WATER-QUALITY AND BIOLOGICAL DATA FOR SELECTED STREAMS, LAKES, AND WELLS IN THE HIGH POINT LAKE WATERSHED, GUILFORD COUNTY, NORTH CAROLINA, 1988-89

By Marjorie S. Davenport

U.S. GEOLOGICAL SURVEY

Open-File Report 93-163

Prepared in cooperation with the

CITY OF HIGH POINT, NORTH CAROLINA

Raleigh, North Carolina

1993

U.S. DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information
write to:

District Chief
U.S. Geological Survey
3916 Sunset Ridge Road
Raleigh, North Carolina 27607

Copies of this report can be
purchased from:

U.S. Geological Survey
Books and Open-File Reports
Federal Center, Box 25425
Denver, Colorado 80225

CONTENTS

ILLUSTRATIONS

TABLES

TABLES, Continued--

TABLES, Continued--

TABLES, Continued--

TABLES, Continued--

CONVERSION FACTORS, VERTICAL DATUM, AND ABBREVIATIONS

Multiply	By	To obtain
	Length	
inch (in.)	25.4	millimeter
foot (ft)	0.3048	meter
mile (mi)	1.609	kilometer
	Area	
acre	4,047	square meter
square mile (mi^2)	2.590	square kilometer
	Volume	
gallon (gal)	3.785	liter
	Flow	
cubic foot per second (ft^3/s)	28.317	cubic meter per second
gallon per minute (gal/min)	0.06308	liter per second
	Mass	
ounce, avoirdupois (oz)	28.35	gram
ounce, avoirdupois (oz)	28.35×10^{-6}	microgram
pound, avoirdupois (lb)	0.4536	kilogram
	Specific conductance	
micromho per centimeter at 25 degrees Celsius (µmho/cm at 25 °C)	1.000	microsiemen per centimeter at 25 degrees Celsius

---

Temperature: In this report, temperature is given in degrees Celsius (°C), which can be converted to degrees Fahrenheit (°F) by the following equation:

$$°F = 1.8\ (°C) + 32$$

Sea level: In this report, "sea level" refers to the National Geodetic Vertical Datum of 1929--a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929.

Abbreviations and acronyms used in the tables and text of this report:

AAS - atomic absorption spectrometry
AE - atomic emission
BOT MAT - bottom material
CFSM - cubic foot per second per square mile
COD - chemical oxygen demand
DC - direct current
DEG C - degrees Celsius
DIS - dissolved
FET - fixed end point titration
FIB - fibers
FLD - field
GC/FID - gas chromatograph/flame ionization detector
GC/MS - gas chromatograph/mass spectrometer
HPLC - high-performance liquid chromatography
IC - ion chromatography
ICP - inductively coupled plasma
INST - instantaneous
IT - incremental titration
MAX - maximum
MG/L (mg/L) - milligram per liter
MG/KG (mg/kg) - milligram per kilogram
MIN (min) - minimum
ML (mL) - milliliter
MM (mm) - millimeter
MM OF HG (mm of hg) - millimeters of mercury
NA - not available
NBS - National Bureau of Standards
NONCARB - noncarbonate
NTU - nephelometric turbidity unit
PCB - polychlorinated biphenyl
pCi/L - picocurie per liter
PCN - polychlorinated naphthalene
SQ. MI. - square mile
THMFP - trihalomethane formation potential
TOT - total
TOC - total organic carbon
µg/g - microgram per gram
µg/kg - microgram per kilogram
µg/L - microgram per liter
µm - micrometer
µS/cm - microsiemen per centimeter
USGS - U.S. Geological Survey
VOC - volatile organic compound
WAT - water
WATSTORE - Water Data Storage and Retrieval System
WH - whole
WY - water year (determined by the calendar year in which the period October 1 through September 30 ends)

Any use of trade, product, or firm names in this report is for descriptive purposes only and does not imply endorsement by the U.S. Government.

WATER-QUALITY AND BIOLOGICAL DATA FOR SELECTED STREAMS, LAKES, AND WELLS IN THE HIGH POINT LAKE WATERSHED, GUILFORD COUNTY, NORTH CAROLINA, 1988-89

By Marjorie S. Davenport

ABSTRACT

Water and bottom-sediment samples were collected at 26 sites in the 65-square-mile High Point Lake watershed area of Guilford County, North Carolina, from December 1988 through December 1989. Sampling locations included 10 stream sites, 8 lake sites, and 8 ground-water sites. Generally, six steady-flow samples were collected at each stream site and three storm samples were collected at five sites. Four lake samples and eight ground-water samples also were collected. Chemical analyses of stream and lake sediments and particle-size analyses of lake sediments were performed once during the study.

Most stream and lake samples were analyzed for field characteristics, nutrients, major ions, trace elements, total organic carbon, and chemical-oxygen demand. Analyses were performed to detect concentrations of 149 selected organic compounds, including acid and base/neutral extractable and volatile constituents and carbamate, chlorophenoxy acid, triazine, organochlorine, and organophosphorus pesticides and herbicides. Selected lake samples were analyzed for all constituents listed in the Safe Drinking Water Act of 1986, including *Giardia*, *Legionella*, radiochemicals, asbestos, and viruses. Various chromatograms from organic analyses were submitted to computerized library searches. The results of these and all other analyses presented in this report are in tabular form.

INTRODUCTION

High Point is the seventh largest municipality in North Carolina, with an estimated population of 68,366 (North Carolina Office of State Budget and Management, 1990). The city of High Point is located in the headwaters of the Deep River within the Cape Fear River Basin (fig. 1). Incorporated areas of the city lie in southwestern Guilford County but also extend into the adjoining counties of Forsyth, Davidson, and Randolph. Surface water is the primary source of water supply for the city.

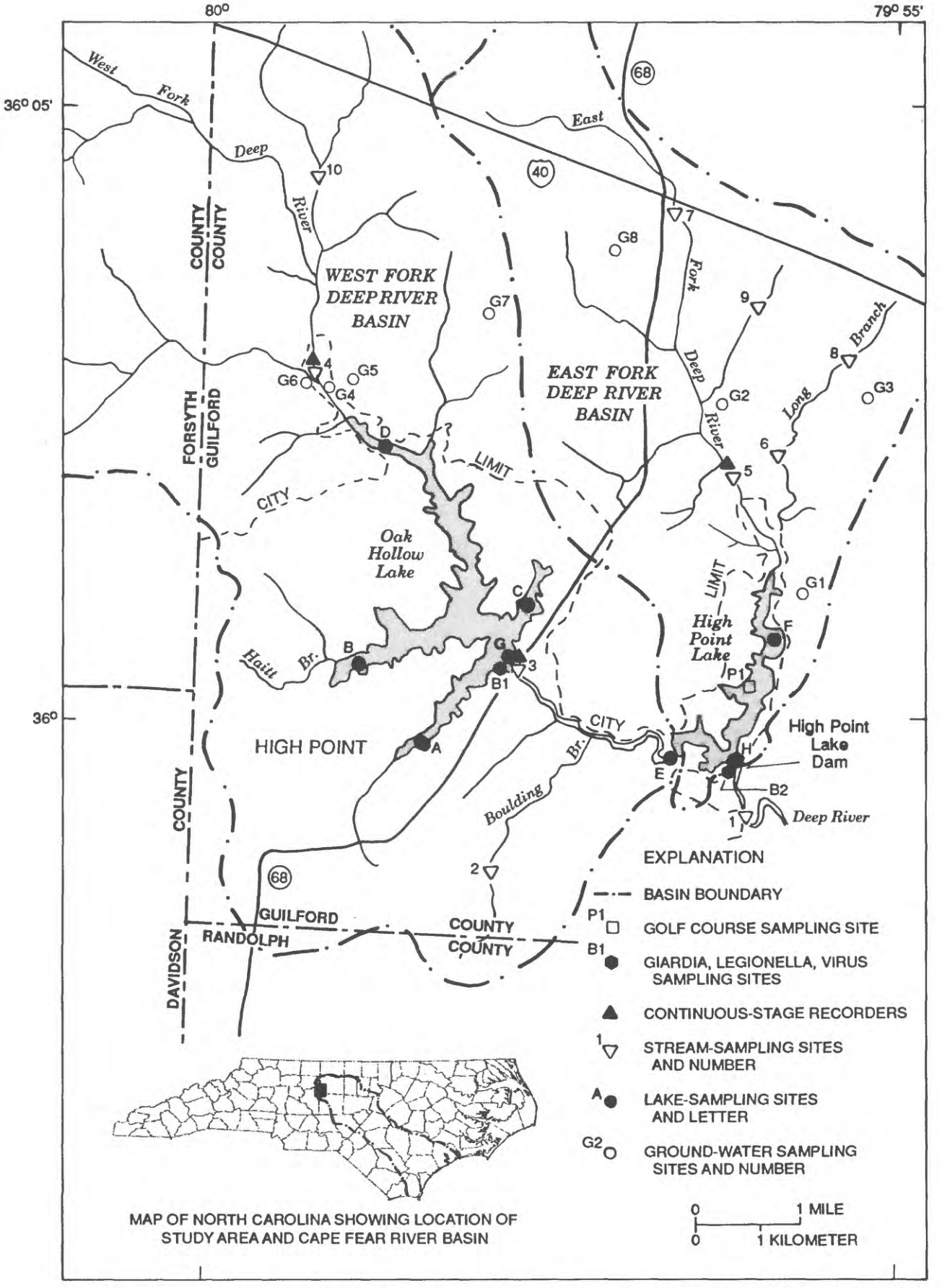

Figure 1. Locations of the study area and water-quality sampling sites in the High Point Lake watershed, North Carolina.

The High Point Lake watershed includes the northern half of urban High Point and the semideveloped and rural areas north of the city (fig. 1). These areas are undergoing rapid transformation to either medium- to high-density housing, light industry, or business parks. The watershed contains various heavy and light industrial areas, a number of petroleum storage and transfer facilities, interstate highways, pasture and row-crop areas, golf courses, and residential and urban areas. Increased development in such watersheds as High Point Lake watershed may create potential sources of contamination, such as runoff from industrial areas, residential lawns, and large construction sites, which could adversely affect water-supply sources.

Because of concerns about the quality and protection of drinking-water for the community as well as preservation of future water-supply resources, the city of High Point requested the U.S. Geological Survey (USGS) conduct a water-resources investigation to define water-quality conditions in the High Point Lake watershed. In December 1988, the USGS began a cooperative program with the city of High Point to (1) determine baseline water-quality conditions in the High Point Lake watershed, and (2) provide information for designing a statistically sound, long-term, water-quality monitoring program. Chemical, physical, and biological data were collected from selected streams, lakes, and ground water within the High Point Lake watershed. The city of High Point and the USGS mutually agreed upon locations of the sampling sites. Installation of instrumentation began in December 1988, and data collection was completed in December 1989.

Purpose and Scope

This report presents the results of chemical and physical analyses of stream, lake, and ground water in the High Point Lake watershed, including analyses of stream and lake sediments for the period December 1988 through December 1989. Results of biological analyses of lakes also are presented.

Ground-water sites were randomly selected for sampling after review of well-construction records in the files of the North Carolina Department of Environment, Health, and Natural Resources, Division of Environmental Management, Groundwater Section. Three wells in the West Fork of the Deep River Basin and five wells in the East Fork of the Deep River Basin were selected and sampled once. Ground water was tested for temperature, pH, selected total organic carbon, and volatile organic compounds.

Lake-bottom sediments were analyzed for trace elements, nutrients, and acid extractable organic, base/neutral extractable organic, and organic pesticide compounds. Complete size distribution analyses were also performed on lake-bottom sediment samples.

Study Area

The High Point Lake watershed is largely rural, although numerous areas of development along major county, State, and interstate roads are rapidly changing the character of the watershed. The 65-mi^2 watershed contains two water-supply impoundments--Oak Hollow and High Point Lakes.

Oak Hollow Lake, an 800-acre impoundment used for recreation, fishing, and water-supply, was built in the 1970's. It lies on the West Fork of the Deep River and has a drainage area of approximately 32 mi^2 upstream of the dam. Oak Hollow Lake has four arms fed by six major tributaries in addition to the West Fork of the Deep River. A golf course is located between two southwesterly arms of the lake, and a second golf course lies upstream of the lake adjacent to the West Fork of the Deep River. Boulding Branch, which flows into the West Fork of the Deep River downstream from Oak Hollow Lake, drains the most urbanized area of the watershed. This area is largely residential and includes many four-lane streets lined with shopping centers.

High Point Lake is a 322-acre lake constructed in the late 1920's and is used for boating, fishing, and water supply. The lake lies within the East Fork of the Deep River Basin (fig. 1), which is largely rural with light industry and manufacturing along major highways. The West Fork of the Deep River, including Oak Hollow Lake, flows into High Point Lake from the west and the East Fork of the Deep River supplies the lake from the north. Interstate 40 crosses the northern part of the watershed (fig. 1), and numerous major petroleum-storage and distribution facilities are located along this route. A golf course lies west of High Point Lake along the upper reach of the lake.

Long Branch, a major tributary to the East Fork of the Deep River, flows through a rural area containing petroleum facilities and a stone quarry. Below the dam on High Point Lake, the West and East Forks are known as the Deep River. The area upstream of the High Point Lake dam is known as the High Point Lake watershed.

The High Point Land Use Plan (City of High Point Department of Planning and Development, 1985) shows open areas bordering the shores of both water-supply lakes with low-density residential areas almost completely surrounding the open spaces around Oak Hollow Lake. Field observations determined that land uses surrounding High Point Lake were similar to those surrounding Oak Hollow Lake.

The soils in the study area are well drained, approximately 70 to 80 ft deep, and are composed of sandy-clay loam with clayey subsoils (Stephens, 1977). Bedrock in the area varies from igneous, felsic, and intrusive rocks in the northwestern section to metaigneous, felsic rocks in the southeastern section of the study area (Daniel and Payne, 1990). A band of mafic gneiss separates the igneous and metaigneous sections and is aligned from northeast to southwest.

Acknowledgments

The author wishes to express special appreciation to various individuals associated with the city of High Point. Linwood O'Neal, Director, and Wendy Fuscoe, Special Projects Coordinator, of the Water and Sewer Department, performed key roles in the planning of this study. Thomas Gore and William Frazier of Central Lab Services aided in the technical aspects of the study. Gary Rogers, Nancy Ussery, and Gary Pressley of the Parks and Recreation Department provided valuable support and advice during the lake sampling.

DATA COLLECTION

In December 1988, an intensive 13-month sampling program was initiated at stream, lake, and ground-water sampling sites shown in figure 1. Water and sediment samples were collected at 10 stream and 8 lake sites. Samples were also collected at five stream sites during storm-runoff events at rising, peaking, and falling stages. Stage-discharge records were collected at three stream sites. Ground-water samples were collected from eight residential wells located in the northern section of the watershed.

The frequency of data collection at the 10 stream, 8 lake, and 8 ground-water sites varied greatly. Generally, streams were sampled six times during various steady stages, whereas storm-runoff samples were collected during rising, peaking, and falling stages. Lakes were sampled

four times between February and October 1989. Stream and lake-bottom sediment samples and ground-water samples were collected once at each sampling site.

Chemical analyses for streams and lakes included inorganic constituents, such as trace elements, nutrients, and major ions, as well as general water-quality indicators, such as specific conductance, pH, water temperature, chemical-oxygen demand, and total organic carbon. Streams and lakes were analyzed for 149 specific volatile, acid extractable, and base/neutral extractable organic compounds and pesticides. Lakes were also analyzed for detectable concentrations of all constituents in the Safe Drinking Water Act of 1986 (U.S. Environmental Protection Agency, 1991), including asbestos, selected radiochemicals, and biota, such as chlorophyll-*a* and *b*, coliform bacteria, *Giardia* cysts, *Legionella* bacteria, and viruses. A summary of constituent families analyzed in water samples is listed in table 1.

Chemical-quality data in this report are representative values for the stations listed at the time of sampling and are consistent with current methods of sampling and analysis. Tables 2, 3, and 4 list the methods, reporting units, and detection limits for each constituent analyzed in the water and bottom-sediment samples. Quality-assurance samples comprised approximately 10 to 12 percent of the analytical work performed during the study. These samples included duplicate samples and field blanks. Some variability between duplicate samples as a result of analytical error is expected.

The gas chromatograph/flame ionization detector (GC/FID) analysis, or FID scan, is a screening technique used for determining if organic substances are present in water and bottom-sediment extract. The analysis provides semiquantitative data and is best applied to reconnaissance sampling of a site to determine the presence and magnitude of organic substances. Individual organic constituents cannot be identified by this screening technique. The detector is basically a carbon counting device (R.T. Kirkland, U.S. Geological Survey, written commun., 1991). Water and sediment samples collected at the sampling sites were subjected to GC/FID analysis; those samples showing the highest concentration of carbon compounds were analyzed further using gas chromatograph/mass spectrometer (GC/MS) techniques to identify specific organic compounds.

Table 1.--*Summary of constituents analyzed in stream, lake, ground-water, and sediment samples collected in the High Point Lake watershed*

[---, no analyses performed]

Constituent group	Streams	Lakes	Ground water
Physical	Temperature Specific conductance pH	Temperature Sediment particle-size analyses Specific conductance pH	Temperature pH
Chemical	Dissolved oxygen Alkalinity Nutrients Major ions Metals and trace elements Total organic carbon Chemical oxygen demand Organic pesticides Volatile organic compounds Acid and base/neutral extractable organic compounds Acid and base/neutral extractable organic compounds in sediments	Dissolved oxygen Alkalinity Nutrients Major ions Metals and trace elements Total organic carbon Chemical oxygen demand Organic pesticides Volatile organic compounds Acid and base/neutral extractable organic compounds Trihalomethane formation potential Asbestos Radiochemicals Nutrients in sediments Trace metals in sediments Acid and base/neutral extractable organic compounds in sediments Organic pesticides in sediments	Total organic carbon Volatile organic compounds
Biological	---	Chlorophyll-*a* and *b* *Giardia, Legionella,* and viruses Coliform bacteria	---

Table 2.--*Types of inorganic, physical, and biological analyses performed on water samples collected in the High Point Lake watershed*

[**Analytical method**: AE, atomic emission; ICP, inductively coupled plasma; AAS, atomic absorption spectrometry; IC, ion chromatography; µm, micrometer; HPLC, high-performance liquid chromatography. **Method number and source**: Method number given in source publication (see References for complete citation): A, Fishman and Friedman, eds., (1989); B, U.S. Environmental Protection Agency (1983); C, Rantz and others (1982); D_6 Thatcher, Janzer, and Edwards (1977); E, Britton and Greeson, eds., (1988). mg/L, milligram per liter; µS/cm, microsiemen per centimeter; °C, degrees Celsius; NTU, nephelometric turbidity unit; mm, millimeter; ft, foot; ft^3/s, cubic foot per second; µg/L, microgram per liter; pCi/L, picocurie per liter; mL, milliliter. **Laboratory**: USGS, U.S. Geological Survey; UNC, University of North Carolina at Chapel Hill. --, no data]

WATSTORE[1/] parameter code	Constituent	Analytical method	Method number	Source	Units	Detection limit	Laboratory
00915	Calcium, dissolved	AE, ICP	I-1472-85	A	mg/L	0.02 mg/L	USGS
00925	Magnesium, dissolved	AE, ICP	I-1472-85	A	mg/L	0.01 mg/L	USGS
00930	Sodium, dissolved	AE, ICP	I-1472-85	A	mg/L	0.2 mg/L	USGS
00935	Potassium, dissolved	AAS	I-1630-85	A	mg/L	0.01 mg/L	USGS
00940	Chloride, dissolved	IC	I-2058-85	A	mg/L	0.01 mg/L	USGS
00945	Sulfate, dissolved	IC	I-2058-85	A	mg/L	0.01 mg/L	USGS
00950	Fluoride, dissolved	IC	I-2058-85	A	mg/L	0.01 mg/L	USGS
00095	Specific conductance	Direct reading	120.1	B	µS/cm	1 µS/cm	Field
00400	pH	Electrometric	150.1	B	pH units	0.1 pH units	Field
00300	Dissolved oxygen	Electrometric	360.1	B	mg/L	0.1 mg/L	Field
00010	Water temperature	Manual	212	A	°C	0.1 °C	Field
00900	Hardness	Calculation	I-1340-85	A	mg/L as $CaCO_3$	1 mg/L	USGS
00080	Color	Colormetric, platinum-cobalt	I-1250-852	A	Cobalt-platinum units	1 unit	USGS
00076	Turbidity	Nephelometric	I-3860-85	A	NTU	1 NTU	USGS
00025	Barometric pressure	Manual			mm of mercury	1 mm	Field
00618	Nitrate nitrogen, dissolved	IC	I-2058-85	A	mg/L	0.01 mg/L	USGS
00610	Ammonia nitrogen, total	Colorimetry	I-4522-85	A	mg/L	0.01 mg/L	USGS
00665	Phosphorus, total	Colorimetry, phosphomolybdate	I-4600-85	A	mg/L	0.01 mg/L	USGS
00671	Orthophosphorus, dissolved	IC	I-2058-85	A	mg/L as P	0.01 mg/L	USGS
00600	Nitrogen, total	Calculation	--	--	mg/L as N	0.1 mg/L	USGS
00605	Organic nitrogen, total	Calculation	--	--	mg/L as N	0.1 mg/L	USGS
00615	Nitrite nitrogen, total	Colorimetry, diazotization	I-4540-85	A	mg/L as N	0.01 mg/L	USGS
00620	Nitrate nitrogen, total	Calculation	--	--	mg/L as N	0.01 mg/L	USGS
00625	Ammonia plus organic nitrogen, total	Block digestion and colorimetry	I-4552-85	A	mg/L as N	0.2 mg/L	USGS
00630	Nitrite plus nitrate nitrogen, total	Colorimetry, Cd-reduction	I-4545-85	A	mg/L as N	0.1 mg/L	USGS
00650	Phosphate, total	--	--	--	mg/L as PO_4	0.01 mg/L	USGS
00660	Orthophosphate, dissolved	--	--	--	mg/L as PO_4	0.01 mg/L	USGS

[1/] National Water Data Storage and Retrieval System of the U.S. Geological Survey.

Table 2.--*Types of inorganic, physical, and biological analyses performed on water samples collected in the High Point Lake watershed*--Continued

[**Analytical method**: AE, atomic emission; ICP, inductively coupled plasma; AAS, atomic absorption spectrometry; IC, ion chromatography; µm, micrometer; HPLC, high-performance liquid chromatography. **Method number and source**: Method number given in source publication (see References for complete citation): A, Fishman and Friedman, eds., (1989); B, U.S. Environmental Protection Agency (1983); C, Rantz and others (1982); D, Thatcher, Janzer, and Edwards (1977); E, Britton and Greeson, eds., (1988). mg/L, milligram per liter; µS/cm, microsiemen per centimeter; °C, degrees Celsius; NTU, nephelometric turbidity unit; mm, millimeter; ft, foot; ft^3/s, cubic foot per second; µg/L, microgram per liter; pCi/L, picocurie per liter; mL, milliliter. **Laboratory**: USGS, U.S. Geological Survey; UNC, University of North Carolina at Chapel Hill. --, no data]

WATSTORE[1/] parameter code	Constituent	Analytical method	Method number	Source	Units	Detection limit	Laboratory
71845	Ammonia nitrogen, total	--	--	--	mg/L as NH_4	0.01 mg/L	USGS
71887	Nitrogen, total	--	--	--	mg/L as NO_3	0.1 mg/L	USGS
00631	Nitrite plus nitrate nitrogen, dissolved	Colorimetry, Cd-reduction	I-2545-85	A	mg/L as N	0.1 mg/L	USGS
70507	Orthophosphorus, total	Colorimetry, phosphomolybdate	I-4601-85	A	mg/L as P	0.01 mg/L	USGS
00613	Nitrite nitrogen, dissolved	Colorimetry, diazotization	I-2540-85	A	mg/L as N	0.01 mg/L	USGS
00065	Gage height	Visual reading	--	--	ft	0.01 ft	Field
00340	Chemical oxygen demand	Colorimetry, $K_2Cr_2O_7$ oxidation	I-3561-85	A	mg/L	10 mg/L	USGS
00453	Bicarbonate	--	--	--	mg/L	--	USGS
39086	Alkalinity	--	--	--	mg/L as $CaCO_3$	--	USGS
00955	Silica, dissolved	AE, ICP	I-1472-85	A	mg/L as SiO_2	0.01 mg/L	USGS
71870	Bromide, dissolved	IC	I-2058-85	A	mg/L as Br	0.01 mg/L	USGS
--	Asbestos, total						
00003	Sampling depth	Manual	--	--	ft	0.1 ft	USGS
81903	Depth at sample location	Manual	--	--	ft	0.1 ft	USGS
00020	Air temperature	Manual	--	--	°C	0.1 °C	USGS
00680	Total organic carbon	Wet oxidation	I-3100-83	A	mg/L as C	0.1 mg/L	USGS
00061	Discharge, instantaneous	Manual	--	?	ft^3/s	0.01 ft^3/s	USGS
00403	pH, laboratory						
90095	Specific conductance, laboratory						
81024	Drainage area						
01105	Aluminum, total	AE, DC plasma	I-3054-86	A	µg/L	10 µg/L	USGS
01002	Arsenic, total	AAS, hydride	I-4062-85	A	µg/L	1 µg/L	USGS
01007	Barium, total	AAS	I-3084-85	A	µg/L	100 µg/L	USGS
01027	Cadmium, total	AAS	I-3135-85	A	µg/L	10 µg/L	USGS
01034	Chromium, total	DC plasma	I-3229-87	A	µg/L	10 µg/L	USGS
01042	Copper, total	AAS	I-3270-85	A	µg/L	10 µg/L	USGS
01045	Iron, total	AAS	I-3381-85	A	µg/L	10 µg/L	USGS
01046	Iron, dissolved	AE, ICP	I-1472-85	A	µg/L	3 µg/L	USGS
01051	Lead, total	AAS, graphite furnace	I-3403-89	A	µg/L	1 µg/L	USGS
71900	Mercury, total	AAS, flameless	I-3462-85	A	µg/L	0.1 µg/L	USGS
01055	Manganese, total	AAS	I-3454-85	A	µg/L	10 µg/L	USGS
01056	Manganese, dissolved	AE, ICP	I-1472-85	A	µg/L	10 µg/L	USGS

[1/] National Water Data Storage and Retrieval System of the U.S. Geological Survey.

Table 2.--*Types of inorganic, physical, and biological analyses performed on water samples collected in the high Point Lake watershed*--Continued

[**Analytical method**: AE, atomic emission; ICP, inductively coupled plasma; AAS, atomic absorption spectrometry; IC, ion chromatography; µm, micrometer; HPLC, high-performance liquid chromatography. **Method number and source**: Method number given in source publication (see References for complete citation): A, Fishman and Friedman, eds., (1989); B, U.S. Environmental Protection Agency (1983); C, Rantz and others (1982); D, Thatcher, Janzer, and Edwards (1977); E, Britton and Greeson, eds., (1988). mg/L, milligram per liter; µS/cm, microsiemen per centimeter; °C, degrees Celsius; NTU, nephelometric turbidity unit; mm, millimeter; ft, foot; ft^3/s, cubic foot per second; µg/L, microgram per liter; pCi/L, picocurie per liter; mL, milliliter. **Laboratory**: USGS, U.S. Geological Survey; UNC, University of North Carolina at Chapel Hill. --, no data]

WATSTORE[1/] parameter code	Constituent	Analytical method	Method number	Source	Units	Detection limit	Laboratory
01067	Nickel, total	AAS, graphite furnace	I-3503-89	A	µg/L	1 µg/L	USGS
01147	Selenium, total	AAS	I-4667-85	A	µg/L	1 µg/L	USGS
01077	Silver, total	AAS, graphite furnace	I-3724-89	A	µg/L	1 µg/L	USGS
01092	Zinc, total	AAS	I-5900-85	A	µg/L	10 µg/L	USGS
00720	Cyanide, total	Colorimetry, barbituric acid	I-4302-85	A	mg/L	0.01 mg/L	USGS
80154	Suspended sediment	Gravimetric following filtration	--	D	mg/L	1 mg/L	USGS-Raleigh
01012	Beryllium, total	AAS	I-3095-85	A	µg/L	10 µg/L	USGS
01057	Thallium, dissolved	AAS, graphite furnace	I-1866-85	A	µg/L	1 µg/L	USGS
01062	Molybdenum, total	AAS	I-3490-85	A	µg/L	1 µg/L	USGS
01085	Vanadium, dissolved	Colorimetry, catalytic oxid	I-2880-87	A	µg/L	1 µg/L	USGS
01097	Antimony, total	AAS	I-3055-85	A	µg/L	1 µg/L	USGS
03515	Gross beta radio-activity, dissolved	Residue procedure	R-1120-76	D	pCi/L as Cs-137	0.4 pCi/L	USGS
80030	Gross alpha radio-activity, dissolved	Residue procedure	R-1120-76	D	µg/L as U natural	0.4 µg/L	USGS
80050	Gross beta radio-activity, dissolved	Residue procedure	R-1120-76	D	pCi/L as Sr-90/Y-90	0.4 pCi/L	USGS
09510	Radium-226, dissolved	Precipitation, planchet counting	R-1140-76	D	pCi/L as Ra-226	0.1 pCi/L	USGS
81366	Radium-228, dissolved	Separation & counting of Ac-228	R-1142-76	D	pCi/L as Ra-228	2 pCi/L	USGS
82303	Radon-222, dissolved	Liquid scintillation	--	--	pCi/L as Rn-222	80 pCi/L	USGS
22703	Uranium, dissolved	Laser-induced phosphorimetry	--	--	µg/L as U	0.4 µg/L	USGS
--	*Giardia lamblia*	Sauch, 1985; Rose and others, 1988	--	--	cysts/100 gal	--	UNC
--	*Legionella*	Fliermans and others, 1981	--	--	cells/L	--	UNC
--	Viruses	Berg, 1984	--	--	number/number of gal	--	UNC
31501	Total coliform bacteria	Membrane filter, M-Endo medium	B-0025-85	E	colonies/100 mL	10 colonies/ 100 mL	USGS
31625	Fecal coliform bacteria	Membrane filter, 0.7 µm, M-FC media at 44.5 °C	B-0050-85	E	colonies/100 mL	10 colonies/ 100 mL	USGS
70953	Chlorophyll-*a*, phytoplankton	HPLC	B-6530-85	E	µg/L	0.1 µg/L	USGS
70954	Chlorophyll-*b*, phytoplankton	HPLC	B-6530-85	E	µg/L	0.1 µg/L	USGS

[1/] National Water Data Storage and Retrieval System of the U.S. Geological Survey.

Table 3.--*Types of inorganic and physical analyses performed on sediment samples collected in the High Point Lake watershed*

[mg/kg, milligram per kilogram; AAS, atomic absorption spectrometry; µg/g, microgram per gram; AE, atomic emission; DC, direct current]

WATSTORE[1] parameter code	Constituent	Analytical method[2]	Method[3] number	Units	Detection limit
00611	Ammonia nitrogen, total in bottom material, dry weight	Colorimetry	I-6522-86	mg/kg as N	0.4 mg/kg
00626	Ammonia plus organic nitrogen, total in bottom material, dry weight	Titrimetric, digestion-distillation	I-5553-85	mg/kg as N	10 mg/kg
00633	Nitrite plus nitrate nitrogen, total in bottom material, dry weight	Colorimetry, Cd-reduction	I-6545-86	mg/kg as N	2 mg/kg
00668	Phosphorus, total in bottom material, dry weight	Colorimetry, phospho-molybdate	I-6600-88	mg/kg as P	40 mg/kg
01003	Arsenic, total in bottom material, dry weight	AAS, hydride	I-6062-85	µg/g as As	1 µg/g
01028	Cadmium, recoverable in bottom material, dry weight	Digest, AAS	I-5135-85	µg/g as Cd	1 µg/g
01029	Chromium, recoverable in bottom material, dry weight	Digest, AAS	I-5236-85	µg/g as Cr	1 µg/g
01038	Cobalt, recoverable in bottom material, dry weight	Digest, AAS	I-5239-85	µg/g as Co	5 µg/g
01043	Copper, recoverable in bottom material, dry weight	Digest, AAS	I-5270-85	µg/g as Cu	1 µg/g
01052	Lead, recoverable in bottom material, dry weight	Digest, AAS	I-5399-85	µg/g as Pb	10 µg/g
01053	Manganese, recoverable in bottom material, dry weight	Digest, AAS	I-5454-85	µg/g as Mn	1 µg/g
01093	Zinc, recoverable in bottom material, dry weight	Digest, AAS	I-5900-85	µg/g as Zn	1 µg/g
01170	Iron, recoverable in bottom material, dry weight	Digest, AAS	I-5399-85	µg/g as Fe	1 µg/g
71921	Mercury, recoverable in bottom material, dry weight	AAS, flameless	I-5490-85	µg/g as Hg	.01 µg/g
01023	Boron, recoverable in bottom material, dry weight	AE, DC plasma	I-5114-86	µg/g as B	10 µg/g

[1] National Water Data Storage and Retrieval System of the U.S. Geological Survey.
[2] Analyses performed at U.S. Geological Survey laboratory.
[3] Method given in Fishman and Friedman (1989).

Table 4.--*Types of organic analyses performed on water and bottom-sediment samples collected in the High Point Lake watershed*

[µg/L, microgram per liter; µg/kg, microgram per kilogram; --, no analyses performed; NBS, National Bureau of Standards with varying detection limit]

WATSTORE[1] code		Constituent	Detection limit	
Total	Bottom material		Water	Bottom sediment
		Acid extractables[2,3,4]		
34452	34455	4-Chloro-3-methylphenol	30 µg/L	600 µg/kg
34586	34589	2-Chlorophenol	5 µg/L	200 µg/kg
34601	34604	2,4-Dichlorophenol	5 µg/L	200 µg/kg
34606	34609	2,4-Dimethylphenol	5 µg/L	200 µg/kg
34657	34660	4,6-Dinitro-2-methylphenol	30 µg/L	600 µg/kg
34616	34619	2,4-Dinitrophenol	20 µg/L	600 µg/kg
34591	34594	2-Nitrophenol	20 µg/L	200 µg/kg
34646	34649	4-Nitrophenol	5 µg/L	600 µg/kg
39032	39061	Pentachlorophenol	30 µg/L	600 µg/kg
34694	34695	Phenol	5 µg/L	200 µg/kg
34621	34624	2,4,6-Trichlorophenol	20 µg/L	600 µg/kg
		Neutral extractables[3,4,5]		
34536	34539	1,2-Dichlorobenzene	5 µg/L	200 µg/kg
34566	34569	1,3-Dichlorobenzene	5 µg/L	200 µg/kg
34571	34574	1,4-Dichlorobenzene	5 µg/L	200 µg/kg
34396	34399	Hexachloroethane	5 µg/L	200 µg/kg
39702	39705	Hexachlorobutadiene	5 µg/L	200 µg/kg
39700	39701	Hexachlorobenzene	5 µg/L	200 µg/kg
34551	34554	1,2,4-Trichlorobenzene	5 µg/L	200 µg/kg
34278	34281	bis(2-Chloroethoxy)methane	5 µg/L	200 µg/kg
34696	34445	Naphthalene	5 µg/L	200 µg/kg
34581	34584	2-Chloronaphthalene	5 µg/L	200 µg/kg
34408	34411	Isophorone	5 µg/L	200 µg/kg
34447	34450	Nitrobenzene	5 µg/L	200 µg/kg
34611	34614	2,4-Dinitrotoluene	5 µg/L	200 µg/kg
34626	34629	2,6-Dinitrotoluene	5 µg/L	200 µg/kg
34636	34639	4-Bromophenylphenyl ether	5 µg/L	200 µg/kg
39100	39102	Bis(2-ethylhexy)phthalate	5 µg/L	200 µg/kg
34596	34599	Di-n-octylphthalate	10 µg/L	400 µg/kg
34341	34344	Dimethylphthalate	5 µg/L	200 µg/kg
34336	34339	Diethylphthalate	5 µg/L	200 µg/kg
39110	39112	Di-n-butylphthalate	5 µg/L	200 µg/kg
34200	34203	Acenaphthylene	5 µg/L	200 µg/kg
34205	34208	Acenaphthene	5 µg/L	200 µg/kg
34292	34295	Butylbenzylphthalate	5 µg/L	200 µg/kg
34381	34384	Fluorene	5 µg/L	200 µg/kg
34376	34379	Fluoranthene	5 µg/L	200 µg/kg
34320	34323	Chrysene	10 µg/L	400 µg/kg
34469	34472	Pyrene	5 µg/L	200 µg/kg
34461	34464	Phenanthrene	5 µg/L	200 µg/kg

[1] National Water Data Storage and Retrieval System of the U.S. Geological Survey.

[2] Method 0-3117-83 (Wershaw and others, 1987).

[3] Method 625 (U.S. Environmental Protection Agency, 1984).

[4] Method 0-5116-83 (Wershaw and others, 1987).

[5] Method 0-3118-83 (Wershaw and others, 1987).

Table 4.--*Types of organic analyses performed on water and bottom-sediment samples collected in the High Point Lake watershed*--Continued

[µg/L, microgram per liter; µg/kg, microgram per kilogram; --, no analyses performed; NBS, National Bureau of Standards with varying detection limit]

WATSTORE[1] code		Constituent	Detection limit	
Total	Bottom material		Water	Bottom sediment
		Neutral extractables[3,4,5]--Continued		
34220	34223	Anthracene	5 µg/L	200 µg/kg
34526	34529	Benzo(a)anthracene	10 µg/L	400 µg/kg
34230	34233	Benzo(b)fluoranthene	10 µg/L	400 µg/kg
34242	34245	Benzo(k)fluoranthene	10 µg/L	400 µg/kg
34247	34250	Benzo(a)pyrene	10 µg/L	400 µg/kg
34403	34406	Indeno(1,2,3-cd)pyrene	10 µg/L	400 µg/kg
34556	34559	Dibenzo(a,h)anthracene	10 µg/L	400 µg/kg
34521	34524	Benzo(g,h,i)perylene	10 µg/L	400 µg/kg
34641	34644	4-Chlorophenylphenyl ether	5.0 µg/L	200 µg/kg
34273	34276	Bis(2-chloroethyl)ether	5.0 µg/L	200 µg/kg
34386	34389	Hexachlorocyclopentadiene	5.0 µg/L	200 µg/kg
34283	34286	Bis(2-chlorisopropyl)ether	5.0 µg/L	200 µg/kg
		Base extractables[3,4,5]		
34631	34634	3,3'Dichlorobenzidene	25 µg/L	--
39120	39121	Benzidine	50 µg/L	--
34433	34436	N-Nitrosodiphenylamine	5 µg/L	200 µg/kg
34438	34441	N-Nitrosodimethylamine	5 µg/L	200 µg/kg
34428	34431	N-Nitroso-n-propylamine	5 µg/L	200 µg/kg
		GC/FID Scans		
99478	99475	Methylene-chloride extractable organic compounds	0.1 µg/L	4 µg/kg
		Organochlorines[6,7,8,9]		
34361	34364	alpha-Endosulfan	0.01 µg/L	0.1 µg/kg
39330	39333	Aldrin	.01 µg/L	.1 µg/kg
39380	39383	Dieldrin	.01 µg/L	.1 µg/kg
39365	39321	DDE	.01 µg/L	.1 µg/kg
39370	39301	DDT	.01 µg/L	.1 µg/kg
39360	39311	DDD	.01 µg/L	.1 µg/kg
39390	39393	Endrin	.01 µg/L	.1 µg/kg
34366	34369	Endrin aldehyde	.01 µg/L	.1 µg/kg
39410	39413	Heptachlor	.01 µg/L	.1 µg/kg
39420	39423	Heptachlor epoxide	.01 µg/L	.1 µg/kg
39350	39351	Chlordane	.1 µg/L	.1 µg/kg
39400	39403	Toxaphene	1.0 µg/L	.1 µg/kg
39250	39251	PCN's, total	.1 µg/L	1.0 µg/kg
39516	39519	PCB's, total	.1 µg/L	1.0 µg/kg
39337	39076	alpha-Benzene hexachloride	.1 µg/L	.1 µg/kg
39338	34257	beta-Benzene hexachloride	.1 µg/L	.1 µg/kg
34259	34262	delta-Benzene hexachloride	.1 µg/L	.1 µg/kg

[3] Method 625 (U.S. Environmental Protection Agency, 1984).

[4] Method 0-5116-83 (Wershaw and others, 1987).

[5] Method 0-3118-83 (Wershaw and others, 1987).

[6] Method 608 (U.S. Environmental Protection Agency, 1984).

[7] Method 0-3104-83 (Wershaw and others, 1987).

[8] Method 0-1104-83 (Wershaw and others, 1987).

[9] Method 0-5104-83 (Wershaw and others, 1987).

