
New Jersey Pinelands Surface Water Quality Data 1990-1991



December 1991

**Prepared by the New Jersey Pinelands Commission
in Cooperation with the Cape May County,
Burlington County, and Ocean County Health Departments
and the Atlantic County Utilities Authority.**

New Jersey Pinelands
Surface Water Quality Data
1990-1991

Martha A. Windisch

Prepared by the New Jersey Pinelands Commission
in cooperation with the Cape May County,
Burlington County, and Ocean County Health Departments,
and the Atlantic County Utilities Authority

December 1991

The Pinelands Commission
P.O. Box 7
New Lisbon, New Jersey 08064

Table of Contents

	<u>Page</u>
List of Figures	vii
List of Tables	ix
Acknowledgments	xiii
Introduction	1
Surface Water Monitoring Network	1
Period of Record	2
Water Quality Parameters	2
Field Data and Sample Collection	2
Laboratory Analysis	2
Data Management	3
Presentation of Data	3
Glossary	19
 Water Quality Data Reports	
Burlington County: Wading River and Bass River	23
Burlington County: Batsto River	73
Burlington County and Atlantic County: Upper Mullica River	109
Burlington County and Atlantic County: Lower Mullica River	141
Burlington County and Ocean County: North Branch Rancocas Creek	165
Burlington County: Southwest Branch Rancocas Creek ..	211
Burlington County: South Branch Rancocas Creek	253
Cape May County and Atlantic County: Tuckahoe River and Delaware Bay Basins	289
Ocean County: Crosswicks Creek	341
Ocean County: Toms River	345

	<u>Page</u>
Ocean County: Cedar Creek, Forked River, and Oyster Creek	377
Ocean County: Mill Creek, Cedar Run, Westecunk Creek, and Tuckerton Creek	393
Atlantic County: Great Egg Harbor River	403
References	429

List of Figures

<u>Figure</u>		<u>Page</u>
1.	Pinelands Area Jurisdiction Boundaries ...	xv
2.	Mullica River Basin, Wading River and Bass River	24
3.	Mullica River Basin, Batsto River	74
4.	Mullica River Basin, Upper Mullica River..	110
5.	Mullica River Basin, Lower Mullica River..	142
6.	Rancocas Creek Basin, North Branch Rancocas Creek	166
7.	Rancocas Creek Basin, Southwest Branch Rancocas Creek	212
8.	Rancocas Creek Basin, South Branch Rancocas Creek	254
9.	Tuckahoe River Basin and Delaware Bay Basins	290
10.	Crosswicks Creek Basin	342
11.	Toms River Basin	346
12.	Minor Atlantic Basins; Cedar Creek, Forked River, Oyster Creek	378
13.	Minor Atlantic Basins; Mill Creek, Cedar Run, Westecunk Creek, Tuckerton Creek ..	394
14.	Great Egg Harbor River Basin	404

List of Tables

<u>Table</u>		<u>Page</u>
1.	Current U.S. Geological Survey Water Quality Monitoring Stations	5
2.	Periods of record for stations included in New Jersey Pinelands Surface Water Quality Data reports	6
3.	Burlington County water quality parameters, laboratory methods, and laboratory certifications	13
4.	Cape May County water quality parameters, laboratory methods, and laboratory certifications	14
5.	Ocean County water quality parameters, laboratory methods, and laboratory certifications	15
6.	Atlantic County water quality parameters, New Jersey Department of Health laboratory methods and certifications	16
7.	Parameters that have been calculated using other measured parameter values	17
8.	Sample stations that were dry, frozen, or inaccessible on certain sampling dates ..	17
9.	Detection limits	18
10.	Mullica River Basin (Wading River and Bass River), Burlington County, station names and locations	25
11.	Mullica River Basin (Batsto River), Burlington County, station names and locations	75
12.	Mullica River Basin (Upper Mullica River), Burlington County and Atlantic County, station names and locations	111
13.	Mullica River Basin (Lower Mullica River), Burlington County and Atlantic County, station names and locations	143

14.	Rancocas Creek Basin (North Branch Rancocas Creek), Burlington County and Ocean County, station names and locations	167
15.	Rancocas Creek Basin (Southwest Branch Rancocas Creek), Burlington County, station names and locations	213
16.	Rancocas Creek Basin (South Branch Rancocas Creek), Burlington County, station names and locations	255
17.	Tuckahoe River Basin and Delaware Bay Basins, Cape May County and Atlantic County, station names and locations	291
18.	Crosswicks Creek Basin, Ocean County, station names and locations	343
19.	Toms River Basin, Ocean County, station names and locations	347
20.	Minor Atlantic Basins (Cedar Creek, Forked River, Oyster Creek), Ocean County, station names and locations	379
21.	Minor Atlantic Basins (Mill Creek, Cedar Run, Westecunk Creek, Tuckerton Creek), Ocean County, station names and locations	395
22.	Great Egg Harbor River Basin, Atlantic County, station names and locations	405
23.	Township abbreviations	427
24.	County abbreviations	427
25.	Index to Pinelands U.S.G.S. quadrangle maps	428

Acknowledgments

Thanks are extended to the Burlington County Health Department, the Cape May County Health Department, the Ocean County Health Department, and the Atlantic County Utilities Authority for their continuing involvement in this project. The county agencies have performed all of the laboratory analysis, some of the sample collection, and have provided helpful advice and comments. Special thanks are extended to Fred Lawson of the Burlington County Health Department, Kevin Thomas of the Cape May County Health Department, Joe Przywara and Doug Rothermal of the Ocean County Health Department, and Bill Hiller and Steve Buckanin of the Atlantic County Utilities Authority.

Finally I want to acknowledge the staff of the participating health departments who were involved in the stream sampling and the laboratory analysis and the Pinelands Commission staff who assisted in data entry, data review, and preparation of the final report.

Introduction

This publication is the third in a series of Pinelands surface water quality data reports prepared by the Pinelands Commission. It was prepared in cooperation with the Burlington County, Cape May County and Ocean County health departments and the Atlantic County Utilities Authority. Surface water quality data and summary statistics for 175 stream stations located along major Pinelands rivers and selected tributaries in Ocean, Burlington, Cape May, and Atlantic Counties or along their borders with adjacent counties are presented.

