007	<.010	<.041	<.020	E.003
USGS NU16	08-12-99	<.04	<.09	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
	08-24-00	<.04	<.09	<.002	<.002	<.002	E.002	<.002	<.003	<.003	<.004
	08-24-01	<.04	<.09	<.004	<.002	<.005	E.002	<.010	<.041	<.020	<.005
USGS NU08	08-12-99	<.04	.27	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
	08-24-00	<.04	.11	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
	08-23-01	<.04	.12	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005
USGS NU02	11-07-00	<.04	<.09	<.004	<.002	<.005	M	<.010	<.041	<.020	<.005
	08-23-01	<.04	<.09	<.004	<.002	<.005	.008	<.010	<.041	<.020	<.005
USGS NU29	08-24-00	<.04	<.09	<.002	<.002	<.002	.009	<.002	<.003	<.003	<.004
	08-23-01	<.04	<.09	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005
USGS NU11	08-12-99	<.04	<.09	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
	08-24-00	<.04	<.09	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
	08-24-01	E.05	<.09	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005

LOCAL IDENT-I-FIER	DATE	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)
USGS UND02	08-25-00	<.004	<.002	<.002	<.002	<.001	<.002	<.004	<.002	<.005	<.001
	08-25-00	*<.004*	*<.002*	*<.002*	*<.002*	*<.001*	*<.002*	*<.004*	*<.002*	*<.005*	*<.001*
	08-25-01	*<.004*	*<.002*	*<.002*	*<.002*	*<.001*	*<.002*	*<.004*	*<.002*	*<.005*	*<.001*
	08-28-01	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027	<.050
USGS UND09	08-12-99	<.004	<.002	<.002	<.002	<.001	<.002	<.004	<.002	<.005	<.001
	08-28-01	*<.018*	*<.003*	*<.006*	*<.005*	*<.005*	*<.002*	*<.004*	*<.035*	*<.027*	*<.050*
	08-28-01	E.012	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027	<.050
USGS NU16	08-12-99	<.004	<.002	<.002	<.002	<.001	<.002	<.004	<.002	<.005	<.001
	08-24-00	<.004	<.002	E.002	<.002	<.001	<.002	<.004	<.002	<.005	<.001
	08-24-01	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027	<.050
USGS NU08	08-12-99	<.004	<.002	E.001	<.002	<.001	<.002	<.004	<.002	<.005	<.001
	08-24-00	<.004	<.002	<.002	<.002	<.001	<.002	<.004	<.002	<.005	<.001
	08-23-01	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027	<.050
USGS NU02	11-07-00	<.018	<.003	E.005	<.005	<.005	<.002	<.004	<.035	<.027	<.050
	08-23-01	<.018	<.003	E.005	<.005	<.005	<.002	<.004	<.035	<.027	<.050
USGS NU29	08-24-00	<.004	<.002	E.007	<.002	<.001	<.002	<.004	<.002	<.005	<.001
	08-23-01	<.018	<.003	E.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050
USGS NU11	08-12-99	<.004	<.002	<.002	<.002	.016	<.002	<.004	<.002	<.005	<.001
	08-24-00	<.004	<.002	<.002	<.002	.099	<.002	<.004	<.002	<.005	<.001
	08-24-01	<.018	<.003	<.006	<.005	.025	<.002	<.004	<.035	<.027	<.050

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

LINJ NAWQA GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, CALENDAR YEARS 1999-2001

	LOCAL IDENT-I-FIER	DATE	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
USGS UND02		08-25-00	<.002	<.004	<.004	<.003	<.006	<.004	<.018	<.005	<.010	<.007
		08-25-00	*<.002*	*<.004*	*<.004*	*<.003*	*<.006*	*<.004*	*<.018*	*<.005*	*<.010*	*<.007*
		08-25-01	*<.002*	*<.004*	*<.004*	*<.003*	*<.006*	*<.004*	*<.018*	*<.005*	*<.010*	*<.007*
		08-28-01	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016	<.034
USGS UND09		08-12-99	<.002	<.004	<.004	<.003	<.006	<.004	<.018	<.005	<.010	<.007
		08-28-01	*<.013*	*<.006*	*<.002*	*<.007*	*<.003*	*<.010*	*<.110*	*<.011*	*<.016*	*<.034*
		08-28-01	E.005	<.006	<.002	<.007	<.003	<.010	E.007	<.011	<.016	<.034
USGS NU16		08-12-99	<.002	<.004	<.004	<.003	<.006	<.004	.019	.006	<.010	<.007
		08-24-00	<.002	<.004	<.004	<.003	<.006	<.004	.026	.009	<.010	<.007
		08-24-01	<.013	<.006	<.002	<.007	<.003	<.010	.024	E.005	<.016	<.034
USGS NU08		08-12-99	<.002	<.004	<.004	<.003	<.006	<.004	<.018	<.005	<.010	<.007
		08-24-00	<.002	<.004	<.004	<.003	<.006	<.004	<.018	<.005	<.010	<.007
		08-23-01	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016	<.034
USGS NU02		11-07-00	<.013	<.006	<.002	<.007	<.003	<.010	<.015	E.006	<.016	<.034
		08-23-01	E.004	<.006	<.002	<.007	<.003	<.010	<.015	E.007	<.016	<.034
USGS NU29		08-24-00	.006	<.004	<.004	<.003	<.006	<.004	.021	E.005	<.010	<.007
		08-23-01	<.013	<.006	<.002	<.007	<.003	<.010	.024	<.011	<.016	<.034
USGS NU11		08-12-99	<.002	<.004	<.004	<.003	<.006	<.004	<.018	.479	<.010	<.007
		08-24-00	<.002	<.004	<.004	<.003	<.006	<.004	E.014	.024	<.010	<.007
		08-24-01	<.013	<.006	<.002	<.007	<.003	<.010	E.004	.058	<.016	<.034