Table 4.--*Types of organic analyses performed on water and bottom-sediment samples collected in the High Point Lake watershed*--Continued

[µg/L, microgram per liter; µg/kg, microgram per kilogram; --, no analyses performed; NBS, National Bureau of Standards with varying detection limit]

WATSTORE[1] code		Constituent	Detection limit	
Total	Bottom material		Water	Bottom sediment
		Organochlorines[6,7,8,9]--Continued		
39340	39343	Lindane (gamma-BHC)	.1 µg/L	.1 µg/kg
82183	34609	2,4 D,P	.1 µg/L	.1 µg/kg
39034	81886	Ethylan (Perthane)	.1 µg/L	1.0 µg/kg
39755	39758	Mirex	.01 µg/L	.1 µg/kg
39480	39481	Methoxychlor	.01 µg/L	.1 µg/kg
		Organophosphorus[6,7,8]		
39570	39571	Diazinon	0.1 µg/L	0.1 µg/kg
39398	39399	Ethion	.1 µg/L	.1 µg/kg
39530	39531	Malathion	.1 µg/L	.1 µg/kg
39600	39601	Methyl parathion	.1 µg/L	.1 µg/kg
39790	39791	Methyl trithion	.1 µg/L	.1 µg/kg
39540	39541	Parathion	.1 µg/L	.1 µg/kg
39786	39787	Trithion	.1 µg/L	.1 µg/kg
39011	--	Disulfoton (Disyston)	.01 µg/L	--
39012	--	Chlorpyrifos (Dursban)	.01 µg/L	--
39013	--	Fonofos (Dyfonate)	.01 µg/L	--
39023	--	Phorate (Thimet)	.1 µg/L	--
39580	--	Azinphosmethyl (Guthion)	.1 µg/L	--
39040	--	(DEF)	.01 µg/L	--
		Carbamate insecticides[10]		
39053	--	Aldicarb (Temik)	0.5 µg/L	--
82586	--	Aldicarb sulfoxide	.5 µg/L	--
82587	--	Aldicarb sulfone	.5 µg/L	--
81405	--	Carbofuran (Furadan)	.5 µg/L	--
82584	--	3-Hydroxycarbofuran	.5 µg/L	--
39051	--	Methomyl (Lannate)	.5 µg/L	--
77441	--	1-Naphthol	.5 µg/L	--
38865	--	Oxamyl (Vydate)	.5 µg/L	--
39052	--	Propham (Chem Hoe)	.5 µg/L	--
39750	--	Carbaryl (Sevin)	.5 µg/L	--
		Chlorophenoxy acid herbicides[11]		
39730	--	2,4-D	0.01 µg/L	--
82052	--	Dicamba	.01 µg/L	--
82183	--	2,4-DP	.01 µg/L	--
39720	--	Picloram	.01 µg/L	--
39760	--	2,4,5-TP (Silvex)	.01 µg/L	--
39740	--	2,4,5-T	.01 µg/L	--

[6] Method 608 (U.S. Environmental Protection Agency, 1984).
[7] Method O-3104-83 (Wershaw and others, 1987).
[8] Method O-1104-83 (Wershaw and others, 1987).
[9] Method O-5104-83 (Wershaw and others, 1987).
[10] Method O-3107-83 (Wershaw and others, 1987).
[11] Method O-3105-83 (Wershaw and others, 1987).

Table 4.--*Types of organic analyses performed on water and bottom-sediment samples collected in the High Point Lake watershed*--Continued

[µg/L, microgram per liter; µg/kg, microgram per kilogram; --, no analyses performed; NBS, National Bureau of Standards with varying detection limit]

WATSTORE[1/] code		Constituent	Detection limit	
Total	Bottom material		Water	Bottom sediment
		Triazines and other nitrogen-containing herbicides[12/]		
77825	--	Alachlor (Lasso)	0.1 µg/L	--
82184	--	Ametryn (Evik)	.1 µg/L	--
39630	--	Atrazine (Aatrex)	.1 µg/L	--
81757	--	Cyanazine (Bladex)	.1 µg/L	--
82612	--	Metolachlor (Dual)	.1 µg/L	--
82611	--	Metribuzin (Sencor)	.1 µg/L	--
39056	--	Prometon (Pramitol)	.1 µg/L	--
39057	--	Prometryn (Caparol)	.1 µg/L	--
39024	--	Propazine (Milogard)	.1 µg/L	--
39055	--	Simazine (Princep)	.1 µg/L	--
39054	--	Simetryn	.1 µg/L	--
39030	--	Trifluralin (Treflan)	.1 µg/L	--
82185	--	Atraton	.1 µg/L	--
82187	--	Cyprazine	.1 µg/L	--
82188	--	Simetone	.1 µg/L	--
		Miscellaneous insecticides, fungicides, and herbicides		
--	--	Cyclohexamide (Actidion)	NBS	--
39002	--	Benefin (Balan)	NBS	--
38710	--	Bentazon (Basgran)	NBS	--
38892	--	Triadimefon (Bayleton 25)	NBS	--
--	--	Bensulide (Betasan)	NBS	--
--	--	Iprodione (Chipco)	NBS	--
--	--	Chlorothalonil (Daconcil)	NBS	--
39014	--	Trichlorfon (Dylox)	NBS	--
--	--	Anilazine (Dyrene)	NBS	--
--	--	Mefluidide (Embark)	NBS	--
45606	--	Ethofumesate (Prograss)	NBS	--
--	--	Femarimol (Rubigan)	NBS	--
--	--	Oxadiazon (Ronstar)	NBS	--
--	--	Metalaxy (Subdue)	NBS	--
78884	--	Orgzalin (Surflan)	NBS	--
38569	--	Thiram (Tersan)	NBS	--
38705	--	Benomyl (Benlate)	NBS	--
--	--	(Trimec)	NBS	--
38547	--	Siduron (Tupersan)	NBS	--
38432	--	Dalapon	NBS	--
--	--	Diquat	NBS	--
38926	--	Endothall	NBS	--
--	--	Dinoseb	NBS	--
38830	--	Mancozeb (Fore)	NBS	--
--	--	Methylthiophanate (Fungo 50)	NBS	--
38835	--	Maneb (LSR)	NBS	--
39357	--	(Ronnel) Fenchlorphos	NBS	--
81890	--	Monocrotophos (Azodrin)	NBS	--
39610	--	Mevinphos (Phosdrin)	NBS	--
39650	--	Diuron	NBS	--

12/ Method O-3106-83 (Wershaw and others, 1987).

Table 4.--*Types of organic analyses performed on water and bottom-sediment samples collected in the High Point Lake watershed*--Continued

[µg/L, microgram per liter; µg/kg, microgram per kilogram; --, no analyses performed; NBS, National Bureau of Standards with varying detection limit]

WATSTORE[1/] code		Constituent	Detection limit	
Total	Bottom material		Water	Bottom sediment
		Purgeables[13/]		
34030	--	Benzene	0.2 µg/L	--
34010	--	Toluene	.2 µg/L	--
34371	--	Ethylbenzene	.2 µg/L	--
32102	--	Carbon tetrachloride	.2 µg/L	--
34301	--	Chlorobenzene	.2 µg/L	--
32103	--	1,2-Dichloroethane	.2 µg/L	--
34506	--	1,1,1-Trichloroethane	.2 µg/L	--
34704	--	cis-1,3-Dichloropropene	.2 µg/L	--
34699	--	trans-1,3-Dichloropropene	.2 µg/L	--
34469	--	1,1-Dichloroethane	.2 µg/L	--
34501	--	1,1-Dichloroethylene	.2 µg/L	--
34511	--	1,2,2-Trichloroethane	.2 µg/L	--
34516	--	1,1,2,2-Tetrachloroethane	.2 µg/L	--
34311	--	Chloroethane	.2 µg/L	--
34576	--	2-Chloroethyl vinyl ether	.2 µg/L	--
32106	--	Chloroform	.2 µg/L	--
34541	--	1,2-Dichloropropane	.2 µg/L	--
34423	--	Methylene chloride	.2 µg/L	--
34418	--	Methyl chloride	.2 µg/L	--
34413	--	Methyl bromide	.2 µg/L	--
32101	--	Dichlorobromomethane	.2 µg/L	--
32105	--	Chlorodibromomethane	.2 µg/L	--
34475	--	Tetrachloroethylene	.2 µg/L	--
39180	--	Trichlorethylene	.2 µg/L	--
39175	--	Vinyl chloride	.2 µg/L	--
34546	--	1,2-trans-dichloroethylene	.2 µg/L	--
32104	--	Bromoform	.2 µg/L	--
77128	--	Styrene	.2 µg/L	--
81551	--	Xylene	.2 µg/L	--
34536	--	1,2-Dichlorobenzene	.2 µg/L	--
34566	--	1,3-Dichlorobenzene	.2 µg/L	--
34571	--	1,4-Dichlorobenzene	.2 µg/L	--

[13/]Method 0-3115-83 (Wershaw and others, 1987).

Stream Sites

Hydrologic, chemical, and physical data were collected at stream sites (fig. 1). Individual site descriptions are listed in table 5. Discharge measurements were made during water-quality sampling at all stream sites with the exception of site 1. Stage-discharge ratings were developed for three stream sites equipped with continuous-stage monitoring equipment. The methods used to develop these ratings are described in Carter and Davidian (1968) and Rantz and others (1982).

Field measurements were made onsite as samples were collected. Water samples for laboratory analysis of inorganic compounds and physical characteristics were collected using depth integration, equal-width increment method, composited in a churn splitter, processed, and preserved (Edwards and Glysson, 1988). Samples to be analyzed for organic constituents were collected at the centroid of flow. A summary of the sampling scheme is given in table 6.

Procedures for onsite field measurements and for collecting, treating, and shipping water samples were followed as outlined by Guy and Norman (1970); Stevens and others (1975); Wood (1976); Thatcher and others (1977); Wershaw and others (1987); Britton and Greeson, (1988); Fishman and Friedman (1989); and U.S. Environmental Protection Agency (1991). The physical and chemical analyses were performed at the USGS National Water-Quality Laboratory in Denver, Colorado.

Samples were collected from the upper one-half to three-quarters inch of bottom sediment using stainless steel sampling equipment at 9 of 10 stream sites at three to four points of a cross section. Sediments were sieved through a 2-mm stainless steel sieve, and sealed in organically sterile glass jars. Leaves, twigs, and trash were removed prior to sieving. Equipment was cleaned with organic solvents and rinsed with native water between samplings. Samples were collected in February 1989 at sites 2 through 10 (fig. 1) for GC/FID analyses. Samples from sites 2, 3, 8, and 9 (fig. 1) were analyzed for acid and base/neutral extractable organic compounds. Procedures for collecting, treating, and shipping bottom-sediment samples were followed as outlined by Guy (1969); Guy and Norman (1970); Wershaw and others (1987); and Fishman and Friedman (1989).

Table 5.--*Stream sampling sites in and around High Point, North Carolina*

[Station number, U.S. Geological Survey downstream order identification number; mi, mile; SR, Secondary Road]

Station number	Site number (fig. 1)	Station name	Latitude	Longitude	Location description	Drainage area (square miles)	Discharge records
0209909800	1	Deep River at Jamestown	35°59'12"	79°56'39"	On concrete structure on right bank at downstream side at abandoned pump station, 0.5 mi above SR 1334 (Dillon Road) and 0.6 mi south of Jamestown (No benchmark)	64.6	Intermittent.
0209850340	2	Boulding Branch near High Point	35°58'47"	79°59'28"	Benchmark on right, downstream side of bridge at U.S. Highway 70A (Lexington Avenue) and 1.9 mi northeast of High Point	2.15	Intermittent.
0209849550	3	West Fork, Deep River near Deep River	36°00'35"	79°59'06"	On left bank at upstream side of bridge on State Highway 68, 1.7 mi southwest of Deep River	31.9	Continuous.
0209834300	4	West Fork, Deep River near Friendship	36°03'20"	80°01'19"	On right bank at downstream side of bridge on SR 1850 (Sandy Ridge Road), 4.5 mi southwest of Friendship	11.5	Continuous.
02099000	5	East Fork, Deep River near High Point	36°02'15"	79°56'46"	On right bank on upstream side of bridge at SR 1541 (West Wendover Avenue), 3.3 mi above High Point Lake dam and 5.2 mi northeast of High Point	14.8	Continuous.
0209900700	6	Long Branch near Deep River	36°02'28"	79°56'16"	Benchmark on right, upstream side of bridge at SR 1541 (West Wendover Avenue), 1.1 mi above mouth and 1.7 mi northeast of Deep River	2.21	Intermittent.
0209883355	7	East Fork, Deep River at Friendship	36°04'42"	79°57'24"	Benchmark on middle, downstream side of bridge at SR 1681 (Albert Pick Road) and 0.9 mi south of Friendship	4.30	Intermittent.
0209900694	8	Long Branch near Guilford	36°03'16"	79°55'40"	In a quarry at a rock dam, below SR 1599 (Marietta Drive) and 2.3 mi southwest of Guilford (No benchmark)	1.35	Intermittent.
0209883560	9	East Fork, Deep River tributary near Friendship	36°03'48"	79°56'30"	Benchmark at center, upstream side of bridge at SR 1554 (Chimney Rock Road) and 2.1 mi south of Friendship	1.14	Intermittent.
0209831250	10	West Fork, Deep River tributary near Colfax	36°04'58"	80°01'18"	Benchmark on downstream side of bridge on SR 1859 (Bolyston Road) and 2.1 mi south of Colfax	4.31	Intermittent.

Table 6.--*Stream sampling schedule*

[GC/FID, gas chromotograph/flame ionization detector; TOC, total organic carbon; COD, chemical oxygen demand; --, no analyses performed]

Site number (fig. 1)	Field measurements, suspended sediment, major ions, nutrients, TOC, and COD	Trace metals	Volatile organic compounds	GC/FID	Carbamate insecticides, chlorophenoxy insecticides, triazine herbicides, organochlorine insecticides, and organophosphorus insecticides	Acid and base/neutral extractable organics
			Steady flow			
1	Dec. 1988; Jan., May, and July 1989	May and July 1989	Dec. 1988 and May 1989	Dec. 1988 and May 1989	--	--
2	Dec. 1988; Jan., May, July, Sept., and Oct. 1989	May and July 1989	Dec. 1988; May and Oct. 1989	Dec. 1988; May and Oct. 1989	May 1989	--
3	Dec. 1988; Jan., May, July, Sept., and Oct. 1989	May and July 1989	Dec. 1988; May and Oct. 1989	Dec. 1988; May and Oct. 1989	--	--
4	Dec. 1988; Jan., May, July, Sept., and Oct. 1989	May and July 1989	Dec. 1988; May and Oct. 1989	Dec. 1988; May and Oct. 1989	May 1989	--
5	Dec. 1988; Jan., May, July, Sept., and Oct. 1989	May and July 1989	Dec. 1988; May and Oct. 1989	Dec. 1988; May and Oct. 1989	May 1989	--
6	Dec. 1988; Jan., May, July, Sept., and Oct. 1989	May and July 1989	Dec. 1988; May and Oct. 1989	Dec. 1988; May and Oct. 1989	May 1989	--
7	Dec. 1988; Jan., May, July, Sept., and Oct. 1989	May and July 1989	Dec. 1988 and May 1989	Dec. 1988 and May 1989	--	--
8	Dec. 1988; May, and Oct. 1989	May 1989	Dec. 1988 and May 1989	Dec. 1988 and May 1989	--	--
9	Dec. 1988; May, and Oct. 1989	May 1989	Dec. 1988 and May 1989	Dec. 1988 and May 1989	--	--
10	Dec. 1988; May, and Oct. 1989	May 1989	Dec. 1988 and May 1989	Dec. 1988 and May 1989	--	--
			Unsteady flow			
2	Feb., May, June, and Sept. 1989	Feb., May, June, and Sept. 1989	--	Sept. 1989	--	Feb. and June 1989
3	Feb., Sept., and Dec. 1989	Feb. and Dec. 1989	--	Sept. 1989	--	--
4	Feb., Sept., and Dec. 1989	Feb., Sept., and Dec. 1989	--	Feb. and Sept. 1989	--	Feb. 1989
5	Feb., June, and Sept. 1989	Feb., June, and Sept. 1989	--	Feb. 1989	--	Feb. and June 1989
6	Feb. and Dec. 1989	Feb. and Dec. 1989	--	Dec. 1989	--	Feb. 1989

Lake Sites

Lake samples were collected at eight sites on Oak Hollow and High Point Lakes, as shown in figure 1. Descriptions of and location data for these sampling sites are presented in table 7. At each lake sampling site, depth to lake bottom was determined, and selected field measurements were made at various depths. At sites A through F, a mid-depth sample was taken. At sites G and H, samples were taken at mid-depth as well as in the epilimnion and the hypolimnion. A portable, battery-operated, four-parameter Hydrolab 4000 series instrument was used to define stratification, if present, by measuring dissolved-oxygen concentration, specific conductance, pH, and water temperature.

Samples were collected using a 2-in. diameter, stainless steel or Teflon double-check ball bailer lowered to the desired point of collection in the water column. The bailer was then rapidly pumped vertically via the handline so that water flowed through the bailer and exited at the top. When removed, the bailer contained a point sample from the desired depth, as the check balls in the bailer blocked entry or loss of water. Multiple volumes were required to satisfy all inorganic analyses requirements; samples were composited in a churn splitter before processing and preservation. Coliform and chlorophyll-*a* and *b* samples were collected 1 ft below lake surface. Table 8 presents the sampling schedule used to collect lake-water samples.

More than 100 gal of water were collected from each lake for *Legionella*, *Giardia lamblia*, and enteric viruses analyses. Water was pumped from Oak Hollow Lake directly downstream from the dam; High Point Lake samples were collected at the shore of the lake 50 ft upstream of the dam on the west bank (fig. 1).

Dr. Mark Sobsey of The University of North Carolina at Chapel Hill used the direct fluorescent antibody method described in Fliermans and others (1981) to analyze water samples for *Legionella* bacteria. He used modifications of Method 9711b as described in Sauch (1985), Rose and others (1988), and American Public Health Association and others (1989) to determine concentrations of *Giardia lamblia;* and modifications of Method 9510 as described in Payment and others (1984), Berg (1984), and American Public Health Association and others (1989) to determine concentrations of enteric viruses in lake samples.

Table 7.--*Lake sampling sites in and around High Point, North Carolina*

[Station number, U.S. Geological Survey downstream order identification number; mi, mile; SR, Secondary Road]

Station number	Site letter (fig. 1)	Station name	Latitude	Longitude	Location	(1) Sampling location (2) Method used (3) Distance upstream from bridge (feet) (4) Depth from water surface to lake bottom (feet)	February 1989	May 1989	August 1989	October 1989
0209846700	A	Oak Hollow Lake near High Point	35°59'58"	80°00'09"	Midlake, 0.1 mi above SR 1507 (North Centennial Street) and 3.1 mi north of High Point	(1) (2) (3) (4)	From bridge Bailer 0 13.0	From bridge Bailer 0 12.0	From boat Grab 950 3.0	From boat Grab 950 2.9
0209843500	B	Hiatt Branch at Oak Hollow Lake near High Point	36°00'42"	80°00'46"	Midlake, 0.1 mi above SR 1818 (Johnson Street) and 3.9 mi north of High Point	(1) (2) (3) (4)	From bridge Bailer 0 11.0	From bridge Bailer 0 12.0	From boat Bailer 250 4.0	From boat Grab 300 3.0
0209848000	C	Oak Hollow Lake at Deep River	36°01'15"	79°58'55"	Midlake, 0.7 mi below SR 1831 (White's Mill Road) and 1.0 mi southwest of Deep River	(1) (2) (3) (4)	From boat Bailer 5,200 from dam 6.0	From boat Bailer 5,200 from dam 11.7	From boat Bailer 5,200 from dam 11.0	From boat Bailer 5,200 from dam 9.6
0209837600	D	West Fork, Deep River at Oak Hollow Lake near Sandy Ridge	36°02'28"	80°00'06"	Midlake, 0.1 mi above SR 1820 (Skeet Club Road) and 2.1 mi south of Sandy Ridge	(1) (2) (3) (4)	From bridge Bailer 0 11.0	From bridge Bailer 0 10.9	From boat Bailer 150 4.0	From boat Bailer 250 6.2
0209850375	E	West Fork, Deep River at High Point Lake near Jamestown	35°59'55"	79°57'24"	Midlake, 0.1 mi above SR 1536 (Penny Road) and 1.2 mi west of Jamestown	(1) (2) (3) (4)	From bridge Bailer 0 22.0	From boat Bailer 600 19.0	From boat Bailer 750 6.5	From boat Bailer 800 4.0
0209900800	F	High Point Lake near Florence	36°00'46"	79°56'20"	Midlake, 0.1 mi above SR 1545 (East Fork Road) and 1.3 mi southwest of Florence	(1) (2) (3) (4)	From bridge Bailer 0 18.0	From bridge Bailer 0 18.7	From boat Bailer 350 14.6	From boat Bailer 400 15.5
0209847000	G	Oak Hollow Lake above dam near Deep River	36°00'49"	79°59'21"	Midlake, 0.1 mi above dam and 1.6 mi southwest of Deep River	(1) (2) (3) (4)	From boat Bailer 250 from dam 37.0	From boat Bailer 300 from dam 32.6	From boat Bailer 200 from dam 33.5	From boat Bailer 250 from dam 38.0
0209904795	H	High Point Lake at Jamestown	35°59'47"	79°56'46"	Midlake, 0.1 mi above the dam and 0.5 mi west of Jamestown	(1) (2) (3) (4)	From boat Bailer 500 from dam 23.0	From boat Bailer 300 from dam 31.8	From boat Bailer 300 from dam 31.0	From boat Bailer 300 from dam 30.0

Table 8.--*Lake sampling schedule for 1989*

[GC/FID, gas chromotograph/flame ionization detector; TOC, total organic carbon; COD, chemical oxygen demand; VOC, volatile organic compound; --, no analyses performed]

Site letter (fig. 1)	Field measurements, nutrients, TOC, COD, chlorophyll, and depth profiles	Metals, major ions, and VOC	Trihalomethane formation potential	GC/FID	Trace elements, carbamate insecticides, chlorophenoxy insecticides, triazine herbicides, organochlorine insecticides, and organophosphorus insecticides	Acid and base/neutral extractable organics
A	Feb., May, Aug., and Oct.	May	--	--	May	May
B	Feb., May, Aug., and Oct.	May	--	--	May	May
C	Feb., June, Aug., and Oct.	June	--	--	June	June
D	Feb., May, Aug., and Oct.	May	--	--	May	May
E	Feb., May, Aug., and Oct.	May	--	--	May	May
F	Feb., May, Aug., and Oct.	May	--	--	May	May
G	Feb., June, Aug., and Oct.	Feb., June, Aug., and Oct.	Feb., June, Aug, and Oct.	Aug. and Oct.	June	Feb. and June
H	Feb., June, Aug., and Oct.	Feb., June, Aug., and Oct.	Feb., June, Aug., and Oct.	Aug. and Oct.	June	Feb. and June

Coliform analyses were performed by the City of High Point Ward Treatment Plant Laboratory. Asbestos samples were analyzed by Burmah Technical Services in Gulfport, Mississippi, using methods outlined by the U.S. Environmental Protection Agency (1991). Trihalomethane formation potential (THMFP) analyses were conducted by Dr. Phillip Singer, The University of North Carolina at Chapel Hill, using Method 5710B as described in American Public Health Association and others (1989).

Bottom sediment was collected at eight lake sampling sites in August 1989 using stainless steel equipment and a stainless steel Ponar Grab Dredge sampler on a handline. Each sample and the equipment used to collect it were treated in the same manner as the stream-sediment samples and equipment. Complete particle-size analyses were performed, and nutrient, trace-metal, and pesticide concentrations were determined.

Ground-Water Sites

Ground-water samples were collected from eight residential wells (fig. 1). Ground-water sampling sites and well construction information, if known, are listed in table 9. Samples were collected at these sampling sites from outside spigots after water was left running full pipe for 15 minutes. Whenever possible, the sample was taken from the spigot nearest the well pump to minimize any effects of plumbing on water quality. Ground-water samples were analyzed for pH, temperature, and volatile organic concentrations; GC/FID scans were also performed.

WATER-QUALITY AND BIOLOGICAL DATA

Hydrologic data for streams are listed in table 10. Data from chemical and physical analyses of stream, lake, and ground-water samples are found in tables 11 through 37. These tables are located at the back of this report. The sites are listed in each table by site number or letter (fig. 1).

The first pages of tables 11 through 35 contain indexes of constituents listed in alphabetical order that are presented in the tables. Listed to the right of each constituent is the USGS's National Water Data Storage and Retrieval System (WATSTORE) parameter code number. For any given constituent, there may be two different parameter code numbers for a water sample because different numbers are assigned for filtered and unfiltered samples. For example, the parameter code for total iron is 01045, and the

Table 9.--*Ground-water sampling sites in and around High Point, North Carolina*

[Site identification number, latitude and longitude of the well site followed by the sequential well number; gal/min; gallons per minute; --, missing data; est, estimated]

Site identification number	Site number (fig. 1)	Date drilled	Total depth (feet)	Static water level (feet)	Yield (gal/min)	Water zone depth (feet)	Casing depth (feet)		Grout depth (feet)	
							From	To	From	To
360131079555801	G1	Oct. 1984	150	64	12	64	0	62	0	21
360249079565101	G2	1982	--	--	--	--	--	--	--	--
360252079560401	G3	July 1986	150	30	30	121	0	39	--	--
360313080010301	G4	Aug. 1986	150	30	30	112	0	100	0	100
360319080004801	G5	Feb. 1988	185	20	10	--	1	115	1	20
360319080012201	G6	--	--	--	--	--	--	--	--	--
360342079591901	G7	1969(est)	160(est)	--	--	--	--	--	--	--
360413079575801	G8	Apr. 1987	125	35	10	119	0	117	0	21

code for dissolved iron is 01046. Following the index page for each table, the constituents are listed in the table in ascending numerical order by parameter code. The heading for each constituent includes the constituent name, phase, units, and the parameter code in parenthesis. Some constituent names listed in the water-quality tables may be shortened to accommodate space limitations in the tables.

Hydrologic or chemical data are listed in the tables in varying formats. Tables 17, 27, 32, and 36 show the results of comparisons of chromatograms obtained using GC/FID and GC/MS methods with the National Bureau of Standards computerized mass spectral library of organic constituents.

Streams

Data collected from streams are listed in tables 10 through 17. The hydrologic data listed in table 10 include mean daily discharges for October 1, 1988, through September 30, 1990, at the continuous-record sitesand miscellaneous measurements at the noncontinuous-record sites. Instantaneous stage and discharge measurements at the time of sampling are listed with the water-quality data in tables 11 through 16.

Tables 11 through 16 contain results of analyses for specific physical, inorganic, and organic constituents, and table 17 contains results from GC/FID and GC/MS scans and the identification of organic compounds in selected stream-water samples by comparison with chromatograms in the National Bureau of Standards library.

Lakes

Tables 18 through 29 contain results from analyses for physical, inorganic, and organic constituents in water samples from Oak Hollow and High Point Lakes. Results from GC/FID and GC/MS scans of selected samples are listed in table 27. Results of microbiological and radiochemical analyses are listed in table 29. Although the majority of the constituents were analyzed at all lake sites, some constituents were only analyzed in samples from sites G and H, current and potential water-treatment plant intake locations (table 8).

Ground Water

Results from analyses of ground water for selected field parameters, total organic carbon, and volatile organic compounds are presented in table 30. This table identifies additional volatile organic compounds in the ground-water samples by comparison with chromatograms in the National Bureau of Standards library.

Stream Sediment

Results from organic analyses of stream sediments are shown in table 31. After inspection of GC/FID results, four stream sediment samples showed large concentrations of unspecified organic compounds; the compounds in these samples were identified with follow-up GC/MS analyses. Compounds identified through comparison of selected GC/FID and GC/MS chromatograms with the National Bureau of Standards mass spectral library are listed in table 32.

Lake Sediment

Tables 33 through 36 contain the results of analyses of bottom sediments for nutrient, trace metal, pesticide, and acid and base/neutral extractable organic compounds. Particle-size analyses were performed on samples from all lake sites; these results are listed in table 37.

REFERENCES

American Public Health Association and others, 1989, Standard methods for the examination of water and wastewater (17th ed.): Washington, D.C., American Public Health Association.

Berg, Gerald, 1984, Manual of methods for virology: U.S. Environmental Protection Agency, EPA-600/4-84-013, February 1984.

Britton, L.J., and Greeson, P.E., eds., 1988, Methods for collection and analysis of aquatic biological and microbiological samples: U.S. Geological Survey Open-File Report 88-190, 685 p.

Carter, R.W., and Davidian, J., 1968, General procedure for gaging streams: U.S. Geological Survey Techniques of Water-Resources Investigations, book 3, chap. A6, 13 p.

City of High Point Department of Planning and Development, 1985, Land use plan: High Point, N.C., revised, 1 sheet.

Daniel, C.C., III, and Payne, R.A., 1990, Hydrogeologic unit map of the Piedmont and Blue Ridge Provinces of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 90-4035, 1 sheet.

Edwards, T.K., and Glysson, G.D., 1988, Field methods for measurement of fluvial sediment: U.S. Geological Survey Open-File Report 86-531, 118 p.

Fishman, M.J., and Friedman, L.C., eds., 1989, Methods for determination of inorganic substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water-Resources Investigations, book 5, chap. A1, 545 p.

Fliermans, C.B., Cherry, W.B., Orrison, L.H., Smith, S.J., Tison, D.L., and Pope, D.H., 1981, Ecological distribution of legionella pheumophilia: Applied and Environmental Microbiology, v. 41, p. 9-16.

Guy, H.P., 1969, Laboratory theory and methods for sediment analysis: U.S. Geological Survey Techniques of Water-Resources Investigations, book 5, chap. C1, 58 p.

Guy, H.P., and Norman, V.W., 1970, Field methods for measurements of fluvial sediment: U.S. Geological Survey Techniques of Water-Resources Investigations, book 3, chap. C2, 59 p.

North Carolina Office of State Budget and Management, 1990, North Carolina municipal population 1989: Raleigh, N.C., 19 p.

Payment, Pierre, Fortin, S., and Trudel, M., 1984, Ferric chloride flocculation for nonflocculating beef extract preparations: Applied and Environmental Microbiology, v. 47, p. 591-592.

Rantz, S.E., and others, 1982, Measurement and computation of streamflow: Volumes I and II, Measurement of stage and discharge: U.S. Geological Survey Water-Supply Paper 2175, v. 2, 631 p.

Rose, J.B., Kayed, D., Madore, M.S., Gerba, C.P., Arrowood, M.J., Sterling, C.R., and Riggs, J.L., 1988, Methods for the recovery of giardia and cryptosporidium from environmental waters and their comparative occurrence *in* Wallis, P.M., and Hammond, B.R., eds., Advances in Giardia Research, University of Calgary Press, p. 205-209.

Sauch, J.F., 1985, Use of immunofluorescence and phase-contrast microscopy for detection and identification of giardia cysts in water samples: Applied Environmental Microbiology, v. 50, p. 1434-1438.

Stephens, R.B., 1977, Soil survey of Guilford County, North Carolina: U.S. Department of Agriculture, Soil Conservation Service, December 1977, 77 p.

Stevens, H.H., Ficke, J.F., and Smoot, G.F., 1975, Water temperature--influential factors, field equipment, and data presentation: U.S. Geological Survey Techniques of Water-Resources Investigations, book 1, chap. D1, 65 p.

Thatcher, L.L., Janzer, V.J., and Edwards, K.W., 1977, Methods for determination of radioactive substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water-Resources Investigations, book 5, chap. A5, 95 p.

U.S. Environmental Protection Agency, 1983, Methods for chemical analysis of water and wastewater: EPA-600/4-79-020, revised March 1983.

-----1984, Method 625--Base/neutral and acids *in* Rules and regulations: Federal Register, October 26, 1984, v. 49, no. 209, p. 153-174.

-----1991, Final rule, national primary and secondary drinking water regulation--Synthetic organic chemicals and inorganic chemicals (sections 141.11, 141.12, 141.32, 141.50, 141.51, 141.61, and 141.62 of part 141 and 143.3 of part 143): U.S. Federal Register, v. 56, no. 20, January 30, 1991, p. 3526-3597.

Wershaw, R.L., Fishman, M.J., Grabbe, R.R., and Lowe, L.E., 1987, Methods for the determination of organic substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water-Resources Investigations, book 5, chap. A3, 80 p.

Wood, W.W., 1976, Guidelines for collection and field analysis of groundwater samples for selected unstable constituents: U.S. Geological Survey Techniques of Water-Resources Investigations, book 2, chap. D2, 24 p.

- PAGE 31 FOLLOWS -

INDEXES AND DATA TABLES

Table 10.--*Index of hydrologic data and record summaries for stream water-quality sampling sites in the High Point Lake watershed*

Table 10A.--*Hydrologic data and record summaries for the stream water-quality sampling site, Deep River at Jamestown, North Carolina*

STATION NUMBER AND NAME.--0209909800 Deep River at Jamestown, N.C.

LOCATION.--Lat 35°59'12", long 79°56'39", Guilford County, Hydrologic Unit 03030003, on concrete structure on right bank at downstream side at abandoned pump station, 0.5 mi above Secondary Road 1334 (Dillon Road) and 0.6 mi south of Jamestown.

SITE CODE.--1 (fig. 1).

DRAINAGE AREA.--64.6 mi^2.

PERIOD OF RECORD.--Miscellaneous records: None.

GAGE.--None.

REMARKS.--No discharge measurements made.

Table 10B.--*Hydrologic data and record summaries for the stream water-quality sampling site, Boulding Branch near High Point, North Carolina*

STATION NUMBER AND NAME.--0209850340 Boulding Branch near High Point, N.C.

LOCATION.--Lat 35°58'47", long 79°59'28", Guilford County, Hydrologic Unit 03030003, on downstream side of bridge on U.S. Highway 70A (Lexington Avenue) and 1.9 mi northeast of High Point.

DRAINAGE AREA.--2.15 mi^2.

SITE CODE.--2 (fig. 1).

PERIOD OF RECORD.--Miscellaneous records: None prior to December 1988; December 1988 through October 1989 (20 measurements).

GAGE.--None.

REMARKS.--Reference point: Chiseled square 12.6 ft from end of right side of bridge on downstream side.

Miscellaneous benchmark and discharge measurements

Date	Discharge (ft^3/s)	Distance from reference point (ft)
12-14-88	0.60	13.16
1-19-89	.77	13.14
2-28-89	34.3	12.58
2-28-89	17.4	12.98
2-28-89	16.8	13.12
2-28-89	14.3	13.27
3-03-89	10.4	13.09
3-03-89	8.97	13.16
5-01-89	1.32	13.49
5-02-89	237	10.70
5-02-89	85.6	11.96
5-18-89	.86	13.46
5-23-89	1.08	13.45
6-09-89	30.8	12.79
6-21-89	11.8	12.91
6-21-89	50.3	12.55
7-12-89	1.00	13.47
8-01-89	1.00	13.54
9-13-89	1.05	13.54
10-30-89	.713	13.52

Table 10C.--*Hydrologic data and record summaries for the stream water-quality sampling site, West Fork, Deep River near Deep River, North Carolina*

STATION NUMBER AND NAME.--0209849550 West Fork, Deep River near Deep River, N.C.

LOCATION.--Lat 36°00'35", long 79°59'06", Guilford County, Hydrologic Unit 03030003, on left bank at upstream side of bridge on North Carolina Highway 68 and 1.7 mi southwest of Deep River.

DRAINAGE AREA.--31.9 mi^2.

SITE CODE.--3 (fig. 1).

PERIOD OF RECORD.--Miscellaneous records: None prior to December 1988; Continuous, December 1988 through December 1989.

GAGE.--Water-stage recorder.

REMARKS.--Low water control is a broken rock and gravel bar 10 ft below gage. The channel bends slightly to the right above the gage and is straight below gage. The channel is somewhat constricted below the gage by high banks. Some regulation at low and medium flow by dam upstream.

[Daily mean discharge values, in cubic feet per second, for December 1988 through December 1989; ---, no data]

	1988	1989										
Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	---	0.86	2.6	149	36	61	6.9	6.7	32	9.7	523	14	13
2	---	.55	3.5	77	27	688	7.7	6.3	52	7.7	786	13	15
3	---	.62	7.7	81	29	103	11	4.9	21	5.8	144	15	31
4	---	.55	3.8	84	28	53	11	6.4	12	4.2	65	10	6.2
5	---	.48	8.6	63	34	101	9.5	26	10	3.1	34	10	8.4
6	---	.48	14	357	70	453	12	24	8.3	4.0	23	13	9.9
7	---	.48	21	527	123	97	9.5	18	6.0	4.9	18	15	12
8	---	.49	18	97	122	55	11	13	3.1	6.0	13	17	53
9	---	.52	12	61	93	73	70	9.9	1.8	7.4	9.9	23	57
10	---	.45	6.0	42	61	90	42	6.4	1.1	7.3	9.7	16	42
11	---	.46	5.5	32	43	76	19	6.2	.83	5.1	10	11	53
12	---	.57	5.8	28	33	44	19	5.4	1.7	7.0	10	11	275
13	---	.52	4.8	23	54	1.2	40	5.2	3.3	6.7	11	11	318
14	---	.43	5.7	22	53	1.4	19	6.6	---	6.2	11	12	99
15	43	.43	6.9	29	30	3.2	16	5.6	8.6	6.0	12	16	66
16	.88	.44	5.4	45	44	16	54	33	47	69	10	199	49
17	.85	.43	19	32	63	11	85	67	61	35	11	87	32
18	.79	.42	41	35	76	12	40	28	37	14	92	47	27
19	.80	.40	29	37	76	13	19	15	178	6.9	467	26	26
20	.78	1.4	46	28	75	13	22	12	60	9.7	91	22	24
21	.79	.40	---	53	42	14	82	9.5	24	23	45	22	22
22	.70	.38	307	60	23	11	93	10	13	118	24	22	18
23	.70	.37	113	151	23	23	49	8.3	11	73	18	91	15
24	.74	.38	85	729	8.7	22	56	6.9	11	23	16	57	15
25	.69	.36	59	130	1.0	13	28	6.6	18	79	15	34	14
26	.64	.57	60	77	1.1	13	15	8.3	23	295	13	26	14
27	.62	1.4	190	54	1.3	13	12	15	57	74	13	22	15
28	.64	.34	688	45	1.2	7.1	9.8	11	37	33	13	22	15
29	.54	.47	---	36	1.2	6.3	8.4	7.3	21	20	13	21	16
30	.61	2.3	---	34	1.2	6.4	6.7	6.4	25	55	12	14	18
31	.71	1.9	---	46	---	7.4	---	9.0	13	---	14	---	44
Total	---	19.85	---	3,264	1,273.7	2,101.0	883.5	403.9	---	1,018.7	2,546.6	919	1,422.5
Mean	---	.64	---	105	42.5	67.8	29.4	13.0	---	34.0	82.1	30.6	45.9
max	---	2.3	---	729	123	688	93	67	---	295	786	199	318
min	---	.34	---	22	1.0	1.2	6.7	4.9	---	3.1	9.7	10	6.2
cfsm	---	.02	---	3.30	1.33	2.12	.92	.41	---	1.06	2.58	.96	1.44
in.	---	.02	---	3.81	1.49	2.45	1.03	.47	---	1.19	2.97	1.07	1.66

Table 10D.--*Hydrologic data and record summaries for the stream water-quality sampling site, West Fork, Deep River near Friendship, North Carolina*

STATION NUMBER AND NAME.--0209834300 West Fork, Deep River near Friendship, N.C.

LOCATION.--Lat 36°03'20", long 80°01'19", Guilford County, Hydrologic Unit 03030003, on right bank at downstream side of bridge on Secondary Road 1850 (Sandy Ridge Road) and 4.5 mi southwest of Friendship.

SITE CODE.--4 (fig. 1).

DRAINAGE AREA.--11.5 mi^2.

PERIOD OF RECORD.--Miscellaneous records: October 1954, October 1961, September 1962, September 1966 (4 measurements); Continuous, December 1988 through December 1989.

GAGE.--Water-stage recorder.

REMARKS.--Sand channel control at all stages. Channel is straight above and below gage with wide overflow plane on both sides of creek.