Surface Water Monitoring Network

In Burlington County, the Mullica River, North Branch Rancocas Creek, and South and Southwest Branch Rancocas Creek systems were monitored. Within the Mullica River system, the major stream basins studied were the Wading River, Bass River, Batsto River, Sleeper Branch, Upper Mullica River (Atsion Branch), and Lower Mullica River. In Cape May County, the Tuckahoe River, Dennis Creek, East Creek, and West Creek systems were monitored. In Ocean County, the Toms River, Cedar Creek, Forked River, Oyster Creek, Mill Creek, and Westecunk Creek systems were monitored. Several Mullica River tributaries, the Great Egg Harbor River and several of its tributaries, and the Tuckahoe River and one of its tributaries were monitored in Atlantic County.

Stream station descriptions are presented in Tables 10-22. The stations are listed in a manner similar to that used by the U.S. Geological Survey. Surface water quality stations are ordered in a downstream direction along the main stream. Stations located along a tributary that enters between two stations on a higher order stream are listed between the higher order stream stations and are indented to indicate their relative order.

Stream station locations are shown in Figures 2-14. The location of seventy-seven stations that were included in the first and/or the second Pinelands surface water quality data report (Windisch and Zampella, 1989; Windisch, 1990) but were either discontinued or not sampled during the period covered by this report are also shown. The stations which were discontinued or not sampled during this reporting period are noted in the stream station descriptions (Tables 10-22). Twenty-five stations were added during this reporting period. These include sixteen Atlantic County stations.

The U.S. Geological Survey surface water quality monitoring program complements the Pinelands Commission program. This program includes fourteen Pinelands stations in the Toms River, Rancocas Creek, Mullica River, and Great Egg Harbor River basins. The location and period of record for each station are

given in Table 1. Water quality data for these stations are presented in the U.S. Geological Survey annual water-data reports.

Period of Record

Although the sample dates reported in this publication may vary according to county and stream station, in general, the sample dates extend from the Summer 1990 quarter to the Spring 1991 quarter. The specific dates in which a station was sampled are indicated on the station's data record.

Table 2 presents the cumulative periods of record for each station included in the three New Jersey Pinelands Surface Water Quality Data reports to date. These are the 1983-1988, 1988-1990, and 1990-1991 reports.

Water Quality Parameters

Eleven priority water quality parameters which provide a good, relatively easily obtained measure of water resource impacts associated with development and agriculture were measured. These parameters are pH, specific conductivity, temperature, alkalinity or acidity, nitrite + nitrate-nitrogen, ammonia-nitrogen, kjeldahl-nitrogen, total phosphorus, total orthophosphorus, dissolved solids, and fecal coliform. These parameters were analyzed by each county with the exception that the Ocean County and the Atlantic County laboratories did not analyze fecal coliform and the Cape May County laboratory discontinued total orthophosphorus analysis. Several counties also monitored additional parameters to meet specific objectives of their individual programs. Parameters analyzed by each county are presented in Tables 3-6.

Field Data and Sample Collection

Pinelands Commission staff collected all field data and samples in Ocean County and Atlantic County. The Cape May County Health Department conducted all Cape May field work. In April 1991, Pinelands Commission staff began sampling forty-one Burlington County stations. Prior to April 1991, only five "back-road" Burlington County stations were sampled by Pinelands Commission staff with the Burlington County Health Department sampling the remaining stations.

Laboratory Analysis

Each county laboratory was responsible for analyzing samples collected from streams within the county. Each laboratory was also responsible for implementing a quality assurance element in accordance with Department of Environmental Protection and Energy laboratory certification requirements. Information on

laboratory certification is presented in Tables 3, 4, 5 and 6. These tables list analytical methods used and certification status for each parameter along with a description of quality controls.

Data Management

Laboratory data sheets were provided to the Pinelands Commission by the county laboratories. The data were entered into computer files as presented on the data sheets. Data editing was limited to the deletion of obviously anomalous values. The Pinelands Commission staff is responsible for any transcription errors. Certain parameter values, such as total nitrogen, that were not measured analytically were calculated by Pinelands Commission staff using values that were measured. Other parameter values which were not measured analytically were calculated by the laboratory and included on the data sheets. Parameter values which have been calculated are listed in Table 7.

Presentation of Data

Surface water quality records are presented by major drainage basin in downstream order. Each record includes the name of the major drainage basin, the name of the surface water body that was sampled, and a description of the sampling station's location. The latter includes road names, municipality and county. In most cases, a surface water was sampled from a bridge located along the named road. The number following the stream name is the station identification code either used by the county responsible for monitoring the stream or devised by Pinelands Commission staff.

Each station record consists of physical and chemical data collected on each sampling date during the period covered by this report and summary statistics. The summary statistics were calculated using the data collected during this reporting period and also the data presented in the first two Pinelands surface water quality reports issued in December 1989 and December 1990, respectively (Windisch and Zampella, 1989; Windisch, 1990). Parameter names are listed along with the unit of measurement used and a STORET code. The STORET code assigns a unique identification number to each parameter. STORET is the U.S. Environmental Protection Agency's computerized water quality data base.

Sampling stations which were dry, frozen, inaccessible, or from which samples could not be collected or analyzed for other reasons are excluded from the data record for that particular quarter. See Table 8 for a list of the stations and the dates which were excluded.

Summary statistics include sample size, minimum, maximum and mean values for each parameter and the standard deviation of

the mean. Standard deviations for mean pH values are not reported. Median pH values, which are shown in parentheses, are given in place of standard deviations. To facilitate the calculation of summary statistics, a value of zero was assigned to parameters when the actual value was below detection limits. Parameter values which are below detection limits are indicated by a "less than" sign preceding the value on the data record. Detection limits reported by each laboratory are given in Table 9.

Table 1. Current U.S. Geological Survey Water Quality Monitoring Stations. Surface water quality data are published annually by the U.S. Geological Survey as water data reports. The periods of record are given as U.S.G.S. water years (October-September). The U.S. Geological Survey water-data report for the 1991 water year is in press.

Station Name	Station Code	Station Location	Period of Record	Notes
Toms River				
Toms River	01408500	near Toms River	1963-1991	
Mullica River				
W.Branch Wading River	01409815	Rt 563 at Maxwell	1976-1991	
Batsto River	01409500	Rt 542 at Batsto	1976-1991	
Mullica River	01409387	Rt 206, outlet of Atsion Lake	1976-1991	
Hammonton Creek	01409416	Chestnut Road at Wescoatville	1974-1991	
E.Branch Bass River	01410150	Stage Rd near New Gretna	1976-1991	
Oswego River	01410000	Rt 679 at Harrisville	1976-1991	sampled every other year as of July 1, 1991
Great Egg Harbor River				
Great Egg Harbor River	01410784	Sicklerville-New Freedom Rd	1972-1991	
Great Egg Harbor River	01410820	Broad Lane Rd near Blue Anchor	1972-1991	discontinued July 1, 1991
Great Egg Harbor River	01411110	Rt 322 at Weymouth	1975-1991	
Rancocas Creek				
S.Branch Rancocas Creek	01465850	Lumberton-Vincentown Rd at Vincentown	1975-1991	
N. Branch Rancocas Creek	01465970	Lakehurst Rd, outlet of Mirror Lake	1975-1991	discontinued July 1, 1991
McDonalds Branch	01466500	Lebanon S.F.	1963-1991	
N.Branch Rancocas Creek	01467000	Hanover St in Pemberton Borough	1975-1991	

Table 2. Periods of record for stations included in New Jersey Pinelands Surface Water Quality Data reports. Stations sampled three times or less are indicated with an asterisk.