	LOCAL IDENT-I-FIER	DATE	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
USGS UND02		08-25-00	--	<.002	<.002
		08-25-00	--	*<.002*	*<.002*
		08-25-01	--	*<.002*	*<.002*
		08-28-01	--	<.005	<.009
USGS UND09		08-12-99	--	<.002	<.002
		08-28-01	--	*<.005*	*<.009*
		08-28-01	--	<.005	<.009
USGS NU16		08-12-99	<.005	<.002	<.002
		08-24-00	--	<.002	<.002
		08-24-01	--	<.005	<.009
USGS NU08		08-12-99	--	<.002	<.002
		08-24-00	--	<.002	<.002
		08-23-01	--	<.005	<.009
USGS NU02		11-07-00	--	<.005	<.009
		08-23-01	--	<.005	<.009
USGS NU29		08-24-00	--	<.002	<.002
		08-23-01	--	<.005	<.009
USGS NU11		08-12-99	<.005	<.002	<.002
		08-24-00	--	<.002	<.002
		08-24-01	--	<.005	<.009

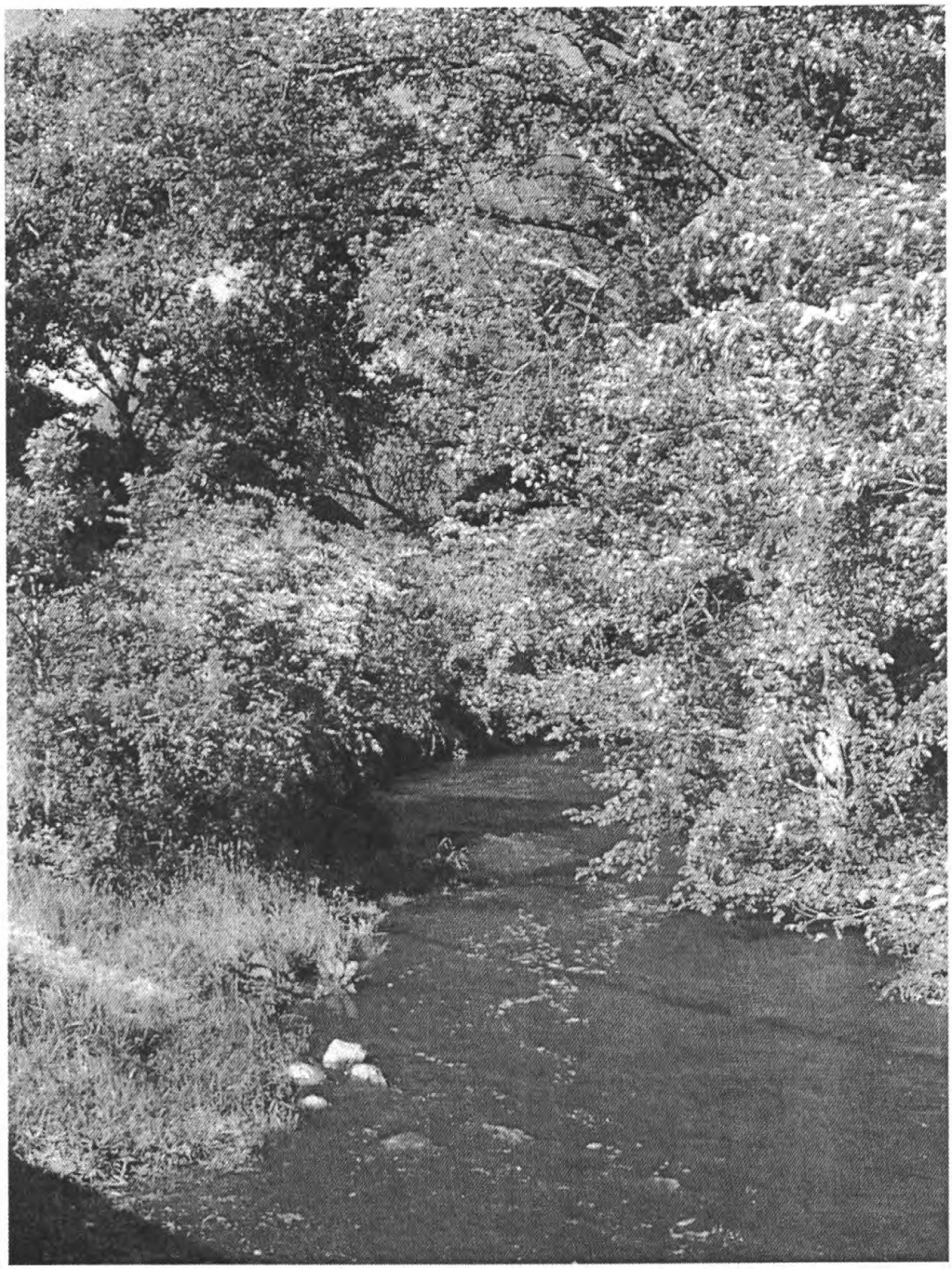
E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