[Daily mean discharge values, in cubic feet per second, for December 1988 through December 1989; ---, no data]

	1988	1989										
Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	a/9.0	23.0	5.4	31.0	12.0	32.0	8.5	7.7	7.6	a/5.8	184.0	7.1	7.6
2	8.2	10	5.3	18	11	140	11	7.3	7.1	a/5.2	207	7.2	7.8
3	7.6	8.7	5.3	27	12	18	11	7.0	5.5	a/5.0	26	7.2	7.6
4	7.1	7.6	5.4	21	12	13	9.0	7.0	5.2	a/4.8	12	6.8	7.6
5	6.7	7.5	7.6	17	19	44	9.2	13	4.9	a/4.4	8.9	6.8	7.7
6	6.5	7.8	7.8	129	20	125	9.3	7.3	5.0	a/5.4	7.7	7.3	7.7
7	6.3	7.3	9.3	91	71	21	9.3	6.7	5.0	a/5.0	7.6	7.3	7.4
8	6.1	8.2	6.8	25	37	16	16	6.5	4.8	a/4.8	7.4	8.3	15
9	7.0	8.3	5.9	18	23	18	35	5.9	4.7	a/4.7	6.8	8.4	9.4
10	6.4	9.0	5.7	15	16	21	12	5.6	4.7	a/4.5	7.0	7.2	9.9
11	6.0	7.7	5.6	14	14	14	11	5.3	4.7	a/4.4	7.4	7.0	13
12	5.8	9.7	5.5	13	12	13	13	5.0	4.9	a/4.3	7.6	7.0	132
13	5.8	11	5.4	12	11	11	12	5.1	4.8	a/4.5	7.4	7.0	63
14	5.8	8.7	5.4	12	11	11	11	5.1	4.8	4.5	7.2	6.9	23
15	5.8	8.8	5.4	14	21	14	11	5.1	5.1	4.2	7.0	7.2	17
16	5.7	8.2	5.3	18	13	11	38	13	5.5	26	6.8	114	14
17	5.7	7.3	9.5	12	12	9.9	23	8.6	9.2	6.5	6.7	17	12
18	5.5	6.8	9.3	14	11	9.7	13	6.6	10	5.1	27	11	11
19	5.4	6.5	12	13	10	9.6	12	6.2	34	4.8	102	9.2	10
20	5.4	6.4	15	13	9.6	9.7	13	5.9	7.0	5.1	14	8.8	9.6
21	5.4	6.1	118	14	9.3	9.6	22	5.8	6.1	6.9	9.6	8.0	9.2
22	5.5	6.1	72	18	9.0	9.5	18	5.5	5.7	54	8.3	13	8.4
23	5.5	6.1	25	69	8.7	15	12	5.3	5.5	9.7	7.7	31	8.1
24	5.5	5.9	19	188	8.5	11	20	5.1	6.9	7.1	7.8	11	8.1
25	5.3	5.8	15	28	8.2	9.8	11	5.0	5.9	35	7.5	9.8	8.3
26	5.1	5.8	22	18	8.0	9.5	10	5.2	6.7	83	7.5	8.9	8.4
27	5.0	5.8	95	16	8.9	9.2	9.6	5.5	10	11	7.3	8.2	8.3
28	5.4	5.5	202	13	8.5	9.0	9.0	5.0	6.3	8.1	7.2	7.9	8.3
29	5.4	5.6	---	12	9.5	8.8	8.4	4.8	6.2	7.2	7.5	7.5	8.5
30	5.3	5.6	---	13	10	8.8	7.9	4.6	6.7	21	7.4	7.4	9.3
31	11	5.5	---	13	---	8.8	---	10	5.9	---	7.5	---	24
Total	192.2	242.3	710.9	929	446.2	669.9	415.2	201.7	216.4	362.0	752.8	381.4	501.2
Mean	6.20	7.82	25.4	30.0	14.9	21.6	13.8	6.51	6.98	12.1	24.3	12.7	16.2
max	11	23	202	188	71	140	38	13	34	83	207	114	132
min	5.0	5.5	5.3	12	8.0	8.8	7.9	4.6	4.7	4.2	6.7	6.8	7.4
cfsm	.54	.68	2.21	2.61	1.29	1.88	1.20	.57	.61	1.05	2.11	1.11	1.41
in.	.62	.78	2.30	3.01	1.44	2.17	1.34	.65	.70	1.17	2.44	1.23	1.62

a/Estimated.

Table 10E.--*Hydrologic data and record summaries for the stream water-quality sampling site, East Fork, Deep River near High Point, North Carolina*

STATION NUMBER AND NAME.--02099000 East Fork, Deep River near High Point, N.C.

LOCATION.--Lat 36°02'15", long 79°56'46", Guilford County, Hydrologic Unit 03030003, on right bank at upstream side of bridge on Secondary Road 1541 (West Wendover Avenue), 3.3 mi above High Point Lake and 5.2 mi northeast of High Point.

SITE CODE.--5 (fig. 1).

DRAINAGE AREA.--14.8 mi^2.

PERIOD OF RECORD.--July 1928 to current year.

REVISED RECORDS.--WSP 1723: 1929(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 764.02 ft above sea level. Intake pipe extended to downstream side of bridge since March 1, 1934.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Slight diurnal fluctuation at low flow during growing season. Maximum discharge, 6,300 ft^3/s, gage height, 10.87 ft, from floodmark, from rating curve extended above 1,600 ft^3/s on basis of contracted-opening measurement of peak flow. Minimum discharge, 0.6 ft^3/s, result of temporary regulation. Minimum unregulated, 1.0 ft^3/s, August 8, 1977.

Table 10E.--*Hydrologic data and record summaries for the stream water-quality sampling site, East Fork, Deep River near High Point, North Carolina*--Continued

[Daily mean discharge values, in cubic feet per second, for October 1988 through September 1989; ---, no data]

	1988			1989											
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.6	80	10	69	5.7	45	11	169	6.0	13	9.1	5.3	464	8.5	9.7
2	6.2	11	8.5	19	5.5	22	9.8	524	18	13	6.9	5.0	240	7.9	9.3
3	31	7.5	8.0	12	5.5	66	12	60	11	12	5.2	4.6	39	8.1	8.9
4	53	6.7	7.0	9.2	5.4	37	11	24	7.1	12	5.2	4.4	19	7.2	8.8
5	9.1	10	6.4	8.1	14	26	45	64	8.9	13	6.6	5.6	13	8.6	8.7
6	6.3	7.2	6.1	9.0	12	420	39	150	13	8.4	4.8	5.0	10	10	8.6
7	5.8	5.8	5.9	8.0	27	97	116	52	9.3	6.9	5.2	4.8	9.0	8.7	8.3
8	5.3	5.1	5.7	9.5	12	30	65	29	18	6.2	5.7	4.5	7.9	10	35
9	4.6	4.9	8.1	13	8.8	19	36	30	54	5.7	5.7	4.6	7.6	9.3	20
10	4.3	4.7	6.5	13	8.0	15	20	35	15	5.4	4.5	4.2	9.3	7.4	27
11	4.5	5.6	5.8	9.3	7.5	13	16	17	8.2	5.2	4.0	4.2	8.3	7.0	39
12	3.9	4.3	5.3	18	6.9	12	13	13	25	5.0	4.1	4.5	7.0	6.8	257
13	3.7	4.3	5.2	21	6.5	11	12	11	31	4.8	4.0	4.2	6.5	6.8	111
14	3.8	4.2	5.2	12	6.3	11	11	10	13	5.2	3.9	4.0	6.5	6.9	41
15	3.9	4.2	5.2	16	6.2	11	46	18	9.9	4.4	4.2	3.8	6.3	9.0	25
16	3.9	4.3	5.3	12	6.3	20	21	13	34	56	6.4	55	6.2	120	22
17	3.9	21	5.2	9.6	26	11	14	9.6	51	24	5.0	9.3	6.4	23	15
18	3.9	7.5	4.8	9.0	25	16	14	8.5	14	9.3	16	5.7	61	14	14
19	4.9	6.2	4.8	7.8	37	12	15	7.9	9.0	6.5	74	5.3	189	11	13
20	3.9	6.0	4.8	7.6	60	13	8.8	7.7	8.8	6.0	9.5	11	27	10	13
21	33	5.4	5.0	7.2	247	20	8.3	7.9	48	9.5	5.8	16	14	9.4	12
22	9.8	4.8	5.3	6.5	128	28	7.9	7.4	58	9.7	5.2	96	11	32	9.9
23	6.1	4.8	5.0	6.5	44	188	7.6	24	21	5.7	8.5	18	9.5	62	8.8
24	5.6	4.7	5.0	6.3	33	313	7.6	13	50	4.8	9.6	8.0	8.9	18	8.7
25	5.3	4.5	4.9	6.2	24	40	7.6	8.5	31	4.6	6.5	104	8.2	13	8.7
26	4.8	4.6	4.8	6.0	41	21	7.8	7.3	18	4.4	6.1	91	7.7	12	9.1
27	4.2	134	4.8	6.2	155	15	12	6.7	16	4.6	18	18	7.5	11	8.8
28	4.1	214	5.9	6.0	282	13	8.7	6.6	15	4.6	7.1	9.5	7.4	10	8.8
29	4.0	24	6.0	6.0	---	12	9.3	6.4	15	4.1	15	7.8	7.1	9.7	11
30	3.9	13	7.5	6.0	---	21	8.9	6.4	14	4.2	14	63	7.2	9.1	9.9
31	13	---	22	6.0	---	16	---	6.3	---	28	6.5	---	8.8	---	51
Total	263.3	624.3	200.0	361.0	1,245.6	1,594	621.3	1,353.2	650.2	306.2	292.3	586.3	1,240.3	486.4	841.0
Mean	8.49	20.8	6.45	11.6	44.5	51.4	20.7	43.7	21.7	9.88	9.43	19.5	40.0	16.2	27.1
max	53	214	22	69	282	420	116	524	58	56	74	104	464	120	257
min	3.6	4.2	4.8	6.0	5.4	11	7.6	6.3	6.0	4.1	3.9	3.8	6.2	6.8	8.3
cfsm	.57	1.41	.44	.79	3.01	3.47	1.40	2.95	1.46	.67	.64	1.32	2.70	1.10	1.83
in.	.66	1.57	.50	.91	3.13	4.01	1.56	3.40	1.63	.77	.73	1.47	3.12	1.22	2.11

Table 10F.--*Hydrologic data and record summaries for the stream water-quality sampling site, Long Branch near Deep River, North Carolina*

STATION NUMBER AND NAME.--0209900700 Long Branch near Deep River, N.C.

LOCATION.--Lat 36°02 28", long 79°56 16", Guilford County, Hydrologic Unit 03030003, on upstream side of bridge on Secondary Road 1541 (West Wendover Road), 1.1 mi above mouth and 1.7 mi northeast of Deep River.

SITE CODE.--6 (fig. 1).

DRAINAGE AREA.--2.21 mi^2.

PERIOD OF RECORD.--Miscellaneous records: October 1961, September 1962, September 1966 (3 measurements); April 1974-April 1975 (5 measurements); December 1988-February 1990 (19 measurements).

GAGE.--None.

REMARKS.--Reference point: Chiseled point on upstream side of bridge over left culvert.

Miscellaneous benchmark and discharge measurements

Date	Discharge (ft^3/s)	Distance from reference point (ft)
12-14-88	0.52	10.44
1-20-89	.76	10.37
2-21-89	70.	9.25
2-28-89	30.6	9.74
3-03-89	15.8	9.97
3-03-89	14.5	10.01
4-06-89	4.29	10.35
4-07-89	2.74	10.4
4-12-89	1.65	10.41
5-17-89	1.19	10.47
5-23-89	1.52	10.44
6-09-89	12.2	10.25
6-21-89	11.5	10.18
7-12-89	.163	10.48
8-02-89	1.42	10.46
9-13-89	.15	10.48
10-31-89	1.07	10.46
1-25-90	17.2	10.00
2-23-90	9.54	10.19

Table 10G.--*Hydrologic data and record summaries for the stream water-quality sampling site, East Fork, Deep River at Friendship, North Carolina*

STATION NUMBER AND NAME.--0209883355 East Fork, Deep River at Friendship, N.C.

LOCATION.--Lat 36°04'42", long 79°57'24", Guilford County, Hydrologic Unit 03030003, on downstream side of bridge on Secondary Road 1681 (Albert Pick Road) and 0.9 mi south of Friendship.

SITE CODE.--7 (fig. 1).

DRAINAGE AREA.--4.30 mi^2.

PERIOD OF RECORD.--Miscellaneous records: None prior to December 1988; December 1988 to November 1989 (6 measurements).

GAGE.--None.

REMARKS.--Reference point: Chiseled point on downstream side of bridge on top of right culvert.

Miscellaneous benchmark and discharge measurements

Date	Discharge (ft^3/s)	Distance from reference point (ft)
12-13-88	2.70	9.94
1-19-89	2.68	9.84
5-17-89	3.94	10.19
7-12-89	2.33	10.31
9-13-89	1.78	10.37
11-01-89	2.98	10.24

Table 10H.--*Hydrologic data and record summaries for the stream water-quality sampling site, Long Branch near Guilford, North Carolina*
[--, no data]

STATION NUMBER AND NAME.--0209900694 Long Branch near Guilford, N.C.

LOCATION.--Lat 36°03 16", long 79°55 40", Guilford County, Hydrologic Unit 03030003, in quarry at a rock dam, below Secondary Road 1599 (Marietta Drive) and 2.3 mi southwest of Guilford.

SITE CODE.--8 (fig. 1).

DRAINAGE AREA.--1.35 mi^2.

PERIOD OF RECORD.--Miscellaneous records: None prior to December 1988; December 1988; May 1989; November 1989.

GAGE.--None.

REMARKS.--Stream measured 50 ft below rock dam during sampling.

Miscellaneous benchmark and discharge measurements

Date	Discharge (ft^3/s)	Distance from reference point (ft)
12-14-89	0.466	--
5-17-89	8.14	--
11-01-89	.811	--

Table 10I.--*Hydrologic data and record summaries for the stream water-quality sampling site, East Fork, Deep River tributary near Friendship, North Carolina*

STATION NUMBER AND NAME.--0209883560 East Fork, Deep River tributary near Friendship, N.C.

LOCATION.--Lat 36°03'48", long 79°56'30", Guilford County, Hydrologic Unit 03030003, on upstream side of bridge on Secondary Road 1554 (Chimney Rock Road) and 2.1 mi south of Friendship.

SITE CODE.--9 (fig. 1).

DRAINAGE AREA.--1.14 mi^2.

PERIOD OF RECORD.--Miscellaneous records: None prior to December 1988; December 1988 (2 measurements); May 1989; November 1989.

GAGE.--None.

REMARKS.--Reference point: Chiseled square on upstream side of culvert in center of bridge; painted yellow.

Miscellaneous benchmark and discharge measurements

Date	Discharge (ft^3/s)	Distance from reference point (ft)
12-15-88	2.47	[a/] 14.95
12-16-88	.50	6.18
5-17-89	.70	5.91
11-01-89	.523	5.90

[a/] Different reference point.

Table 10J.--*Hydrologic data and record summaries for the stream water-quality sampling site, West Fork, Deep River near Colfax, North Carolina*

STATION NUMBER AND NAME.--0209831250 West Fork, Deep River near Colfax, N.C.

LOCATION.--Lat 36°04'58", long 80°01'18", Guilford County, Hydrologic Unit 03030003, on downstream side of bridge on Secondary Road 1859 (Bolyston Road) and 2.1 mi south of Colfax.

SITE CODE.--10 (fig. 1).

DRAINAGE AREA.--4.31 mi^2.

PERIOD OF RECORD.--Miscellaneous records: December 1988, May 1989, November 1989 (3 measurements).

GAGE.--None.

REMARKS.--Reference point: 16 ft from right side of bridge on downstream side; nail in top of handrail.

Miscellaneous benchmark and discharge measurements

Date	Discharge (ft^3/s)	Distance from reference point (ft)
12-13-88	2.1	11.84
5-16-89	3.59	11.83
11-01-89	2.13	11.87

Table 11.--*Index of nutrients and major ions analyzed in routine stream water-quality samples collected at steady stages and in event water-quality samples collected at unsteady, high stages in the High Point Lake watershed*

[Analyses in this table include tests for the following nutrients and major ions arranged numerically in tables 11A and 11B by WATSTORE code; ---, no analyses performed]

Constituent	WATSTORE codes Total	Dissolved
Alkalinity as $CaCO_3$	00410	39086
Air temperature	00020	---
Aluminum	01105	01106
Ammonia nitrogen as N	00610	00608
Ammonia nitrogen as NH_4	71845	---
Ammonia plus organic nitrogen as N	00625	---
Barometric pressure	00025	---
Bicarbonate as HCO_3	---	00453
Bromide	---	71870
Calcium	---	00915
Chemical oxygen demand (COD)	00340	---
Chloride	---	00940
Color	00080	---
Discharge, instantaneous	00061	---
Dissolved oxygen	00300	---
Drainage area	81024	---
Fluoride	---	00950
Gage height	00065	---
Hardness as $CaCO_3$	00900	---
Hardness, noncarbonate as $CaCO_3$	---	00904
Iron	---	01046
Magnesium	---	00925
Manganese	---	01056
Nitrate nitrogen as N	00620	00618
Nitrite nitrogen as N	00615	---
Nitrite plus nitrate nitrogen as N	00630	00631
Nitrogen as N	00600	---
Nitrogen as NO_3	71887	---
Organic nitrogen as N	00605	---
Orthophosphate as PO_4	---	00660
Orthophosphorus as P	70507	00671
pH, field	00400	---
Phosphate as PO_4	00650	---
Phosphorus as P	00665	00666
Potassium	---	00935
Silica	---	00955
Sodium	---	00930
Specific conductance, field	00095	---
Sulfate	---	00945
Suspended sediment	80154	---
Total organic carbon	00680	---
Turbidity	00076	---
Water temperature	00010	---

Table 11A.--*Results of analyses of nutrients and major ions in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRESSURE (MM OF HG) (00025)	DISCHARGE INST. (CUBIC FEET PER SECOND) (00061)	GAGE HEIGHT (FEET) (00065)	TURBIDITY (NTU) (00076)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	SPECIFIC CONDUC-TANCE (US/CM) (00095)	OXYGEN, DIS-SOLVED (MG/L) (00300)
Site 1	12-13-88	1145	6.0	1.0	737	--	--	14	50	91	11.6
	01-20-89	1000	5.5	--	740	--	--	14	55	107	11.7
	05-18-89	1030	17.5	26.0	745	--	--	29	100	84	7.4
	08-04-89	0900	27.5	--	739	--	--	4.1	35	103	4.9
Site 2	12-15-88	1300	9.0	7.0	742	0.60	13.53	3.8	32	245	9.8
	12-15-88	1330	--	--	--	--	--	4.6	33	--	--
	01-20-89	1200	6.5	--	740	0.77	13.10	3.1	--	249	14.0
	05-18-89	0900	15.0	--	745	0.86	--	2.3	18	236	8.9
	07-12-89	0940	24.5	31.0	744	1.0	13.47	1.5	25	210	6.9
	09-13-89	1100	23.5	30.0	746	1.0	13.54	1.3	2	200	8.0
	10-30-89	1400	18.5	27.5	740	0.70	13.52	--	17	248	9.8
Site 3	12-15-88	1200	6.5	7.0	741	70	2.34	6.7	28	87	11.2
	01-20-89	1300	7.0	--	737	0.52	1.15	6.0	25	95	12.1
	05-19-89	0900	20.0	--	746	15	1.74	21	100	81	8.9
	07-12-89	0850	29.0	31.0	740	4.1	1.46	2.2	20	102	5.0
	09-13-89	1300	27.0	31.0	747	6.6	1.58	1.3	< 1	84	7.0
	10-30-89	1010	21.0	26.5	742	12	1.75	--	25	72	8.7
Site 4	12-13-88	1345	2.5	4.0	737	5.5	2.12	7.4	24	75	11.6
	01-20-89	0810	5.0	--	740	7.1	2.24	8.5	32	78	11.4
	01-20-89	0820	--	--	--	7.1	2.24	8.4	28	--	--
	05-16-89	1400	15.0	--	737	10	2.43	23	10	76	9.2
	05-19-89	1015	14.5	--	746	9.6	2.33	16	55	78	8.9
	07-12-89	0830	20.5	31.0	737	5.8	2.15	9.2	42	91	8.2
	09-13-89	0830	20.5	28.0	746	4.5	2.07	12	18	90	7.7
	10-31-89	1400	21.0	26.0	739	7.4	2.32	--	45	85	9.0
Site 5	12-15-88	1015	3.0	--	743	6.3	0.45	5.2	17	122	12.6
	01-20-89	1345	6.5	--	737	5.0	0.40	--	35	136	12.8
	05-18-89	1215	16.0	--	746	9.8	0.56	6.0	40	122	9.9
	05-18-89	1230	--	--	--	9.8	0.56	8.0	35	--	--
	07-12-89	1130	24.0	33.0	745	5.4	0.43	4.8	38	145	7.9
	09-13-89	1230	23.5	30.0	741	5.0	0.40	2.8	10	123	8.9
	10-31-89	0845	18.0	23.0	738	6.9	0.49	--	20	125	9.9

Table 11A.--*Results of analyses of nutrients and major ions in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRESSURE (MM OF HG) (00025)	DISCHARGE INST. (CUBIC FEET PER SECOND) (00061)	GAGE HEIGHT (FEET) (00065)	TURBIDITY (NTU) (00076)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	SPECIFIC CONDUC-TANCE (US/CM) (00095)	OXYGEN, DIS-SOLVED (MG/L) (00300)
Site 6	12-14-88	1430	3.5	--	740	0.52	10.44	5.6	13	270	11.7
	01-20-89	1420	7.0	--	737	0.76	10.44	5.2	23	173	14.8
	05-17-89	1200	15.0	--	740	0.76	10.45	2.5	25	162	8.9
	07-12-89	1330	25.0	33.0	734	0.16	10.48	2.3	33	182	6.2
	07-12-89	1400	--	--	--	0.16	10.48	2.8	28	--	--
	09-13-89	1030	23.0	29.0	741	0.15	10.48	2.4	15	190	8.6
	10-31-89	1105	21.0	26.0	740	1.1	10.47	--	18	160	9.1
Site 7	12-14-88	1200	5.5	--	740	2.7	10.02	3.1	11	122	10.5
	01-20-89	1500	9.0	--	737	2.7	9.85	4.1	--	118	11.0
	05-19-89	1045	15.0	--	746	3.9	10.31	4.9	25	114	9.3
	07-12-89	1100	20.5	33.0	738	2.3	10.30	2.9	20	110	9.0
	09-13-89	0745	24.0	23.0	740	1.8	10.37	3.0	10	93	8.8
	11-01-89	0900	15.0	20.0	742	3.0	10.24	--	15	110	10.2
Site 8	12-14-88	1030	3.0	--	740	0.47	--	6.9	13	147	12.0
	05-17-89	1030	15.5	23.5	739	8.1	--	10	35	210	8.3
	11-01-89	1215	20.0	19.0	740	0.81	--	--	--	105	8.9
Site 9	12-14-88	0930	2.0	3.5	742	0.50	6.23	31	110	298	11.1
	01-19-89	1740	6.0	--	740	0.50	5.82	--	--	138	9.6
	05-17-89	0830	17.0	18.0	739	0.70	5.91	17	50	93	--
	11-01-89	1045	19.0	20.0	741	0.52	5.90	--	--	97	9.3
Site 10	12-13-88	1500	3.0	5.5	733	2.1	11.86	9.0	28	78	11.0
	01-19-89	1715	8.0	--	742	2.1	11.84	--	--	82	9.8
	05-17-89	1330	16.0	24.5	739	2.1	11.87	14	50	75	8.6
	11-01-89	1407	16.0	20.0	740	2.1	11.87	--	--	87	8.8

Table 11A.--*Results of analyses of nutrients and major ions in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	OXYGEN, DISSOLVED (PERCENT SATURATION (00301)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	PH (STANDARD UNITS) (00400)	ALKALINITY WAT WH TOT FET FIELD (MG/L AS CACO3) (00410)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
Site 1	12-13-88	96	--	7.1	101	124	0.70	0.49	0.110	<0.010	0.180
	01-20-89	96	25	7.2	34	44	0.70	0.43	0.070	<0.010	--
	05-18-89	79	29	7.0	31	37	0.50	0.23	0.070	0.020	0.200
	08-04-89	64	--	7.2	30	37	--	--	0.020	<0.010	0.030
Site 2	12-15-88	87	--	7.3	81	98	2.3	0.87	0.830	0.020	--
	12-15-88	--	--	--	--	--	--	--	<0.010	<0.010	--
	01-20-89	117	--	7.6	70	85	--	--	--	--	--
	05-18-89	90	24	7.5	78	95	--	--	0.090	0.030	--
	07-12-89	85	20	6.9	55	71	0.60	0.33	0.070	<0.010	--
	09-13-89	97	26	7.1	53	66	--	0.34	0.060	0.010	--
	10-30-89	108	17	7.4	80	98	--	--	0.010	<0.010	--
Site 3	12-15-88	94	--	7.3	39	49	0.60	0.40	0.100	0.010	0.150
	01-20-89	103	24	7.3	33	39	0.50	0.25	0.050	<0.010	--
	05-19-89	100	23	7.3	33	39	0.90	0.66	0.040	0.010	0.150
	07-12-89	67	23	6.6	20	24	--	0.32	0.080	<0.010	0.040
	09-13-89	90	15	7.0	33	41	0.70	0.36	0.040	0.050	0.040
	10-30-89	100	26	6.7	24	29	--	0.43	0.070	<0.010	0.070
Site 4	12-13-88	88	--	6.5	23	29	0.80	0.37	0.030	<0.010	0.430
	01-20-89	92	16	7.3	25	29	--	--	0.050	<0.010	0.430
	01-20-89	--	15	--	--	--	--	--	0.040	<0.010	0.420
	05-16-89	94	14	7.0	26	29	0.70	0.36	0.040	<0.010	0.020
	05-19-89	89	--	7.1	13	15	--	--	--	--	0.490
	07-12-89	94	15	6.8	24	29	0.70	0.27	0.030	<0.010	0.450
	09-13-89	88	11	6.6	30	37	0.70	0.37	0.030	0.010	0.220
	10-31-89	104	11	6.7	32	37	0.50	--	<0.010	<0.010	<0.010
Site 5	12-15-88	96	--	7.4	49	61	--	--	<0.010	0.010	--
	01-20-89	108	17	7.6	49	61	0.50	0.17	0.030	<0.010	--
	05-18-89	102	20	7.5	41	49	0.70	0.39	0.010	<0.010	--
	05-18-89	--	15	--	--	--	--	--	0.010	<0.010	--
	07-12-89	96	17	7.2	58	73	0.50	0.17	0.030	0.010	0.300
	09-13-89	108	<10	7.5	50	59	--	--	<0.010	<0.010	--
	10-31-89	108	12	7.5	54	66	--	--	0.010	<0.010	--

Table 11A.--*Results of analyses of nutrients and major ions in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	PH (STANDARD) UNITS) (00400)	ALKALINITY WAT WH TOT FET FIELD (MG/L AS CACO3) (00410)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN-AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN-NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
Site 6	12-14-88	91	--	7.6	101	124	3.2	0.53	0.270	0.040	--
	01-20-89	126	18	8.0	55	68	0.60	0.29	0.010	<0.010	--
	05-17-89	91	21	7.3	53	63	--	--	0.010	<0.010	--
	07-12-89	78	20	7.3	59	73	1.4	0.51	0.090	0.050	0.720
	07-12-89	--	19	--	--	--	1.4	0.52	0.080	0.040	0.730
	09-13-89	103	< 10	7.4	76	93	1.0	0.29	0.010	0.020	--
	10-31-89	105	17	7.1	71	88	--	--	<0.010	<0.010	--
Site 7	12-14-88	86	--	7.1	33	41	0.70	0.29	0.010	<0.010	--
	01-20-89	98	--	7.3	47	56	--	--	0.020	<0.010	--
	05-19-89	94	< 10	7.3	42	49	0.70	0.28	0.020	<0.010	--
	07-12-89	103	14	6.8	35	44	0.60	0.28	0.020	<0.010	--
	09-13-89	108	17	7.3	37	44	--	--	<0.010	<0.010	--
	11-01-89	104	10	6.8	28	32	--	--	<0.010	<0.010	--
Site 8	12-14-88	92	--	7.4	88	110	3.5	0.48	0.420	0.040	--
	05-17-89	86	18	7.6	71	88	1.3	0.25	0.050	0.020	--
	11-01-89	101	--	7.2	90	112	2.0	0.38	0.020	0.020	--
Site 9	12-14-88	82	--	7.7	45	56	0.90	0.67	0.130	0.010	--
	01-19-89	79	--	7.4	--	--	--	--	--	--	--
	05-17-89	--	29	7.1	37	44	--	0.46	0.040	0.010	0.070
	11-01-89	103	--	7.0	41	51	--	0.43	0.070	0.030	--
Site 10	12-13-88	85	--	7.6	29	34	0.70	0.26	0.040	<0.010	0.520
	01-19-89	85	--	7.3	--	--	--	--	--	--	--
	05-17-89	90	14	7.1	29	34	0.70	0.26	0.040	<0.010	0.020
	11-01-89	92	--	6.7	28	34	0.70	0.27	0.030	0.020	--

Table 11A.--*Results of analyses of nutrients and major ions in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHATE, TOTAL (MG/L AS PO4) (00650)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
Site 1	12-13-88	--	0.60	0.100	--	0.03	--	0.040	<0.010	6.1	32
	01-20-89	--	0.50	0.200	0.230	0.06	--	0.030	--	6.2	38
	05-18-89	0.180	0.30	0.200	--	0.06	--	0.050	<0.010	5.8	--
	08-04-89	--	<0.20	<0.100	--	0.09	--	0.030	<0.010	5.5	36
Site 2	12-15-88	0.580	1.7	0.600	0.360	0.34	0.06	0.170	0.020	5.2	89
	12-15-88	--	<0.20	<0.100	--	--	--	<0.010	--	5.4	88
	01-20-89	--	--	--	0.560	--	--	--	--	--	95
	05-18-89	0.570	<0.20	0.600	--	0.03	--	0.030	--	2.7	--
	07-12-89	--	0.40	0.200	0.190	0.09	0.09	0.040	0.030	3.2	65
	09-13-89	--	0.40	<0.100	0.260	0.03	--	0.030	--	3.0	60
	10-30-89	--	<0.20	0.400	0.380	0.06	--	0.030	--	2.2	97
Site 3	12-15-88	0.090	0.50	0.100	--	0.12	--	0.060	<0.010	5.7	30
	01-20-89	--	0.30	0.200	0.200	--	--	0.020	--	5.2	36
	05-19-89	0.190	0.70	0.200	--	0.03	--	0.040	<0.010	6.7	23
	07-12-89	--	0.40	<0.100	--	0.03	--	0.030	<0.010	5.1	27
	09-13-89	0.250	0.40	0.300	--	0.09	--	0.060	<0.010	4.5	23
	10-30-89	--	0.50	<0.100	--	0.06	--	0.020	<0.010	5.8	25
Site 4	12-13-88	--	0.40	0.400	--	0.06	--	0.020	<0.010	1.9	23
	01-20-89	--	<0.20	0.400	--	0.03	--	0.020	<0.010	3.2	24
	01-20-89	--	<0.20	0.400	--	0.03	--	0.020	<0.010	1.9	23
	05-16-89	--	0.40	0.300	--	0.09	--	0.040	<0.010	2.6	23
	05-19-89	--	--	--	--	--	--	--	<0.010	--	23
	07-12-89	--	0.30	0.400	--	0.06	--	0.030	<0.010	1.9	24
	09-13-89	0.290	0.40	0.300	--	0.06	--	0.040	<0.010	2.5	25
	10-31-89	--	0.30	0.200	--	0.06	--	0.020	<0.010	2.0	26
Site 5	12-15-88	0.390	<0.20	0.400	--	0.21	--	0.070	--	2.3	51
	01-20-89	--	0.20	0.300	0.340	0.15	--	0.060	--	3.0	--
	05-18-89	--	<0.40	0.300	--	0.06	--	0.040	--	2.5	--
	05-18-89	--	<0.20	0.300	--	0.06	--	0.040	--	2.6	--
	07-12-89	0.290	0.20	0.300	0.310	0.09	0.09	0.050	0.030	2.3	53
	09-13-89	--	<0.20	0.300	0.250	0.18	--	0.090	--	2.3	52
	10-31-89	--	<0.20	0.200	<0.100	0.12	--	0.050	--	2.3	53

Table 11A.--*Results of analyses of nutrients and major ions in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHATE, TOTAL (MG/L AS PO4) (00650)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
Site 6	12-14-88	2.36	0.80	2.40	--	--	--	0.020	--	2.5	100
	01-20-89	--	0.30	0.300	0.360	--	--	0.020	--	3.2	68
	05-17-89	--	<0.20	0.600	--	--	--	0.020	--	2.8	66
	07-12-89	0.750	0.60	0.800	0.770	0.15	0.15	0.080	0.050	3.6	65
	07-12-89	0.760	0.60	0.800	0.770	0.15	0.15	0.080	0.050	3.6	65
	09-13-89	0.680	0.30	0.700	0.610	0.03	--	0.020	--	2.3	72
	10-31-89	--	<0.20	0.300	0.360	--	--	0.010	--	2.4	70
Site 7	12-14-88	--	0.30	0.400	--	0.03	--	0.020	--	1.4	38
	01-20-89	--	<0.20	0.400	0.380	0.03	--	0.020	--	2.0	39
	05-19-89	--	0.30	0.400	--	0.06	--	0.020	--	1.1	38
	07-12-89	--	0.30	0.300	0.320	0.06	0.06	0.030	0.020	1.4	36
	09-13-89	--	<0.20	0.400	0.330	0.06	--	0.040	--	1.6	35
	11-01-89	--	<0.20	0.200	0.260	0.09	--	0.030	--	2.4	39
Site 8	12-14-88	2.56	0.90	2.60	--	--	--	0.020	--	2.8	110
	05-17-89	0.980	0.30	1.00	--	--	--	0.020	--	2.9	84
	11-01-89	1.58	0.40	1.60	--	0.06	--	0.020	--	3.3	--
Site 9	12-14-88	0.090	0.80	0.100	--	0.06	--	0.050	--	7.5	46
	01-19-89	--	--	--	--	--	--	--	--	--	--
	05-17-89	--	0.50	<0.100	--	0.06	--	0.060	<0.010	6.6	37
	11-01-89	--	0.50	<0.100	--	0.28	--	0.060	--	6.0	--
Site 10	12-13-88	--	0.30	0.400	--	0.03	--	0.020	<0.010	2.3	25
	01-19-89	--	--	--	--	--	--	--	--	--	--
	05-17-89	--	0.30	0.400	--	0.03	--	0.030	<0.010	1.9	24
	11-01-89	0.380	0.30	0.400	--	0.25	--	0.090	--	3.2	--

Table 11A.--*Results of analyses of nutrients and major ions in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
Site 1	12-13-88	0	7.8	3.0	5.5	2.8	6.2	7.5	0.20	10	250
	01-20-89	2	9.3	3.7	6.0	2.5	6.7	13	0.10	12	390
	05-18-89	--	--	--	--	--	4.9	7.3	0.13	--	--
	08-04-89	6	9.0	3.3	5.5	2.9	5.3	5.6	0.21	11	41
Site 2	12-15-88	8	21	8.8	15	2.8	14	24	0.30	23	800
	12-15-88	--	21	8.7	14	2.8	14	24	0.30	22	790
	01-20-89	26	22	9.8	14	2.1	14	24	0.30	20	240
	05-18-89	--	--	--	--	--	14	22	0.20	--	--
	07-12-89	7	16	6.1	15	2.6	13	16	0.40	18	110
	09-13-89	6	15	5.4	16	2.7	12	17	0.70	16	130
	10-30-89	17	23	9.6	14	2.4	17	20	0.20	24	120
Site 3	12-15-88	0	7.2	2.8	5.4	2.6	5.8	6.5	0.12	9.8	150
	01-20-89	4	9.2	3.1	6.4	2.3	6.0	9.7	0.10	11	140
	05-19-89	0	5.5	2.2	4.4	1.9	4.8	6.7	0.15	7.3	180
	07-12-89	7	6.4	2.6	5.2	2.3	5.0	5.9	0.17	8.7	33
	09-13-89	0	5.3	2.4	4.6	2.5	4.7	5.0	0.17	8.8	19
	10-30-89	1	6.1	2.4	4.2	2.8	4.4	5.0	0.16	9.8	98
Site 4	12-13-88	0	6.1	2.0	5.5	1.7	4.4	3.7	0.12	23	540
	01-20-89	0	6.1	2.1	5.6	1.6	4.2	5.6	0.15	22	340
	01-20-89	--	6.1	2.0	5.6	1.6	4.2	5.8	0.14	22	250
	05-16-89	0	6.1	1.9	4.9	1.6	4.0	4.3	0.15	19	470
	05-19-89	10	5.8	2.0	5.4	1.5	4.3	3.6	0.13	21	340
	07-12-89	0	6.1	2.1	6.2	2.1	4.4	2.5	0.18	24	330
	09-13-89	0	6.9	2.0	5.5	2.4	3.7	2.6	0.17	24	400
	10-31-89	0	6.8	2.3	5.4	2.2	3.8	2.7	0.18	22	370
Site 5	12-15-88	1	12	5.0	6.7	1.8	5.9	7.7	0.10	27	220
	01-20-89	--	--	--	--	1.3	6.7	10	0.60	--	--
	05-18-89	--	--	--	--	--	5.7	6.0	0.10	--	--
	05-18-89	--	--	--	--	--	5.5	6.0	0.10	--	--
	07-12-89	0	13	5.0	7.2	2.2	6.1	4.0	0.20	27	140
	09-13-89	3	13	4.7	6.7	2.2	5.4	4.0	0.20	27	160
	10-31-89	0	13	4.9	6.6	2.2	5.3	5.0	0.10	25	140

Table 11A.--*Results of analyses of nutrients and major ions in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
Site 6	12-14-88	0	29	7.0	12	5.3	9.1	28	0.10	15	43
	01-20-89	12	18	5.6	9.0	2.5	11	15	0.10	15	200
	05-17-89	14	18	5.0	7.8	2.5	8.5	13	0.10	16	180
	07-12-89	5	18	4.9	9.3	5.1	8.6	11	0.10	21	150
	07-12-89	--	18	4.9	9.6	5.0	8.7	12	0.10	21	150
	09-13-89	0	20	5.3	11	4.2	8.4	14	0.10	21	140
	10-31-89	0	19	5.5	8.4	3.4	8.5	13	0.10	19	78
Site 7	12-14-88	4	9.6	3.3	5.7	1.7	6.0	5.4	0.10	24	150
	01-20-89	0	10	3.5	6.1	1.7	6.4	6.9	0.10	23	220
	05-19-89	0	9.5	3.4	5.7	1.5	5.8	4.0	0.10	23	180
	07-12-89	0	9.2	3.2	6.6	1.8	6.0	3.0	0.20	25	150
	09-13-89	0	9.0	3.0	5.6	1.8	5.3	3.0	0.10	24	120
	11-01-89	13	10	3.4	6.0	2.1	6.8	5.0	0.10	24	230
Site 8	12-14-88	20	32	7.4	13	6.0	9.6	30	0.10	14	42
	05-17-89	12	24	5.9	8.9	3.4	11	16	0.20	13	220
	11-01-89	--	--	--	--	--	--	--	--	--	--
Site 9	12-14-88	0	11	4.5	6.6	2.1	6.2	17	0.10	16	500
	01-19-89	--	--	--	--	--	--	--	--	--	--
	05-17-89	1	9.4	3.4	5.3	1.3	3.8	5.9	0.24	12	370
	11-01-89	--	--	--	--	--	--	--	--	--	--
Site 10	12-13-88	0	6.5	2.1	5.9	1.9	5.6	4.4	0.19	23	520
	01-19-89	--	--	--	--	--	--	--	--	--	--
	05-17-89	0	6.2	2.0	6.0	1.7	5.5	4.2	0.19	20	450
	11-01-89	--	--	--	--	--	--	--	--	--	--

Table 11A.--*Results of analyses of nutrients and major ions in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4) (71845)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	SEDIMENT, SUSPENDED (MG/L) (80154)	DRAINAGE AREA (SQ. MI.) (81024)
Site 1	12-13-88	11	270	102	0.010	0.14	<0.010	3.1	7	64.6
	01-20-89	33	--	36	0.020	0.09	0.020	3.1	--	64.6
	05-18-89	--	730	30	0.020	0.09	0.010	2.2	--	64.6
	08-04-89	6	150	30	0.030	0.03	0.030	--	--	64.6
Site 2	12-15-88	400	50	80	0.110	1.1	0.056	10	3	2.15
	12-15-88	400	100	--	<0.010	--	0.050	--	2	2.15
	01-20-89	130	--	70	--	--	0.020	--	2	2.15
	05-18-89	--	80	78	0.010	0.12	0.040	--	8	2.15
	07-12-89	58	70	58	0.030	0.09	0.010	2.7	--	2.15
	09-13-89	44	--	54	0.010	0.08	0.010	--	--	2.15
	10-30-89	66	--	80	0.020	0.01	0.070	--	169	2.15
Site 3	12-15-88	3	230	40	0.040	0.13	<0.010	2.7	9	31.9
	01-20-89	88	--	32	<0.010	0.06	<0.010	2.2	7	31.9
	05-19-89	8	570	32	0.010	0.05	<0.010	4.0	15	31.9
	07-12-89	79	270	20	0.010	0.10	<0.010	--	--	31.9
	09-13-89	27	--	34	0.030	0.05	0.020	3.1	16	31.9
	10-30-89	17	--	24	0.020	0.09	<0.010	--	22	31.9
Site 4	12-13-88	170	150	24	0.020	0.04	<0.010	3.5	4	11.5
	01-20-89	120	--	24	0.010	0.06	<0.010	--	6	11.5
	01-20-89	120	--	--	0.010	0.05	<0.010	--	7	11.5
	05-16-89	58	730	24	0.030	0.05	<0.010	3.1	28	11.5
	05-19-89	78	370	12	--	--	0.030	--	--	11.5
	07-12-89	76	360	24	0.020	0.04	0.030	3.1	11	11.5
	09-13-89	99	--	30	0.020	0.04	<0.010	3.1	193	11.5
	10-31-89	120	--	30	0.020	--	0.66	2.2	182	11.5
Site 5	12-15-88	130	130	50	0.070	--	0.024	--	2	14.8
	01-20-89	--	--	50	0.050	0.04	0.010	2.2	8	14.8
	05-18-89	--	230	40	0.020	0.01	0.020	3.1	7	14.8
	05-18-89	--	210	--	0.020	0.01	<0.010	--	7	14.8
	07-12-89	53	150	60	0.030	0.04	<0.010	2.2	--	14.8
	09-13-89	53	--	48	0.060	--	0.010	--	14	14.8
	10-31-89	66	--	54	0.040	0.01	0.030	--	104	14.8