STATION NAME	STATION CODE	STATION LOCATION	PERIOD OF RECORD
WADING RIVER			
POLE BRANCH	D4,1	RT 532	83-84,87-90
WEST BRANCH WADING RIVER	D4,2	RT 532, CHATSWORTH LAKE OUTLET	83-84,87-91
WEST BRANCH WADING RIVER	D4,3	RT 563, BETWEEN SPEEDWELL AND CHATSWORTH	83-85,87-90
POLE BRANCH (JAKES SPUNG BRANCH)	D4,4	RT 563	83-85,87-90
SHOAL BRANCH	PCW2	CHATSWORTH-TUCKERTON RD	88-91
WEST BRANCH WADING RIVER	D4,5	RT 563 AT SPEEDWELL	83-85,87-91
SHOAL BRANCH	D4,6	RT 563	83-85,87-90
CRANBERRY BOGS	D4,7	RT 563, BETWEEN SPEEDWELL AND HOG WALLOW	83,87-90
TULPEHOCKEN CREEK	PCW5	MAXWELL-FRIENDSHIP RD. (BIG HAWKIN BRIDGE)	88-91
LITTLE HAWKIN RUN	D4,8	RT 563, NEAR HOG WALLOW	83-85,87-91
WEST BRANCH WADING RIVER	D4,9	RT 563 (EVANS BRIDGE)	83-85,87-91
OSWEGO RIVER	PCW7	BEAVER DAM ROAD	88-91
PAPOOSE BRANCH	D2,1	JENKINS ROAD	83-85,87-91
BREECHES BRANCH	D2,2	JENKINS ROAD, OSWEGO LAKE INLET	83-85,87-91
OSWEGO RIVER	D2,3	ANDREWS ROAD, OSWEGO LAKE OUTLET	83-85,87-91
OSWEGO RIVER	D3,1	HARRISVILLE POND OUTLET (RT 679)	84,87-91
TUB MILL BRANCH	D3,2	RT 679	84-85,87-90
WADING RIVER	D3,4	RT 542 AND LEEKTOWN RD	84-85,87-90
IVES BRANCH	D3,3	RT 679	84-85,87-90
IVES BRANCH	D3,5	RT 542	84,87-90
MERRYGOLD BRANCH	D3,6	RT 542	84,87-90
BASS RIVER			
EAST BRANCH BASS RIVER	D9,1	STAGE ROAD	84,88-91
WEST BRANCH BASS RIVER	D9,2	STAGE ROAD	84,88-91
BASS RIVER	D9,3	RT 9, NEAR NEW GREYNA	84,88-90
JOBS CREEK	D9,4	RT 9	84,88-90
BATSTO RIVER			
BATSTO HEADWATER TRIBUTARY	D8,2	RT 532	84,87-90
BATSTO HEADWATER TRIBUTARY	D8,1	RT 532	84,87-90
BATSTO RIVER	D8,3	CARRANZA ROAD AT HAMPTON GATE	84,87-91
UNNAMED TRIBUTARY, NEAR MOORES MEADOW	D8,4	CARRANZA ROAD	84,87-91
SKIT BRANCH	D8,6	CARRANZA ROAD	84,87-91
TOM ROBERTS BRANCH	D8,5	CARRANZA ROAD	84,87-91
DEEP RUN	D8,8	HAMPTON FURNACE RD	87-90
INDIAN MILLS BROOK	D1,1	GRASSY LAKE ROAD	83-84,86-91
INDIAN MILLS BROOK	D1,2	STOKES ROAD	83-84,86-91
INDIAN MILLS BROOK	D1,3	RED LION-INDIAN MILLS RD (RT 534)	83,86-91
MUSKINGUM BROOK	D7,1	RED LION-INDIAN MILLS RD (RT 648)	83-84,86-91
MUSKINGUM BROOK	D7,2	TUCKERTON RD (RT 620)	83-84,86-91
MUSKINGUM BROOK	D7,3	INDIAN MILLS LAKE INLET	83-84,86-91
MUSKINGUM BROOK	D7,4	INDIAN MILLS LAKE OUTLET (RT 620)	83-84,86-91
MUSKINGUM BROOK	D7,5	FORKED NECK ROAD	86-89

Table 2. continued.