N

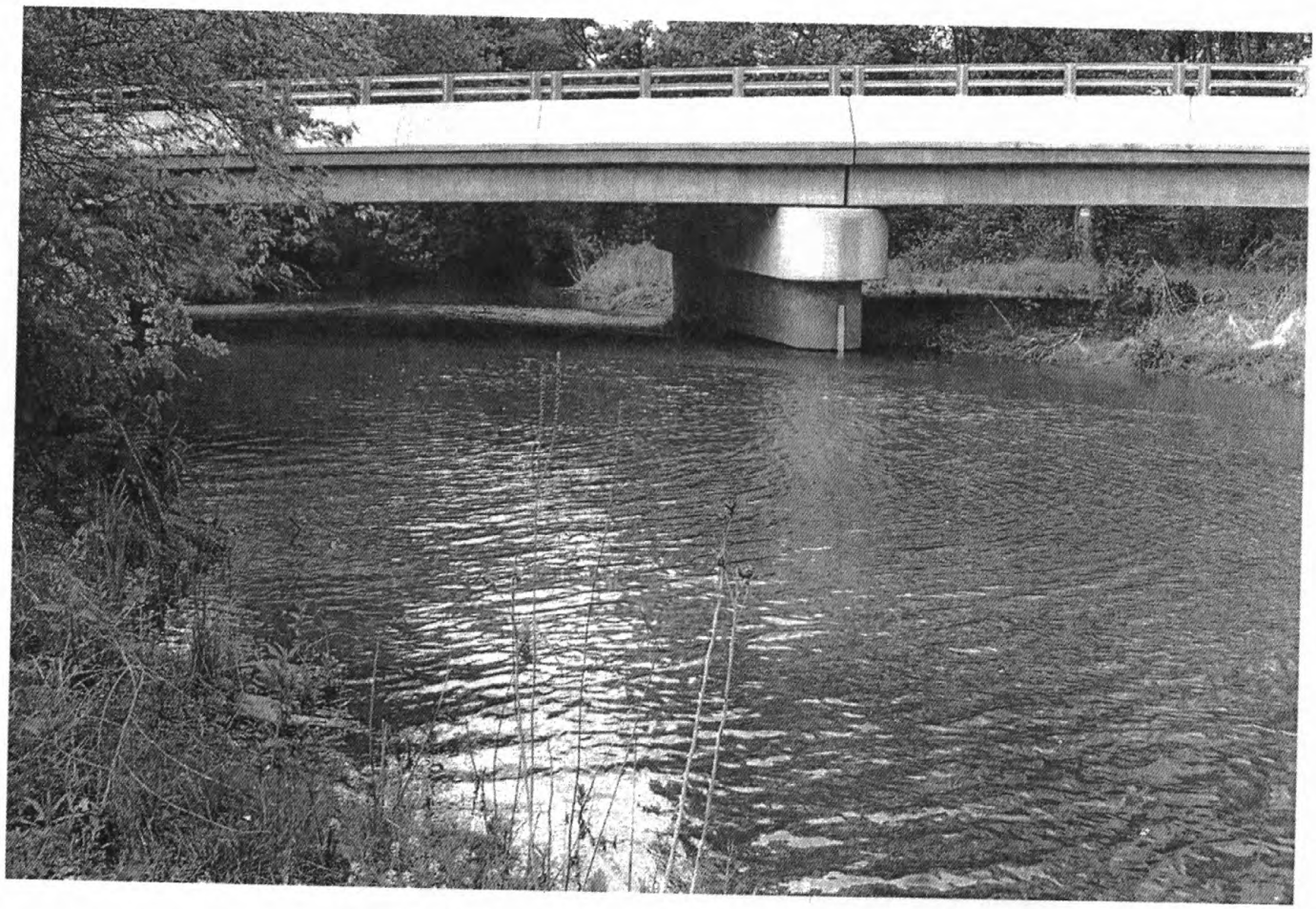
O

P

01467005 North Branch Rancocas Creek at Iron Works Park, at Mount Holly
Watershed Integrator Station
Ambient Stream Monitoring Network
(file photograph, U.S. Geological Survey, West Trenton, New Jersey)



01401400 Heathcote Brook at Kingston
Mixed Land Use Indicator Station
Ambient Stream Monitoring Network
(file photograph, U.S. Geological Survey, West Trenton, New Jersey)



01400640 Millstone River near Grovers Mill
Agricultural Land Use Indicator Station
Ambient Stream Monitoring Network
(file photograph, U.S. Geological Survey, West Trenton, New Jersey)

CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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