Table 11A.--*Results of analyses of nutrients and major ions in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4) (71845)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	DRAIN-AGE AREA (SQ. MI.) (81024)
Site 6	12-14-88	62	240	102	<0.010	0.35	<0.010	14	3	2.21
	01-20-89	62	--	56	<0.010	0.01	<0.010	2.7	3	2.21
	05-17-89	37	300	52	<0.010	0.01	0.030	--	12	2.21
	07-12-89	53	130	60	0.050	0.12	<0.010	6.2	2	2.21
	07-12-89	47	130	--	0.050	0.10	<0.010	6.2	4	2.21
	09-13-89	34	--	76	0.010	0.01	0.010	4.4	80	2.21
	10-31-89	18	--	72	<0.010	--	0.030	--	16	2.21
Site 7	12-14-88	140	90	34	0.010	0.01	0.014	3.1	2	4.30
	01-20-89	130	--	46	0.010	0.03	<0.010	--	6	4.30
	05-19-89	110	120	40	0.020	0.03	<0.010	3.1	7	4.30
	07-12-89	87	140	36	0.020	0.03	<0.010	2.7	4	4.30
	09-13-89	49	--	36	0.020	--	<0.010	--	123	4.30
	11-01-89	120	--	26	0.030	--	0.040	--	26	4.30
Site 8	12-14-88	92	410	90	<0.010	0.54	<0.010	15	6	1.35
	05-17-89	100	520	72	<0.010	0.06	<0.010	5.8	15	1.35
	11-01-89	--	--	92	0.020	0.03	--	8.9	43	1.35
Site 9	12-14-88	66	660	46	0.020	0.17	0.092	4.0	3	1.14
	01-19-89	--	--	--	--	--	--	--	--	1.14
	05-17-89	85	580	36	0.020	0.05	0.080	--	18	1.14
	11-01-89	--	--	42	0.090	0.09	--	--	82	1.14
Site 10	12-13-88	150	230	28	0.010	0.05	<0.010	3.1	4	4.31
	01-19-89	--	--	--	--	--	--	--	--	4.31
	05-17-89	120	540	28	0.010	0.05	<0.010	3.1	13	4.31
	11-01-89	--	--	28	0.080	0.04	--	3.1	--	4.31

Table 11B.--*Results of analyses of nutrients and major ions in event water-quality samples collected at unsteady, high stages in the High Point Lake watershed*
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	DISCHARGE INST. (CUBIC FEET PER SECOND) (00061)	GAGE HEIGHT (FEET) (00065)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	PH (STANDARD UNITS) (00400)	ALKALINITY WAT WH TOT FET FIELD (MG/L AS CACO3) (00410)
Site 2	02-21-89	1145	3.0	60	12.16	80	12.1	24	6.5	18
	02-28-89	0837	4.5	51	12.26	--	--	<10	--	--
	02-28-89	1033	4.5	26	12.79	--	--	30	--	--
	05-01-89	2245	--	--	--	52	--	69	6.6	14
	05-01-89	2330	--	--	--	66	--	--	6.9	--
	06-21-89	1515	--	--	--	--	--	--	--	--
	06-21-89	1540	--	--	--	--	--	120	--	--
	06-21-89	1615	--	50	--	--	--	--	--	--
	09-22-89	0750	--	84	11.87	190	--	--	7.1	--
	09-22-89	0900	--	86	11.81	160	--	54	7.1	13
	09-22-89	1030	--	58	12.91	180	--	--	7.4	--
	09-22-89	1300	22.0	54	12.25	210	7.4	--	7.0	20
Site 3	02-21-89	1245	6.0	413	5.56	92	11.8	--	7.0	--
	02-21-89	2000	6.5	516	6.24	96	11.4	18	7.0	34
	02-22-89	0830	7.0	360	5.20	96	11.4	--	6.8	--
	09-22-89	1030	--	157	3.45	--	--	--	--	--
	09-22-89	1530	--	179	3.75	--	--	13	--	20
	12-12-89	0930	--	351	2.66	--	--	--	--	--
	12-12-89	1425	5.5	--	4.97	88	12.5	23	6.0	10
Site 4	02-21-89	1245	3.5	125	5.42	120	11.2	--	6.2	--
	02-21-89	1640	4.0	245	7.09	83	11.2	26	6.0	3
	02-21-89	2315	5.0	132	5.50	82	10.4	--	6.5	--
	09-22-89	1030	--	118	5.60	--	--	67	--	12
	09-22-89	1615	--	44	4.01	--	--	--	--	--
	12-12-89	1015	5.0	94	4.88	--	--	--	--	--
	12-12-89	1245	3.0	175	6.21	162	14.3	84	6.1	8
Site 5	02-21-89	1030	2.5	267	2.05	105	12.2	--	6.6	--
	02-21-89	1445	4.0	482	2.71	83	12.0	24	6.4	17
	02-21-89	1700	3.5	338	2.27	81	11.9	--	6.7	--
	06-21-89	1022	22.0	51	1.13	76	--	--	6.2	--
	06-21-89	1355	22.0	61	1.18	75	--	51	6.6	--
	06-21-89	1700	22.0	60	1.17	84	--	--	6.4	--
	09-22-89	0900	22.0	249	1.99	--	--	65	--	--
	09-22-89	1415	--	108	1.45	--	--	--	--	--
Site 6	02-21-89	1115	2.5	66	9.29	105	12.6	--	6.8	--
	02-21-89	1545	3.5	52	9.42	99	12.4	31	6.6	27
	02-21-89	1900	4.5	47	9.49	107	11.8	--	7.0	--
	12-12-89	0850	5.0	--	10.04	--	--	--	--	--
	12-12-89	1330	3.5	--	9.59	205	14.0	62	6.1	10

Table 11B.--*Results of analyses of nutrients and major ions in event water-quality samples collected at unsteady, high stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
Site 2	02-21-89	20	1.5	0.68	0.120	0.020	0.900	0.680	0.80	0.700
	02-28-89	--	1.2	0.59	0.110	0.030	--	0.470	0.70	0.500
	02-28-89	--	1.3	0.50	0.100	0.020	--	0.680	0.60	0.700
	05-01-89	17	2.2	1.7	0.150	0.050	0.310	0.250	1.9	0.300
	05-01-89	--	2.0	1.4	0.160	0.050	--	0.350	1.6	0.400
	06-21-89	--	1.0	0.49	0.110	0.020	--	0.380	0.60	0.400
	06-21-89	--	--	0.49	0.110	<0.010	0.310	--	0.60	<0.100
	06-21-89	--	1.0	0.59	0.110	0.030	--	0.270	0.70	0.300
	09-22-89	--	1.5	1.0	0.070	0.030	--	0.370	1.1	0.400
	09-22-89	17	1.5	1.0	0.070	0.020	0.130	0.380	1.1	0.400
	09-22-89	--	1.5	0.94	0.060	0.030	--	0.470	1.0	0.500
	09-22-89	24	1.5	0.84	0.060	0.020	--	0.580	0.90	0.600
Site 3	02-21-89	--	0.80	0.55	0.050	<0.010	--	--	0.60	0.200
	02-21-89	41	0.70	0.43	0.070	<0.010	0.230	--	0.50	0.200
	02-22-89	--	0.60	0.35	0.050	<0.010	--	--	0.40	0.200
	09-22-89	--	--	0.50	0.100	<0.010	--	--	0.60	<0.100
	09-22-89	24	--	0.42	0.080	<0.010	<0.010	--	0.50	<0.100
	12-12-89	12	1.1	0.76	0.140	0.020	--	0.180	0.90	0.200
	12-12-89	12	--	--	--	--	--	--	--	--
Site 4	02-21-89	--	2.6	1.9	0.120	0.030	--	0.570	2.0	0.600
	02-21-89	5	2.0	1.3	0.110	0.030	0.760	0.570	1.4	0.600
	02-21-89	--	1.6	0.81	0.090	0.030	--	0.670	0.90	0.700
	09-22-89	12	2.0	1.5	0.070	0.070	0.400	0.330	1.6	0.400
	09-22-89	--	1.5	1.0	0.070	0.060	--	0.340	1.1	0.400
	12-12-89	--	1.8	1.0	0.150	0.040	--	0.560	1.2	0.600
	12-12-89	10	--	--	--	--	--	--	--	--
Site 5	02-21-89	--	1.8	1.3	0.130	0.030	--	0.370	1.4	0.400
	02-21-89	22	4.0	3.5	0.140	0.030	0.430	0.370	3.6	0.400
	02-21-89	--	1.5	0.97	0.130	0.030	--	0.370	1.1	0.400
	06-21-89	--	1.1	0.70	0.100	0.040	--	0.260	0.80	0.300
	06-21-89	--	1.1	0.76	0.040	0.030	0.060	0.270	0.80	0.300
	06-21-89	--	1.1	0.72	0.080	0.050	--	0.250	0.80	0.300
	09-22-89	--	1.1	0.84	0.060	0.060	0.150	0.140	0.90	0.200
	09-22-89	--	1.3	1.0	0.060	0.060	--	0.140	1.1	0.200
Site 6	02-21-89	--	1.4	0.89	0.110	0.040	--	0.360	1.0	0.400
	02-21-89	34	1.2	0.72	0.080	0.030	--	0.370	0.80	0.400
	02-21-89	--	1.1	0.53	0.070	0.030	--	0.470	0.60	0.500
	12-12-89	--	2.3	1.0	0.360	0.080	--	0.820	1.4	0.900
	12-12-89	12	--	--	--	--	--	--	--	--

Table 11B.--*Results of analyses of nutrients and major ions in event water-quality samples collected at unsteady, high stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	PHOSPHATE, TOTAL (MG/L AS PO4) (00650)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
Site 2	02-21-89	0.46	0.37	0.290	0.120	14	27	11	7.1	2.3
	02-28-89	0.43	--	0.250	--	8.3	--	--	--	--
	02-28-89	0.37	--	0.200	--	8.4	--	--	--	--
	05-01-89	0.43	0.37	0.310	0.120	21	14	0	3.6	1.2
	05-01-89	0.55	--	0.330	--	--	--	--	--	--
	06-21-89	0.12	--	0.090	--	--	--	--	--	--
	06-21-89	--	0.15	0.480	0.050	35	21	--	5.7	1.7
	06-21-89	0.21	--	0.130	--	--	--	--	--	--
	09-22-89	0.46	--	0.250	--	--	--	--	--	--
	09-22-89	0.46	0.34	0.230	0.110	14	28	14	7.6	2.2
	09-22-89	0.52	--	0.220	--	--	--	--	--	--
	09-22-89	0.37	--	0.170	--	--	--	--	--	--
Site 3	02-21-89	--	--	0.030	--	--	--	--	--	--
	02-21-89	0.06	--	0.030	<0.010	4.6	29	0	7.2	2.7
	02-22-89	--	--	0.040	--	--	--	--	--	--
	09-22-89	--	--	0.030	--	--	--	--	--	--
	09-22-89	--	--	0.030	<0.010	5.0	30	10	7.6	2.6
	12-12-89	0.09	--	0.170	--	--	--	--	--	--
	12-12-89	--	--	--	--	8.6	25	16	6.4	2.3
Site 4	02-21-89	0.12	--	0.420	--	26	--	--	--	--
	02-21-89	0.12	--	0.460	<0.010	21	17	13	4.2	1.6
	02-21-89	0.12	--	0.280	--	--	--	--	--	--
	09-22-89	0.34	--	0.610	<0.010	20	14	5	3.8	1.2
	09-22-89	0.31	--	0.350	--	--	--	--	--	--
	12-12-89	0.31	--	0.530	--	--	--	--	--	--
	12-12-89	--	--	--	--	19	24	15	6.0	2.1
Site 5	02-21-89	0.34	--	0.380	--	19	--	--	--	--
	02-21-89	0.37	0.09	0.460	0.030	17	33	15	9.5	2.2
	02-21-89	0.37	--	0.410	--	--	--	--	--	--
	06-21-89	0.25	--	0.140	--	--	--	--	--	--
	06-21-89	0.18	--	0.140	<0.010	15	28	--	7.1	2.6
	06-21-89	0.28	--	0.150	--	--	--	--	--	--
	09-22-89	0.46	0.18	0.370	0.060	18	21	--	5.3	1.8
	09-22-89	0.40	--	0.260	--	--	--	--	--	--
Site 6	02-21-89	0.21	--	0.280	--	--	--	--	--	--
	02-21-89	0.15	--	0.130	--	8.6	21	0	5.1	2.0
	02-21-89	0.12	--	0.110	--	--	--	--	--	--
	12-12-89	0.64	--	0.320	--	--	--	--	--	--
	12-12-89	--	--	--	--	15	56	46	17	3.2

Table 11B.--*Results of analyses of nutrients and major ions in event water-quality samples collected at unsteady, high stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
Site 2	02-21-89	3.0	2.6	3.3	12	0.15	5.1	260	35
	02-28-89	--	--	--	--	--	--	--	--
	02-28-89	--	--	--	--	--	--	--	--
	05-01-89	1.2	2.5	0.93	4.9	0.10	3.2	290	33
	05-01-89	--	--	--	--	--	--	--	--
	06-21-89	--	--	--	--	--	--	--	--
	06-21-89	2.7	1.9	1.6	4.2	0.12	5.2	190	36
	06-21-89	--	--	--	--	--	--	--	--
	09-22-89	--	--	--	--	--	--	--	--
	09-22-89	4.2	3.7	7.1	8.1	0.19	6.1	230	31
	09-22-89	--	--	--	--	--	--	--	--
	09-22-89	--	--	--	--	--	--	--	--
Site 3	02-21-89	--	--	--	--	--	--	--	--
	02-21-89	5.8	2.6	6.1	7.6	0.17	11	97	2
	02-22-89	--	--	--	--	--	--	--	--
	09-22-89	--	--	--	--	--	--	--	--
	09-22-89	5.0	2.4	4.6	3.8	0.19	10	150	1,100
	12-12-89	--	--	--	--	--	--	--	--
	12-12-89	4.6	--	--	--	--	10	110	10
Site 4	02-21-89	--	--	--	--	--	--	--	--
	02-21-89	6.0	3.8	11	11	0.20	6.4	420	140
	02-21-89	--	--	--	--	--	--	--	--
	09-22-89	3.2	4.6	3.2	5.1	0.20	7.7	210	110
	09-22-89	--	--	--	--	--	--	--	--
	12-12-89	16	4.0	29	8.0	0.10	6.9	200	140
	12-12-89	--	--	--	--	--	--	--	--
Site 5	02-21-89	--	--	--	--	--	--	--	--
	02-21-89	4.2	2.7	9.1	9.6	0.14	5.8	310	43
	02-21-89	--	--	--	--	--	--	--	--
	06-21-89	--	--	--	--	--	--	--	--
	06-21-89	3.7	2.9	3.6	5.4	0.18	11	210	37
	06-21-89	--	--	--	--	--	--	--	--
	09-22-89	3.7	3.8	3.6	5.5	0.22	7.7	280	54
	09-22-89	--	--	--	--	--	--	--	--
Site 6	02-21-89	--	--	--	--	--	--	--	--
	02-21-89	5.7	2.8	11	19	0.10	5.6	140	100
	02-21-89	--	--	--	--	--	--	--	--
	12-12-89	--	--	--	--	--	--	--	--
	12-12-89	9.4	3.6	33	11	0.10	5.6	160	97

Table 11B.--*Results of analyses of nutrients and major ions in event water-quality samples collected at unsteady, high stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	PHOS-PHORUS ORTHO, TOTAL (MG/L AS P) (70507)	NITRO-GEN, AMMONIA, TOTAL (MG/L AS NH4) (71845)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	DRAIN-AGE AREA (SQ. MI.) (81024)
Site 2	02-21-89	3,200	16	0.150	0.15	<0.010	6.6	489	2.15
	02-28-89	2,600	--	0.140	0.14	--	5.3	91	2.15
	02-28-89	1,600	--	0.120	0.13	--	5.8	--	2.15
	05-01-89	11,000	14	0.140	0.19	<0.010	9.7	719	2.15
	05-01-89	--	--	0.180	0.21	--	8.9	414	2.15
	06-21-89	--	--	0.040	0.14	--	4.4	--	2.15
	06-21-89	16,000	--	<0.010	0.14	<0.010	--	512	2.15
	06-21-89	--	--	0.070	0.14	--	4.4	549	2.15
	09-22-89	--	--	0.150	0.09	--	6.6	24	2.15
	09-22-89	1,900	14	0.150	0.09	<0.010	6.6	293	2.15
	09-22-89	--	--	0.170	0.08	--	6.6	50	2.15
	09-22-89	--	20	0.120	0.08	--	6.6	37	2.15
Site 3	02-21-89	--	--	<0.010	0.06	--	3.5	11	31.9
	02-21-89	200	34	0.020	0.09	<0.010	3.1	9	31.9
	02-22-89	--	--	<0.010	0.06	--	2.7	21	31.9
	09-22-89	--	--	<0.010	0.13	--	--	14	31.9
	09-22-89	130	20	<0.010	0.10	<0.010	--	13	31.9
	12-12-89	--	10	0.030	0.18	--	4.9	--	31.9
	12-12-89	380	10	--	--	--	--	--	31.9
Site 4	02-21-89	18,000	--	0.040	0.15	--	12	977	11.5
	02-21-89	13,000	4	0.040	0.14	<0.010	8.9	676	11.5
	02-21-89	--	--	0.040	0.12	--	7.1	309	11.5
	09-22-89	23,000	10	0.110	0.09	0.020	8.9	621	11.5
	09-22-89	--	--	0.100	0.09	--	6.6	550	11.5
	12-12-89	--	--	0.100	0.19	--	8.0	--	11.5
	12-12-89	23,000	8	--	--	<0.010	--	725	11.5
Site 5	02-21-89	9,100	--	0.110	0.17	--	8.0	650	14.8
	02-21-89	12,000	18	0.120	0.18	<0.010	18	866	14.8
	02-21-89	--	--	0.120	0.17	--	6.6	381	14.8
	06-21-89	--	--	0.080	0.13	--	4.9	279	14.8
	06-21-89	5,100	--	0.060	0.05	0.020	4.9	343	14.8
	06-21-89	--	--	0.090	0.10	--	4.9	115	14.8
	09-22-89	15,000	--	0.150	0.08	<0.010	4.9	807	14.8
	09-22-89	--	--	0.130	0.08	--	5.8	306	14.8
Site 6	02-21-89	--	--	0.070	0.14	--	6.2	427	2.21
	02-21-89	3,100	28	0.050	0.10	<0.010	5.3	494	2.21
	02-21-89	--	--	0.040	0.09	--	4.9	96	2.21
	12-12-89	--	--	0.210	0.46	--	10	--	2.21
	12-12-89	11,000	10	--	--	<0.010	--	--	2.21

Table 12.--*Index of major and minor metals analyzed in routine stream water-quality samples collected at steady stages and in event water-quality samples collected at unsteady, high stages in the High Point Lake watershed*

[Analyses in this table include tests for the following metals arranged numerically in tables 12A and 12B by WATSTORE code; ---, no analyses performed]

Constituent	WATSTORE codes	
	Total	Dissolved
Aluminum	01105	---
Barium	01007	---
Cadmium	01027	---
Chromium	01034	---
Copper	01042	---
Discharge, instantaneous	00061	---
Gage height	00065	---
Iron	01045	01046
Lead	01051	---
Manganese	01055	01056
Nickel	01067	---
Zinc	01092	---

Table 12A.--*Results of analyses of major and minor metals in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	CADMIUM, TOTAL RECOV-ERABLE (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)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALUMINUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)
Site 1	12-13-88	1145	--	--	<100	<1	<1	4	790	<5	90	4	<10	270
	05-18-89	1030	--	--	<100	<1	3	4	1,200	2	160	1	10	730
	08-04-89	0900	--	--	100	1	2	7	320	1	130	1	10	150
Site 2	12-15-88	1300	0.60	13.53	<100	<1	2	3	1,300	<5	310	2	<10	50
	12-15-88	1330	--	--	<100	<1	2	5	1,300	<5	380	1	<10	100
	05-18-89	0900	0.86	--	<100	<1	2	3	400	2	140	2	<10	80
	07-12-89	0940	1.0	13.47	100	1	1	8	300	2	70	5	<10	70
Site 3	12-15-88	1200	70	2.34	<100	<1	3	3	470	<5	110	<1	<10	230
	05-19-89	0900	15	1.74	<100	<1	2	3	680	2	40	3	<10	570
	07-12-89	0850	4.1	1.46	100	<1	1	3	390	<1	130	1	<10	270
Site 4	12-13-88	1345	5.5	2.12	<100	1	<1	2	720	<5	120	6	<10	150
	05-16-89	1400	10	2.43	<100	<1	1	3	1,200	2	60	2	<10	730
	05-19-89	1015	9.6	2.33	<100	<1	2	2	1,100	1	80	2	<10	370
	07-12-89	0830	5.8	2.15	100	<1	2	4	850	2	80	3	<10	360
Site 5	12-15-88	1015	6.3	0.45	<100	<1	2	4	510	<5	120	<1	<10	130
	05-18-89	1215	9.8	0.56	<100	<1	2	3	630	1	100	1	<10	230
	05-18-89	1230	9.8	0.56	<100	<1	2	2	610	1	100	<1	10	210
	07-12-89	1130	5.4	0.43	100	<1	1	4	480	2	70	1	<10	150
Site 6	12-14-88	1430	0.52	10.44	<100	<1	<1	3	420	<5	70	5	<10	240
	05-17-89	1200	0.76	10.45	<100	<1	2	3	560	1	30	3	<10	300
	07-12-89	1330	0.16	10.48	100	1	2	13	490	3	70	7	<10	130
	07-12-89	1400	0.16	10.48	100	<1	1	3	480	2	70	1	<10	130
Site 7	12-14-88	1200	2.7	10.02	<100	<1	<1	3	400	<5	130	3	<10	90
	05-19-89	1045	3.9	10.31	<100	<1	1	5	490	1	120	11	<10	120
	07-12-89	1100	2.3	10.30	100	<1	2	2	390	1	100	1	<10	140
Site 8	12-14-88	1030	0.47	--	<100	<1	<1	4	560	<5	100	7	<10	410
	05-17-89	1030	8.1	--	<100	<1	3	4	900	2	110	1	<10	520
Site 9	12-14-88	0930	0.50	6.23	<100	1	<1	4	1,300	<5	80	4	20	660
	05-17-89	0830	0.70	5.91	<100	<1	1	4	1,200	3	150	2	<10	580
Site 10	12-13-88	1500	2.1	11.86	<100	<1	<1	2	890	<5	130	8	<10	230
	05-17-89	1330	2.1	11.87	<100	<1	1	2	1,400	1	110	1	<10	540

Table 12B.--*Results of analyses of major and minor metals in event water-quality samples collected at unsteady, high stages in the High Point Lake watershed*
[<, less than; --, no data]

SITE CODE (Fig. 1)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	CADMIUM, TOTAL RECOV-ERABLE (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)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALUMINUM TOTAL RECOV-ERABLE (UG/L AS AL) (01105)
Site 2	02-21-89	1145	60	12.16	<100	2	12	20	440	34	150	13	70	3,200
	02-28-89	0837	51	12.26	<100	<1	7	13	3,600	29	80	7	50	2,600
	02-28-89	1033	26	12.79	<100	<1	5	15	2,200	16	60	4	50	1,600
	05-01-89	2245	--	--	200	<1	39	32	17,000	65	330	16	120	11,000
	06-21-89	1540	--	--	100	<1	40	45	7,900	100	160	25	50	16,000
	09-22-89	0900	86	11.81	<100	<1	5	24	2,800	50	80	6	50	1,900
Site 3	02-21-89	2000	516	6.24	<100	1	2	2	400	<5	60	2	<10	200
	09-22-89	1530	179	3.75	<100	<1	<1	9	620	13	760	1	10	130
	12-12-89	1425	--	4.97	<100	--	2	3	680	17	140	1	<10	380
Site 4	02-21-89	1245	125	5.42	200	<1	29	14	28,000	16	840	6	120	18,000
	02-21-89	1640	245	7.09	200	<1	22	13	17,000	12	520	9	80	13,000
	09-22-89	1030	118	5.60	200	<1	32	23	31,000	53	450	14	110	23,000
	12-12-89	1245	175	6.21	300	<1	34	11	35,000	27	640	17	120	23,000
Site 5	02-21-89	1030	267	2.05	<100	1	17	28	14,000	45	640	12	80	9,100
	02-21-89	1445	482	2.71	<100	<1	20	36	15,000	48	500	8	60	12,000
	06-21-89	1355	61	1.18	<100	<1	7	8	7,900	7	160	4	70	5,100
	09-22-89	0900	249	1.99	<100	<1	21	33	25,000	78	450	11	60	15,000
Site 6	02-21-89	1545	52	9.42	<100	<1	10	39	4,900	43	150	3	30	3,100
	12-12-89	1330	--	9.59	<100	<1	27	9	16,000	11	420	18	70	11,000

Table 13.--*Index of trace elements analyzed in routine stream water-quality samples collected at steady stages and in event water-quality samples collected at unsteady, high stages in the High Point Lake watershed*

[Analyses in this table include tests for the following trace elements arranged numerically in tables 13A and 13B by WATSTORE code; ---, no analyses performed]

Constituent	WATSTORE codes	
	Total	Dissolved
Antimony	01097	---
Arsenic	01002	---
Beryllium	01012	---
Cyanide	00720	---
Discharge, instantaneous	00061	---
Gage height	00065	---
Mercury	71900	---
Molybdenum	01062	---
Selenium	01147	---
Silver	01077	---
Thallium	---	01057
Vanadium	---	01085

Table 13A.--*Results of analyses of trace-elements in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	CYANIDE, TOTAL (MG/L AS CN) (00720)	ARSENIC, TOTAL (UG/L AS AS) (01002)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ANTI-MONY, TOTAL (UG/L AS SB) (01097)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	MERCURY, TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
Site 2	05-18-89	0900	0.86	--	<0.010	<1	<10	<1	3	<1	<1	<1	<1	<0.10
Site 4	05-16-89	1400	10	2.43	<0.010	<1	--	<1	--	--	<1	<1	<1	<0.10
	05-19-89	1015	9.6	2.33	<0.010	<1	<10	--	4	<1	1	<1	<1	--
Site 5	05-18-89	1215	9.8	0.56	<0.010	<1	<10	<1	2	<1	2	<1	<1	<0.10
	05-18-89	1230	9.8	0.56	<0.010	<1	<10	<1	4	<1	2	<1	<1	<0.10
Site 6	05-17-89	1200	0.76	10.45	<0.010	<1	<10	<1	15	<1	1	<1	<1	<0.10

Table 13B.--*Results of analyses of trace-elements in event stream water-quality samples collected at unsteady, high stages in the High Point Lake watershed*
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	CYANIDE, TOTAL (MG/L AS CN) (00720)	ARSENIC, TOTAL (UG/L AS AS) (01002)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	MOLYB-DENUM TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	SILVER TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ANTI-MONY, TOTAL (UG/L AS SB (01097)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	MERCURY, TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
Site 2	05-01-89	2245	--	--	<0.010	<1	<10	<1	3	<1	6	<1	<1	<0.10
Site 4	02-21-89	1640	245	7.09	<0.010	<1	<10	<1	6	1	<1	<1	<1	<0.10
Site 5	02-21-89	1445	482	2.71	<0.010	<1	<10	<1	4	<1	<1	<1	<1	<0.10
Site 6	02-21-89	1545	52	9.42	<0.010	<1	<10	<1	4	<1	2	<1	<1	<0.10

Table 14.--*Index of organic pesticides analyzed in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*

[Analyses in this table include tests for the following organic pesticides arranged numerically in table 14A by WATSTORE code; NA, not applicable]

Constituent	WATSTORE code
2,4-D	39730
2,4-DP	82183
2,4,5-T	39740
Alachlor	77825
Aldicarb	39053
Aldicarb sulfone	82587
Aldicarb sulfoxide	82586
Aldrin	39330
Alpha-BHC	39337
Ametryne	82184
Atrazine	39630
Beta-BHC	39338
Carbofuran	81405
Chlordane	39350
Chlorpyrifos	38932
Cyanazine	81757
DDD	39360
DDE	39365
DDT	39370
DEF	39040
Delta-BHC	34259
Diazinon	39570
Dicamba	82052
Dieldrin	39380
Discharge, instantaneous	00061
Diuron	39650
Endosulfan	39388
Endrin	39390
Ethion	39398
Gage height	00065
Guthion	39580
Heptachlor	39410
Heptachlor epoxide	39420
3-Hydroxycarbofuran	82584
Lindane	39340
Malathion	39530
Methomyl	39051
Methoxychlor	39480
Methyl parathion	39600
Methyl trithion	39790
Metolachlor	82612
Metribuzin	82611
Mirex	39755
1-Naphthol	77441
Oxamyl	38865
Parathion	39540
Perthane	39034
Pichloram	39720
Polychlorinated biphenyls (PCB)	39516
Polychlorinated naphthalenes (PCN)	39250
Propazine	39024
Prometone	39056
Prometryne	39057
Propham	39052
Sevin	39750
Silvex	39760
Simazine	39055
Simetryne	39054
Toxaphene	39400
Trifluralin	39030
Trithion	39786
Unknown phenylurea pesticide	NA

Table 14A.--*Results of analyses of organic pesticides in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	DELTA BENZENE HEXA-CHLO-RIDE TOTAL (UG/L) (34259)	OXAMYL, TOTAL (UG/L) (38865)	CHLOR-PYRIFOS, TOTAL (UG/L) (38932)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L) (39250)	PRO-PAZINE, TOTAL (UG/L) (39024)	TRI-FLURA-LIN, TOTAL RECOVER (UG/L) (39030)	PER-THANE, TOTAL (UG/L) (39034)	DEF, TOTAL (UG/L) (39040)
Site 2	05-18-89	0900	0.86	--	<0.01	<0.5	0.18	<0.10	<0.10	<0.10	<0.1	<0.01
Site 4	05-16-89	1400	10	2.43	<0.01	<0.5	<0.5	<0.10	<0.10	<0.10	<0.1	<0.01
Site 5	05-18-89	1215	9.8	0.56	<0.01	<0.5	<0.5	<0.10	<0.10	<0.10	<0.1	<0.01
	05-18-89	1230	9.8	0.56	<0.01	<0.5	<0.5	<0.10	<0.10	<0.10	<0.1	<0.01
Site 6	05-17-89	1200	0.76	10.45	<0.01	<0.5	<0.5	<0.10	<0.10	<0.10	<0.1	<0.01

SITE CODE (Fig. 1)	DATE	TIME	METHO-MYL, TOTAL (UG/L) (39051)	PROPHAM, TOTAL (UG/L) (39052)	ALDI-CARB, TOTAL (UG/L) (39053)	SIME-TRYNE, TOTAL (UG/L) (39054)	SIMA-ZINE, TOTAL (UG/L) (39055)	PROME-TONE, TOTAL (UG/L) (39056)	PROME-TRYNE, TOTAL (UG/L) (39057)	ALDRIN, TOTAL (UG/L) (39330)	ALPHA BHC, TOTAL (UG/L) (39337)	BETA BENZENE HEXA-CHLOR-IDE, TOTAL (UG/L) (39338)
Site 2	05-18-89	0900	<0.5	<0.5	<0.5	<0.1	0.10	0.2	<0.1	<0.001	<0.01	<0.01
Site 4	05-16-89	1400	<0.5	<0.5	<0.5	<0.1	0.10	<0.1	<0.1	<0.001	<0.01	<0.01
Site 5	05-18-89	1215	<0.5	<0.5	<0.5	<0.1	0.20	0.1	<0.1	<0.001	<0.01	<0.01
	05-18-89	1230	<0.5	<0.5	<0.5	<0.1	0.20	0.1	<0.1	<0.001	<0.01	<0.01
Site 6	05-17-89	1200	<0.5	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1	<0.001	<0.01	<0.01

Table 14A.--*Results of analyses of organic pesticides in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	LINDANE, TOTAL (UG/L) (39340)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN, TOTAL (UG/L) (39380)	ENDOSULFAN, TOTAL (UG/L) (39388)	ENDRIN, TOTAL (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)
Site 2	05-18-89	0900	<0.001	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01
Site 4	05-16-89	1400	<0.001	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01
Site 5	05-18-89	1215	<0.001	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01
	05-18-89	1230	<0.001	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01
Site 6	05-17-89	1200	<0.001	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01

SITE CODE (Fig. 1)	DATE	TIME	TOXAPHENE, TOTAL (UG/L) (39400)	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR EPOXIDE, TOTAL (UG/L) (39420)	METHOXYCHLOR, TOTAL (UG/L) (39480)	PCB, TOTAL (UG/L) (39516)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	GUTHION, TOTAL (UG/L) (39580)
Site 2	05-18-89	0900	<1	<0.001	<0.001	<0.01	<0.1	<0.01	<0.01	0.01	<0.10
Site 4	05-16-89	1400	<1	<0.001	<0.001	<0.01	<0.1	<0.01	<0.01	<0.01	<0.10
Site 5	05-18-89	1215	<1	<0.001	<0.001	<0.01	<0.1	<0.01	<0.01	<0.01	<0.10
	05-18-89	1230	<1	<0.001	<0.001	<0.01	<0.1	<0.01	<0.01	<0.01	<0.10
Site 6	05-17-89	1200	<1	<0.001	<0.001	<0.01	<0.1	<0.01	<0.01	<0.01	<0.10

Table 14A.--*Results of analyses of organic pesticides in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	METHYL PARA-THION, TOTAL (UG/L) (39600)	ATRA-ZINE, TOTAL (UG/L) (39630)	DIURON, TOTAL (UG/L) (39650)	PICLO-RAM (TOR-DON) (AMDON), TOTAL (UG/L) (39720)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T, TOTAL (UG/L) (39740)	SEVIN, TOTAL (UG/L) (39750)	MIREX, TOTAL (UG/L) (39755)	SILVEX, TOTAL (UG/L) (39760)	TRI-THION, TOTAL (UG/L) (39786)	METHYL TRI-THION TOTAL (UG/L) (39790)
Site 2	05-18-89	0900	<0.01	0.10	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Site 4	05-16-89	1400	<0.01	<0.10	<0.5	<0.01	<0.01	<0.01	<0.50	<0.01	<0.01	<0.01	<0.01
Site 5	05-18-89	1215	<0.01	0.30	Trace	<0.01	<0.01	<0.01	<0.50	<0.01	<0.01	<0.01	<0.01
	05-18-89	1230	<0.01	0.30	Trace	<0.01	<0.01	<0.01	<0.50	<0.01	<0.01	<0.01	<0.01
Site 6	05-17-89	1200	<0.01	0.30	<0.5	<0.01	<0.01	<0.01	<0.50	<0.01	<0.01	<0.01	<0.01

SITE CODE (Fig. 1)	DATE	TIME	1-NAPH-THOL, TOTAL (UG/L) (77441)	ALA-CHLOR, TOTAL RECOVER (UG/L) (77825)	CARBO-FURAN, TOTAL (UG/L) (81405)	CYAN-AZINE, TOTAL (UG/L) (81757)	DICAMBA (MED-IBEN) (BAN-VEL D), TOTAL (UG/L) (82052)	2,4-DP, TOTAL (UG/L) (82183)	AME-TRYNE, TOTAL (UG/L) (82184)	3-HYDROXY-CARBO-FURAN, TOTAL (UG/L) (82584)	ALDI-CARB SULF-OXIDE, TOTAL (UG/L) (82586)	ALDI-CARB SULF-ONE, TOTAL (UG/L) (82587)	METRI-BUZIN WATER WHOLE TOT.REC (UG/L) (82611)	METOLA-CHLOR WATER WHOLE TOT.REC (UG/L) (82612)	UNKNOWN PHENY-LUREA PESTI-CIDE, TOTAL
Site 2	05-18-89	0900	<0.5	<0.10	<0.5	<0.10	<0.01	<0.01	<0.10	<0.5	<0.5	<0.5	<0.1	<0.1	<0.5
Site 4	05-16-89	1400	<0.5	<0.10	<0.5	<0.10	<0.01	<0.01	<0.10	<0.5	<0.5	<0.5	<0.1	<0.1	<0.5
Site 5	05-18-89	1215	<0.5	<0.10	<0.5	<0.10	<0.01	<0.01	<0.10	<0.5	<0.5	<0.5	<0.1	<0.1	<0.5
	05-18-89	1230	<0.5	<0.10	<0.5	<0.10	<0.01	<0.01	<0.10	<0.5	<0.5	<0.5	<0.1	<0.1	<0.5
Site 6	05-17-89	1200	<0.5	<0.10	<0.5	<0.10	<0.01	<0.01	<0.10	<0.5	<0.5	<0.5	<0.1	0.1	Trace

Table 15.--*Index of volatile organic compounds analyzed in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*

[Analyses in this table include tests for the following volatile organic compounds arranged numerically in table 15A by WATSTORE code]

Constituent	WATSTORE code
1,1,1-Trichloroethane	34506
1,1,2,2-Tetrachloroethane	34516
1,1,2-Trichloroethane	34511
1,1-Dichloroethane	34496
1,1-Dichloroethylene	34501
1,2-Dichlorobenzene	34536
1,2-Dibromoethylene	39082
1,2-Dichloroethane	32103
1,2-Dichloropropane	34541
1,3-Dichloropropane	34561
2-Chloroethyl vinyl ether	34576
Benzene	34030
Bromodichloromethane	32101
Bromoform	32104
Bromomethane	34413
Carbon tetrachloride	32102
Chlorobenzene	34301
Chloroethane	34311
Chloroform	32106
Chloromethane	34418
cis-1,3-Dichloropropene	34704
Dibromochloromethane	32105
Dichlorodifluoromethane	34668
Discharge, instantaneous	00061
Ethylbenzene	34371
Gage height	00065
Methylene chloride	34423
Styrene	77128
Tetrachloroethane	34475
Toluene	34010
Trans-1,2-Dichloroethene	34546
Trans-1,3-Dichloropropene	34699
Trichloroethene	39180
Trichlorofluoromethane	34488
Vinyl chloride	39175
Xylene	81551

Table 15A.--*Results of analyses of volatile organic compounds in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	DI-CHLORO-BROMO-METHANE, TOTAL (UG/L) (32101)	CARBON-TETRA-CHLO-RIDE, TOTAL (UG/L) (32102)	1,2-DI-CHLORO-ETHANE, TOTAL (UG/L) (32103)	BROMO-FORM, TOTAL (UG/L) (32104)	CHLORO-DI-BROMO-METHANE, TOTAL (UG/L) (32105)	CHLORO-FORM, TOTAL (UG/L) (32106)	TOLUENE, TOTAL (UG/L) (34010)
Site 1	12-13-88	1145	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-18-89	1030	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	<0.20
Site 2	12-15-88	1300	0.60	13.53	<0.20	<0.20	<0.20	<0.20	<0.20	1.4	0.20
	12-15-88	1330	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	1.3	<0.20
	05-18-89	0900	0.86	--	<0.20	<0.20	<0.20	<0.20	<0.20	0.40	<0.20
	10-30-89	1400	0.70	13.52	<0.20	<0.20	<0.20	<0.20	<0.20	0.80	<0.20
Site 3	12-15-88	1200	70	2.34	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-19-89	0900	15	1.74	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-30-89	1010	12	1.75	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 4	12-13-88	1345	5.5	2.12	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20
	05-16-89	1400	10	2.43	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-31-89	1400	7.4	2.32	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 5	12-15-88	1015	6.3	0.45	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-18-89	1215	9.8	0.56	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-18-89	1230	9.8	0.56	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-31-89	0845	6.9	0.49	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 6	12-14-88	1430	0.52	10.44	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20
	05-17-89	1200	0.76	10.45	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-31-89	1105	1.1	10.47	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 7	12-14-88	1200	2.7	10.02	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20
	05-19-89	1045	3.9	10.31	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 8	12-14-88	1030	0.47	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20
	05-17-89	1030	8.1	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 9	12-14-88	0930	0.50	6.23	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-17-89	0830	0.70	5.91	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 10	12-13-88	1500	2.1	11.86	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-17-89	1330	2.1	11.87	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Table 15A.--*Results of analyses of volatile organic compounds in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	BENZENE, TOTAL (UG/L) (34030)	CHLORO-BENZENE, TOTAL (UG/L) (34301)	CHLORO-ETHANE, TOTAL (UG/L) (34311)	ETHYL-BENZENE, TOTAL (UG/L) (34371)	METHYL-BROMIDE, TOTAL (UG/L) (34413)	METHYL-CHLO-RIDE, TOTAL (UG/L) (34418)	METHYL-ENE CHLO-RIDE, TOTAL (UG/L) (34423)	TETRA-CHLORO-ETHYL-ENE, TOTAL (UG/L) (34475)	TRI-CHLORO-FLUORO-METHANE, TOTAL (UG/L) (34488)	1,1-DI-CHLORO-ETHANE, TOTAL (UG/L) (34496)
Site 1	12-13-88	1145	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-18-89	1030	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.30	<0.20	<0.20	<0.20
Site 2	12-15-88	1300	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	9.0	<0.20	<0.20
	12-15-88	1330	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	9.3	<0.20	<0.20
	05-18-89	0900	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-30-89	1400	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 3	12-15-88	1200	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-19-89	0900	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-30-89	1010	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 4	12-13-88	1345	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-16-89	1400	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-31-89	1400	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 5	12-15-88	1015	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-18-89	1215	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-18-89	1230	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-31-89	0845	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 6	12-14-88	1430	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-17-89	1200	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-31-89	1105	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 7	12-14-88	1200	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-19-89	1045	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 8	12-14-88	1030	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-17-89	1030	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 9	12-14-88	0930	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-17-89	0830	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 10	12-13-88	1500	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-17-89	1330	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Table 15A.--*Results of analyses of volatile organic compounds in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	1,1-DI-CHLORO-ETHYL-ENE, TOTAL (UG/L) (34501)	1,1,1-TRI-CHLORO-ETHANE, TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE, TOTAL (UG/L) (34511)	1,1,2,2 TETRA-CHLORO-ETHANE, TOTAL (UG/L) (34516)	1,2-DI-CHLORO-BENZENE, TOTAL (UG/L) (34536)	1,2-DI-CHLORO-PROPANE, TOTAL (UG/L) (34541)	1,2-TRANSDI CHLORO ETHENE, TOTAL (UG/L) (34546)	1,3-DI-CHLORO-PROPENE, TOTAL (UG/L) (34561)	1,3-DI-CHLORO-BENZENE, TOTAL (UG/L) (34566)	1,4-DI-CHLORO-BENZENE, TOTAL (UG/L) (34571)
Site 1	12-13-88	1145	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-18-89	1030	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 2	12-15-88	1300	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20
	12-15-88	1330	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20
	05-18-89	0900	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-30-89	1400	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 3	12-15-88	1200	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-19-89	0900	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-30-89	1010	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 4	12-13-88	1345	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-16-89	1400	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-31-89	1400	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 5	12-15-88	1015	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-18-89	1215	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-18-89	1230	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-31-89	0845	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 6	12-14-88	1430	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-17-89	1200	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-31-89	1105	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 7	12-14-88	1200	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-19-89	1045	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 8	12-14-88	1030	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-17-89	1030	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 9	12-14-88	0930	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-17-89	0830	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site 10	12-13-88	1500	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	05-17-89	1330	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Table 15A.--*Results of analyses of volatile organic compounds in routine stream water-quality samples collected at steady stages in the High Point Lake watershed*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	2-CHLORO-ETHYL-VINYL-ETHER, TOTAL (UG/L) (34576)	DI-CHLORO-DI-FLUORO-METHANE, TOTAL (UG/L) (34668)	TRANS-1,3-DI-CHLORO-PROPENE, TOTAL (UG/L) (34699)	CIS 1,3-DI-CHLORO-PROPENE, TOTAL (UG/L) (34704)	VINYL CHLO-RIDE, TOTAL (UG/L) (39175)	TRI-CHLORO-ETHYL-ENE, TOTAL (UG/L) (39180)	STYRENE, TOTAL (UG/L) (77128)	1,2-DIBROMO ETHANE WATER WHOLE, TOTAL (UG/L) (77651)	XYLENE, TOTAL WATER WHOLE TOT REC (UG/L) (81551)	REMARKS
Site 1	12-13-88	<0.20	<0.30	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
	05-18-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	0.3	No other volatile compounds detected.
Site 2	12-15-88	<0.20	<0.20	<0.20	<0.20	<0.20	0.9	<0.2	<0.2	<0.2	1,2(cis)dichloroethene 0.6 µg/L.
	12-15-88	<0.20	<0.20	<0.20	<0.20	<0.20	0.8	<0.2	<0.2	<0.2	1,2(cis)dichloroethene 0.7 µg/L.
	05-18-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
	10-30-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
Site 3	12-15-88	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
	05-19-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
	10-30-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
Site 4	12-13-88	<0.20	0.50	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
	05-16-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
	10-31-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
Site 5	12-15-88	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
	05-18-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
	05-18-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
	10-31-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
Site 6	12-14-88	<0.20	<0.30	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	0.2	No other volatile compounds detected.
	05-17-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
	10-31-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
Site 7	12-14-88	<0.20	<0.30	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	0.2	No other volatile compounds detected.
	05-19-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
Site 8	12-14-88	<0.20	<0.30	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	0.2	No other volatile compounds detected.
	05-17-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
Site 9	12-14-88	<0.20	<0.30	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	2-methoxy-2-methylpropane 0.3 µg/L. 2-methoxy-2,4,4-trimethylpentane 0.3 µg/L.
	05-17-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
Site 10	12-13-88	<0.20	0.90	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.
	05-17-89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	No other volatile compounds detected.