STATION NAME	STATION CODE	STATION LOCATION	PERIOD OF RECORD

BATSTO RIVER continued			
SPRINGERS BROOK	D1,4	RT 206	83-84,86-91
SPRINGERS BROOK	D8,7	HAMPTON FURNACE RD	84,87-91
BATSTO RIVER	PCB5	QUAKER BRIDGE	90-91*
BATSTO RIVER	D5,2	RT 542, BATSTO VILLAGE	83-85,88-91
UPPER MULLICA RIVER			
MULLICA RIVER	D10,1	HOPEWELL RD	83-85,87-90
MULLICA RIVER	D10,2	KETTLERUN RD	83-90
MULLICA RIVER	D10,3	MILL RD	84-90
MULLICA RIVER	D10,4	JACKSON-MEDFORD RD	83-85,87-90
MULLICA RIVER	D10,5	RT 534 (JACKSON-OAKSHADE RD)	83,84-91
MULLICA RIVER	D11,1	BURNT HOUSE RD, NEAR ATSION	83-84,86-90
MULLICA RIVER	D11,2	ATSION LAKE INLET	83-84,87-90
MULLICA RIVER	D11,3	RT 206, ATSION LAKE OUTLET	83-84,86-91
WESICKAMAN CREEK	PCM2	RT 206	89,91*
MULLICA RIVER	D11,4	QUAKER BRIDGE ROAD	86-90
MULLICA RIVER	PCM4	ABOVE CONFLUENCE WITH SLEEPER BRANCH	88-91
CLARK BRANCH	PCSL2	JOHNSON RD	91*
SLEEPER BRANCH	PCM6	ABOVE CONFLUENCE WITH MULLICA RIVER	88-91
ALBERTSON BRANCH	PCNE1	RT 206	91*
GREAT SWAMP	PCNE2	RT 206	91*
NESCOHAGUE CREEK	PCNE3	PLEASANT MILLS (BRIDGE NEAR CHURCH)	91*
LOWER MULLICA RIVER			
MULLICA RIVER	D5,1	RT 542, PLEASANT MILLS	83-85,88-91
MULLICA RIVER	D5,3	CROWLEY'S LANDING, OFF OF RT 542	83-85,88-90
BULL CREEK	D5,4	RT 542	83-85,88-90
LITTLE BULL CREEK	D5,5	RT 542	83-85,88-90
MULLICA RIVER	D5,6	RT 563 BRIDGE AT GREENBANK	83-85,88-90
UNNAMED TRIBUTARY, MULLICA RIVER	D6,1	RT 542 NEAR LOWER BANK	83-85,87-91
MULLICA RIVER	D6,2	RT 652 (RIVER RD) AT LOWER BANK	83-84,87-91
LANDING CREEK	PCLM3	INDIAN CABIN RD	91*
INDIAN CABIN CREEK	PCLM2	RT 563 (EGG HARBOR CITY LAKE)	91*
UNNAMED TRIBUTARY, MULLICA RIVER	D6,3	RT 542 BETWEEN LOWER BANK AND TURTLE CREEK	83,87-90
MULLICA RIVER	D6,4	RT 167, NEAR PARKWAY	87-90
NORTH BRANCH RANCOCAS CREEK			
N BRANCH RANCOCAS CR AT MIRROR LK INLET	B8,6	INTERSECTION OF N AND S LAKESHORE DR	83-85,87-88,90
NEWBOLDS RUN	B8,4	BLUEBIRD ST (HUNTER BLVD), BROWNS MILLS	88,90
JACKS RUN AT LITTLE PINE LK INLET	B8,5	RANGE RD	83-88,90
LITTLE PINE LK OUTLET	B8,3	BAYBERRY ST IN BROWNS MILLS	83-88,90
ONG RUN	B8,2	BROADWAY ST IN BROWNS MILLS	83-84,86-88,90
N BRANCH RANCOCAS CR AT MIRROR LK	B8,7	CLUB HOUSE DR IN BROWNS MILLS	83-88,90

Table 2. continued.

STATION NAME	STATION CODE	STATION LOCATION	PERIOD OF RECORD
NORTH BRANCH RANCOCAS CREEK continued			
N BRANCH RANCOCAS CR AT MIRROR LK OUTLET	B8,1	RT 530 IN BROWNS MILLS	83-88,90-91
N BRANCH RANCOCAS CR	B7,10	NEW LISBON RD	83-86,88
POLE BRIDGE BRANCH	PCNR3	BELOW DEER PARK BRANCH	91*
POLE BRIDGE BRANCH	B5,4	RT 70	83,86,88-90
CRANBERRY BRANCH	B5,3	RT 70	88-90
CRANBERRY BRANCH	B5,2	RT 530	83-86,88-91
POLE BRIDGE BRANCH	B5,1	WISSAHICKON TRAIL IN COUNTRY LAKES	83-86,88-91
NORTH BRANCH MOUNT MISERY BROOK	PMM1	CRANBERRY BOGS IN OCEAN COUNTY	91*
MOUNT MISERY BROOK	B5,5	RT 70	83-84,86,88-91
BISPHAM MILL CR AT LEBANON LKS OUTLET	B5,6	RT 70	83-86,88-91
BISPHAM MILL CR AT PRESIDENTIAL LKS OUTLET	B5,7	OREGON TRAIL IN PRESIDENTIAL LAKES	83-84,88-90
GREENWOOD BRANCH	B7,9	NEW LISBON RD	83-88,91
N BRANCH RANCOCAS CR	B7,8	RT 616 IN PEMBERTON BOROUGH	83-88,91
BUDDS RUN (LOCAL NAME)	B3,6	CATESVILLE-JULIUSTOWN RD	83-84*
BUDDS RUN (LOCAL NAME)	B3,5	RT 630 (POINTVILLE RD)	84,86-88
COATES RUN (LOCAL NAME)	B3,7	RT 630 (POINTVILLE RD)	83-84,86-87,89-90
BUDDS RUN	B7,7	RT 616 IN PEMBERTON BOROUGH	83-88
N BRANCH RANCOCAS CR	B7,6	BIRMINGHAM RD	83-88,90
UNNAMED TRIB OF N BRANCH RANCOCAS CR	B3,8	CATESVILLE-JULIUSTOWN RD	87,90*
UNNAMED TRIB OF N BRANCH RANCOCAS CR	B3,4	ARNEY'S MT-PEMBERTON RD	83-84,86-90
UNNAMED TRIB OF N BRANCH RANCOCAS CR	B3,3	RT 630 (NORTH PEMBERTON RD)	83-84,86-90
UNNAMED TRIB OF N BRANCH RANCOCAS CR	B3,2	BIRMINGHAM-ARNEY'S MOUNT RD	86-90
N BRANCH RANCOCAS CR	B7,5	RT 206 IN EWANSVILLE	83,85-88,90
POWELLS RUN	B3,1	RT 206	83-84,86-90
SOUTHWEST BRANCH RANCOCAS CREEK			
BARTON RUN AT KRESSON LK OUTLET	B10,1	BRADDOCKS MILL RD	84,86-88
BACK RUN AT KENILWORTH LK OUTLET	B10,2	KENILWORTH RD	84,86-88
BARTON RUN	B10,7	TOMLINSON MILL RD (RT 619)	84,86-88
BLACK RUN	B10,6	TOMLINSON MILL RD (RT 619)	84,86-88
BARTON RUN	B12,2	TUCKERTON RD (RT 620)	84,86-87
SOUTHWEST BRANCH RANCOCAS CR	B12,3	HARTFORD RD	84-87
KETTLE RUN AT MARLTON LKS	B10,4	KETTLE RUN RD & HOPEWELL RD	84,86-88
KETTLE RUN AT CENTENNIAL LAKE INLET	PCSR8	BRADDOCKS MILL RD	90-91*
HAYNES CR AT CENTENNIAL LK OUTLET	B11,4	CENTENNIAL DAM RD	84-90
HAYNES CR TRIB AT MIMOSA LKS INLET	B11,7	BRADDOCKS MILL RD	84-85,87-88
HAYNES CR TRIB AT MIMOSA LKS	B11,6	SCOUT DR	84-89
HAYNES CR TRIB AT MIMOSA LKS OUTLET	B11,5	PONTIAC DR	84-89
UNNAMED TRIB OF HAYNES CR ABOVE HARMONY LK	B10,3	KETTLE RUN RD	84,86-88
UNNAMED TRIB OF HAYNES CR, HARMONY LK OUTLET	B10,5	HOPEWELL RD	84,86-88
HAYNES CR AT TAUNTON LK OUTLET	B11,3	BREAKNECK AVE	84-89
HAYNES CR TRIB AT BLUE LK OUTLET	B11,2	TOMLINSON MILL-HOPEWELL RD	84-87,89-90
HAYNES CR AT LK PINE OUTLET	B11,1	FALLS RD	84-90.
HAYNES CR TRIB ABOVE LK STOCKWELL	B1,5	TUCKERTON RD, NEAR ARROWHEAD TRAIL	84-87,89-90
HAYNES CR TRIB AT LK STOCKWELL INLET	B1,4	STOKES RD	84-90

Table 2. continued.

STATION NAME	STATION CODE	STATION LOCATION	PERIOD OF RECORD

SOUTHWEST BRANCH RANCOCAS CREEK continued			
HAYNES CR TRIB AT UPPER AETNA LK OUTLET	B1,3	BEACH TRAIL	84-88,90
HAYNES CR TRIB AT LOWER AETNA LK OUTLET	B1,1	STOKES RD	84-88,90
HAYNES CR TRIB AT LK MISHE-MOKWA INLET	B1,6	CHEYENNE TRAIL	84-90
HAYNES CR TRIB AT LK MISHE-MOKWA INLET	B1,7	TUCKERTON RD, NEAR ALGONQUIN TRAIL	84-85,87-88,90
HAYNES CR TRIB BELOW LK MISHE-MOKWA	B1,2	LENAPE TRAIL	84-90
HAYNES CR TRIB AT BIRCHWOOD LKS OUTLET	B1,8	JACKSON RD, NEAR NORTH LAKESIDE DR	84-90
HAYNES CR TRIB AT OAKWOOD LKS	B1,9	RAMBLEWOOD DR	84-88,90
HAYNES CR	B12,4	HIMMELEIN RD, NEAR OLIPHANT'S MILL	84-87,90
SOUTHWEST BRANCH RANCOCAS CR	B12,5	MAIN ST IN MEDFORD, AT MEDFORD PARK	84-87,90
SHARPS RUN	B12,6	RT 541, NEAR THE MEDFORD CIRCLE	84-85,87,90
SOUTHWEST BRANCH RANCOCAS CR AT KIRBY'S MILL LK	B12,7	CHURCH RD (RT 616)	84-85,87,90
LITTLE CREEK	B12,1	CHAIRVILLE RD AND RT 70	84-87
BEAR SWAMP	PCSR7	RT 70	91*
LITTLE CREEK	B12,8	CHURCH RD (RT 616)	84,87,90
LITTLE CREEK TRIB	B12,9	CHURCH RD (RT 616)	84-85,87
LITTLE CREEK	B12,10	EAYRESTOWN RD	84-85,87,90
SOUTHWEST BRANCH RANCOCAS CR	B12,11	RT 612 (BELLA BRIDGE RD)	84-85,87,90
SOUTH BRANCH RANCOCAS CREEK			
SOUTH BRANCH RANCOCAS CREEK	B14,3	BURRS MILL RD	84,86-87,90
SOUTH BRANCH RANCOCAS CREEK	B14,2	BED BUG HILL RD, RETREAT	84-88,90-91
FRIENDSHIP CREEK	PCSR4	CAMP INAWENDIWIN LK ABOVE BREAD & CHEESE RUN	91*
BREAD AND CHEESE RUN	B14,9	CARRANZA RD (RT 648)	87*
BREAD AND CHEESE RUN	B14,8	NEW RD (VINCENTOWN RD)	84,86-88,90-91
FRIENDSHIP CREEK	B14,7	POWELL PLACE RD	85-88,90
BURRS MILL BROOK (SOUTH BRANCH)	B14,10	SOOY RD	84-86,90
GUM SPRING	B14,11	BEHIND NEW LISBON STATE SCHOOL	84,90*
BURRS MILL BROOK	B14,6	BURRS MILL RD	85-88,90
BURRS MILL BROOK	B14,5	VINCENTOWN-SOUTH PARK RD	84,87-88,90-91
FRIENDSHIP CREEK	B14,4	RT 70 AT LEISURETOWNE	84-88,91
FRIENDSHIP CREEK	B14,1	RETREAT RD	84,86-88,90
SOUTH BRANCH RANCOCAS CREEK	B4,4	RT 206	84-88,90-91
SOUTH BRANCH RANCOCAS CREEK	B4,2	MILL ST, VINCENTOWN	84-88,90-91
STOP THE JADE RUN	B4,6	RIDGE RD (RT 643), BUDDTOWN	84-88,90-91
STOP THE JADE RUN	B4,5	RT 206	84-88,90-91
STOP THE JADE RUN	B4,3	MAIN ST, VINCENTOWN	84-88,90-91
SOUTH BRANCH RANCOCAS CREEK	B4,1	RT 641	84-88,90-91
DELAWARE BAY BASINS			
WEST CREEK			
WEST CREEK TRIBUTARY	PB7a	ABOVE PICKLE FACTORY POND	84-86
WEST CREEK	PB3b	PICKLE FACTORY POND OUTLET AT PAPER MILL RD	88-91

Table 2. continued.