Table 16.--*Index of acid and base/neutral extractable organic compounds analyzed in event stream water-quality samples collected at unsteady, high stages in the High Point Lake watershed*

[Analyses in this table include tests for the following acid and base/neutral extractable organic compounds arranged numerically in table 16A by WATSTORE code]

Constituent	WATSTORE code
Acid extractables	
2,4,6-Trichlorophenol	34621
2,4-Dichlorophenol	34601
2,4-Dimethylphenol	34606
2,4-Dinitrophenol	34616
2-Chlorophenol	34586
2-Nitrophenol	34591
4,6-Dinitro-2-methylphenol	34657
4-Nitrophenol	34646
Parachlorometacresol	34452
Pentachlorophenol	39032
Phenol	34694
Base/neutral extractables	
1,2,4-Trichlorobenzene	34551
1,2,5,6-Dibenzanthracene	34556
1,2-Dichlorobenzene	34536
1,4-Dichlorobenzene	34571
1,3-Dichlorobenzene	34566
2,4-Dinitrotoluene	34611
2,6-Dinitrotoluene	34626
2-Chloronaphthalene	34581
4-Bromophenyl phenyl ether	34636
4-Chlorophenyl phenyl ether	34641
Acenaphthene	34205
Acenaphthylene	34200
Anthracene	34220
Benzo(a)anthracene	34526
Benzo(a)Pyrene	34247
Benzo(b)fluoranthene	34230
Benzo(g,h,i)perylene	34521
Benzo(k)fluoranthene	34242
bis(2-Chloroethyl) ether	34273
bis(2-Chloroethoxy) methane	34278
bis(2-Chloroisopropyl) ether	34283
bis(2-ethylhexyl) phthalate	39100
Chrysene	34320
Di-n-butyl phthalate	39110
Di-n-octyl phthalate	34596
Diethyl phthalate	34336
Dimethyl phthalate	34341
Discharge, instantaneous	00061
Fluoranthene	34376
Fluorene	34381
Gage height	00065
Hexachlorobenzene	39700
Hexachlorobutadiene	39702
Hexachlorocyclopentadiene	34386
Hexachloroethane	34396
Indeno(1,2,3-c,d)pyrene	34403
Isophorone	34408
N-Butyl benzyl phthalate	34292
N-Nitrosodimethylamine	34438
N-Nitrosodiphenylamine	34433
N-Nitrosodi-n-propylamine	34428
Naphthalene	34696
Nitrobenzene	34447
Phenanthrene	34461
Pyrene	34469

Table 16A.--*Results of analyses of acid and base/neutral extractable organic compounds in event stream water-quality samples collected at unsteady, high stages in the High Point Lake watershed*
[<, less than;--, no data]

SITE CODE (Fig. 1)	DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	ACE-NAPHTHY-LENE TOTAL (UG/L) (34200)	ACE-NAPH-THENE TOTAL (UG/L) (34205)	ANTHRA-CENE TOTAL (UG/L) (34220)	BENZO (B) FLUORAN-THENE TOTAL (UG/L) (34230)	BENZO (K) FLUORAN-THENE TOTAL (UG/L) (34242)	BENZO (A) PYRENE TOTAL (UG/L) (34247)	BIS (2-CHLORO-ETHYL) ETHER TOTAL (UG/L) (34273)
Site 2	02-21-89	1145	60	12.16	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0
	06-21-89	1540	--	--	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0
Site 4	02-21-89	1640	245	7.09	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0
Site 5	02-21-89	1445	482	2.71	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0
	06-21-89	1355	61	1.18	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0
Site 6	02-21-89	1545	52	9.42	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0

SITE CODE (Fig. 1)	DATE	TIME	BIS (2-CHLORO-ETHOXY) METHANE, TOTAL (UG/L) (34278)	BIS (2-CHLORO-ISO-PROPYL) ETHER, TOTAL (UG/L) (34283)	N-BUTYL BENZYL PHTHAL-ATE, TOTAL (UG/L) (34292)	CHRY-SENE, TOTAL (UG/L) (34320)	DIETHYL PHTHAL-ATE, TOTAL (UG/L) (34336)	DI-METHYL PHTHAL-ATE, TOTAL (UG/L) (34341)	FLUOR-ANTHENE, TOTAL (UG/L) (34376)	FLUOR-ENE, TOTAL (UG/L) (34381)	HEXA-CHLORO-CYCLO-PENTA-DIENE, TOTAL (UG/L) (34386)	HEXA-CHLORO-ETHANE, TOTAL (UG/L) (34396)
Site 2	02-21-89	1145	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	0.12	<5.0	<5.0	<5.0
	06-21-89	1540	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Site 4	02-21-89	1640	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	0.08	<5.0	<5.0	<5.0
Site 5	02-21-89	1445	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	0.13	<5.0	<5.0	<5.0
	06-21-89	1355	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Site 6	02-21-89	1545	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	0.10	<5.0	<5.0	<5.0

Table 16A.--*Results of analyses of acid and base/neutral extractable organic compounds in event stream water-quality samples collected at unsteady, high stages in the High Point Lake watershed*--Continued
[<, less than; --, no data]

SITE CODE (Fig. 1)	DATE	TIME	INDENO (1,2,3-C,D) PYRENE TOTAL (UG/L) (34403)	ISO-PHORONE TOTAL (UG/L) (34408)	N-NITROSODI-N-PROPYLAMINE TOTAL (UG/L) (34428)	N-NITROSODIPHENYLAMINE TOTAL (UG/L) (34433)	N-NITROSODIMETHYLAMINE TOTAL (UG/L) (34438)	NITROBENZENE TOTAL (UG/L) (34447)	PARA-CHLORO-META CRESOL TOTAL (UG/L) (34452)	PHENANTHRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	BENZO (G,H,I) PERYLENE TOTAL (UG/L) (34521)
Site 2	02-21-89	1145	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	0.07	0.12	<10.0
	06-21-89	1540	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0	<10.0
Site 4	02-21-89	1640	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	0.05	0.07	<10.0
Site 5	02-21-89	1445	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	0.06	0.12	<10.0
	06-21-89	1355	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0	<10.0
Site 6	02-21-89	1545	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	0.05	0.09	<10.0

SITE CODE (Fig. 1)	DATE	TIME	BENZO (A) ANTHRACENE, TOTAL (UG/L) (34526)	1,2-DICHLOROBENZENE, TOTAL (UG/L) (34536)	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L) (34551)	1,2,5,6-DIBENZANTHRACENE, TOTAL (UG/L) (34556)	1,3-DICHLOROBENZENE, TOTAL (UG/L) (34566)	1,4-DICHLOROBENZENE, TOTAL (UG/L) (34571)	2-CHLORONAPHTHALENE, TOTAL (UG/L) (34581)	2-CHLOROPHENOL, TOTAL (UG/L) (34586)	2-NITROPHENOL, TOTAL (UG/L) (34591)
Site 2	02-21-89	1145	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
	06-21-89	1540	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
Site 4	02-21-89	1640	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
Site 5	02-21-89	1445	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
	06-21-89	1355	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
Site 6	02-21-89	1545	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0

Table 16A.--*Results of analyses of acid and base/neutral extractable organic compounds in event stream water-quality samples collected at unsteady, high stages in the High Point Lake watershed*--Continued
[<, less than; --, no data]

SITE CODE (Fig. 1)	DATE	TIME	DI-N-OCTYL PHTHALATE TOTAL (UG/L) (34596)	2,4-DICHLOROPHENOL TOTAL (UG/L) (34601)	2,4-DIMETHYLPHENOL TOTAL (UG/L) (34606)	2,4-DINITROTOLUENE TOTAL (UG/L) (34611)	2,4,-DINITROPHENOL TOTAL (UG/L) (34616)	2,4,6-TRICHLOROPHENOL TOTAL (UG/L) (34621)	2,6-DINITROTOLUENE TOTAL (UG/L) (34626)	4-BROMOPHENYL PHENYL ETHER TOTAL (UG/L) (34636)	4-CHLOROPHENYL PHENYL ETHER TOTAL (UG/L) (34641)
Site 2	02-21-89	1145	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0
	06-21-89	1540	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0
Site 4	02-21-89	1640	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0
Site 5	02-21-89	1445	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0
	06-21-89	1355	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0
Site 6	02-21-89	1545	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0

SITE CODE (Fig. 1)	DATE	TIME	4-NITROPHENOL, TOTAL (UG/L) (34646)	4,6-DINITRO-ORTHO-CRESOL, TOTAL (UG/L) (34657)	PHENOL, TOTAL (UG/L) (34694)	NAPHTHALENE, TOTAL (UG/L) (34696)	PENTACHLOROPHENOL, TOTAL (UG/L) (39032)	BIS (2-ETHYL HEXYL) PHTHALATE, TOTAL (UG/L) (39100)	DI-N-BUTYL PHTHALATE, TOTAL (UG/L) (39110)	HEXACHLOROBENZENE, TOTAL (UG/L) (39700)	HEXACHLOROBUTADIENE, TOTAL (UG/L) (39702)
Site 2	02-21-89	1145	<30.0	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<5.0	<5.0
	06-21-89	1540	<30.0	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<5.0	<5.0
Site 4	02-21-89	1640	<30.0	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<5.0	<5.0
Site 5	02-21-89	1445	<30.0	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<5.0	<5.0
	06-21-89	1355	<30.0	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<5.0	<5.0
Site 6	02-21-89	1545	<30.0	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<5.0	<5.0

Table 17.--*Index of specific organic compounds analyzed in selected stream water-quality samples collected in the High Point Lake watershed*

[Analyses in this table include results of GC/FID scans and GC/MS analyses for the following specific organic compounds arranged alphabetically in table 17B]

Compounds
Alkanes, total
Alkenes/cycloalkanes, total
Atrazine
Benzaldehyde, 4-Hydroxy-3,5-dimethoxy-
Benzaldehyde, 4-Hydroxy-
Benzaldehyde, 4-Hydroxy-3-methoxy
Benzene, 1,2-dimethyl-
Benzene, 1,3-dimethyl-
Benzene, 1,4-dimethyl-
1,2 Benzisothiazole
1,3 Dihydro-2H-Indol-2-one
Heptadecane
Hexadecane
Hexadecane, 2,6,10,14-tetramethyl
Unspecified organic acid
Pentadecane
Phenol, 3-(1,1-dimethylethyl)-
Phenol, 4-(1,1-dimethylethyl)-
Siloxane
Sulfur
Unknown compounds

Table 17A.--*Results of analyses of specific organic compounds in selected stream water-quality samples in the High Point Lake watershed, identified by GC/FID scans*

[NA, not available due to lab contamination]

SITE CODE (Fig. 1)	DATE	TIME	TOTAL CONCENTRATIONS OF UNSPECIFIED CARBON COMPOUNDS (µg/L)
Site 1	12-13-88	1145	0
	05-18-89	1030	1.5
Site 2	12-15-88	1300	11.0
	05-01-89	2245	10.0
	05-18-89	0900	0
	09-22-89	0900	53.0
	10-30-89	1400	0
Site 3	12-15-88	1200	0.4
	05-19-89	0900	NA
	09-22-89	1530	1.0
	10-30-89	1010	11.0
Site 4	12-13-88	1345	0
	02-21-89	1245	1.2
	05-16-89	1400	9.0
	09-22-89	1030	2.8
	10-31-89	1400	1.2
Site 5	12-15-88	1015	5.3
	02-21-89	1030	2.0
	05-18-89	1215	0.6
	05-18-89	1230	0.5
	10-31-89	0845	0
Site 6	12-14-88	1430	0
	05-17-89	1200	0
	10-31-89	1105	0
Site 7	12-14-88	1200	0
	05-19-89	1045	0
Site 8	12-14-88	1030	0
	05-17-89	1030	1.7
Site 9	12-14-88	0930	4.0
	05-17-89	0830	10.0
Site 10	12-13-88	1500	0.7
	05-17-89	1330	0

Table 17B.--*Results of analyses of specific organic compounds in selected stream water-quality samples in the High Point lake watershed, identified by National Bureau of Standards library search of chromatographs from GC/MS analyses*
[--, not detected]

SITE CODE (Fig. 1)	DATE	TIME	ALKANES, TOTAL (µg/L)	ALKENES/ CYCLOALKANES, TOTAL (µg/L)	ATRAZINE (µg/L)	BENZALDEHYDE, 4-HYDROXY-3,5-DIMETHOXY (µg/L)	BENZALDEHYDE, 4-HYDROXY (µg/L)	BENZALDEHYDE, 4-HYDROXY-3-METHOXY (µg/L)	BENZENE, 1,2-DIMETHYL (µg/L)	BENZENE 1,3-DIMETHYL (µg/L)	BENZENE, 1,4-DIMETHYL (µg/L)	BENZISOTHIAZOLE, 1,2 (µg/L)
Site 2	02-21-89	1145	1.3	0.1	--	--	--	0.3	--	--	--	--
	06-21-89	1540	6.6	1.0	--	--	--	--	--	--	--	--
Site 4	02-21-89	1640	2.7	0.5	--	--	--	0.5	--	--	--	--
Site 5	02-21-89	1445	2.7	0.3	--	0.2	0.2	0.3	0.5	0.2	1.0	--
	06-21-89	1355	--	--	--	--	--	--	--	--	--	0.3
Site 6	02-21-89	1545	2.9	0.5	0.4	--	--	0.3	--	--	--	--

SITE CODE (Fig. 1)	DATE	TIME	1,3-DIHYDRO-2H-INDOL-2-ONE (µg/L)	HEPTADECANE (µg/L)	HEXADECANE (µg/L)	HEXADECANE, 2,6,10,14-TETRAMETHYL (µg/L)	ORGANIC ACID (µg/L)	PENTADECANE (µg/L)	PHENOL, 3-(1,1-DIMETHYLETHYL) (µg/L)	PHENOL 4-(1,1-DIMETHYLETHYL) (µg/L)	SILOXANE (µg/L)	SULFUR (µg/L)	UNKNOWN (µg/L)
Site 2	02-21-89	1145	--	--	--	--	0.2	--	--	0.9	--	--	--
	06-21-89	1540	--	0.6	1.0	1.0	--	--	--	--	--	0.3	1.2
Site 4	02-21-89	1640	--	--	--	--	--	--	--	--	--	--	--
Site 5	02-21-89	1445	0.4	0.4	--	--	--	--	--	--	--	--	0.6
	06-21-89	1355	--	--	--	--	--	--	--	--	0.2	--	--
Site 6	02-21-89	1545	--	0.6	0.5	--	--	0.7	0.4	--	--	--	--

Table 18.--*Index of measurements of water temperature, pH, specific conductance, and dissolved-oxygen depth profiles in Oak Hollow and High Point Lakes*

[Analyses in this table include the following measurements arranged numerically in table 18A by WATSTORE code]

	WATSTORE code
Depth at sample location	81903
Dissolved oxygen	00300
pH	00400
Sampling depth	00003
Specific conductance	00095
Water temperature	00010

Table 18A.--*Results of measurements of water temperature, pH, specific conductance, and dissolved-oxygen depth profiles in Oak Hollow and High Point Lakes*
[--, no data]

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	PH (STANDARD UNITS) (00400)
Site A	02-10-89	1001	1.00	13.0	6.0	--	11.2	--
	02-10-89	1002	4.00	13.0	6.0	--	11.3	--
	02-10-89	1000	7.00	13.0	6.0	98	11.5	7.3
	02-10-89	1003	10.0	13.0	6.0	--	11.7	--
	05-24-89	1246	1.00	12.7	23.5	--	9.5	--
	05-24-89	1247	4.00	12.7	23.0	--	9.3	--
	05-24-89	1245	6.00	12.7	23.5	82	9.3	7.1
	05-24-89	1248	7.00	12.7	20.0	--	7.5	--
	05-24-89	1249	10.0	12.7	17.0	--	2.6	--
	08-03-89	1500	1.50	3.00	--	--	--	--
	08-03-89	1501	1.00	3.00	30.5	93	8.3	8.0
	08-03-89	1502	2.00	3.00	29.0	92	8.4	8.0
	10-05-89	1320	1.00	2.89	22.0	81	11.4	8.1
	10-05-89	1321	1.50	2.89	21.0	84	11.5	8.2
Site B	02-10-89	1301	1.00	11.0	6.0	--	12.0	--
	02-10-89	1302	4.00	11.0	6.0	--	11.9	--
	02-10-89	1300	5.00	11.0	--	99	--	7.5
	02-10-89	1303	7.00	11.0	6.0	--	11.8	--
	02-10-89	1304	10.0	11.0	6.0	--	11.8	--
	05-26-89	1101	1.00	12.0	23.0	--	9.5	--
	05-26-89	1102	4.00	12.0	22.5	--	8.7	--
	05-26-89	1100	6.00	12.0	--	72	--	7.4
	05-26-89	1103	7.00	12.0	22.0	--	8.0	--
	05-26-89	1104	10.0	12.0	19.5	--	4.3	--
	05-26-89	1105	12.0	12.0	19.0	--	3.9	--
	08-03-89	1531	1.00	4.00	31.0	92	7.9	8.0
	08-03-89	1530	2.00	4.00	29.0	92	8.0	8.2
	08-03-89	1532	3.00	4.00	28.5	92	8.2	8.1
	10-05-89	1345	1.00	3.00	22.0	79	10.0	7.3
	10-05-89	1346	2.00	3.00	21.0	81	9.8	7.2
Site C	02-14-89	1301	1.00	6.00	8.0	--	10.7	--
	02-14-89	1302	4.00	6.00	7.5	--	10.8	--
	02-14-89	1303	6.00	6.00	7.0	--	10.9	--
	06-01-89	1501	1.00	11.7	34.0	74	7.5	8.5
	06-01-89	1502	4.00	11.7	29.5	74	8.4	8.8

Table 18A.--*Results of measurements of water temperature, pH, specific conductance, and dissolved-oxygen depth profiles in Oak Hollow and High Point Lakes*--Continued
[--, no data]

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	PH (STANDARD UNITS) (00400)
Site C	06-01-89	1500	6.00	11.7	--	--	--	7.5
	06-01-89	1503	7.00	11.7	27.5	74	7.0	7.6
	06-01-89	1504	10.0	11.7	26.5	74	7.9	7.5
	08-03-89	1401	1.00	11.0	29.5	87	7.2	7.6
	08-03-89	1402	4.00	11.0	28.5	86	7.5	7.8
	08-03-89	1403	7.00	11.0	28.0	88	7.8	7.9
	08-03-89	1404	10.0	11.0	27.5	85	7.4	7.4
	10-05-89	1246	1.00	9.57	21.0	85	9.5	7.7
	10-05-89	1245	4.00	9.57	19.5	84	9.4	7.5
	10-05-89	1247	7.00	9.57	19.5	84	9.4	7.5
Site D	02-09-89	1401	1.00	11.0	5.0	--	11.3	--
	02-09-89	1402	4.00	11.0	5.0	--	11.3	--
	02-09-89	1400	5.00	11.0	--	95	--	7.1
	02-09-89	1403	7.00	11.0	5.0	--	11.3	--
	02-09-89	1404	10.0	11.0	5.0	--	11.4	--
	05-26-89	0901	1.00	10.9	24.5	--	8.9	--
	05-26-89	0902	4.00	10.9	24.0	--	7.8	--
	05-26-89	0900	5.00	10.9	--	85	7.5	7.1
	05-26-89	0903	7.00	10.9	24.0	--	6.9	--
	05-26-89	0904	8.50	10.9	--	--	6.4	--
	05-26-89	0905	9.00	10.9	22.5	--	0	--
	08-03-89	1431	1.00	4.00	30.0	90	7.7	7.5
	08-03-89	1430	2.00	4.00	28.5	88	7.7	7.8
	08-03-89	1432	3.00	4.00	27.5	88	7.7	7.8
	10-05-89	1046	1.00	6.22	19.0	79	6.4	6.2
	10-05-89	1047	4.00	6.22	15.0	76	7.6	6.7
Site E	02-09-89	1116	1.00	22.0	7.0	--	10.3	--
	02-09-89	1117	4.00	22.0	7.0	--	10.3	--
	02-09-89	1118	7.00	22.0	7.0	--	10.3	--
	02-09-89	1115	10.0	22.0	7.0	98	10.5	--
	02-09-89	1119	13.0	22.0	7.0	--	10.5	--
	02-09-89	1120	16.0	22.0	7.0	--	10.6	--
	02-09-89	1121	19.0	22.0	7.0	--	10.7	--
	05-25-89	1146	1.00	19.0	23.0	--	6.8	--
	05-25-89	1147	4.00	19.0	--	--	5.8	--
	05-25-89	1148	7.00	19.0	20.5	--	5.2	--

Table 18A.--*Results of measurements of water temperature, pH, specific conductance, and dissolved-oxygen depth profiles in Oak Hollow and High Point Lakes*--Continued
[--, no data]

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	PH (STANDARD UNITS) (00400)
Site E	05-25-89	1145	10.0	19.0	19.0	87	4.4	7.0
	05-25-89	1149	13.0	19.0	18.5	--	3.4	--
	05-25-89	1150	16.0	19.0	18.0	--	2.5	--
	05-25-89	1151	19.0	19.0	18.0	--	--	--
	08-01-89	1316	1.00	6.50	28.0	100	7.1	6.9
	08-01-89	1317	4.00	6.50	27.5	100	6.1	6.8
	08-01-89	1318	5.00	6.50	27.5	100	5.8	6.8
	10-02-89	1601	1.00	4.00	20.0	79	8.0	6.5
	10-02-89	1602	4.00	4.00	20.0	86	7.7	6.5
Site F	02-09-89	1201	1.00	18.0	6.5	--	10.2	--
	02-09-89	1202	4.00	18.0	6.5	--	10.2	--
	02-09-89	1203	7.00	18.0	6.5	--	10.2	--
	02-09-89	1200	10.0	18.0	6.5	114	10.1	7.3
	02-09-89	1204	13.0	18.0	6.5	--	10.1	--
	02-09-89	1205	16.0	18.0	6.5	--	10.2	--
	05-25-89	0931	1.00	18.7	22.5	--	9.1	--
	05-25-89	0932	4.00	18.7	22.0	--	7.4	--
	05-25-89	0933	7.00	18.7	19.5	--	5.5	--
	05-25-89	0930	9.00	18.7	--	90	--	6.8
	05-25-89	0934	10.0	18.7	19.0	--	4.3	--
	05-25-89	0935	13.0	18.7	18.5	--	2.5	--
	05-25-89	0936	16.0	18.7	17.0	--	1.3	--
	08-01-89	1401	1.00	14.6	28.0	100	6.8	7.0
	08-01-89	1402	4.00	14.6	28.0	102	6.9	7.0
	08-01-89	1400	7.00	14.6	27.5	102	2.9	6.3
	08-01-89	1403	10.0	14.6	27.5	102	3.0	6.3
	08-01-89	1404	12.0	14.6	26.0	110	4.5	6.5
	10-02-89	1446	1.00	15.5	19.5	63	7.1	6.3
	10-02-89	1447	4.00	15.5	19.5	66	6.8	6.4
	10-02-89	1445	7.00	15.5	19.0	65	6.8	6.5
	10-02-89	1448	10.0	15.5	19.0	65	6.5	6.5
	10-02-89	1449	13.0	15.5	18.5	63	6.6	6.5
	10-02-89	1450	15.0	15.5	20.0	63	5.7	6.5
Site G	02-14-89	1401	1.00	37.0	8.0	113	10.6	7.3
	02-14-89	1402	4.00	37.0	7.5	102	10.6	7.3
	02-14-89	1403	7.00	37.0	7.5	99	10.7	7.3
	02-14-89	1404	10.0	37.0	7.0	101	10.6	7.4
	02-14-89	1405	13.0	37.0	7.0	98	10.4	7.4

Table 18A.--*Results of measurements of water temperature, pH, specific conductance, and dissolved-oxygen depth profiles in Oak Hollow and High Point Lakes*--Continued
[--, no data]

SITE CODE (Fig. 1)	DATE	TIME	SAMP-LING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCA-TION, TOTAL (FEET) (81903)	TEMPER-ATURE WATER (DEG C) (00010)	SPECIFIC CONDUC-TANCE (US/CM) (00095)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH (STAN-DARD UNITS) (00400)
Site G	02-14-89	1406	16.0	37.0	7.0	100	10.2	7.4
	02-14-89	1407	19.0	37.0	7.0	97	10.2	7.4
	02-14-89	1408	22.0	37.0	7.0	95	10.2	7.4
	02-14-89	1409	25.0	37.0	7.0	94	10.2	7.5
	02-14-89	1410	28.0	37.0	7.0	97	10.2	7.4
	02-14-89	1411	31.0	37.0	7.0	95	10.2	7.5
	02-14-89	1412	34.0	37.0	7.0	93	10.2	7.4
	02-14-89	1413	37.0	37.0	7.0	--	--	--
	06-01-89	1101	1.00	32.6	28.5	81	8.6	8.7
	06-01-89	1102	4.00	32.6	28.0	81	8.8	8.8
	06-01-89	1103	7.00	32.6	26.0	80	8.4	8.5
	06-01-89	1100	10.0	32.5	24.0	79	6.6	7.5
	06-01-89	1104	13.0	32.6	22.0	80	3.5	7.2
	06-01-89	1105	16.0	32.6	18.0	79	1.5	7.1
	06-01-89	1130	19.0	32.6	16.5	79	0.9	7.1
	06-01-89	1107	22.0	32.6	15.0	84	0.3	7.1
	06-01-89	1108	25.0	32.6	14.5	87	0	7.2
	06-01-89	1109	28.0	32.6	14.0	90	0	7.3
	06-01-89	1110	31.0	32.6	13.5	90	0	7.3
	08-03-89	1016	1.00	33.5	28.0	87	6.9	7.1
	08-03-89	1017	4.00	33.5	27.5	86	7.0	7.2
	08-03-89	1018	7.00	33.5	27.5	86	7.0	7.2
	08-03-89	1015	10.0	33.5	27.5	84	6.5	7.0
	08-03-89	1019	13.0	33.5	25.5	89	0	6.1
	08-03-89	1020	16.0	33.5	22.0	105	0	6.3
	08-03-89	1021	19.0	33.5	18.5	126	0	6.5
	08-03-89	1022	22.0	33.5	16.5	122	0	6.7
	08-03-89	1023	25.0	33.5	15.0	125	0	7.0
	08-03-89	1024	28.0	33.5	13.5	134	0	7.1
	08-03-89	1025	31.0	33.5	13.0	157	0	7.3
	08-03-89	1026	33.5	33.5	13.0	163	0	7.3
	10-04-89	1259	1.00	38.0	21.5	84	8.9	7.9
	10-04-89	1302	4.00	38.0	21.0	84	8.9	7.8
	10-04-89	1300	7.00	38.0	20.5	83	8.6	7.4
	10-04-89	1303	8.00	38.0	20.5	83	8.6	7.4
	10-04-89	1304	9.00	38.0	20.5	82	7.5	7.2
	10-04-89	1315	10.0	38.0	20.0	81	5.4	6.7
	10-04-89	1305	13.0	38.0	19.0	78	4.5	6.5
	10-04-89	1306	16.0	38.0	19.0	75	4.5	6.4
	10-04-89	1307	18.0	38.0	18.5	73	3.5	6.4

Table 18A.--*Results of measurements of water temperature, pH, specific conductance, and dissolved-oxygen depth profiles in Oak Hollow and High Point Lakes*--Continued
[--, no data]

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	PH (STANDARD UNITS) (00400)
Site G	10-04-89	1308	19.0	38.0	18.5	77	2.7	6.4
	10-04-89	1309	20.0	38.0	18.5	75	2.6	6.4
	10-04-89	1330	21.0	38.0	18.5	72	3.4	6.3
	10-04-89	1310	22.0	38.0	18.5	76	3.6	6.3
	10-04-89	1311	25.0	38.0	18.0	63	2.8	6.3
	10-04-89	1312	26.0	38.0	18.0	69	1.7	6.4
	10-04-89	1313	27.0	38.0	17.5	79	0	6.5
	10-04-89	1345	28.0	38.0	18.0	90	0	6.5
	10-04-89	1314	31.0	38.0	16.5	135	0	6.9
	10-04-89	1316	34.0	38.0	15.5	171	0	7.2
Site H	02-15-89	1301	1.00	23.0	8.0	114	10.9	7.5
	02-15-89	1302	4.00	23.0	8.0	121	10.8	7.4
	02-15-89	1303	7.00	23.0	7.5	128	10.8	7.4
	02-15-89	1304	10.0	23.0	8.0	125	10.6	7.4
	02-15-89	1305	13.0	23.0	7.0	126	9.7	7.5
	02-15-89	1306	16.0	23.0	6.5	114	9.3	7.5
	02-15-89	1307	19.0	23.0	6.5	113	9.1	7.5
	02-15-89	1308	22.0	23.0	6.5	115	9.0	7.5
	06-02-89	1101	1.00	31.8	27.5	93	7.6	7.8
	06-02-89	1102	4.00	31.8	25.5	90	7.2	7.2
	06-02-89	1103	7.00	31.8	25.0	89	4.7	6.9
	06-02-89	1104	10.0	31.8	24.0	89	3.9	6.7
	06-02-89	1105	13.0	31.8	23.0	91	3.6	6.7
	06-02-89	1106	16.0	31.8	22.5	91	3.5	6.7
	06-02-89	1100	19.0	31.8	21.5	95	3.3	6.6
	06-02-89	1107	22.0	31.8	20.5	89	2.5	6.6
	06-02-89	1108	25.0	31.8	21.0	95	1.8	6.6
	08-01-89	1501	1.00	31.0	27.5	98	5.5	6.8
	08-01-89	1500	4.00	31.0	27.5	98	4.9	6.8
	08-01-89	1502	7.00	31.0	27.5	97	4.9	6.8
	08-01-89	1515	10.0	31.0	27.5	98	4.2	6.7
	08-01-89	1503	13.0	31.0	27.5	98	3.9	6.7
	08-01-89	1504	16.0	31.0	27.5	98	3.4	6.6
	08-01-89	1505	19.0	31.0	28.0	95	0.4	6.4
	08-01-89	1506	22.0	31.0	28.0	96	0.5	6.4

Table 18A.--*Results of measurements of water temperature, pH, specific conductance, and dissolved-oxygen depth profiles in Oak Hollow and High Point Lakes*--Continued
[--, no data]

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	PH (STANDARD UNITS) (00400)
Site H	08-01-89	1507	25.0	31.0	27.5	112	0	6.4
	08-01-89	1508	28.0	31.0	27.5	112	0	6.4
	08-01-89	1509	30.0	31.0	27.0	226	0	6.6
	08-01-89	1510	31.0	31.0	27.0	121	0	6.5
	10-03-89	1402	1.00	30.0	22.5	85	8.5	7.2
	10-03-89	1403	4.00	30.0	21.0	85	8.3	7.0
	10-03-89	1400	7.00	30.0	20.5	83	8.3	6.8
	10-03-89	1404	10.0	30.0	20.0	81	8.3	6.8
	10-03-89	1405	13.0	30.0	19.5	77	8.0	6.6
	10-03-89	1406	16.0	30.0	19.5	76	8.0	6.6
	10-03-89	1430	19.0	30.0	19.5	73	7.8	6.6
	10-03-89	1407	22.0	30.0	19.5	72	7.7	6.6
	10-03-89	1408	25.0	30.0	19.5	71	7.4	6.6
	10-03-89	1409	28.0	30.0	19.0	69	7.2	6.6
	10-03-89	1410	30.0	30.0	19.0	68	7.1	6.6

Table 19.--*Index of turbidity, color, and total organic carbon analyzed in water samples from Oak Hollow and High Point Lakes, and barometric pressure measurements*

[Analyses in this table include tests for the following properties and site characteristics arranged numerically in table 19A by WATSTORE code]

	WATSTORE code
Barometric pressure	00025
Color	00080
Depth at sample location	81903
Sampling depth	00003
Total organic carbon	00680
Turbidity	00076

Table 19A.--*Results of analyses of turbidity, color, and total organic carbon in water samples from Oak Hollow and High Point Lakes, and barometric pressure measurements*
[--, no data]

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	BAROMETRIC PRESSURE (MM OF HG) (00025)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
Site A	02-10-89	1000	7.00	13.0	748	14	25	5.4
	05-24-89	1245	6.00	12.7	740	23	140	8.0
	08-03-89	1500	1.50	3.00	--	6.7	42	5.9
	10-05-89	1320	1.00	2.89	--	12	55	8.3
Site B	02-10-89	1300	5.00	11.0	747	12	26	4.9
	05-26-89	1100	6.00	12.0	738	9.4	55	6.4
	08-03-89	1530	2.00	4.00	--	7.9	32	5.7
	10-05-89	1345	1.00	3.00	--	18	65	9.9
Site C	02-14-89	1300	3.00	6.00	748	8.2	24	4.8
	06-01-89	1500	6.00	11.7	--	1.7	35	6.2
	08-03-89	1400	6.00	11.0	--	3.5	27	4.7
	10-05-89	1245	4.00	9.57	740	10	20	6.1

Table 19A.--*Results of analyses of turbidity, color, and total organic carbon in water samples from Oak Hollow and High Point Lakes, and barometric pressure measurements*--Continued
[--, no data]

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	BAROMETRIC PRESSURE (MM OF HG) (00025)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
Site D	02-09-89	1400	5.00	11.0	751	28	70	4.0
	05-26-89	0900	5.00	10.9	738	--	--	5.6
	08-03-89	1430	2.00	4.00	--	8.0	38	5.3
	10-05-89	1045	1.50	6.22	741	74	150	7.2
Site E	02-09-89	1115	10.0	22.0	755	0.50	1	0.2
	05-25-89	1145	10.0	19.0	--	16	65	5.5
	08-01-89	1315	3.00	6.50	742	4.5	32	5.4
	08-01-89	1330	3.00	6.50	740	3.7	35	5.6
	10-02-89	1600	2.00	4.00	--	17	55	6.0
Site F	02-09-89	1200	10.0	18.0	755	20	45	5.6
	05-25-89	0930	9.00	18.7	740	16	60	7.6
	05-25-89	0945	9.00	18.7	740	16	55	6.0
	08-01-89	1400	7.00	14.6	--	3.4	25	5.2
	10-02-89	1445	7.00	15.5	737	92	280	11
Site G	02-14-89	1400	--	37.0	750	9.2	24	4.5
	06-01-89	1115	5.00	32.6	--	4.8	30	6.4
	06-01-89	1130	19.0	32.6	--	26	120	5.5
	08-03-89	1000	5.00	33.5	740	1.9	35	--
	08-03-89	1015	10.0	33.5	740	--	--	4.8
	08-03-89	1030	20.0	33.5	740	24	130	--
	10-04-89	1300	7.00	38.0	741	5.7	25	5.5
	10-04-89	1315	10.0	38.0	741	17	55	6.7
	10-04-89	1330	21.0	38.0	741	56	120	9.5
	10-04-89	1345	28.0	38.0	741	36	80	6.8
Site H	02-15-89	1200	--	23.0	--	12	33	4.5
	02-15-89	1300	--	23.0	750	13	36	4.6
	06-02-89	1030	6.00	31.8	--	8.4	50	6.5
	06-02-89	1100	19.0	31.8	--	13	55	5.8
	08-01-89	1500	4.00	31.0	--	5.3	55	--
	08-01-89	1515	10.0	31.0	--	--	--	5.4
	08-01-89	1530	20.0	31.0	--	12	40	--
	10-03-89	1400	7.00	30.0	739	36	90	7.7
	10-03-89	1401	7.00	30.0	739	37	100	7.4
	10-03-89	1415	14.0	30.0	739	51	140	8.4
	10-03-89	1430	19.0	30.0	739	75	130	9.3
	10-03-89	1431	19.0	30.0	739	78	140	9.5

Table 20.--*Index of nutrients analyzed in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*

[Analyses in this table include tests for the following nutrients arranged numerically in table 20A by WATSTORE code]

Nutrients	WATSTORE code
Ammonia nitrogen as N	00610
Ammonia nitrogen as NH_4	71845
Ammonia plus organic nitrogen as N	00625
Depth at sample location	81903
Nitrate nitrogen as N	00620
Nitrite nitrogen as N	00615
Nitrite plus nitrate nitrogen as N	00630
Nitrogen as N	00600
Nitrogen as NO_3	71887
Organic nitrogen as N	00605
Orthophosphorus as P	70507
Phosphate as PO_4	00650
Phosphorus as P	00665
Sampling depth	00003

Table 20A.--*Results of analyses of nutrients in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
Site A	02-10-89	1000	7.00	13.0	0.70	0.58	0.020	0.010	0.090
	05-24-89	1245	6.00	12.7	0.70	0.49	0.110	0.010	0.090
	08-03-89	1500	1.50	3.00	--	--	<0.010	<0.010	--
	10-05-89	1320	1.00	2.89	--	1.7	0.010	0.020	--
Site B	02-10-89	1300	5.00	11.0	0.90	--	<0.010	0.010	0.190
	05-26-89	1100	6.00	12.0	0.60	0.49	0.010	0.010	0.090
	08-03-89	1530	2.00	4.00	--	--	<0.010	<0.010	--
	10-05-89	1345	1.00	3.00	--	1.4	0.020	0.030	--
Site C	02-14-89	1300	3.00	6.00	0.80	0.54	0.060	<0.010	--
	06-01-89	1500	6.00	11.7	--	0.38	0.020	<0.010	--
	08-03-89	1400	6.00	11.0	--	--	<0.010	<0.010	--
	10-05-89	1245	4.00	9.57	--	0.79	0.010	0.010	--
Site D	02-09-89	1400	5.00	11.0	0.80	0.44	0.060	0.010	0.290
	05-26-89	0900	5.00	10.9	0.50	0.26	0.040	0.010	0.190
	08-03-89	1430	2.00	4.00	--	--	<0.010	<0.010	--
	10-05-89	1045	1.50	6.22	0.80	0.55	0.050	0.040	0.160
Site E	02-09-89	1115	10.0	22.0	--	--	<0.010	<0.010	--
	05-25-89	1145	10.0	19.0	0.60	0.37	0.130	0.010	0.090
	08-01-89	1315	3.00	6.50	--	--	<0.010	<0.010	--
	08-01-89	1330	3.00	6.50	--	--	<0.010	<0.010	--
	10-02-89	1600	2.00	4.00	--	0.77	0.030	0.010	--
Site F	02-09-89	1200	10.0	18.0	0.60	0.35	0.050	0.010	0.190
	05-25-89	0930	9.00	18.7	0.70	0.47	0.130	0.020	0.080
	05-25-89	0945	9.00	18.7	0.50	0.28	0.120	0.020	0.080
	08-01-89	1400	7.00	14.6	--	--	<0.010	<0.010	--
	10-02-89	1445	7.00	15.5	1.0	0.78	0.020	0.050	0.150
Site G	06-01-89	1115	5.00	32.6	--	0.28	0.020	<0.010	--
	06-01-89	1130	19.0	32.6	0.80	0.39	0.110	0.010	0.290
	08-03-89	1000	5.00	33.5	--	--	<0.010	<0.010	--
	08-03-89	1030	20.0	33.5	--	1.3	0.040	<0.010	--
	10-04-89	1300	7.00	38.0	--	0.27	0.030	0.010	--
	10-04-89	1315	10.0	38.0	--	0.34	0.060	0.020	--
	10-04-89	1330	21.0	38.0	0.80	0.51	0.090	0.040	0.160
	10-04-89	1345	28.0	38.0	--	0.58	0.420	0.020	--
Site H	02-15-89	1200	--	23.0	0.70	0.47	0.030	<0.010	--
	02-15-89	1300	--	23.0	0.90	0.67	0.030	<0.010	--
	06-02-89	1030	6.00	31.8	--	0.81	0.090	0.010	--
	06-02-89	1100	19.0	31.8	0.70	0.42	0.180	0.020	0.080
	08-01-89	1500	4.00	31.0	--	--	<0.010	<0.010	--
	08-01-89	1530	20.0	31.0	--	0.29	0.010	<0.010	--
	10-03-89	1400	7.00	30.0	0.70	0.55	0.050	0.020	0.080
	10-03-89	1401	7.00	30.0	0.70	0.54	0.060	0.020	0.080
	10-03-89	1415	14.0	30.0	0.70	0.55	0.050	0.020	0.080
	10-03-89	1430	19.0	30.0	0.90	0.73	0.070	0.030	0.070
	10-03-89	1431	19.0	30.0	0.90	0.73	0.070	0.030	0.070

Table 20A.--*Results of analyses of nutrients in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHATE, TOTAL (MG/L AS PO4) (00650)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4) (71845)	NITROGEN, TOTAL (MG/L AS NO3) (71887)
Site A	02-10-89	1000	0.60	0.100	0.03	0.040	0.010	0.03	3.1
	05-24-89	1245	0.60	0.100	--	0.050	<0.010	0.14	3.1
	08-03-89	1500	2.1	<0.100	0.06	0.060	0.020	--	--
	10-05-89	1320	1.7	<0.100	0.15	0.120	0.050	0.01	--
Site B	02-10-89	1300	0.70	0.200	0.03	0.050	0.010	--	4.0
	05-26-89	1100	0.50	0.100	--	0.020	<0.010	0.01	2.7
	08-03-89	1530	0.70	<0.100	--	0.040	<0.010	--	--
	10-05-89	1345	1.4	<0.100	0.18	0.090	0.060	0.03	--
Site C	02-14-89	1300	0.60	0.200	--	0.030	<0.010	0.08	3.5
	06-01-89	1500	0.40	<0.100	--	0.030	<0.010	0.03	--
	08-03-89	1400	0.60	<0.100	--	0.030	<0.010	--	--
	10-05-89	1245	0.80	<0.100	0.12	0.040	0.040	0.01	--
Site D	02-09-89	1400	0.50	0.300	0.06	0.060	0.020	0.08	3.5
	05-26-89	0900	0.30	0.200	--	0.090	<0.010	0.05	2.2
	08-03-89	1430	0.40	<0.100	0.06	0.060	0.020	--	--
	10-05-89	1045	0.60	0.200	0.25	0.080	0.080	0.06	3.5
Site E	02-09-89	1115	<0.20	<0.100	--	<0.010	<0.010	--	--
	05-25-89	1145	0.50	0.100	--	0.030	<0.010	0.17	2.7
	08-01-89	1315	0.80	<0.100	0.06	0.030	0.020	--	--
	08-01-89	1330	0.40	<0.100	--	0.040	<0.010	--	--
	10-02-89	1600	0.80	<0.100	0.12	0.050	0.040	0.04	--
Site F	02-09-89	1200	0.40	0.200	--	0.050	<0.010	0.06	2.7
	05-25-89	0930	0.60	0.100	--	0.040	<0.010	0.17	3.1
	05-25-89	0945	0.40	0.100	--	0.030	<0.010	0.15	2.2
	08-01-89	1400	0.50	<0.100	--	0.030	<0.010	--	--
	10-02-89	1445	0.80	0.200	0.58	0.190	0.190	0.03	4.4
Site G	06-01-89	1115	0.30	<0.100	--	0.030	<0.010	0.03	--
	06-01-89	1130	0.50	0.300	0.06	0.040	0.020	0.14	3.5
	08-03-89	1000	0.30	<0.100	--	0.020	<0.010	--	--
	08-03-89	1030	1.3	<0.100	--	0.030	<0.010	0.05	--
	10-04-89	1300	0.30	<0.100	0.06	0.050	0.020	0.04	--
	10-04-89	1315	0.40	<0.100	0.09	0.040	0.030	0.08	--
	10-04-89	1330	0.60	0.200	0.15	0.090	0.050	0.12	3.5
	10-04-89	1345	1.0	<0.100	0.12	0.080	0.040	0.54	--
Site H	02-15-89	1200	0.50	0.200	--	0.040	<0.010	0.04	3.1
	02-15-89	1300	0.70	0.200	--	0.040	<0.010	0.04	4.0
	06-02-89	1030	0.90	<0.100	--	0.030	<0.010	0.12	--
	06-02-89	1100	0.60	0.100	--	0.030	<0.010	0.23	3.1
	08-01-89	1500	0.40	<0.100	0.03	0.060	0.010	--	--
	08-01-89	1530	0.30	<0.100	--	0.050	<0.010	0.01	--
	10-03-89	1400	0.60	0.100	0.15	0.100	0.050	0.06	3.1
	10-03-89	1401	0.60	0.100	0.15	0.130	0.050	0.08	3.1
	10-03-89	1415	0.60	0.100	0.21	0.140	0.070	0.06	3.1
	10-03-89	1430	0.80	0.100	0.28	0.100	0.090	0.09	4.0
	10-03-89	1431	0.80	0.100	0.28	0.090	0.090	0.09	4.0

Table 21.--*Index of selected ions analyzed in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*

[Analyses in this table include tests for the following selected ions arranged numerically in table 21A by WATSTORE code; ---, no analyses performed]

Constituent	WATSTORE codes Total	Dissolved
Alkalinity as $CaCO_3$	---	39086
Bicarbonate as HCO_3	---	00453
Bromide	---	71870
Calcium	---	00915
Chloride	---	00940
Depth at sample location	81903	---
Fluoride	---	00950
Hardness as $CaCO_3$	00900	---
Iron	---	01046
Magnesium	---	00925
Manganese	---	01056
Potassium	---	00935
Sampling depth	00003	---
Silica	---	00955
Sodium	---	00930
Sulfate	---	00945

Table 21A.--*Results of analyses of selected ions in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
Site A	05-24-89	1245	6.00	12.7	27	25	6.2	2.4	4.9	1.9
Site B	05-26-89	1100	6.00	12.0	24	24	6.0	2.3	4.5	2.1
Site C	06-01-89	1500	6.00	11.7	34	24	5.9	2.2	4.5	2.1
Site D	05-26-89	0900	5.00	10.9	29	27	6.8	2.5	5.7	2.1
Site E	05-25-89	1145	10.0	19.0	27	30	7.5	2.8	4.3	2.1
Site F	05-25-89	0930	9.00	18.7	46	31	7.7	2.9	4.2	2.2
	05-25-89	0945	9.00	18.7	--	31	7.7	2.8	4.2	2.2
Site G	02-14-89	1400	--	37.0	34	30	7.4	2.8	5.7	2.2
	06-01-89	1115	5.00	32.6	34	24	5.8	2.2	4.5	2.1
	06-01-89	1130	19.0	32.6	24	25	6.2	2.3	4.5	2.1
	08-03-89	1000	5.00	33.5	15	26	6.3	2.5	4.9	1.3
	08-03-89	1030	20.0	33.5	44	29	7.5	2.6	4.8	1.7
	10-04-89	1300	7.00	38.0	4	26	6.3	2.4	4.1	2.4
	10-04-89	1315	10.0	38.0	3	26	6.1	2.5	4.0	2.6
	10-04-89	1330	21.0	38.0	24	23	5.5	2.2	3.5	3.0
	10-04-89	1345	28.0	38.0	61	31	7.9	2.8	4.2	2.8
Site H	02-15-89	1200	--	23.0	--	39	9.6	3.6	6.0	2.3
	02-15-89	1300	--	23.0	41	39	9.7	3.7	6.1	2.4
	06-02-89	1030	6.00	31.8	51	33	8.4	2.9	4.6	2.2
	06-02-89	1100	19.0	31.8	49	32	8.1	2.8	4.4	2.2
	08-01-89	1500	4.00	31.0	3	34	8.6	3.0	4.8	0.75
	08-01-89	1530	20.0	31.0	32	35	8.6	3.2	5.0	1.0
	10-03-89	1400	7.00	30.0	4	27	6.5	2.5	3.8	2.7
	10-03-89	1401	7.00	30.0	--	26	6.4	2.5	3.8	2.7
	10-03-89	1415	14.0	30.0	49	26	6.3	2.4	3.5	2.8
	10-03-89	1430	19.0	30.0	27	24	6.0	2.3	3.3	2.9
	10-03-89	1431	19.0	30.0	--	24	6.0	2.3	3.2	2.9

Table 21A.--*Results of analyses of selected ions in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*--Continued
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BROMIDE DISSOLVED (MG/L AS BR) (71870)
Site A	05-24-89	1245	5.0	6.7	0.15	8.6	310	83	22	<0.010
Site B	05-26-89	1100	5.3	6.7	0.14	7.0	170	2	20	<0.010
Site C	06-01-89	1500	5.1	6.9	0.16	6.7	100	1	28	0.020
Site D	05-26-89	0900	7.0	6.2	0.16	9.9	270	6	24	<0.010
Site E	05-25-89	1145	4.9	7.4	0.15	9.5	270	22	22	0.020
Site F	05-25-89	0930	4.8	7.3	0.14	10	170	4	38	0.020
	05-25-89	0945	4.9	7.1	0.16	9.9	120	4	--	0.020
Site G	02-14-89	1400	6.1	7.2	0.18	11	98	3	28	<0.010
	06-01-89	1115	6.3	7.1	0.16	6.4	110	<1	28	<0.010
	06-01-89	1130	5.1	6.8	0.16	9.4	200	180	20	<0.010
	08-03-89	1000	4.9	5.4	0.19	8.6	10	5	12	0.020
	08-03-89	1030	4.8	3.2	0.19	10	2,300	1,800	36	0.030
	10-04-89	1300	4.4	4.8	0.15	9.4	120	6	4	0.020
	10-04-89	1315	4.3	5.1	0.14	9.6	150	12	2	<0.010
	10-04-89	1330	3.4	4.6	0.13	8.9	220	180	20	0.020
	10-04-89	1345	5.4	3.0	0.10	11	3,400	3,300	50	0.070
Site H	02-15-89	1200	6.6	13	0.20	12	250	21	--	0.017
	02-15-89	1300	6.6	13	0.10	12	240	21	34	0.019
	06-02-89	1030	4.7	7.1	0.17	10	270	81	42	0.020
	06-02-89	1100	4.7	7.2	0.17	10	300	110	40	0.020
	08-01-89	1500	4.8	5.3	0.21	11	29	28	3	0.020
	08-01-89	1530	4.8	5.4	0.22	11	53	71	26	0.030
	10-03-89	1400	3.9	5.4	0.13	9.4	87	14	3	0.020
	10-03-89	1401	4.1	6.0	0.15	9.4	110	13	--	0.020
	10-03-89	1415	3.8	6.2	0.13	8.9	150	10	40	<0.010
	10-03-89	1430	3.7	6.3	0.14	8.6	190	24	22	0.020
	10-03-89	1431	3.9	6.2	0.15	8.6	130	22	--	0.020

Table 22.--*Index of metals analyzed in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*

[Analyses in this table include tests for the following metals arranged numerically in table 22A by WATSTORE code]

Constituent	WATSTORE code
Aluminum	01105
Barium	01007
Cadmium	01027
Chromium	01034
Copper	01042
Depth at sample location	81903
Iron	01045
Lead	01051
Manganese	01055
Nickel	01067
Sampling depth	00003
Zinc	01092

Table 22A.--*Results of analyses of metals in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*
[<, less than; --, no data]

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	BARIUM TOTAL RECOVERABLE (UG/L AS BA) (01007)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
Site A	05-24-89	1245	6.00	12.7	<100	<1	2	4
Site B	05-26-89	1100	6.00	12.0	<100	<1	1	2
Site C	06-01-89	1500	6.00	11.7	100	<1	2	4
Site D	05-26-89	0900	5.00	10.9	<100	<1	<1	3
Site E	05-25-89	1145	10.0	19.0	<100	<1	2	4
Site F	05-25-89	0930	9.00	18.7	<100	<1	2	2
	05-25-89	0945	9.00	18.7	<100	<1	<1	2
Site G	02-14-89	1400	--	37.0	<100	<1	<1	1
	06-01-89	1115	5.00	32.6	100	<1	1	4
	06-01-89	1130	19.0	32.6	<100	1	1	5
	08-03-89	1000	5.00	33.5	<100	1	1	4
	08-03-89	1030	20.0	33.5	100	<1	2	2
	10-04-89	1300	7.00	38.0	<100	<1	<1	3
	10-04-89	1315	10.0	38.0	<100	<1	1	3
	10-04-89	1330	21.0	38.0	<100	<1	3	3
	10-04-89	1345	28.0	38.0	200	<1	2	1
Site H	02-15-89	1200	--	23.0	<100	1	1	2
	02-15-89	1300	--	23.0	<100	1	<1	2
	06-02-89	1030	6.00	31.8	<100	<1	1	3
	06-02-89	1100	19.0	31.8	<100	<1	2	6
	08-01-89	1500	4.00	31.0	100	<1	2	2
	08-01-89	1530	20.0	31.0	100	<1	3	2
	10-03-89	1400	7.00	30.0	<100	<1	<1	4
	10-03-89	1401	7.00	30.0	<100	<1	<1	4
	10-03-89	1415	14.0	30.0	<100	<1	1	4
	10-03-89	1430	19.0	30.0	<100	<1	2	7
	10-03-89	1431	19.0	30.0	100	<1	2	5

Table 22A.--*Results of analyses of metals in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*--Continued
[<, less than; --, no data]

SITE CODE (Fig. 1)	DATE	TIME	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)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)
Site A	05-24-89	1245	1,700	2	90	4	10	950
Site B	05-26-89	1100	540	2	40	1	<10	430
Site C	06-01-89	1500	800	2	140	2	<10	500
Site D	05-26-89	0900	790	2	140	1	<10	370
Site E	05-25-89	1145	1,100	--	100	2	<10	610
Site F	05-25-89	0930	1,200	--	90	1	<10	630
	05-25-89	0945	930	--	90	6	10	570
Site G	02-14-89	1400	410	<5	70	1	<10	220
	06-01-89	1115	320	1	60	2	<10	190
	06-01-89	1130	820	2	200	5	30	600
	08-03-89	1000	90	2	40	9	<10	80
	08-03-89	1030	3,800	2	1,900	2	<10	980
	10-04-89	1300	600	1	100	1	<10	390
	10-04-89	1315	940	2	120	2	20	720
	10-04-89	1330	3,400	4	330	2	<10	3,200
	10-04-89	1345	2,200	2	3,400	1	<10	1,400
Site H	02-15-89	1200	560	<5	80	1	10	1,200
	02-15-89	1300	420	<5	80	2	<10	170
	06-02-89	1030	490	1	220	<1	<10	190
	06-02-89	1100	660	5	300	2	<10	270
	08-01-89	1500	370	1	150	1	20	160
	08-01-89	1530	850	2	380	1	20	350
	10-03-89	1400	1,500	3	140	2	<10	860
	10-03-89	1401	1,700	3	130	2	10	1,000
	10-03-89	1415	3,000	3	110	3	<10	1,900
	10-03-89	1430	3,600	4	130	3	<10	2,200
	10-03-89	1431	3,100	4	110	3	<10	2,000

Table 23.--*Index of trace elements, cyanide, and asbestos analyzed in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*

[Analyses in this table include tests for the following trace elements, cyanide, and asbestos arranged numerically in table 23A by WATSTORE code; ---, no analyses performed; NA, not applicable]

Trace elements, cyanide, and asbestos	WATSTORE codes	
	Total	Dissolved
Antimony	01097	---
Arsenic	01002	---
Asbestos	NA	---
Beryllium	01012	---
Cyanide	00720	---
Depth at sample location	81903	---
Mercury	71900	---
Molybdenum	01062	---
Sample depth	00003	---
Selenium	01147	---
Silver	01077	---
Thallium	---	01057
Vanadium	---	01085

Table 23A.--*Results of analyses of trace elements, cyanide, and asbestos in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*
[<, less than; --, no data; NA, not applicable]

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	CYANIDE, TOTAL (MG/L AS CN) (00720)	ARSENIC, TOTAL (UG/L AS AS) (01002)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	THALLIUM, DISSOLVED (UG/L AS TL) (01057)
Site A	05-24-89	1245	6.00	12.7	<0.010	<1	<10	<1
Site B	05-26-89	1100	6.00	12.0	<0.010	<1	<10	<1
Site C	06-01-89	1500	6.00	11.7	<0.010	<1	--	<1
Site D	05-26-89	0900	5.00	10.9	<0.010	<1	--	<1
Site E	05-25-89	1145	10.0	19.0	<0.010	<1	<10	<1
Site F	05-25-89	0930	9.00	18.7	<0.010	<1	<10	<1
	05-25-89	0945	9.00	18.7	0.010	<1	<10	<1
Site G	06-01-89	1100	10.0	32.5	<0.010	<1	<10	<1
Site H	06-02-89	1045	12.0	31.8	<0.010	<1	<10	<1

SITE CODE (Fig. 1)	DATE	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ANTIMONY, TOTAL (UG/L AS SB) (01097)	SELENIUM, TOTAL (UG/L AS SE) (01147)	MERCURY, TOTAL RECOVERABLE (UG/L AS HG) (71900)	ASBESTOS, TOTAL (FIB/100 ML) (NA)
Site A	05-24-89	4	<1	5	<1	<1	<0.10	--
Site B	05-26-89	3	<1	<1	<1	<1	0.70	--
Site C	06-01-89	3	<1	3	<1	<1	<0.10	--
Site D	05-26-89	2	<1	3	<1	<1	<0.10	--
Site E	05-25-89	5	<1	5	<1	<1	<0.10	--
Site F	05-25-89	2	<1	2	<1	<1	<0.10	--
	05-25-89	3	<1	2	<1	<1	<0.10	--
Site G	06-01-89	4	<1	3	<1	<1	<0.10	<1
Site H	06-02-89	4	<1	3	<1	<1	<0.10	<1

Table 24.--*Index of organic pesticides analyzed in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*

[Analyses in this table include tests for the following organic pesticides listed in table 24A; NA, not applicable]

Constituent	WATSTORE code
2,4-D	39730
2,4-DP	82183
2,4,5-T	39740
Alachlor	77825
Aldicarb	39053
Aldicarb sulfone	82587
Aldicarb sulfoxide	82586
Aldrin	39330
Alpha-BHC	39337
Ametryne	82184
Anilazine	NA
Atrazine	39630
Benefin	39002
Bentazon	38710
Beta-BHC	39338
Bromacil	30234
Carbaryl	82618
Carbofuran	81405
Chlordane	39350
Chloroneb	38423
Chlorothalonil	70314
Cyanazine	81757
DDD	39360
DDE	39365
DDT	39370
DEF	39040
Dalapon	30200
Delta-BHC	34259
Diazinon	39570
Dicamba	82052
Disyston	39011
Dieldrin	39380
Dinoseb	81287
Diuron	39650
Endosulfan	39388
Endothall	NA
Endrin	39390
Ethion	39398
Ethofumesate	NA
Guthion	39580
Heptachlor	39410
Heptachlor epoxide	39420
3-Hydroxycarbofuran	82584

Table 24.--*Index of organic pesticides analyzed in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*--Continued

[Analyses in this table include tests for the following organic pesticides listed in table 24A; NA, not applicable]

Constituent	WATSTORE code
Lindane	39340
Malathion	39530
Metalaxyl	NA
Methomyl	39051
Methoxychlor	39480
Methyl parathion	39600
Methyl trithion	39790
Metolachlor	82612
Metribuzin	82611
Mirex	39755
1-Naphthol	77441
Oxadiazon	NA
Oxamyl	38865
Parathion	39540
Perthane	39034
Phorate	39023
Picloram	39720
Polychlorinated biphenyls (PCB)	39516
Polychlorinated naphthalenes (PCN)	39250
Prometone	39056
Prometryne	39057
Propazine	39024
Propham	39052
Ronnel	39357
Sevin	39750
Siduron	NA
Silvex	39760
Simazine	39055
Simetryne	39054
Thiophanate methyl	NA
Thiram	NA
Toxaphene	39400
Triadimefon	38892
Trichlorfon	NA
Trifluralin	39030
Trithion	39786
Unknown phenylurea herbicide	NA

Table 24A.--*Results of analyses of organic pesticides in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*
[<, less than; --, no data]

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	DALAPON, TOTAL (UG/L) (30200)	DELTA BENZENE HEXACHLORIDE, TOTAL (UG/L) (34259)	OXAMYL, TOTAL (UG/L) (38865)	NAPHTHALENES, POLYCHLOR, TOTAL (UG/L) (39250)	DISYSTON, TOTAL (UG/L) (39011)	PHORATE, TOTAL (UG/L) (39023)	PROPAZINE, TOTAL (UG/L) (39024)	TRIFLURALIN, TOTAL RECOVER (UG/L) (39030)	PERTHANE, TOTAL (UG/L) (39034)
Site A	05-24-89	1245	6.00	12.7	<1.0	<0.01	<5	<0.10	--	--	<0.10	<0.10	<0.1
Site B	05-26-89	1100	6.00	12.0	<1.0	<0.01	<0.5	<0.10	--	--	<0.10	<0.10	<0.1
Site C	06-01-89	1500	6.00	11.7	<1.0	<0.01	<0.5	<0.10	<0.01	<0.01	<0.10	<0.10	<0.1
Site D	05-26-89	0900	5.00	10.9	<1.0	<0.01	<0.5	<0.10	--	--	<0.10	<0.10	<0.1
Site E	05-25-89	1145	10.0	19.0	<1.0	<0.01	<5	<0.10	--	--	<0.10	<0.10	<0.1
Site F	05-31-89	1530	6.00	14.3	<1.0	<0.01	<0.5	<0.10	--	--	<0.10	<0.10	<0.1
Site G	06-01-89	1100	10.0	32.5	<1.0	<0.01	<0.5	<0.10	--	--	<0.10	<0.10	<0.1
Site H	06-02-89	1045	12.0	31.8	<1.0	<0.01	<0.5	<0.10	<0.01	<0.01	<0.10	<0.10	<0.1

SITE CODE (Fig. 1)	DATE	TIME	DEF, TOTAL (UG/L) (39040)	METHOMYL, TOTAL (UG/L) (39051)	PROPHAM, TOTAL (UG/L) (39052)	ALDICARB, TOTAL (UG/L) (39053)	SIMETRYNE, TOTAL (UG/L) (39054)	SIMAZINE, TOTAL (UG/L) (39055)	PROMETONE, TOTAL (UG/L) (39056)	PROMETRYNE, TOTAL (UG/L) (39057)	ALDRIN, TOTAL (UG/L) (39330)	ALPHA BHC, TOTAL (UG/L) (39337)
Site A	05-24-89	1245	<0.01	<5.0	<5.0	<5	<0.1	0.30	0.1	<0.1	<0.001	<0.01
Site B	05-26-89	1100	<0.01	<0.5	<0.5	<0.5	<0.1	0.40	0.1	<0.1	<0.001	<0.01
Site C	06-01-89	1500	<0.01	<0.5	<0.5	<0.5	<0.1	0.20	0.1	<0.1	<0.001	<0.01
Site D	05-26-89	0900	<0.01	<0.5	<0.5	<0.5	<0.1	0.30	0.1	<0.1	<0.001	<0.01
Site E	05-25-89	1145	<0.01	<5.0	<5.0	<5	<0.1	0.40	0.1	<0.1	<0.001	<0.01
Site F	05-31-89	1530	<0.01	<0.5	<0.5	<0.5	<0.1	0.30	0.1	<0.1	<0.001	<0.01
Site G	06-01-89	1100	<0.01	<0.5	<0.5	<0.5	<0.1	0.20	0.1	<0.1	<0.001	<0.01
Site H	06-02-89	1045	<0.01	<0.5	<0.5	<0.5	<0.1	0.30	0.1	<0.1	<0.001	<0.01

Table 24A.--*Results of analyses of organic pesticides in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*--Continued
[<, less than; --, no data]

SITE CODE (Fig. 1)	DATE	TIME	BETA BENZENE HEXA-CHLO-RIDE, TOTAL (UG/L) (39338)	LINDANE, TOTAL (UG/L) (39340)	CHLOR-DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN, TOTAL (UG/L) (39380)	ENDO-SULFAN, TOTAL (UG/L) (39388)	ENDRIN, TOTAL (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)
Site A	05-24-89	1245	<0.01	<0.001	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01
Site B	05-26-89	1100	<0.01	<0.001	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01
Site C	06-01-89	1500	<0.01	<0.001	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01
Site D	05-26-89	0900	<0.01	<0.001	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01
Site E	05-25-89	1145	<0.01	<0.001	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01
Site F	05-31-89	1530	<0.01	<0.001	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01
Site G	06-01-89	1100	<0.01	<0.001	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01
Site H	06-02-89	1045	<0.01	<0.001	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01

SITE CODE (Fig. 1)	DATE	TIME	TOX-APHENE, TOTAL (UG/L) (39400)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	HEPTA-CHLOR EPOXIDE, TOTAL (UG/L) (39420)	METH-OXY-CHLOR, TOTAL (UG/L) (39480)	PCB, TOTAL (UG/L) (39516)	MALA-THION, TOTAL (UG/L) (39530)	PARA-THION, TOTAL (UG/L) (39540)	DI-AZINON, TOTAL (UG/L) (39570)	GUTHION, TOTAL (UG/L) (39580)	METHYL PARA-THION, TOTAL (UG/L) (39600)
Site A	05-24-89	1245	<1	<0.001	<0.001	<0.01	<0.1	<0.01	<0.01	0.02	<0.10	<0.01
Site B	05-26-89	1100	<1	<0.001	<0.001	<0.01	<0.1	<0.01	<0.01	0.02	<0.10	<0.01
Site C	06-01-89	1500	<1	<0.001	<0.001	<0.01	<0.1	<0.01	<0.01	0.02	<0.10	<0.01
Site D	05-26-89	0900	<1	<0.001	<0.001	<0.01	<0.1	<0.01	<0.01	0.01	<0.10	<0.01
Site E	05-25-89	1145	<1	<0.001	<0.001	<0.01	<0.1	<0.01	<0.01	0.01	<0.10	<0.01
Site F	05-31-89	1530	<1	<0.001	<0.001	<0.01	<0.1	<0.01	<0.01	<0.01	<0.10	<0.01
Site G	06-01-89	1100	<1	<0.001	<0.001	<0.01	<0.1	<0.01	<0.01	0.02	<0.10	<0.01
Site H	06-02-89	1045	<1	<0.001	<0.001	<0.01	<0.1	<0.01	<0.01	0.01	<0.10	<0.01

Table 24A.--*Results of analyses of organic pesticides in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*--Continued
[<, less than; --, no data]

SITE CODE (Fig. 1)	DATE	TIME	ATRAZINE, TOTAL (UG/L) (39630)	PICLORAM (TORDON) (AMDON), TOTAL (UG/L) (39720)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T, TOTAL (UG/L) (39740)	SEVIN, TOTAL (UG/L) (39750)	MIREX, TOTAL (UG/L) (39755)	SILVEX, TOTAL (UG/L) (39760)	TRITHION, TOTAL (UG/L) (39786)	METHYL TRITHION, TOTAL (UG/L) (39790)	1-NAPHTHOL, TOTAL (UG/L) (77441)
Site A	05-24-89	1245	0.20	<0.01	0.04	<0.01	<5.0	<0.01	<0.01	<0.01	<0.01	<5
Site B	05-26-89	1100	0.30	<0.01	0.04	<0.01	<0.50	<0.01	<0.01	<0.01	<0.01	<0.5
Site C	06-01-89	1500	0.20	<0.01	<0.01	<0.01	<0.50	<0.01	<0.01	<0.01	<0.01	<0.5
Site D	05-26-89	0900	0.30	<0.01	0.03	<0.01	<0.50	<0.01	<0.01	<0.01	<0.01	<0.5
Site E	05-25-89	1145	0.50	<0.01	0.03	<0.01	<5.0	<0.01	<0.01	<0.01	<0.01	<5
Site F	05-31-89	1530	0.40	<0.01	<0.01	<0.01	<0.50	<0.01	<0.01	<0.01	<0.01	<0.5
Site G	06-01-89	1100	0.20	<0.01	<0.01	<0.01	<0.50	<0.01	<0.01	<0.01	<0.01	<0.5
Site H	06-02-89	1045	0.40	<0.01	<0.01	<0.01	<0.50	<0.01	<0.01	<0.01	<0.01	<0.5

SITE CODE (Fig. 1)	DATE	TIME	ALACHLOR TOTAL RECOVER (UG/L) (77825)	CARBOFURAN, TOTAL (UG/L) (81405)	CYANAZINE, TOTAL (UG/L) (81757)	DICAMBA (MEDIBEN) (BANVEL D), TOTAL (UG/L) (82052)	2,4-DP, TOTAL (UG/L) (82183)	AMETRYNE, TOTAL (UG/L) (82184)	3-HYDROXY CARBOFURAN, TOTAL (UG/L) (82584)	ALDICARB SULFOXIDE, TOTAL (UG/L) (82586)	ALDICARB SULFONE, TOTAL (UG/L) (82587)	METRIBUZIN WATER WHOLE, TOT.REC (UG/L) (82611)	METOLACHLOR WATER WHOLE, TOT.REC (UG/L) (82612)
Site A	05-24-89	1245	<0.10	<5	<0.10	<0.01	<0.01	<0.10	<5	<5	<5	<0.1	<0.1
Site B	05-26-89	1100	<0.10	<0.5	<0.10	<0.01	<0.01	<0.10	<0.5	<0.5	<0.5	<0.1	<0.1
Site C	06-01-89	1500	<0.10	<0.5	<0.10	<0.01	<0.01	<0.10	<0.5	<0.5	<0.5	<0.1	<0.1
Site D	05-26-89	0900	<0.10	<0.5	<0.10	<0.01	<0.01	<0.10	<0.5	<0.5	<0.5	<0.1	<0.1
Site E	05-25-89	1145	<0.10	<5	<0.10	<0.01	<0.01	<0.10	<5	<5	<5	<0.1	<0.1
Site F	05-31-89	1530	<0.10	<0.5	<0.10	<0.01	<0.01	<0.10	<0.5	<0.5	<0.5	<0.1	<0.1
Site G	06-01-89	1100	<0.10	<0.5	<0.10	<0.01	<0.01	<0.10	<0.5	<0.5	<0.5	<0.1	<0.1
Site H	06-02-89	1045	<0.10	<0.5	<0.10	<0.01	<0.01	<0.10	<0.5	<0.5	<0.5	<0.1	<0.1

Table 24A.--*Results of analyses of organic pesticides in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*--Continued
[<, less than; --, no data; NA, not applicable]

SITE CODE (Fig. 1)	DATE	TIME	BENE-FIN, TOTAL (UG/L) (39002)	BENTA-ZON, TOTAL (UG/L) (38710)	TRIADI-MEFON, TOTAL (UG/L) (38892)	CHLORO-THAL-ONIL, TOTAL (UG/L) (70314)	TRI-CHLOR-FON, TOTAL (UG/L) (NA)	ANIL-AZINE, TOTAL (UG/L) (NA)	THIO-PHANATE METHYL, TOTAL (UG/L) (NA)	ETHO-FUME-SATE, TOTAL (UG/L) (NA)	OXADIA-ZON, TOTAL (UG/L) (NA)	ENDO-THALL, TOTAL (UG/L) (NA)
Site A	05-24-89	1245	<0.05	<0.5	<0.05	<0.05	<0.1	<0.05	<1.0	<0.05	<0.05	<1.0
Site B	05-26-89	1100	<0.05	<0.5	<0.05	<0.05	<0.1	<0.05	<1.0	<0.05	<0.05	<1.0
Site C	06-01-89	1500	<0.05	<0.5	<0.05	<0.05	<0.1	<0.05	<1.0	<0.05	0.01*	<1.0
Site D	05-26-89	0900	<0.05	<0.5	<0.05	<0.05	<0.1	<0.05	<1.0	<0.05	<0.05	<1.0
Site E	05-25-89	1145	<0.05	<0.5	<0.05	<0.05	<0.1	<0.05	<1.0	<0.05	0.02*	<1.0
Site F	05-31-89	1530	<0.05	<0.5	<0.05	<0.05	<0.1	<0.05	<1.0	<0.05	0.04*	<1.0
Site G	06-01-89	1100	<0.05	<0.5	<0.05	<0.05	<0.1	<0.05	<1.0	<0.05	<0.05	<1.0
Site H	06-02-89	1045	<0.05	<0.5	<0.05	<0.05	<0.1	<0.05	<1.0	<0.05	<0.05	<1.0

*Extrapolated below value of lowest calibration standard.