STATION NAME	STATION CODE	STATION LOCATION	PERIOD OF RECORD
DELAWARE BAY BASINS continued			
EAST CREEK			
SAVAGES RUN TRIBUTARY	PB9	WEST BRANCH LAKE NUMMY INLET	84-91
SAVAGES RUN TRIBUTARY	PB10	MIDDLE BRANCH LAKE NUMMY INLET	84-91
SAVAGES RUN TRIBUTARY	PB11	EAST BRANCH LAKE NUMMY INLET	84,86-91
SAVAGES RUN	PB8	LAKE NUMMY OUTLET	84-91
SAVAGES RUN	PB6	SUNSET RD	84-91
EAST CREEK	PB5	EAST CREEK POND SPILLWAY	84-91
DENNIS CREEK			
DENNIS CREEK TRIBUTARY 1	PB12	ROUTE 610 AFTER MILE MARKER 2	84-91
DENNIS CREEK TRIBUTARY 2	PB13a	A POND AT ROUTE 610	84,86-90
DENNIS CREEK TRIBUTARY 3	PB20b	JOHNSON POND OUTLET AT RT 47	87-91
SLUICE CREEK TRIBUTARY	PB2	UNIMPROVED ROAD AT CLINTS MILL	84-91
SLUICE CREEK	PB1	CLINTS MILL POND SPILLWAY	84-91
DENNIS CREEK TRIBUTARY 4	PB7b	LUDLAMS POND OUTLET AT RT 47	87-91
DENNIS CREEK	PB3a	JAKES LANDING	85-87
OLD ROBBINS BRANCH	PB4	BEAVER CAUSEWAY RD (OR ROBBINS TRAIL)	84-91
TUCKAHOE RIVER BASIN			
TUCKAHOE RIVER	PB19a	NORTH OF ROUTE 49 AT HUNTERS MILL BOGS	84-86
TUCKAHOE RIVER	PCTU3	HUNTERS MILL BOG OUTLET AT ROUTE 49	91*
TUCKAHOE RIVER	PB20a	SOUTH OF ROUTE 49 AT HUNTERS MILL BOGS	84-86
TARKILN BROOK	PB17a	UPSTREAM FROM BOGS AT POWER LINE RIGHT-OF-WAY	84-86
TARKILN BROOK TRIBUTARY	PB16	BELLEPLAIN RD (ROUTE 605)	84-91
TARKILN BROOK	PB17b	BOG SPILLWAY AT ROUTE 548	87-91
TUCKAHOE RIVER	PB18b	ROUTE 49 USGS SITE, SOUTH OF HEAD OF RIVER	87-91
MCNEALS BRANCH	PCTU2	ROUTE 649, IN HEAD OF RIVER (7)	91*
PLUMMERS CREEK	PB21	NARROWS ROAD	90-91
SOUTH BRANCH MILL CREEK	PB13b	BOG ROAD (STEELMANTOWN ROAD)	90-91*
MILL CREEK	PB19b	ROUTE 49	87-91
WEST BRANCH CEDAR SWAMP CREEK	PB14a	UNIMPROVED ROAD OFF OF ROUTE 610	84-90
EAST BRANCH CEDAR SWAMP CREEK	PB15a	UNIMPROVED ROAD OFF OF PEACH ORCHARD ROAD	84-90
CEDAR SWAMP CREEK	PB14b	ROUTE 50	90-91
CEDAR SWAMP CREEK TRIBUTARY	PB15b	ROUTE 616 (SOUTH OF SLUICE CREEK)	90-91
CROSSWICKS CREEK			
CROSSWICKS CREEK	OCN023	OAK AVE	85,87*
CROSSWICKS CREEK	OCN022	RT 537	85,87*
LAHAWAY CREEK	OCN021	RT 537, PROSPERTOWN LAKE	85,87*
LAHAWAY CREEK	OCN020	RT 537	85,87*

Table 2. continued.

STATION NAME	STATION CODE	STATION LOCATION	PERIOD OF RECORD
TOMS RIVER			
TOMS RIVER	OCN031	REED RD, NEAR FRANCIS MILLS	85,87*
TOMS RIVER	OCN030	RT 528, NEAR CASSVILLE	85,87-91
MAPLE ROOT BRANCH	PTR2	BOWMAN RD	88-91
TOMS RIVER	OCN029	RT 547	85,86,88-91
TOMS RIVER	OCN028	RT 70 (MILE POST 48)	85,87-91
TOMS RIVER	OCN027	RT 571	85,87*
BLACKS BRANCH	PTR13	RT 70	91*
OLD HURRICANE BROOK	PTR7	RT 70	88-91
MANPAQUA BROOK	OCN042	RIDGEWAY BLVD	85,87*
UNION BRANCH	PTR8	RT 37	88-91
UNION BRANCH	OCN039	COLONIAL DRIVE	85,87*
RIDGEWAY BRANCH	PTR5	EASTERN BOUNDARY COLLIERS MILLS	88-91
RIDGEWAY BRANCH	OCN041	RT 547, NEAR NAVAL AIR STATION	85,87*
RIDGEWAY BRANCH	OCN040	RT 70	85,87-91
UNION BRANCH	OCN038	7TH-10TH AVE IN MANCHESTER	85,87*
TOMS RIVER	OCN026	CAMP ALBACONDO, NEAR OAKRIDGE PARKWAY	85,87*
TOMS RIVER	OCN025	OAK RIDGE PARKWAY	85,87*
TOMS RIVER	OCN024	RT 527, LAKEHURST RD	85,87*
WRANGLE BROOK	OCN035	END OF GUADELUPE DR, HOLIDAY CITY	85,87*
WRANGLE BROOK	PTR9	JAMAICA BLVD, HOLIDAY CITY	88-91
WRANGLE BROOK	OCN034	S. HAMPTON DR, HOLIDAY CITY	85,87*
DAVENPORT BRANCH	PTR10	RT 530	88-91
DAVENPORT BRANCH	OCN036	MULE RD, HOLIDAY CITY	85,87-91
JAKES BRANCH	PTR12	LAKE INFLOW, END OF CORNELL RD	88-90
JAKES BRANCH	OCN032	RT 619 (DOUBLE TROUBLE RD)	85,87-91
CEDAR CREEK			
CEDAR CREEK	OCN045	RT 614 (WHITING-LACEY RD), BAMBER LAKE	85,87-91
FACTORY BRANCH	PCC2	RT 614 (WHITING-LACEY RD)	88-91
CEDAR CREEK	OCN044	DOUBLE TROUBLE PARK	85,87-91
CEDAR CREEK	OCN043	RT 9, LANOKA HARBOR	85,87*
FORKED RIVER			
NORTH BRANCH FORKED RIVER	OCN047	WEST OF PARKWAY, JCP&L POWER LINES	85,87-91
NORTH BRANCH FORKED RIVER	PFR4B	OUTLET OF DEERHEAD LAKE, FORKED RIVER	88-90
NORTH BRANCH FORKED RIVER	OCN046	PARKER AVE, FORKED RIVER	85,87*
MIDDLE BRANCH FORKED RIVER	OCN048	RT 9	85,87*
OYSTER CREEK			
OYSTER CREEK	OCN052	BROOKVILLE BOY SCOUT CAMP	85,87*
OYSTER CREEK	OCN051	RT 532	85,87-91

Table 2. continued.