SITE CODE (Fig. 1)	DATE	TIME	THIRAM, TOTAL (UG/L) (NA)	DINOSEB, TOTAL (UG/L) (81287)	META-LAXYL, TOTAL (UG/L) (NA)	RONNEL (FENCHLOR-PHOS), TOTAL (UG/L) (39357)	CHLORO-NEB, TOTAL (UG/L) (38423)	SID-URON, TOTAL (UG/L) (NA)	CARBARYL (UG/L) (82618)	BROMACIL (UG/L) (30234)	DIURON (UG/L) (39650)	UNKNOWN PHENYLUREA HERBICIDE (UG/L) (NA)
Site A	05-24-89	1245	<1.0	<0.5	<0.1	<0.05	<0.05	<0.1	<0.05	--	--	--
Site B	05-26-89	1100	<1.0	<0.5	<0.1	<0.05	<0.05	<0.1	<0.05	--	--	--
Site C	06-01-89	1500	<1.0	<0.5	<0.1	<0.05	<0.05	<0.1	<0.05	--	--	--
Site D	05-26-89	0900	<1.0	<0.5	<0.1	<0.05	<0.05	<0.1	<0.05	--	--	--
Site E	05-25-89	1145	<1.0	<0.5	<0.1	<0.05	<0.05	<0.1	<0.05	Trace	Trace	--
Site F	05-31-89	1530	<1.0	<0.5	<0.1	<0.05	<0.05	<0.1	<0.05	--	Trace	Trace
Site G	06-01-89	1100	<1.0	<0.5	<0.1	<0.05	<0.05	<0.1	<0.05	--	--	--
Site H	06-02-89	1045	<1.0	<0.5	<0.1	<0.05	<0.05	<0.1	<0.05	Trace	Trace	Trace

Table 25.--*Index of volatile organic compounds analyzed in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*

[Analyses in this table include tests for the following volatile organic compounds arranged numerically in table 25A by WATSTORE code; ---, no analysis performed]

Compounds	WATSTORE code
1,1,1-Trichloroethane	34506
1,1,2,2-Tetrachloroethane	34516
1,1,2-Trichloroethane	34511
1,1-Dichloroethane	34496
1,1-Dichloroethylene	34501
1,2-Dibromoethylene	39082
1,2-Dichloroethane	32103
1,2-Dichloropropane	34541
1,3-Dichloropropane	34561
2-Chloroethyl vinyl ether	34576
Benzene	34030
Bromodichloromethane	32101
Bromoform	32104
Bromomethane	34413
Carbon tetrachloride	32102
Chlorobenzene	34301
Chloroethane	34311
Chloroform	32106
Chloromethane	34418
Depth at sample location	81903
cis-1,3-Dichloropropene	34704
Dibromochloromethane	32105
Dichlorodifluoromethane	34668
Ethylbenzene	34371
Methylene chloride	34423
Sampling depth	00003
Styrene	77128
Tetrachloroethane	34475
Toluene	34010
Trans-1,2-Dichloroethene	34546
Trans-1,3-Dichloropropene	34699
Trichloroethene	39180
Trichlorofluoromethane	34488
Trihalomethane formation potential (THMFP)	---
Vinyl chloride	39175
Xylene	81551

Table 25A.--*Results of analyses of volatile organic compounds in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*
[<, less than; --, no data]

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	DI-CHLORO-BROMO-METHANE, TOTAL (UG/L) (32101)	CARBON-TETRA-CHLORIDE, TOTAL (UG/L) (32102)	1,2-DI-CHLORO-ETHANE, TOTAL (UG/L) (32103)	BROMO-FORM, TOTAL (UG/L) (32104)	CHLORO-DI-BROMO-METHANE, TOTAL (UG/L) (32105)	CHLORO-FORM, TOTAL (UG/L) (32106)	TOLUENE, TOTAL (UG/L) (34010)
Site A	05-24-89	1245	6.00	12.7	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site B	05-26-89	1100	6.00	12.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site C	06-01-89	1500	6.00	11.7	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site D	05-26-89	0900	5.00	10.9	<0.20	<0.20	<0.20	<0.20	<0.20	0.40	<0.20
Site E	05-25-89	1145	10.0	19.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site F	05-25-89	0930	9.00	18.7	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site G	02-14-89	1400	--	37.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	06-01-89	1100	10.0	32.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	08-03-89	1015	10.0	33.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-04-89	1315	10.0	38.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site H	02-15-89	1300	--	23.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	06-02-89	1045	12.0	31.8	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	08-01-89	1515	10.0	31.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-03-89	1415	14.0	30.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

SITE CODE (Fig. 1)	DATE	TIME	BENZENE, TOTAL (UG/L) (34030)	CHLORO-BENZENE, TOTAL (UG/L) (34301)	CHLORO-ETHANE, TOTAL (UG/L) (34311)	ETHYL-BENZENE, TOTAL (UG/L) (34371)	METHYL-BROMIDE, TOTAL (UG/L) (34413)	METHYL-CHLO-RIDE, TOTAL (UG/L) (34418)	METHYL-ENE CHLO-RIDE, TOTAL (UG/L) (34423)	TETRA-CHLORO-ETHYL-ENE, TOTAL (UG/L) (34475)	TRI-CHLORO-FLUORO-METHANE, TOTAL (UG/L) (34488)	1,1-DI-CHLORO-ETHANE, TOTAL (UG/L) (34496)
Site A	05-24-89	1245	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site B	05-26-89	1100	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site C	06-01-89	1500	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site D	05-26-89	0900	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site E	05-25-89	1145	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site F	05-25-89	0930	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site G	02-14-89	1400	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	06-01-89	1100	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	08-03-89	1015	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-04-89	1315	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site H	02-15-89	1300	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	06-02-89	1045	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	08-01-89	1515	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-03-89	1415	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Table 25A.--*Results of analyses of volatile organic compounds in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*--Continued
[<, less than; --, no data]

SITE CODE (Fig. 1)	DATE	TIME	1,1-DI-CHLORO-ETHYL-ENE, TOTAL (UG/L) (34501)	1,1,1-TRI-CHLORO-ETHANE, TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE, TOTAL (UG/L) (34511)	1,1,2,2 TETRA-CHLORO-ETHANE, TOTAL (UG/L) (34516)	1,2-DI-CHLORO-BENZENE, TOTAL (UG/L) (34536)	1,2-DI-CHLORO-PROPANE, TOTAL (UG/L) (34541)	1,2-TRANSDI CHLORO-ETHENE, TOTAL (UG/L) (34546)	1,3-DI-CHLORO-PROPENE, TOTAL (UG/L) (34561)	1,3-DI-CHLORO-BENZENE, TOTAL (UG/L) (34566)	1,4-DI-CHLORO-BENZENE, TOTAL (UG/L) (34571)
Site A	05-24-89	1245	<0.20	<0.20	<0.20	<0.20	<5.0	<0.20	<0.20	<0.20	<5.0	<5.0
Site B	05-26-89	1100	<0.20	<0.20	<0.20	<0.20	<5.0	<0.20	<0.20	<0.20	<5.0	<5.0
Site C	06-01-89	1500	<0.20	<0.20	<0.20	<0.20	<5.0	<0.20	<0.20	<0.20	<5.0	<5.0
Site D	05-26-89	0900	<0.20	<0.20	<0.20	<0.20	<5.0	<0.20	<0.20	<0.20	<5.0	<5.0
Site E	05-25-89	1145	<0.20	<0.20	<0.20	<0.20	<5.0	<0.20	<0.20	<0.20	<5.0	<5.0
Site F	05-25-89	0930	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site G	02-14-89	1400	<0.20	<0.20	<0.20	<0.20	<5.0	<0.20	<0.20	<0.20	<5.0	<5.0
	06-01-89	1100	<0.20	<0.20	<0.20	<0.20	<5.0	<0.20	<0.20	<0.20	<5.0	<5.0
	08-03-89	1015	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-04-89	1315	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Site H	02-15-89	1300	<0.20	<0.20	<0.20	<0.20	<5.0	<0.20	<0.20	<0.20	<5.0	<5.0
	06-02-89	1045	<0.20	<0.20	<0.20	<0.20	<5.0	<0.20	<0.20	<0.20	<5.0	<5.0
	08-01-89	1515	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	10-03-89	1415	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

SITE CODE (Fig. 1)	DATE	TIME	2-CHLORO-ETHYL-VINYL-ETHER, TOTAL (UG/L) (34576)	DI-CHLORO-DI-FLUORO-METHANE, TOTAL (UG/L) (34668)	TRANS-1,3-DI-CHLORO-PROPENE, TOTAL (UG/L) (34699)	CIS-1,3-DI-CHLORO-PROPENE, TOTAL (UG/L) (34704)	VINYL CHLO-RIDE, TOTAL (UG/L) (39175)	TRI-CHLORO-ETHYL-ENE, TOTAL (UG/L) (39180)	STYRENE, TOTAL (UG/L) (77128)	1,2-DIBROMO ETHANE WATER WHOLE, TOTAL (UG/L) (77651)	XYLENE WATER WHOLE TOTAL, TOT REC (UG/L) (81551)	THMFP, TOTAL (UG/L) (NA)	REMARKS
Site A	05-24-89	1245	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	--	No others detected.
Site B	05-26-89	1100	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	0.2	--	No others detected.
Site C	06-01-89	1500	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	--	No others detected.
Site D	05-26-89	0900	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	--	No others detected.
Site E	05-25-89	1145	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	--	No others detected.
Site F	05-25-89	0930	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	0.2	--	No others detected.
Site G	02-14-89	1400	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	372	No others detected.
	06-01-89	1100	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	373	No others detected.
	08-03-89	1015	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	387	No others detected.
	10-04-89	1315	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	369	No others detected.
Site H	02-15-89	1300	<0.20	<0.20	<0.20	<0.20	<0.20	1.1	<0.2	<0.2	<0.2	342	No others detected.
	06-02-89	1045	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	405	No others detected.
	08-01-89	1515	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	373	Thio(bis)methane 0.2 µg/L. Dimethyldisulfide 0.2 µg/L.
	10-03-89	1415	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	488	No others detected.

Table 26.--*Index of acid and base/neutral extractable organic compounds analyzed in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*

[Analyses in this table include tests for the following acid and base/neutral compounds arranged numerically in table 26A by WATSTORE code]

Acid extractables	WATSTORE code
2,4,6-Trichlorophenol	34621
2,4-Dichlorophenol	34601
2,4-Dimethylphenol	34606
2,4-Dinitrophenol	34616
2-Chlorophenol	34586
2-Nitrophenol	34591
4,6-Dinitro-2-methylphenol	34657
4-Nitrophenol	34646
Parachlorometa cresol	34452
Pentachlorophenol	39032
Phenol	34694

Base/neutral extractables	WATSTORE code
1,2,4-Trichlorobenzene	34551
1,2,5,6-Dibenzanthracene	34556
1,2-Dichlorobenzene	34536
1,4-Dichlorobenzene	34571
1,3-Dichlorobenzene	34566
2,4-Dinitrotoluene	34611
2,6-Dinitrotoluene	34626
2-Chloronaphthalene	34581
3,3'-Dichlorobenzidine	34631
4-Bromophenyl phenyl ether	34636
4-Chlorophenyl phenyl ether	34641
Acenaphthene	34205
Acenaphthylene	34200
Anthracene	34220
Benzidine	39120
Benzo(a)anthracene	34526
Benzo(a)pyrene	34247
Benzo(b)fluoranthene	34230
Benzo(g,h,i)perylene	34521
Benzo(k)fluoranthene	34242
bis(2-chloroethyl) ether	34273
bis(2-chloroethoxy) methane	34278
bis(2-chloroisopropyl) ether	34283
bis(2-ethylhexyl) phthalate	39100
Chrysene	34320
Di-n-butyl phthalate	39110
Di-n-octyl phthalate	34596
Diethyl phthalate	34336
Dimethyl phthalate	34341
Fluoranthene	34376
Fluorene	34381
Hexachlorobenzene	39700
Hexachlorobutadiene	39702
Hexachlorocyclopentadiene	34386
Hexachloroethane	34396
Indeno (1,2,3-c,d)pyrene	34403
Isophorone	34408
N-Butyl benzyl phthalate	34292
N-Nitrosodimethylamine	34438
N-Nitrosodiphenylamine	34433
N-Nitrosodi-n-propylamine	34428
Napthalene	34696
Nitrobenzene	34447
Phenanthrene	34461
Pyrene	34469

Table 26A.--*Results of analyses of acid and base/neutral extractable organic compounds in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*
[<, less than; --, no data]

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	ACENAPHTHYLENE, TOTAL (UG/L) (34200)	ACENAPHTHENE, TOTAL (UG/L) (34205)	ANTHRACENE, TOTAL (UG/L) (34220)	BENZO B FLUORANTHENE, TOTAL (UG/L) (34230)	BENZO K FLUORANTHENE, TOTAL (UG/L) (34242)	BENZO A PYRENE, TOTAL (UG/L) (34247)	BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L) (34273)	BIS (2-CHLOROETHOXY) METHANE, TOTAL (UG/L) (34278)
Site A	05-24-89	1245	6.00	12.7	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0
Site B	05-26-89	1100	6.00	12.0	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0
Site C	06-01-89	1500	6.00	11.7	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0
Site D	05-26-89	0900	5.00	10.9	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0
Site E	05-25-89	1145	10.0	19.0	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0
Site F	05-31-89	1530	6.00	14.3	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0
Site G	02-14-89	1400	--	37.0	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0
	06-01-89	1100	10.0	32.5	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0
Site H	02-15-89	1200	--	23.0	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0
	02-15-89	1300	--	23.0	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0
	06-02-89	1045	12.0	31.8	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0

SITE CODE (Fig. 1)	DATE	TIME	BIS (2-CHLOROISOPROPYL) ETHER, TOTAL (UG/L) (34283)	N-BUTYL BENZYL PHTHALATE, TOTAL (UG/L) (34292)	CHRYSENE, TOTAL (UG/L) (34320)	DIETHYL PHTHALATE, TOTAL (UG/L) (34336)	DIMETHYL PHTHALATE, TOTAL (UG/L) (34341)	FLUORANTHENE, TOTAL (UG/L) (34376)	FLUORENE, TOTAL (UG/L) (34381)	HEXACHLOROCYCLOPENTADIENE, TOTAL (UG/L) (34386)	HEXACHLOROETHANE, TOTAL (UG/L) (34396)	INDENO (1,2,3-C,D) PYRENE, TOTAL (UG/L) (34403)
Site A	05-24-89	1245	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
Site B	05-26-89	1100	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
Site C	06-01-89	1500	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
Site D	05-26-89	0900	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
Site E	05-25-89	1145	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
Site F	05-31-89	1530	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
Site G	02-14-89	1400	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
	06-01-89	1100	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
Site H	02-15-89	1200	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
	02-15-89	1300	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
	06-02-89	1045	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0

Table 26A.--*Results of analyses of acid and base/neutral extractable organic compounds in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*--Continued
[<, less than; --, no data]

SITE CODE (Fig. 1)	DATE	TIME	ISO-PHORONE, TOTAL (UG/L) (34408)	N-NITRO-SODI-N-PROPYL-AMINE, TOTAL (UG/L) (34428)	N-NITRO-SODI-PHENY-LAMINE, TOTAL (UG/L) (34433)	N-NITRO-SODI-METHY-LAMINE, TOTAL (UG/L) (34438)	NITRO-BENZENE, TOTAL (UG/L) (34447)	PARA-CHLORO-META CRESOL, TOTAL (UG/L) (34452)	PHENAN-THRENE, TOTAL (UG/L) (34461)	PYRENE, TOTAL (UG/L) (34469)	BENZO (G,H,I) PERYLENE, TOTAL (UG/L) (34521)	BENZO A ANTHRA-CENE TOTAL (UG/L) (34526)
Site A	05-24-89	1245	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0	<10.0	<5.0
Site B	05-26-89	1100	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0	<10.0	<5.0
Site C	06-01-89	1500	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0	<10.0	<5.0
Site D	05-26-89	0900	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0	<10.0	<5.0
Site E	05-25-89	1145	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0	<10.0	<5.0
Site F	05-31-89	1530	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0	<10.0	<5.0
Site G	02-14-89	1400	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0	<10.0	<5.0
	06-01-89	1100	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0	<10.0	<5.0
Site H	02-15-89	1200	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0	<10.0	<5.0
	02-15-89	1300	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0	<10.0	<5.0
	06-02-89	1045	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0	<10.0	<10.0

SITE CODE (Fig. 1)	DATE	TIME	1,2-DI-CHLORO-BENZENE, TOTAL (UG/L) (34536)	1,2,4-TRI-CHLORO-BENZENE, TOTAL (UG/L) (34551)	1,2,5,6-DIBENZ-ANTHRA-CENE, TOTAL (UG/L) (34556)	1,3-DI-CHLORO-BENZENE, TOTAL (UG/L) (34566)	1,4-DI-CHLORO-BENZENE, TOTAL (UG/L) (34571)	2-CHLORO-NAPH-THALENE, TOTAL (UG/L) (34581)	2-CHLORO-PHENOL, TOTAL (UG/L) (34586)	2-NITRO-PHENOL, TOTAL (UG/L) (34591)	DI-N-OCTYL PHTHAL-ATE, TOTAL (UG/L) (34596)
Site A	05-24-89	1245	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
Site B	05-26-89	1100	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
Site C	06-01-89	1500	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
Site D	05-26-89	0900	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
Site E	05-25-89	1145	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
Site F	05-31-89	1530	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
Site G	02-14-89	1400	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
	06-01-89	1100	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
Site H	02-15-89	1200	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
	02-15-89	1300	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0
	06-02-89	1045	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0

Table 26A.--*Results of analyses of acid and base/neutral extractable organic compounds in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*--Continued
[<, less than; --, no data]

SITE CODE (Fig. 1)	DATE	TIME	2,4-DI-CHLORO-PHENOL, TOTAL (UG/L) (34601)	2,4-DI-METHYL-PHENOL, TOTAL (UG/L) (34606)	2,4-DI-NITRO-TOLUENE, TOTAL (UG/L) (34611)	2,4-DI-NITRO-PHENOL, TOTAL (UG/L) (34616)	2,4,6-TRI-CHLORO-PHENOL, TOTAL (UG/L) (34621)	2,6-DI-NITRO-TOLUENE, TOTAL (UG/L) (34626)	4-BROMO-PHENYL PHENYL ETHER, TOTAL (UG/L) (34636)	4-CHLORO-PHENYL PHENYL ETHER, TOTAL (UG/L) (34641)	4-NITRO-PHENOL, TOTAL (UG/L) (34646)
Site A	05-24-89	1245	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<30.0
Site B	05-26-89	1100	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<30.0
Site C	06-01-89	1500	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<30.0
Site D	05-26-89	0900	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<30.0
Site E	05-25-89	1145	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<30.0
Site F	05-31-89	1530	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<30.0
Site G	02-14-89	1400	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<30.0
	06-01-89	1100	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<30.0
Site H	02-15-89	1200	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<30.0
	02-15-89	1300	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<30.0
	06-02-89	1045	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<30.0

SITE CODE (Fig. 1)	DATE	TIME	4,6-DINITRO-ORTHO-CRESOL, TOTAL (UG/L) (34657)	PHENOL (C6H-5OH), TOTAL (UG/L) (34694)	NAPHTH-ALENE, TOTAL (UG/L) (34696)	PENTA-CHLORO-PHENOL, TOTAL (UG/L) (39032)	BIS (2-ETHYL HEXYL) PHTHAL-ATE, TOTAL (UG/L) (39100)	DI-N-BUTYL PHTHAL-ATE, TOTAL (UG/L) (39110)	NAPH-THA-LENES, POLY-CHLO, TOTAL (UG/L) (39250)	HEXA-CHLORO-BENZENE, TOTAL (UG/L) (39700)	HEXA-CHLORO-BUT-ADIENE, TOTAL (UG/L) (39702)
Site A	05-24-89	1245	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<0.10	<5.0	<5.0
Site B	05-26-89	1100	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<0.10	<5.0	<5.0
Site C	06-01-89	1500	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<0.10	<5.0	<5.0
Site D	05-26-89	0900	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<0.10	<5.0	<5.0
Site E	05-25-89	1145	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<0.10	<5.0	<5.0
Site F	05-31-89	1530	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<0.10	<5.0	<5.0
Site G	02-14-89	1400	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	--	<5.0	<5.0
	06-01-89	1100	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<0.10	<5.0	<5.0
Site H	02-15-89	1200	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	--	<5.0	<5.0
	02-15-89	1300	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	--	<5.0	<5.0
	06-02-89	1045	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<0.10	<5.0	<5.0

Table 27.--*Index of compounds analyzed in selected water samples collected in the High Point Lake watershed*

[Analyses in this table include results of GC/FID scans and GC/MS analyses for the following compounds shown in tables 27A and 27B]

Compounds
Alkane
Alkenes/cycloalkanes, total
Heptadecane
Unknown compounds

Table 27A.--*Results of analyses of selected water samples collected in the High Point Lake watershed for compounds identified by GC/FID scans*

SITE CODE (Fig. 1)	DATE	TIME	TOTAL CONCENTRATION OF UNSPECIFIED CARBON COMPOUNDS (UG/L)
Site G	08-03-89	1015	1.1
	10-04-89	1315	0
Site H	08-01-89	1515	1.3
	10-03-89	1415	0

Table 27B.--*Results of analyses of selected water samples collected in the High Point Lake watershed for compounds identified by National Bureau of Standards library search of chromatographs from GC/MS analyses*
[--, not detected]

SITE CODE (Fig. 1)	DATE	TIME	ALKANE (UG/L)	ALKENES/ CYCLO-ALKANES, TOTAL (UG/L)	HEPTA-DECANE (UG/L)	UNKNOWN (UG/L)
Site C	06-01-89	1500	--	--	0.7	--
Site G	02-14-89	1400	0.2	--	--	--
	06-01-89	1100	--	--	--	0.6
Site H	02-15-89	1200	--	0.2	--	--
	02-15-89	1300	--	0.2	--	--

Table 28.--*Index of chlorophyll a and b analyzed in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*

[Analyses in this table include tests for the following constituents arranged numerically in table 28A by WATSTORE code:

Constituent	WATSTORE code
Chlorophyll-*a* phytoplankton	70953
Chlorophyll-*b* phytoplankton	70954
Depth at sample location	81903
Sampling depth	00003

Table 28A.--*Results of analyses of chlorophyll a and b in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
Site A	02-10-89	1001	1.00	13.0	11.0	0.300
	05-24-89	1246	1.00	12.7	20.0	1.30
	08-03-89	1501	1.00	3.00	15.0	0.900
	10-05-89	1320	1.00	2.89	82.0	2.30
Site B	02-10-89	1301	1.00	11.0	16.0	0.400
	05-26-89	1101	1.00	12.0	15.0	0.600
	08-03-89	1531	1.00	4.00	11.0	0.500
	10-05-89	1345	1.00	3.00	55.0	2.10
Site C	02-14-89	1301	1.00	6.00	6.70	0.300
	06-01-89	1501	1.00	11.7	5.70	0.400
	08-03-89	1401	1.00	11.0	7.00	0.300
	10-05-89	1246	1.00	9.57	9.30	0.300
Site D	02-09-89	1401	1.00	11.0	4.60	0.500
	05-26-89	0901	1.00	10.9	11.0	0.600
	08-03-89	1431	1.00	4.00	11.0	0.600
	10-05-89	1046	1.00	6.22	4.30	0.200
Site E	02-09-89	1116	1.00	22.0	5.80	0.200
	05-25-89	1146	1.00	19.0	4.80	0.300
	08-01-89	1316	1.00	6.50	33.0	2.30
	08-01-89	1331	1.00	6.50	25.0	1.90
	10-02-89	1601	1.00	4.00	4.90	0.300
Site F	02-09-89	1201	1.00	18.0	14.0	0.400
	05-25-89	0931	1.00	18.7	9.00	0.700
	05-25-89	0946	1.00	18.7	9.30	0.900
	08-01-89	1401	1.00	14.6	37.0	3.50
	10-02-89	1446	1.00	15.5	1.80	0.200
Site G	02-14-89	1401	1.00	37.0	9.80	0.300
	06-01-89	1101	1.00	32.6	4.80	0.300
	08-03-89	1016	1.00	33.5	6.90	0.200
	10-04-89	1317	1.00	38.0	14.0	0.600
Site H	02-15-89	1201	1.00	23.0	13.0	0.300
	02-15-89	1301	1.00	23.0	12.0	0.300
	06-02-89	1101	1.00	31.8	6.0	0.300
	08-01-89	1501	1.00	31.0	23.0	1.30
	10-03-89	1402	1.00	30.0	22.0	0.900

Table 29.--*Index of microbiological and radiochemical constituents analyzed in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*

[Analyses in this table include tests for the following constituents arranged numerically in table 29A by WATSTORE code]

Constituent	WATSTORE code
Coliform, total	31501
Coliform, fecal	31625
Depth at sample location	81903
Gross alpha	80030
Gross beta, dissolved (PCI/L as CS-137)	03515
Gross beta, dissolved (PCI/L as SR/YT-90)	80050
Radium-226	09510
Radium-228	81366
Radon 222	82303
Sampling depth	00003
Uranium natural	22703

Table 29A.--*Results of analyses of microbiological and radiochemical constituents in routine water-quality samples collected at steady lake levels from Oak Hollow and High Point Lakes*
[--, no data; <, less than]

SITE CODE (Fig. 1)	DATE	TIME	SAMPLING DEPTH (FEET) (00003)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	GROSS BETA, DISSOLVED (PCI/L AS CS-137) (03515)	RA-226, DISSOLVED, PLANCHET COUNT (PCI/L) (09510)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	COLIFORM, TOTAL, IMMED. (COLS./100 ML) (31501)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
Site G	02-14-89	1401	1.00	37.0	--	--	--	30	17
	06-01-89	1100	10.0	32.5	4.7	<0.1	<0.40	--	--
	06-01-89	1101	1.00	32.6	--	--	--	40	2
Site H	02-15-89	1300	--	23.0	--	--	--	30	17
	06-02-89	1045	12.0	31.8	3.2	<0.1	<0.40	--	--

SITE CODE (Fig. 1)	DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT) (80030)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90) (80050)	RADIUM 228 DISSOLVED (PCI/L AS RA-228) (81366)	RADON 222 TOTAL (PC/L) (82303)	GIARDIA LAMBLIA (CYSTS/100 GAL)	LEGIONELLA (CELLS/L)	ENTERIC VIRUSES (NO./NO. OF GALLONS)
Site G	02-14-89	1401	--	--	--	--	--	--	--
	06-01-89	1100	<0.6	3.8	<1.0	<80	5	1.55×10^7	<1/30
	06-01-89	1101	--	--	--	--	--	--	--
Site H	02-15-89	1300	--	--	--	--	--	--	--
	06-02-89	1045	<0.6	2.5	<1.0	<80	7	3.11×10^6	<1/38

Table 30.--*Index of specific conductance, pH, total organic carbon, and volatile organic compounds analyzed in ground-water quality samples collected in the High Point Lake watershed*

Page

[Analyses in this table include tests for the following constituents arranged numerically in table 30A by WATSTORE code]

Constituent	WATSTORE code
1,1,1-Trichloroethane	34506
1,1,2,2-Tetrachloroethane	34516
1,1,2-Trichloroethane	34511
1,1-Dichloroethane	34496
1,1-Dichloroethylene	34501
1,2-Dibromoethylene	39082
1,2-Dichloroethane	32103
1,2-Dichloropropane	34561
1,3-Dichloropropane	34541
2-Chloroethyl vinyl ether	34576
Benzene	34030
Bromodichloromethane	32101
Bromoform	32104
Bromoethane	34413
Carbon tetrachloride	32102
Chlorobenzene	34301
Chloroethane	34311
Chloroform	32106
Chloromethane	34418
cis-1,3-Dichloropropene	34704
Dibromochloromethane	32105
Dichlorodifluoromethane	34668
Ethylbenzene	34371
Methylene chloride	34423
pH	00400
Specific conductance	00095
Styrene	77128
Tetrachloroethane	34475
Toluene	34010
Total organic carbon	00680
Trans-1,2-Dichloroethane	34546
Trans-1,3-Dichloropropene	34699
Trichloroethene	39180
Trichlorofluoromethane	34488
Vinyl chloride	39175
Xylene	81551

Table 30A.--*Results of analyses of specific conductance, pH, total organic carbon, and volatile organic compounds, and GC-FID analyses of ground-water quality samples collected in the High Point Lake watershed*
[<, less than; --, no data]

SITE IDENTIFICATION NUMBER (Table 9)	DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	DICHLOROBROMOMETHANE TOTAL (UG/L) (32101)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	BROMOFORM TOTAL (UG/L) (32104)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)
360131079555801	09-27-89	1330	157	6.6	0.2	<0.20	<0.20	<0.20	<0.20	<0.20
360249079565101	09-27-89	1640	182	6.4	0.3	<0.20	<0.20	<0.20	<0.20	<0.20
360252079560401	09-27-89	1210	164	7.2	0.2	<0.20	<0.20	<0.20	<0.20	<0.20
360313080010301	09-27-89	1510	108	6.8	0.2	<0.20	<0.20	<0.20	<0.20	<0.20
360319080004801	09-27-89	1420	81	6.5	0.2	<0.20	<0.20	<0.20	<0.20	<0.20
360319080012201	09-27-89	1445	85	6.2	0.2	<0.20	<0.20	<0.20	<0.20	<0.20
360342079591901	09-27-89	1540	95	6.8	0.2	<0.20	<0.20	<0.20	<0.20	<0.20
360413079575801	09-27-89	1600	74	6.8	0.2	<0.20	<0.20	<0.20	<0.20	<0.20

SITE IDENTIFICATION NUMBER (Table 9)	DATE	TIME	CHLOROFORM TOTAL (UG/L) (32106)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLOROETHANE TOTAL (UG/L) (34311)	ETHYLBENZENE TOTAL (UG/L) (34371)	METHYLBROMIDE TOTAL (UG/L) (34413)	METHYLCHLORIDE TOTAL (UG/L) (34418)
360131079555801	09-27-89	1330	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360249079565101	09-27-89	1640	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360252079560401	09-27-89	1210	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360313080010301	09-27-89	1510	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360319080004801	09-27-89	1420	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360319080012201	09-27-89	1445	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360342079591901	09-27-89	1540	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360413079575801	09-27-89	1600	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Table 30A.--*Results of analyses of specific conductance, pH, total organic carbon, and volatile organic compounds, and GC-FID analyses of ground-water quality samples collected in the High Point Lake watershed*--Continued
[<, less than; --, no data]

SITE IDENTIFICATION NUMBER (Table 9)	DATE	TIME	METHYL-ENE CHLO-RIDE TOTAL (UG/L) (34423)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1,2,2 TETRA-CHLORO-ETHANE TOTAL (UG/L) (34516)
360131079555801	09-27-89	1330	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360249079565101	09-27-89	1640	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360252079560401	09-27-89	1210	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360313080010301	09-27-89	1510	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360319080004801	09-27-89	1420	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360319080012201	09-27-89	1445	<0.20	<0.20	<0.20	<0.20	<0.20	1.0	<0.20	<0.20
360342079591901	09-27-89	1540	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360413079575801	09-27-89	1600	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

SITE IDENTIFICATION NUMBER (Table 9)	DATE	TIME	1,2-DI-CHLORO-BENZENE TOTAL (UG/L) (34536)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	1,2-TRANSDI CHLORO-ETHENE TOTAL (UG/L) (34546)	1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34561)	1,3-DI-CHLORO-BENZENE TOTAL (UG/L) (34566)	1,4-DI-CHLORO-BENZENE TOTAL (UG/L) (34571)	2-CHLORO-ETHYL-VINYL-ETHER TOTAL (UG/L) (34576)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)
360131079555801	09-27-89	1330	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360249079565101	09-27-89	1640	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360252079560401	09-27-89	1210	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360313080010301	09-27-89	1510	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360319080004801	09-27-89	1420	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360319080012201	09-27-89	1445	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360342079591901	09-27-89	1540	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
360413079575801	09-27-89	1600	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Table 30A.--*Results of analyses of specific conductance, pH, total organic carbon, and volatile organic compounds, and GC-FID analyses of ground-water quality samples collected in the High Point Lake watershed*--Continued
[<, less than; --, no data]

SITE IDENTIFICATION NUMBER (Table 9)	DATE	TIME	TRANS-1,3-DICHLOROPROPENE, TOTAL (UG/L) (34699)	CIS-1,3-DICHLOROPROPENE, TOTAL (UG/L) (34704)	VINYL CHLORIDE TOTAL (UG/L) (39175)	TRICHLOROETHYLENE, TOTAL (UG/L) (39180)	DEPTH OF WELL, TOTAL (FEET) (72008)	STYRENE, TOTAL (UG/L) (77128)	DIBROMOETHANE WATER WHOLE, TOTAL (UG/L) (77651)	1,2-XYLENE TOTAL WATER WHOLE, TOTAL (UG/L) (81551)	GC/FID (WATER) (UG/L)	REMARKS
360131079555801	09-27-89	1330	<0.20	<0.20	<0.20	<0.2	62.00	<0.2	<0.2	<0.2	0.9	No other volatiles detected.
360249079565101	09-27-89	1640	<0.20	<0.20	<0.20	<0.2	--	<0.2	<0.2	<0.2	1.5	No other volatiles detected.
360252079560401	09-27-89	1210	<0.20	<0.20	<0.20	<0.2	39.00	<0.2	<0.2	<0.2	1.3	No other volatiles detected.
360313080010301	09-27-89	1510	<0.20	<0.20	<0.20	<0.2	100.00	<0.2	<0.2	<0.2	0.9	No other volatiles detected.
360319080004801	09-27-89	1420	<0.20	<0.20	<0.20	<0.2	115.00	<0.2	<0.2	<0.2	1.4	No other volatiles detected.
360319080012201	09-27-89	1445	<0.20	<0.20	<0.20	<0.2	--	<0.2	<0.2	<0.2	1.0	No other volatiles detected.
360342079591901	09-27-89	1540	<0.20	<0.20	<0.20	0.2	--	<0.2	<0.2	<0.2	1.5	No other volatiles detected.
360413079575801	09-27-89	1600	<0.20	<0.20	<0.20	<0.2	117.00	<0.2	<0.2	<0.2	1.5	No other volatiles detected.

Table 31.--*Index of acid and base/neutral extractable organic compounds analyzed in stream-bottom samples collected in the High Point Lake watershed*

[Analyses in this table include tests for the following acid and base/neutral extractable organic compounds arranged numerically in table 31A by WATSTORE code; ---, no analyses performed]

Acid extractables	WATSTORE code
2,4,6-Trichlorophenol	34624
2,4-Dichlorophenol	34604
2,4-Dimethylphenol	34609
2,4-Dinitrophenol	34619
2-Chlorophenol	34589
2-Nitrophenol	34594
4,6-Dinitro-2-methylphenol	34660
4-Chloro-3-methylphenol	34455
4-Nitrophenol	34649
Pentachlorophenol	39061
Phenol	34695

Base/neutral extractables	WATSTORE code
1,2,4-Trichlorobenzene	34554
1,2,5,6-Dibenzanthracene	---
1,2-Dichlorobenzene	34539
1,4-Dichlorobenzene	34574
1,3-Dichlorobenzene	34669
2,4-Dinitrotoluene	34614
2,6-Dinitrotoluene	34629
2-Chloronaphthalene	34584
3,3'-Dichlorobenzidine	---
4-Bromophenyl phenyl ether	34639
4-Chlorophenyl phenyl ether	34644
Acenaphthene	34208
Acenaphthylene	34203
Anthracene	34223
Benzidine	---
Benzo(a)anthracene	34529
Benzo(a)pyrene	34250
Benzo(b)fluoranthene	34233
Benzo(g,h,i)perylene	34524
Benzo(k)fluoranthene	34245
bis(2-chloroethyl) ether	34276
bis(2-chloroethoxy) methane	34281
bis(2-chloroisopropyl) ether	34286
bis(2-ethylhexyl) phthalate	39102
Chrysene	34323
Di-n-butyl phthalate	39112
Di-n-octyl phthalate	34599
Diethyl phthalate	34339
Dimethyl phthalate	34344
Fluoranthene	34379
Fluorene	34384
Hexachlorobenzene	39701
Hexachlorobutadiene	39705
Hexachloroethane	34399
Hexachlorocyclopentadiene	34389
Indeno(1,2,3-c,d)pyrene	34406
Isophorone	34411
Butyl benzyl phthalate	34295
N-Nitrosodimethylamine	34441
N-Nitrosodiphenylamine	34436
N-Nitrosodi-n-propylamine	34431
Naphthalene	34445
Nitrobenzene	34450
Phenanthrene	34464
Pyrene	34472

Table 31A.--*Results of analyses of acid and base/neutral extractable organic compounds in stream-bottom samples collected in the High Point Lake watershed*
[<, less than]

SITE CODE (Fig. 1)	DATE	TIME	ACE-NAPHTHYLENE BOT.MAT (UG/KG) (34203)	ACE-NAPHTHENE BOT.MAT (UG/KG) (34208)	ANTHRACENE BOT.MAT (UG/KG) (34223)	BENZO (B) FLUORANTHENE BOT.MAT (UG/KG) (34233)	BENZO (K) FLUORANTHENE BOT.MAT (UG/KG) (34245)	BENZO (A) PYRENE BOT.MAT (UG/KG) (34250)	BIS (2-CHLOROETHYL) ETHER BOT.MAT (UG/KG) (34276)	BIS (2-CHLOROETHOXY) METHANE BOT.MAT (UG/KG) (34281)	BIS (2-CHLORO-ISOPROPYL) ETHER BOT.MAT (UG/KG) (34286)
Site 2	12-15-88	1300	<200	4.3	10.2	96.5	81.4	85.2	<200	<200	<200
Site 3	01-19-89	1630	<200	<200	<200	<400	<400	<400	<200	<200	<200
Site 8	12-14-88	1030	<200	<200	46.8	466	393	441	<200	<200	<200
Site 10	12-13-88	1500	<200	<200	<200	<400	<400	<400	<200	<200	<200

SITE CODE (Fig. 1)	DATE	TIME	N-BUTYL BENZYL PHTHALATE BOT.MAT (UG/KG) (34295)	CHRYSENE BOT.MAT (UG/KG) (34323)	DIETHYL PHTHALATE BOT.MAT (UG/KG) (34339)	DIMETHYL PHTHALATE BOT.MAT (UG/KG) (34344)	FLUORANTHENE BOT.MAT (UG/KG) (34379)	FLUORENE BOT.MAT (UG/KG) (34384)	HEXACHLOROCYCLOPENTADIENE BOT.MAT (UG/KG) (34389)	HEXACHLOROETHANE BOT.MAT (UG/KG) (34399)	INDENO (1,2,3-CD) PYRENE BOT.MAT (UG/KG) (34406)
Site 2	12-15-88	1300	<200	102	<200	<200	470	4.7	<200	<200	46.5
Site 3	01-19-89	1630	<200	22.4	<200	<200	93.7	<200	<200	<200	<400
Site 8	12-14-88	1030	<200	431	<200	<200	4,740	5.5	<200	<200	403
Site 10	12-13-88	1500	<200	<400	<200	<200	<200	<200	<200	<200	<400

Table 31A.--*Results of analyses of acid and base/neutral extractable organic compounds in stream-bottom samples collected in the High Point Lake watershed*--Continued
[<, less than]

SITE CODE (Fig. 1)	DATE	TIME	ISO-PHORONE BOT.MAT (UG/KG) (34411)	N-NITRO-SODI-N-PROPYL-AMINE BOT.MAT (UG/KG) (34431)	N-NITRO-SODI-PHENY-LAMINE BOT.MAT (UG/KG) (34436)	N-NITRO-SODI-METHY-LAMINE BOT.MAT (UG/KG) (34441)	NAPHTH-ALENE BOT.MAT (UG/KG) (34445)	NITRO-BENZENE BOT.MAT (UG/KG) (34450)	PARA-CHLORO-META CRESOL BOT.MAT (UG/KG) (34455)	PHENAN-THRENE BOT.MAT (UG/KG) (34464)	PYRENE BOT.MAT (UG/KG) (34472)
Site 2	12-15-88	1300	<200	<200	<200	<200	<200	<200	<600	126	492
Site 3	01-19-89	1630	<200	<200	<200	<200	<200	<200	<600	27.3	105
Site 8	12-14-88	1030	<200	<200	<200	<200	6.5	<200	<600	211	6,080
Site 10	12-13-88	1500	<200	<200	<200	<200	<200	<200	<600	<200	<200

SITE CODE (Fig. 1)	DATE	TIME	BENZO (G,H,I) PERYLENE 1,12-BENZO-PERYLENE BOT.MAT (UG/KG) (34524)	BENZO (A) ANTHRA-CENE 1,2 BOT.MAT (UG/KG) (34529)	1,2-DI-CHLORO-BENZENE BOT.MAT (UG/KG) (34539)	1,2,4-TRI-CHLORO-BENZENE BOT.MAT (UG/KG) (34554)	1,2,5,6-DIBENZ-ANTHRA-CENE BOT.MAT (UG/KG) (34559)	1,3-DI-CHLORO-BENZENE BOT.MAT (UG/KG) (34569)	1,4-DI-CHLORO-BENZENE BOT.MAT (UG/KG) (34574)	2-CHLORO-NAPH-THALENE BOT.MAT (UG/KG) (34584)	2-CHLORO-PHENOL BOT.MAT (UG/KG) (34589)
Site 2	12-15-88	1300	<400	72.2	<200	<200	<400	<200	<200	<200	<200
Site 3	01-19-89	1630	<400	30.9	<200	<200	<400	<200	<200	<200	<200
Site 8	12-14-88	1030	346	303	<200	<200	235	<200	<200	<200	<200
Site 10	12-13-88	1500	<400	<400	<200	<200	<400	<200	<200	<200	<200

Table 31A.--*Results of analyses of acid and base/neutral extractable organic compounds in stream-bottom samples collected in the High Point Lake watershed*--Continued
[<, less than]

SITE CODE (Fig. 1)	DATE	TIME	2-NITROPHENOL BOT.MAT (UG/KG) (34594)	DI-N-OCTYL PHTHALATE BOT.MAT (UG/KG) (34599)	2,4-DICHLOROPHENOL BOT.MAT (UG/KG) (34604)	2,4-DP, IN BOTTOM MAT. (UG/KG) (34609)	2,4-DINITROTOLUENE BOT.MAT (UG/KG) (34614)	2,4-DINITROPHENOL BOT.MAT (UG/KG) (34619)	2,4,6-TRICHLOROPHENOL BOT.MAT (UG/KG) (34624)	2,6-DINITROTOLUENE BOT.MAT (UG/KG) (34629)	4-BROMOPHENYL PHENYL ETHER BOT.MAT (UG/KG) (34639)
Site 2	12-15-88	1300	<200	<400	<200	<200	<200	<600	<600	<200	<200
Site 3	01-19-89	1630	<200	<400	<200	<200	<200	<600	<600	<200	<200
Site 8	12-14-88	1030	<200	<400	<200	<200	<200	<600	<600	<200	<200
Site 10	12-13-88	1500	<200	<400	<200	<200	<200	<600	<600	<200	<200

SITE CODE (Fig. 1)	DATE	TIME	4-CHLOROPHENYL PHENYL ETHER, TOTAL (UG/KG) (34641)	4-NITROPHENOL BOT.MAT (UG/KG) (34649)	4,6-DINITRO-ORTHO-CRESOL BOT.MAT (UG/KG) (34660)	PHENOL (C6H5OH) BOT.MAT (UG/KG) (34695)	PENTACHLOROPHENOL BOT.MAT (UG/KG) (39061)	BIS (2-ETHYL HEXYL) PHTHALATE BOT.MAT (UG/KG) (39102)	DI-N-BUTYL PHTHALATE BOT.MAT (UG/KG) (39112)	HEXACHLOROBENZENE TOT. IN BOTTOM MAT. (UG/KG) (39701)	HEXACHLOROBUTADIENE BOT.MAT (UG/KG) (39705)
Site 2	12-15-88	1300	<200	<600	<600	<200	<600	<200	<200	<200	<200
Site 3	01-19-89	1630	<200	<600	<600	<200	<600	177	<200	<200	<200
Site 8	12-14-88	1030	<200	<600	<600	<200	<600	1,080	<200	<200	<200
Site 10	12-13-88	1500	<200	<600	<600	<200	<600	<200	<200	<200	<200

Table 32.--*Index of compounds analyzed in selected streambed samples collected in the High Point Lake watershed*

[Analyses in this table include results of GC/FID scans and GC/MS analyses for the following compounds shown in tables 32A and 32B]

Compounds
Acetic acid, butyl ester
Alcohol
Aliphatic with nitrogen
Alkanes, unknown, total
Alkenes/Cycloalkanes, total
Benzene, 1,2-dimethyl-;(o-xylene)
Benzene, 1,3-dimethyl-;(m-xylene)
Benzene, 2-Ethyl-1,4-dimethyl
Benzoic acid
Benzothiazole
Cyclohexane, 4-ethenyl-
Dodecane
Dione, 3-Ethyl-4-methyl-1H-pyrrole-2,5-
Furandione, 1,3-isobenzo-
Heptadecane
Hexadecane
Hexadecanoic acid
Hexadecanoic acid, methyl ester, (z)-9-
Hexadecanoic acid, methyl ester,
1-Hexadecanol
2-Hexadecen-1-ol, 3,7,11,15-tetramethyl
Hexanol, 2-ethyl-1-
Iso-octanol
Limonene
Methylbenzene ;(toluene)
Methyl ester, organic acid
Methyl ester, organic ester
Organic acid
Pentadecane
Pentadecanoic acid, methyl ester
Sulfur, molecular
Terpinine, gamma
Tetradecane
Tetradecanoic acid, methyl ester
Tetradecanoic acid
Undecane
Unknown

Table 32A.--*Results of analyses of selected streambed samples collected in the High Point Lake watershed for compounds identified by GC/FID scans*

SITE CODE (Fig. 1)	DATE	TIME	TOTAL CONCENTRATION OF UNSPECIFIED CARBON COMPOUNDS (UG/KG)
Site 2	12-15-88	1300	4,900
	12-15-88	1330	4,800
Site 3	01-19-89	1630	3,300
Site 4	12-13-88	1345	260
Site 5	12-15-88	1015	2,000
Site 6	12-14-88	1430	440
Site 7	12-14-88	1200	950
Site 8	12-14-88	1030	570,000
Site 9	12-14-88	0930	450
Site 10	12-13-88	1500	4,000

Table 32B.--*Results of analyses of selected streambed samples collected in the High Point Lake watershed for compounds identified by National Bureau of Standards library search of chromatographs from GC/MS analyses*
[Values are in micrograms per kilogram; --, no data]

SITE CODE (Fig. 1)	DATE	TIME	ACETIC ACID, BUTYL ESTER	ALCOHOL	ALIPHATIC WITH NITROGEN	ALKANES, UNKNOWN, TOTAL	ALKENES/ CYCLOALKANES, TOTAL	BENZENE, 1,2-DIMETHYL-(XYLENE)	BENZENE, 1,3-DIMETHYL (XYLENE)	BENZENE, 2-ETHYL-1,4-DIMETHYL	BENZOIC ACID	BENZOTHIAZOLE	CYCLOHEXANE, 4-ETHENYL-	DODECANE	DIONE, 3-ETHYL-4-METHYL-1H-PYRROLE-2,5-	FURANDIONE, 1,3-ISOBENZO-	HEPTADECANE	HEXADECANE	HEXADECANOIC ACID	HEXADECANOIC ACID, METHYL ESTER, (Z)-9-	HEXADECANOIC ACID, METHYL ESTER
Site 2	12-15-88	1300	--	--	40	57	31	4	10	--	--	--	--	--	--	4	10	10	--	70	30
Site 3	01-19-89	1630	--	--	--	20	50	--	--	20	--	--	--	--	--	--	--	--	60	80	60
Site 8	12-14-88	1030	40	70	--	810	588	--	--	--	30	--	8	20	30	--	--	--	--	--	--
Site 10	12-13-88	1500	--	--	10	46	--	--	--	--	30	40	--	--	--	--	--	--	--	--	--

SITE CODE (Fig. 1)	DATE	TIME	1-HEXADECANOL	2-HEXADECEN-1-OL, 3,7,11,15-TETRAMETHYL	HEXANOL, 2-ETHYL-1-	ISOOCTANOL	LIMONENE	METHYLBENZENE (TOLUENE)	METHYL ESTER, ORGANIC ACID	METHYL ESTER, ORGANIC ACID	ORGANIC ACID	PENTADECANE	PENTADECANOIC ACID, METHYL ESTER	SULFUR, MOLECULAR	TERPINENE, GAMMA	TETRADECANE	TETRADECANOIC ACID, METHYL ESTER	TETRADECANOIC ACID	TRIDECANE	UNDECANE	UNKNOWN
Site 2	12-15-88	1300	7	--	--	--	--	4	54	--	--	20	10	10	--	10	20	--	--	--	5
Site 3	01-19-89	1630	--	240	--	--	50	--	--	--	--	--	--	200	20	--	10	30	--	--	100
Site 8	12-14-88	1030	--	--	300	100	--	--	120	--	20	--	--	40	--	90	--	--	60	30	30
Site 10	12-13-88	1500	--	--	--	--	--	--	55	--	--	--	--	--	--	--	--	--	--	--	10

Table 33.--*Index of nutrients and metals analyzed in lake-bottom samples collected from Oak Hollow and High Point Lakes*

[Analyses in this table include tests for the following constituents arranged numerically in table 33A by WATSTORE code]

Constituent	WATSTORE code
Ammonia nitrogen as N	00611
Ammonia plus organic nitrogen as N	00626
Arsenic	01003
Cadmium	01028
Chromium	01029
Cobalt	01038
Copper	01043
Depth at sample location	81903
Iron	01170
Lead	01052
Manganese	01053
Mercury	71921
Nitrite plus nitrate nitrogen as N	00633
Phosphorus as P	00668
Zinc	01093

Table 33A.--*Results of analyses of nutrients and metals in lake-bottom samples collected from Oak Hollow and High Point Lakes*
[<, less than]

SITE CODE (Fig. 1)	DATE	TIME	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITROGEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)
Site A	08-02-89	1300	3.00	120	1,100	<10	290	2	<10
Site B	08-02-89	1400	4.00	130	1,500	<10	330	3	6
Site C	08-02-89	1100	11.7	43	1,400	<10	240	<1	7
Site D	08-02-89	1015	4.00	120	1,200	<10	510	5	7
Site E	08-01-89	0830	6.50	160	600	<10	530	2	1
	08-01-89	0845	6.50	150	810	<10	390	2	3
Site F	07-31-89	1630	14.6	140	1,600	<10	570	2	5
Site G	08-02-89	1200	33.5	54	2,500	<10	820	5	5
Site H	08-01-89	1015	31.0	100	2,000	<10	360	5	5

SITE CODE (Fig. 1)	DATE	TIME	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)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)
Site A	08-02-89	1300	10	<50	30	<100	180	120	8,400	0.06
Site B	08-02-89	1400	10	<50	20	<100	270	60	11,000	0.06
Site C	08-02-89	1100	10	<50	20	<100	470	40	7,500	0.05
Site D	08-02-89	1015	20	<50	20	<100	280	60	11,000	0.08
Site E	08-01-89	0830	20	<50	210	<100	320	100	11,000	0.12
	08-01-89	0845	20	<50	210	<100	350	120	15,000	0.12
Site F	07-31-89	1630	20	<50	40	<100	440	70	17,000	0.09
Site G	08-02-89	1200	20	<50	30	<100	1,000	60	18,000	0.09
Site H	08-01-89	1015	30	<50	60	<100	920	100	25,000	0.16

Table 34.--*Index of organic pesticides analyzed in lake-bottom samples collected from Oak Hollow and High Point Lakes*

[Analyses in this table include tests for the following constituents arranged numerically in table 34A by WATSTORE code]

Constituent	WATSTORE code
2,4-DP	34609
Aldrin	39333
Chlordane	39351
DDD	39363
DDE	39368
DDT	39373
Depth at sample location	81903
Diazinon	39571
Dieldrin	39383
Endosulfan	39389
Endrin	39393
Ethion	39399
Heptachlor	39413
Heptachlor epoxide	39423
Hexachlorobenzene	39701
Lindane	39343
Malathion	39531
Methoxychlor	39481
Methyl parathion	39601
Methyl trithion	39791
Mirex	39758
Parathion	39541
Perthane	81886
Polychlorinated biphenyls (PCB)	39519
Toxaphene	39403
Trithion	39787

Table 34A.--*Results of analyses of organic pesticides in lake-bottom samples collected from Oak Hollow and High Point Lakes*
[<, less than]

SITE CODE (Fig. 1)	DATE	TIME	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	2,4-DP, IN BOTTOM MAT. (UG/KG) (34609)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	LINDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)
Site A	08-02-89	1300	3.00	<200	<3.0	<0.1	46	2.0	0.8	0.4
Site B	08-02-89	1400	4.00	<200	<0.6	<0.1	16	0.8	0.8	1.0
Site C	08-02-89	1100	11.7	<200	<0.1	<0.1	7.0	0.6	1.7	0.7
Site D	08-02-89	1015	4.00	<200	<0.1	<0.1	2.0	1.7	2.1	0.4
Site E	08-01-89	0830	6.50	<200	<3.0	<0.1	45	4.0	6.1	3.5
	08-01-89	0845	6.50	<200	<3.0	<0.1	44	3.2	5.7	1.9
Site F	07-31-89	1630	14.6	<200	<0.1	<0.1	6.0	1.2	0.8	0.3
Site G	08-02-89	1200	33.5	<200	<0.1	<0.1	10	1.1	0.1	<0.1
Site H	08-01-89	1015	31.0	<200	<0.1	<0.1	4.0	4.3	3.0	2.4

Table 34A.--*Results of analyses of organic pesticides in lake-bottom samples collected from Oak Hollow and High Point Lakes*--Continued
[<, less than]

SITE CODE (Fig. 1)	DATE	TIME	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39383)	ENDO-SULFAN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39393)	ETHION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39399)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39403)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39413)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MAT. (UG/KG) (39423)	METH-OXY-CHLOR, TOT. IN BOTTOM MAT. (UG/KG) (39481)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)
Site A	08-02-89	1300	0.1	<0.1	<0.1	<0.1	<10	<0.4	0.1	<0.1	15
Site B	08-02-89	1400	0.2	<0.1	<0.1	<0.1	<10	<0.1	<0.1	<0.1	6
Site C	08-02-89	1100	0.3	<0.1	<0.1	<0.1	<10	<0.1	<0.1	<0.1	<1
Site D	08-02-89	1015	0.2	<0.1	<0.1	<0.1	<10	<0.1	0.1	<0.1	4
Site E	08-01-89	0830	1.6	<0.1	<0.1	<0.1	<10	<0.4	0.1	<0.1	14
	08-01-89	0845	1.4	<0.1	<0.1	<0.1	<10	<0.4	0.2	<0.1	16
Site F	07-31-89	1630	0.2	<0.1	<0.1	<0.1	<10	<0.1	<0.1	<0.1	4
Site G	08-02-89	1200	0.3	<0.1	<0.1	<0.1	<10	<0.1	<0.1	<0.1	11
Site H	08-01-89	1015	<0.1	<0.1	<0.1	<10	<10	<0.1	<0.1	<0.1	15

Table 34A.--*Results of analyses of organic pesticides in lake-bottom samples collected from Oak Hollow and High Point Lakes*--Continued
[<, less than]

SITE CODE (Fig. 1)	DATE	TIME	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	METHYL PARATHION, TOT. IN BOTTOM MAT. (UG/KG) (39601)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG) (39758)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	METHYL TRITHION, TOT. IN BOTTOM MAT. (UG/KG) (39791)	HEXACHLOROBENZENE TOT. IN BOTTOM MAT. (UG/KG) (39701)	PERTHANE IN BOTTOM MATERIAL (UG/KG) (81886)
Site A	08-02-89	1300	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<200	<1.00
Site B	08-02-89	1400	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<200	<1.00
Site C	08-02-89	1100	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<200	<1.00
Site D	08-02-89	1015	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<200	<1.00
Site E	08-01-89	0830	<0.1	<0.1	1.2	<0.1	<0.1	<0.1	<0.1	<200	<1.00
	08-01-89	0845	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<200	<1.00
Site F	07-31-89	1630	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<200	<1.00
Site G	08-02-89	1200	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<200	<1.00
Site H	08-01-89	1015	<10	<10	<10	<10	<0.1	<10	<10	<200	<1.00

Table 35.--*Index of acid and base/neutral extractable organic compounds analyzed in lake-bottom samples collected from Oak Hollow and High Point Lakes*

[Analyses in this table include tests for the following compounds arranged numerically in table 35A by WATSTORE code; ---, no analyses performed]

Acid extractables	WATSTORE code
2,4,6-Trichlorophenol	34624
2,4-Dichlorophenol	34604
2,4-Dimethylphenol	34609
2,4-Dinitrophenol	34619
2-Chlorophenol	34589
2-Nitrophenol	34594
4,6-Dinitro-2-methylphenol	34660
4-Chloro-3-methylphenol	34455
4-Nitrophenol	34649
Pentachlorophenol	39061
Phenol	34695

Base/neutral extractables	WATSTORE code
1,2,4-Trichlorobenzene	34554
1,2,5,6-Dibenzanthracene	---
1,2-Dichlorobenzene	34539
1,4-Dichlorobenzene	34574
1,3-Dichlorobenzene	34669
2,4-Dinitrotoluene	34614
2,6-Dinitrotoluene	34629
2-Chloronaphthalene	34584
3,3'-Dichlorobenzidine	---
4-Bromophenyl phenyl ether	34639
4-Chlorophenyl phenyl ether	34644
Acenaphthene	34208
Acenaphthylene	34203
Anthracene	34223
Benzidine	---
Benzo(a)anthracene	34529
Benzo(a)pyrene	34250
Benzo(b)fluoranthene	34233
Benzo(g,h,i)perylene	34524
Benzo(k)fluoranthene	34245
bis(2-chloroethyl) ether	34276
bis(2-chloroethoxy) methane	34281
bis(2-chloroisopropyl) ether	34286
bis(2-ethylhexyl) phthalate	39102
Chrysene	34323
Di-n-butyl phthalate	39112
Di-n-octyl phthalate	34599
Diethyl phthalate	34339
Dimethyl phthalate	34344
Fluoranthene	34379
Fluorene	34384
Hexachlorobenzene	39701
Hexachlorobutadiene	39705
Hexachloroethane	34399
Hexaclorocyclopentadiene	34389
Indeno(1,2,3-c,d)pyrene	34406
Isophorone	34411
N-Butyl benzyl phthalate	34295
N-Nitrosodimethylamine	34441
N-Nitrosodiphenylamine	34436
N-Nitrosodi-n-propylamine	34431
Naphthalene	34445
Nitrobenzene	34450
Phenanthrene	34464
Pyrene	34472

Table 35A.--*Results of analyses of acid and base/neutral extractable organic compounds in lake-bottom samples collected from Oak Hollow and High Point Lakes*
[<, less than]

SITE CODE (Fig. 1)	DATE	TIME	DEPTH AT SAMPLE LOCATION, TOTAL (FEET) (81903)	ACENAPHTHYLENE BOT.MAT (UG/KG) (34203)	ACENAPHTHENE BOT.MAT (UG/KG) (34208)	ANTHRACENE BOT.MAT (UG/KG) (34223)	BENZO (B) FLUORANTHENE BOT.MAT (UG/KG) (34233)	BENZO (K) FLUORANTHENE BOT.MAT (UG/KG) (34245)	BENZO (A) PYRENE BOT.MAT (UG/KG) (34250)	BIS (2-CHLOROETHYL) ETHER BOT.MAT (UG/KG) (34276)	BIS (2-CHLOROETHOXY) METHANE BOT.MAT (UG/KG) (34281)
Site A	08-02-89	1300	3.00	<200	<200	250	2,700	2,900	1,800	<200	<200
Site B	08-02-89	1400	4.00	<200	<200	<200	<400	<400	450	<200	<200
Site C	08-02-89	1100	11.7	<200	<200	<200	<400	<400	<400	<200	<200
Site D	08-02-89	1015	4.00	<200	<200	<200	<400	<400	<400	<200	<200
Site E	08-01-89	0830	6.50	<200	<200	<200	510	490	590	<200	<200
	08-01-89	0845	6.50	<200	<200	<200	970	560	550	<200	<200
Site F	07-31-89	1630	14.6	<200	<200	<200	<400	<400	<400	<200	<200
Site G	08-02-89	1200	33.5	<200	<200	<200	<400	<400	<400	<200	<200
Site H	08-01-89	1015	31.0	<200	<200	<200	<400	<400	640	<200	<200

SITE CODE (Fig. 1)	DATE	TIME	BIS (2-CHLOROISOPROPYL) ETHER BOT.MAT (UG/KG) (34286)	N-BUTYL BENZYL PHTHALATE BOT.MAT (UG/KG) (34295)	CHRYSENE BOT.MAT (UG/KG) (34323)	DIETHYL PHTHALATE BOT.MAT (UG/KG) (34339)	DIMETHYL PHTHALATE BOT.MAT (UG/KG) (34344)	FLUORANTHENE BOT.MAT (UG/KG) (34379)	FLUORENE BOT.MAT (UG/KG) (34384)	HEXACHLOROCYCLOPENTADIENE BOT.MAT (UG/KG) (34389)	HEXACHLOROETHANE BOT.MAT (UG/KG) (34399)	INDENO (1,2,3-CD) PYRENE BOT.MAT (UG/KG) (34406)
Site A	08-02-89	1300	<200	480	4,400	<200	<200	4,300	<200	<200	<200	1,400
Site B	08-02-89	1400	<200	<200	<400	<200	<200	210	<200	<200	<200	<400
Site D	08-02-89	1100	<200	<200	<400	<200	<200	<200	<200	<200	<200	<400
Site C	08-02-89	1015	<200	<200	<400	<200	<200	<200	<200	<200	<200	<400
Site E	08-01-89	0830	<200	<200	630	<200	<200	770	<200	<200	<200	<400
	08-01-89	0845	<200	<200	1,300	<200	<200	1,400	<200	<200	<200	780
Site F	07-31-89	1630	<200	<200	<400	<200	<200	<200	<200	<200	<200	<400
Site G	08-02-89	1200	<200	<200	<400	<200	<200	<200	<200	<200	<200	<400
Site H	08-01-89	1015	<200	<200	<400	<200	<200	<200	<200	<200	<200	<400

Table 35A.--*Results of analyses of acid and base/neutral extractable organic compounds in lake-bottom samples collected from Oak Hollow and High Point Lakes*--Continued
[<, less than]

SITE CODE (Fig. 1)	DATE	TIME	ISO-PHORONE BOT.MAT (UG/KG) (34411)	N-NITRO-SODI-N-PROPYL-AMINE BOT.MAT (UG/KG) (34431)	N-NITRO-SODI-PHENY-LAMINE BOT.MAT (UG/KG) (34436)	N-NITRO-SODI-METHY-LAMINE BOT.MAT (UG/KG) (34441)	NAPHTH-ALENE BOT.MAT (UG/KG) (34445)	NITRO-BENZENE BOT.MAT (UG/KG) (34450)	PARA-CHLORO-META CRESOL BOT.MAT (UG/KG) (34455)	PHENAN-THRENE BOT.MAT (UG/KG) (34464)	PYRENE BOT.MAT (UG/KG) (34472)	BENZO (G,H,I) PERYL ENE 1,12-BENZOP ERYLENE BOT.MAT (UG/KG) (34524)
Site A	08-02-89	1300	<200	<200	<200	<200	<200	<200	<600	1,800	3,400	1,500
Site B	08-02-89	1400	<200	<200	<200	<200	<200	<200	<600	<200	<200	<400
Site C	08-02-89	1100	<200	<200	<200	<200	<200	<200	<600	<200	<200	<400
Site D	08-02-89	1015	<200	<200	<200	<200	<200	<200	<600	<200	<200	<400
Site E	08-01-89	0830	<200	<200	<200	<200	<200	<200	<600	400	720	<400
	08-01-89	0845	<200	<200	<200	<200	<200	<200	<600	810	1,200	660
Site F	07-31-89	1630	<200	<200	<200	<200	<200	<200	<600	<200	<200	<400
Site G	08-02-89	1200	<200	<200	<200	<200	<200	<200	<600	<200	<200	<400
Site H	08-01-89	1015	<200	<200	<200	<200	<200	<200	<600	<200	<200	<400

SITE CODE (Fig. 1)	DATE	TIME	BENZO (A) ANTHRA-CENE 1,2-BENZAN-THRACENE BOT.MAT (UG/KG) (34529)	1,2-DI-CHLORO-BENZENE BOT.MAT (UG/KG) (34539)	1,2,4-TRI-CHLORO-BENZENE BOT.MAT (UG/KG) (34554)	1,2,5,6-DIBENZ-ANTHRA-CENE BOT.MAT (UG/KG) (34559)	1,3-DI-CHLORO-BENZENE BOT.MAT (UG/KG) (34569)	1,4-DI-CHLORO-BENZENE BOT.MAT (UG/KG) (34574)	2-CHLORO-NAPH-THALENE BOT.MAT (UG/KG) (34584)	2-CHLORO-PHENOL BOT.MAT (UG/KG) (34589)	2-NITRO-PHENOL BOT.MAT (UG/KG) (34594)	DI-N-OCTYL PHTHAL-ATE BOT.MAT (UG/KG) (34599)
Site A	08-02-89	1300	2,300	<200	<200	<400	<200	<200	<200	<200	<200	<400
Site B	08-02-89	1400	<400	<200	<200	<400	<200	<200	<200	<200	<200	<400
Site C	08-02-89	1100	<400	<200	<200	<400	<200	<200	<200	<200	<200	<400
Site D	08-02-89	1015	<400	<200	<200	<400	<200	<200	<200	<200	<200	<400
Site E	08-01-89	0830	570	<200	<200	<400	<200	<200	<200	<200	<200	<400
	08-01-89	0845	1,000	<200	<200	<400	<200	<200	<200	<200	<200	<400
Site F	07-31-89	1630	<400	<200	<200	<400	<200	<200	<200	<200	<200	<400
Site G	08-02-89	1200	<400	<200	<200	<400	<200	<200	<200	<200	<200	<400
Site H	08-01-89	1015	<400	<200	<200	<400	<200	<200	<200	<200	<200	<400

Table 35A.--*Results of analyses of acid and base/neutral extractable organic compounds in lake-bottom samples collected from Oak Hollow and High Point Lakes*--Continued
[<, less than; --, no data]

SITE CODE (Fig. 1)	DATE	TIME	2,4-DI-CHLORO-PHENOL BOT.MAT (UG/KG) (34604)	2,4-DP, IN BOTTOM MAT. (UG/KG) (34609)	2,4-DI-NITRO-TOLUENE BOT.MAT (UG/KG) (34614)	2,4-DI-NITRO-PHENOL BOT.MAT (UG/KG) (34619)	2,4,6-TRI-CHLORO-PHENOL BOT.MAT (UG/KG) (34624)	2,6-DI-NITRO-TOLUENE BOT.MAT (UG/KG) (34629)	4-BROMO-PHENYL PHENYL ETHER BOT.MAT (UG/KG) (34639)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (UG/KG) (34644)	4-NITRO-PHENOL BOT.MAT (UG/KG) (34649)
Site A	08-02-89	1300	<200	<200	<200	<600	<600	<200	<200	--	<600
Site B	08-02-89	1400	<200	<200	<200	<600	<600	<200	<200	--	<600
Site C	08-02-89	1100	<200	<200	<200	<600	<600	<200	<200	--	<600
Site D	08-02-89	1015	<200	<200	<200	<600	<600	<200	<200	--	<600
Site E	08-01-89	0830	<200	<200	<200	<600	<600	<200	<200	--	<600
	08-01-89	0845	<200	<200	<200	<600	<600	<200	<200	--	<600
Site F	07-31-89	1630	<200	<200	<200	<600	<600	<200	<200	--	<600
Site G	08-02-89	1200	<200	<200	<200	<600	<600	<200	<200	--	<600
Site H	08-01-89	1015	<200	<200	<200	<600	<600	<200	<200	--	<600

SITE CODE (Fig. 1)	DATE	TIME	4,6-DINITRO-ORTHO-CRESOL BOT.MAT (UG/KG) (34660)	PHENOL (C6H-5OH) BOT.MAT (UG/KG) (34695)	PENTA-CHLORO-PHENOL BOT.MAT (UG/KG) (39061)	BIS (2-ETHYL HEXYL) PHTHAL-ATE BOT.MAT (UG/KG) (39102)	DI-N-BUTYL PHTHAL-ATE BOT.MAT (UG/KG) (39112)	PCN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39251)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	HEXA-CHLORO-BENZENE TOT. IN BOTTOM MAT. (UG/KG) (39701)	HEXA-CHLORO-BUTA-DIENE BOT.MAT (UG/KG) (39705)
Site A	08-02-89	1300	<600	<200	<600	4,000	<200	<1.0	15	<200	<200
Site B	08-02-89	1400	<600	<200	<600	<200	<200	<1.0	6	<200	<200
Site C	08-02-89	1100	<600	<200	<600	310	<200	<1.0	<1	<200	<200
Site D	08-02-89	1015	<600	<200	<600	<200	<200	<1.0	4	<200	<200
Site E	08-01-89	0830	<600	<200	<600	1,700	<200	<1.0	14	<200	<200
	08-01-89	0845	<600	<200	<600	2,200	<200	<1.0	16	<200	<200
Site F	07-31-89	1630	<600	<200	<600	230	<200	<1.0	4	<200	<200
Site G	08-02-89	1200	<600	<200	<600	<200	<200	<1.0	11	<200	<200
Site H	08-01-89	1015	<600	<200	<600	320	<200	<1.0	15	<200	<200

Table 36.--*Results of National Bureau of Standards library search of chromatographs from GC/MS analyses of lake-bottom sediment samples collected from Oak Hollow and High Point Lakes from July 31 through August 2, 1989*
[Sites are located in figure 1; --, no data]

Constituent	Site A (ug/kg)	Site B (ug/kg)	Site C (ug/kg)	Site D (ug/kg)	Site E (ug/kg)	Site E (ug/kg)	Site F (ug/kg)	Site G (ug/kg)	Site H (ug/kg)
Acridine	100	--	--	--	--	--	--	--	--
Alkanes, total	1,340	180	260	480	80	320	450	320	130
Alkenes/Cycloalkanes, total	480	1,190	450	440	620	1,130	760	1,140	--
Alkyl alcohol	60	--	--	--	--	--	--	--	--
Alloaromadendrene	--	--	--	--	--	30	--	--	--
Anisole, tertio-butyl-hydroxy-	--	--	--	50	--	--	--	--	--
Anthracene, 1-methyl-	90	--	--	--	20	--	--	--	--
Anthracene, 2-methyl-	200	--	--	--	--	90	--	--	--
9,10-Anthracenedione	400	--	--	--	--	--	--	--	--
(+)-Aromadendrene	--	--	--	--	--	30	--	--	--
Benzaldehyde	--	40	--	--	--	--	--	--	--
Benzaldehyde, 4-hydroxy-3-methoxy-	--	--	40	50	--	--	--	--	--
Benzene, methyl-	60	80		30	70	100	60	50	50
Benzene, 1,4-dimethyl-	--	--	--	--	300	200	--	--	--
Benzene, 1,1'-ethyli-dene-bis-[3,4-dimethyl]-	--	90	--	--	--	--	--	--	--
Benzene, 1,3-bis-(2,2-di-methyl-propyl)-2,4,5,6-tetramethyl-	--	--	--	400	--	--	--	--	--
Benzeneacetic acid	--	--	30	--	--	30	--	--	--
1,2-Benzenedicarboxylic acid, diethyl ester	--	--	1,000	--	--	--	--	--	--
11H-Benzo-[a]fluorene	200	--	--	--	--	--	--	--	--
11H-Benzo-[b]fluorene	200	--	--	--	--	--	--	--	--
Benzo-[g,h,i]-fluoranthene	200	--	--	--	--	--	--	--	--
2(4H)-Benzofuranone, 5,6,7,7a-tetrahydro- 4,4,7a-trimethyl-	--	--	--	--	--	--	--	30	--
Benzoic acid	60	50	--	--	--	40	--	--	--
Benzo-[b]-naphtho-[2,1-d]-thiophene	200	--	--	--	--	--	--	--	--
Bornylene	--	--	--	--	--	40	--	--	--
beta-Bourbonene	--	--	--	--	--	30	--	--	--
1-Butanamine, N-butyl-N-nitroso-	--	--	80	--	--	--	--	--	--
9H-Carbazole	200	--	--	--	30	--	--	--	--
Carp-7-en-8-one,13,13-Dimethylpodo-	--	40	50	300	--	--	--	--	--
Caryophyllene (trans)	--	--	--	40	--	100	--	--	--
Cyclohexane, 2-butyl-1,1,3-trimethyl-	60	--	--	--	--	--	--	--	--
Cyclohexane, 1,3-di-methyl-, cis-	100	60	30	50	--	300	--	--	--
Cyclohexane, 1,2-di-methyl-, cis-	300	--	100	--	100	--	--	--	--
Cyclohexane, 1,2-di-methyl-, trans-	--	300	--	--	--	200	--	--	--
Cyclohexane, 1,4-di-methyl-, trans-	--	100	--	--	--	80	--	--	--

Table 36.--*Results of National Bureau of Standards library search of chromatographs from GC/MS analyses of lake-bottom sediment samples collected from Oak Hollow and High Point Lakes from July 31 through August 2, 1989*--Continued
[Sites are located in figure 1; --, no data]

Constituent	Site A (ug/kg)	Site B (ug/kg)	Site C (ug/kg)	Site D (ug/kg)	Site E (ug/kg)	Site E (ug/kg)	Site F (ug/kg)	Site G (ug/kg)	Site H (ug/kg)
Cyclohexane, 1,3-di-methyl-, trans-	40	--	--	--	30	--	--	--	--
Cyclohexane, ethyl-	400	1,000	300	100	140	900	100	--	--
Cyclohexane, 1-ethyl-1-methyl-	--	--	300	--	--	300	40	--	--
Cyclohexane, 1-ethyl-2-methyl-, cis-	--	--	50	200	100	200	--	--	--
Cyclohexane, 1-ethyl-4-methyl-, cis-	--	90	--	30	--	--	--	--	--
Cyclohexane, 1-ethyl-4-methyl, trans-	100	800	--	400	--	80	--	--	--
Cyclohexane, (1-methyl-ethyl)-	--	--	--	--	--	--	30	--	--
Cyclohexene, 1-methyl-5-(1-methylethenyl)-	--	200	--	--	--	--	--	--	--
Cyclohexane, propyl-	80	200	50	70	60	100	--	--	--
Cyclohexane, 1,1,3-tri-methyl-	--	500	--	--	--	300	--	--	--
Cyclohexane, 1,2,4-tri-methyl	50	--	--	40	--	--	--	--	--
Cyclohexane, 1,2,4-tri-methyl-, (1 alpha., 2 beta., 4 beta)-,	200	500	50	100	200	300	--	--	--
Cyclohexane, 1,1,2-tri-methyl-	--	110	--	--	--	--	--	--	--
Cyclohexane, 1,2,3-tri-methyl-, (1 alpha, 2 alpha, 3 beta)-	--	200	--	--	--	40	--	--	--
Cyclohexane, 1,2,3-tri-methyl-, (1 alpha, 2 beta, 3 alpha)-	100	100	--	30	--	--	--	--	--
Dodecane	100	--	--	--	--	70	40	--	--
1-Dodecane	--	--	30	--	--	--	--	--	--
Dodecane, 2,6,11-tri methyl-	--	--	--	--	--	--	70	--	--
Dodecanoic acid	--	--	40	--	--	--	--	--	--
Decanoic acid, methyl ester	--	--	20	--	--	--	--	--	--
Dodecanoic acid, methyl ester	--	--	30	--	--	--	--	--	--
Eicosene	--	--	--	--	--	200	--	--	--
Elemene	--	--	--	--	30	--	--	--	--
Elemene, (-)-beta-	--	--	--	--	--	70	--	--	--
Ethane, 1,1-bis-(p-ethylphenyl)-	--	--	--	30	--	--	--	--	--
Eudesmane, 4,5-alpha, alpha-	--	--	--	80	--	50	--	--	--
Furandione, 1,3-isobenzo-	100	--	--	--	50	40	--	--	--
Heneicosane	--	--	--	--	--	--	--	30	--
Heptadecane	100	100	100	50	100	100	200	300	100
Heptane, 2,6-dimethyl-	90	--	--	--	100	250	--	--	--
Heptene-3, dimethyl-3,5-	--	--	--	--	--	--	40	--	--
Hexadecane	90	--	--	--	--	140	90	--	--
Hexadecane, 2,6,10,14-tetramethyl-	100	80	40	--	70	--	200	70	--
9-Hexadecanoic acid, methyl ester, (Z)-	200	--	100	--	200	200	--	100	--
Hexadecanoic acid, methyl ester	200	100	100	--	--	200	300	--	--

Table 36.--*Results of National Bureau of Standards library search of chromatographs from GC/MS analyses of lake-bottom sediment samples collected from Oak Hollow and High Point Lakes from July 31 through August 2, 1989*--Continued
[Sites are located in figure 1; --, no data]

Constituent	Site A (ug/kg)	Site B (ug/kg)	Site C (ug/kg)	Site D (ug/kg)	Site E (ug/kg)	Site E (ug/kg)	Site F (ug/kg)	Site G (ug/kg)	Site H (ug/kg)
9-Hexadecanoic acid	--	--	300	--	--	--	--	--	--
Hexadecanoic acid	--	300	200	--	300	300	200	300	--
2-Hexadecene, 2,6,10,14-tetramethyl-	--	--	--	--	--	--	200	--	--
Hexane, 2,3,4-tri-methyl-	80	--	90	200	--	--	--	--	--
Hexathiepane	--	--	--	--	--	--	200	--	300
2-Hexene, 3,4,4-tri-methyl-	--	400	--	--	--	--	30	--	--
Naphthalene, 1,2-dihydro--1,1,6-trimethyl-	--	90	40	--	70	70	100	70	70
Naphthalene, 1,4-dimethyl-	80	--	--	--	--	30	--	--	--
Naphthalene, 1,5-dimethyl-	--	--	--	--	--	--	--	--	50
Naphthalene, 1,6-dimethyl-	--	--	30	--	--	60	--	--	--
Naphthalene, 1,7-dimethyl-	--	50	--	--	40	--	90	50	--
Naphthalene, 2,7-dimethyl-	--	--	--	--	--	--	30	--	--
Naphthalene, 1-methyl-	--	--	--	--	--	50	--	--	--
Naphthalene, 2-methyl-	--	--	--	--	--	40	--	--	--
Naphthalene, 1,2,3,4-tetrahydro-1, 6-di-methyl-4-(1-methyl ethyl)-, (1S-cis)-	--	100	--	40	100	200	--	--	--
Naphthalene, 1,3,6-tri-methyl-	--	--	--	--	--	30	--	--	--
Naphthalene, 1,4,5-tri-methyl-	--	--	--	--	--	30	--	--	--
Neophytadiene	900	1,400	500	400	1,400	1,100	1,400	1,700	600
Nitrogen-containing	--	--	200	--	--	--	--	--	--
Nonane	500	1,000	400	500	500	1,000	300	100	200
Nonane, 4,5-dimethyl-	50	--	--	--	--	--	--	--	--
Nonanoic acid	--	--	20	--	--	--	--	--	--
Octadecane	--	--	--	--	--	--	50	--	--
9-Octadecanoic acid-(Z)-, methyl ester	--	--	--	--	40	--	--	--	--
Octane	--	200	--	--	--	--	--	--	--
Octane, 2-methyl-	--	400	--	--	--	--	--	--	--
Octane, 3-methyl-	300	700	200	200	--	200	--	--	--
Octane, 4-methyl-	--	500	--	--	80	--	30	--	--
Organic acid	400	50	50	370	--	70	90	200	--
Organic acid, methyl ester	260	100	140	770	330	200	--	40	--
Pentadecane	--	--	--	--	--	70	100	--	--
Pentadecane, 2,6,10,14-tetramethyl-	200	--	--	--	--	100	200	--	--
Pentadecanoic acid,methyl ester	--	200	--	--	--	80	80	--	--
Pentadecanoic acid, 14-methyl-, methyl ester-	--	--	--	--	200	--	--	100	--
2-Pentene, 2,4,4-trimethyl-	--	400	--	--	--	--	--	--	40

Table 36.--*Results of National Bureau of Standards library search of chromatographs from GC/MS analyses of lake-bottom sediment samples collected from Oak Hollow and High Point Lakes from July 31 through August 2, 1989*--Continued
[Sites are located in figure 1; --, no data]

Constituent	Site A (ug/kg)	Site B (ug/kg)	Site C (ug/kg)	Site D (ug/kg)	Site E (ug/kg)	Site E (ug/kg)	Site F (ug/kg)	Site G (ug/kg)	Site H (ug/kg)
2-Pentene, 3-ethyl-4,4-dimethyl-	400	--	--	--	--	--	--	--	--
Phenanthrene, -4H-Cyclopenta-[def]-	200	--	--	--	--	40	--	--	--
Phenanthrene, 3-methyl-	200	--	--	--	--	30	--	--	--
Phenanthrene, 2,4,5,7-tetramethyl-	--	--	--	--	--	200	--	--	--
Phenol, 2,6-dimethoxy-4-(2-propenyl)-	--	200	70	100	100	--	--	--	--
Phenol, 2-methoxy-4-(1-propenyl)-	--	40	--	--	70	80	30	--	--
Pyrene, 1-methyl-	80	--	--	--	--	--	--	--	--
1H-Pyrrole-2,5-dione, 3-ethyl-4-methyl-	--	--	50	--	--	--	--	40	30
Siloxane, Deca-methyl-cyclopenta-,	--	--	30	--	--	--	--	--	--
Sulfur	600	1,000	400	500	500	1,000	1,000	900	800
Terpinene, beta	--	--	--	--	--	200	--	--	--
Tetradecane	200	--	--	--	--	40	90	--	--
Tetradecanoic acid	--	100	100	--	100	200	--	200	--
Tetradecanoic acid, methyl ester	--	90	90	100	100	100	100	80	--
1-Tetradecanol	100	--	--	--	--	--	--	--	--
Totarol	--	--	--	70	--	--	--	--	--
Tricosane	--	--	50	--	--	--	--	--	--
Tridecane	200	--	--	--	--	30	50	--	--
Undecane	90	80	--	--	40	100	30	--	--
Undecane, 3,6-dimethyl-	80	--	--	--	--	--	--	--	--
Unknown	1,400	200	350	300	--	--	380	70	280
Xylene	--	--	--	--	--	--	100	60	100

Table 37.--*Results of analyses of particle sizes in bottom sediment samples collected from Oak Hollow and High Point Lakes from May 31 through June 2, 1989*
[Sites are located in figure 1; --, no data]

Particle size (mm)	Percent finer than indicated size							
	Site A	Site B	Site C	Site D	Site E	Site F	Site G	Site H
1.000	100.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0
0.500	100.0	96.8	100.0	100.0	100.0	100.0	100.0	100.0
0.350	100.0	89.2	100.0	100.0	100.0	100.0	100.0	100.0
0.250	98.8	83.6	99.0	97.4	97.6	100.0	99.8	99.8
0.177	94.6	76.0	95.6	90.4	85.6	99.8	99.4	99.4
0.125	85.2	65.2	85.4	77.2	73.8	99.2	99.8	98.4
0.088	83.2	60.2	83.8	71.8	70.4	98.6	98.4	98.0
0.074	78.4	54.0	80.6	65.8	67.0	97.0	98.0	97.8
0.062	77.4	52.2	70.8	64.0	66.2	96.6	98.0	97.4
0.060	67.3	--	--	--	--	--	--	--
0.0575	--	--	72.4	--	--	--	--	--
0.0550	--	--	--	--	--	--	--	87.0
0.0525	--	--	--	--	--	94.4	95.4	--
0.0500	--	--	--	--	--	--	--	--
0.0475	63.5	--	70.5	--	64.8	--	--	--
0.0450	--	--	--	--	--	94.1	94.8	86.7
0.0425	62.2	--	69.9	61.6	62.2	--	--	--
0.0400	--	--	--	--	--	--	--	86.7
0.0375	--	--	--	--	--	93.5	94.1	--
0.0350	--	--	--	--	--	--	--	--
0.0325	--	--	--	--	--	--	--	--
0.0300	55.2	--	65.7	58.4	59.0	--	--	--
0.0275	--	--	--	--	--	92.1	92.8	86.7
0.0250	--	--	--	--	--	--	--	--
0.0225	--	--	--	--	--	--	--	--
0.0200	47.2	51.4	55.5	49.4	54.5	--	--	--
0.0175	--	--	--	--	--	83.9	90.0	83.9
0.0150	--	--	--	--	--	--	--	78.8
0.0125	36.7	39.3	46.6	39.5	41.8	--	--	--
0.0100	--	--	--	--	--	72.1	84.9	--
0.0075	--	--	--	--	--	--	--	--
0.0070	29.6	30.9	35.4	34.5	36.0	--	--	--
0.0065	--	--	--	--	--	60.9	--	--
0.0060	26.8	29.1	32.2	31.9	32.8	--	80.1	74.3
0.0055	--	--	--	--	--	57.4	--	71.1
0.0050	24.9	26.5	30.6	30.6	31.6	--	78.8	--
0.0045	--	--	--	--	--	53.0	76.8	68.9
0.0040	--	24.2	--	29.7	29.7	50.1	64.3	66.7
0.0035	23.6	--	29.0	--	--	--	--	--
0.0030	--	--	--	--	--	--	--	--
0.0025	--	--	--	--	--	--	--	--
0.0020	--	--	25.6	--	--	--	--	--
0.0015	--	--	25.6	26.5	25.5	38.6	--	--
0.0010	20.1	21.1	--	--	--	--	64.1	55.1

☆U.S. GOVERNMENT PRINTING OFFICE: 1993-752-751