STATION NAME	STATION CODE	STATION LOCATION	PERIOD OF RECORD
MILL CREEK			
MILL CREEK	OCN054	RT 72, NEAR OCEAN ACRES	85,87-91
MILL CREEK	OCN055	OXYCOCCUS RD	85,87*
FOUR MILE BRANCH	PMI6	LIGHTHOUSE DR, UPSTREAM FROM PARKWAY	88-91
MILL CREEK	OCN053	RT 180, MANAHAWKIN SPILLWAY	85,87*
CEDAR RUN			
CEDAR RUN	OCN057	RT 9	85,87*
WESTECUNK CREEK			
WESTECUNK CREEK	OCN059	STAFFORD FORGE, LAKE SPILLWAY	85,87-91
WESTECUNK CREEK	OCN058	RT 9	85,87*
TUCKERTON CREEK			
TUCKERTON CREEK	OCN060	RT 9, LAKE POHATCONG SPILLWAY	85,87*
GREAT EGG HARBOR RIVER BASIN			
GREAT EGG HARBOR RIVER	PCGE1	RT 54	91*
PENNYPOT STREAM	PCGE3	EIGHTH ST	91*
HOSPITALITY BRANCH	PCGE2	RT 322 (BLACK HORSE PK)	91*
MAKEPEACE STREAM	PCGE4	RT 623	91*
DEEP RUN	PCGE14	RT 559	91*
BABCOCK CREEK	PCGEHAM06	HOLLY ST	88-89
MANKILLER BRANCH	PCGEHAM11	HOLLY ST	89*
JACK PUDDING BRANCH	PCGEHAM10	COLOGNE AV	89*
BABCOCK CREEK	PCGE10	PINE ST	88-89
BABCOCK CREEK	PCGE9	RT 322 (BLACK HORSE PK)	88-89,91
BABCOCK CREEK	PCGE5	OLD EGG HARBOR RD	88-89
WATERING RACE BRANCH	PCGE11	RT 50	91*
GRAVELLY RUN	PCGE8	NEW YORK AV	88-89
GRAVELLY RUN	PCGE6	RT 559	88-89,91
MIRY RUN	PCGEHAM13	PINE AV	89*
MIRY RUN	PCGE7	ALT 559	89*
SOUTH RIVER	PCGE15	RT 668 (WIRE RD)	91*
CEDAR BROOK AT HARDING LKS OUTLET	PCGEHAM02	HARDING HWY	88*
STEPHENS CREEK	PCGE16	RT 50	91*

Table 3. Burlington County water quality parameters, laboratory methods, and laboratory certifications

Parameter	Unit	Storet #	Method	Method Reference Including Page or Section Number *	Most Recent Certified	Most Recent Certification Date
pH lab	pH	P00403	direct meter (electrode)	(1) 423, (4) 86-02	YES	11/1/91
specific conductivity	umhos	P00095	direct meter	(1) 205, (4) 86-03	YES	11/1/91
alkalinity	mg/l	P00410	potentiometric titration	(1) 403, (4) 86-04	YES	11/1/91
total hardness as CaCO ₃	mg/l	P00900	Hach hardness titration method	(5) adapted from (2) 315b	NO	
nitrate + nitrite-nitrogen	mg/l	P00630	colorimetric, cadmium reduction	(3) 353.2, (4) 88-19	YES	11/1/91
ammonia-nitrogen	mg/l	P00610	preliminary distillation, ammonia-selective electrode	(1) 417a/e, (4) 86-08	YES	11/1/91
total kjeldahl-nitrogen	mg/l	P00625	kjeldahl procedure	(1) 420, (4) 87-11	YES	11/1/91
total ortho phosphorus as PO ₄	mg/l	P00660	ascorbic acid	(3) 365.2, (4) 87-12	YES	11/1/91
poly phosphorus as PO ₄	mg/l	P00655	acid hydrolysis + ascorbic acid	(3) 365.2, (4) 87-13	YES	11/1/91
total phosphorus as PO ₄	mg/l	P00650	persulfate digestion + ascorbic acid	(3) 365.2, (4) 87-14	YES	11/1/91
turbidity	NTU	P00076	nephelometric	(1) 214a, (4) 86-01	YES	11/1/91
biological oxygen demand, 5-day	mg/l	P00310	electrode @ 5 day, 20 deg. C	(3) 405.1, (4) 87-18	YES	11/1/91
biological oxygen demand, 7-day	mg/l	P00315	electrode @ 7 day, 20 deg. C	(3) 405.1, (4) 87-18	YES	11/1/91
chemical oxygen demand (high)	mg/l	P00340	colorimetric	(3) 410.4, (4) 86-05	YES	11/1/91
chemical oxygen demand (low)	mg/l	P00335	colorimetric	(3) 410.4, (4) 86-05	YES	11/1/91
total suspended solids	mg/l	P00530	gravimetric @ 103-105 deg. C, ignition @ 550 deg. C	(1) 209d, (4) 87-15	YES	11/1/91
total dissolved solids	mg/l	P70300	gravimetric @ 180 deg. C	(1) 209b, (4) 87-15	YES	11/1/91
total solids	mg/l	P00500	gravimetric @ 103-105 deg. C	(1) 209a, (4) 87-15	YES	11/1/91
total carbon	mg/l	P00690	carbon analyzer	(2) 505b, (4) 87-17	YES	11/1/91
total inorganic carbon	mg/l	P00685	subtraction	(2) 505b, (4) 87-17	YES	11/1/91
total organic carbon	mg/l	P00680	persulfate-ultraviolet oxidation	(2) 505b, (4) 87-17	YES	11/1/91
chloride	mg/l	P00940	mercuric nitrate	(1) 407b, (4) 86-07	YES	11/1/91
dissolved calcium	mg/l	P00915	Hach calcium titration method	(5) adapted from (2) 315b	NO	
dissolved magnesium	mg/l	P00925	subtraction	(5) adapted from (2) 315b	NO	
total coliform	MF	P31504	standard total coliform membrane filter procedure	(2) 909a, (4) 89-21	YES	11/1/91
fecal coliform	MF	P31613	standard fecal coliform membrane filter procedure	(2) 909c, (4) 89-22	YES	11/1/91
fecal streptococcus	MF	P31673	standard fecal streptococcus membrane filter procedure	(2) 909b, (4) 89-23	YES	11/1/91

* References:

- (1) 15th edition APHA-AWWA-WPCF Standard Methods for the Examination of Water and Wastewater, 1980
- (2) 16th edition APHA-AWWA-WPCF Standard Methods for the Examination of Water and Wastewater, 1985
- (3) EPA Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-020. March 1983
- (4) Burlington County Health Department Laboratory Standard Operating Procedure
- (5) Hach Waste Water Analysis Manual

Quality Controls: duplicate and replicate samples, spikes, state unknowns, standards and blanks

Table 4. Cape May County water quality parameters, laboratory methods, and laboratory certifications

Parameter	Unit	Storet #	Method	Method Reference Including Page or Section Number *	Certified	Most Recent Certification Date
dissolved oxygen	mg/l	P00299	Winkler titration or membrane electrode	{1} 421b or 421f	YES	June 1991
pH field	pH	P00400	direct meter (electrode)	{1} 423	YES	June 1991
specific conductivity	umhos	P00094	direct meter	{1} 205	YES	June 1991
alkalinity	mg/l	P00410	potentiometric titration	{1} 403	YES	June 1991
total hardness as CaCO ₃	mg/l	P00900	EDTA titrimetric	{1} 314b	YES	June 1991
sulfate	mg/l	P00945	turbidimetric	{1} 426c	YES	June 1991
nitrite-nitrogen	mg/l	P00615	colorimetric, cadmium reduction	{3} 353.2	YES	June 1991
nitrate + nitrite-nitrogen	mg/l	P00630	colorimetric, cadmium reduction	{3} 353.2	YES	June 1991
ammonia-nitrogen	mg/l	P00610	ammonia-selective electrode	{1} 417e	YES	June 1991
total kjeldahl-nitrogen	mg/l	P00625	semi-automated colorimetric	{3} 351.2	YES	June 1991
nitrate-nitrogen	mg/l	P00620	colorimetric, cadmium reduction	{3} 353.2	YES	June 1991
total ortho phosphorus as P	mg/l	P70507	manual ascorbic acid	{1} 424f	YES	June 1991
total phosphorus as P	mg/l	P00665	automated ascorbic acid	{3} 365.1	YES	June 1991
biological oxygen demand, 5-day	mg/l	P00310	electrode @ 5 day, 20 deg. C	{1} 507	YES	June 1991
total suspended solids	mg/l	P00530	gravimetric @ 103-105 deg. C, ignition @ 550 deg. C	{1} 209d	YES	June 1991
total dissolved solids	mg/l	P70300	gravimetric @ 180 deg. C	{1} 209b	YES	June 1991
dissolved calcium	mg/l	P00915	manual EDTA titration	{1} 311c	YES	June 1991
dissolved magnesium	mg/l	P00925	calculation	{1} 318c	NO	
fecal coliform	MPN	P31615	multiple tube, A-1	{1} section 908c	YES	June 1991
salinity	PPT	P00480	direct meter	{1} section 210a	YES	June 1991

* References:

- (1) 15th edition APHA-AWWA-WPCF Standard Methods for the Examination of Water and Wastewater, 1980
- (2) 16th edition APHA-AWWA-WPCF Standard Methods for the Examination of Water and Wastewater, 1985
- (3) EPA Methods for Chemical Analysis of Water and Wastes

Quality Controls: duplicate samples, spikes, state unknowns, controls, standards and blanks

Table 5. Ocean County water quality parameters, laboratory methods, and laboratory certifications

Parameter	Unit	Storet #	Method	Method Reference Including Page or Section Number *	Most Recent Certified	Most Recent Certification Date
pH lab	pH	P00403	direct meter (electrode)	{2} 423	YES	January 1991
specific conductivity	umhos	P00095	direct meter	{2} 205	NA	
alkalinity	mg/l	P00410	potentiometric titration	{2} 403d	YES	January 1991
acidity	mg/l	P00436	hot peroxide treatment	{2} 402d	YES	January 1991
total hardness as CaCO3	mg/l	P00900	EDTA titrimetric	{2} 314b	YES	January 1991
sulfate	mg/t	P00945	turbidimetric	{2} 426c	YES	January 1991
nitrite-nitrogen	mg/l	P00615	spectrophotometric	{3} 354.1	YES	January 1991
nitrate + nitrite-nitrogen	mg/l	P00630	spectrophotometric, cadmium reduction	{3} 353.3	YES	January 1991
ammonia-nitrogen	mg/l	P00610	colorimetric by Nesslerization	{3} 350.2	YES	January 1991
total kjeldahl-nitrogen	mg/l	P00625	colorimetric by Nesslerization, digestion	{3} 351.3	YES	January 1991
total ortho phosphorus as P	mg/l	P70507	ascorbic acid	{2} 424f	YES	January 1991
total phosphorus as P	mg/l	P00665	persulfate digestion + ascorbic acid	{2} 424cIII/f	YES	January 1991
total organic carbon	mg/l	P00680	ultraviolet low temperature oxidation	{4}	YES	January 1991
turbidity	JTU	P00076	nephelometric	{2} 214a	NO	
total solids	mg/l	P00500	gravimetric @ 103-105 deg. C	{2} 209a	YES	January 1991
total dissolved solids	mg/l	P70300	gravimetric @ 180 deg. C	{2} 209b	YES	January 1991
total calcium	mg/l	P00916	atomic absorption	{3} P00916	YES	January 1991
total magnesium	mg/l	P00927	atomic absorption	{3} P00927	YES	January 1991

* References:

- (1) 15th edition APHA-AWWA-WPCF Standard Methods for the Examination of Water and Wastewater, 1980
- (2) 16th edition APHA-AWWA-WPCF Standard Methods for the Examination of Water and Wastewater, 1985
- (3) EPA Methods for Chemical Analysis of Water and Wastes
- (4) Astro Model 1850 Total Organic Carbon Analyzer Operator's Manual

Quality Controls: duplicate samples, spikes, state unknowns, standards and blanks

Table 6. Atlantic County water quality parameters, laboratory methods, and laboratory certifications (Atlantic County Utilities Authority)

Parameter	Unit	Storet #	Method	Method Reference Including Page or Section Number *	Most Recent Certified	Most Recent Certification Date
pH lab	pH	P00403	direct meter (electrode)	{2} p. 429 section 423	YES	10/10/91
alkalinity	mg/l	P00410	potentiometric titration (to pH 4.5)	{2} p. 269 section 403	YES	10/10/91
acidity	mg/l	P00436	hot peroxide treatment	{2} p. 265 section 402	YES	10/10/91
total hardness as CaCO ₃	mg/l	P00900	EDTA titrimetric	{2} p. 210 section 314b	YES	10/10/91
sulfate	mg/l	P00945	turbidimetric	{1} p. 439	YES	10/10/91
nitrite-nitrogen	mg/l	P00615	colorimetric	{2} p. 404 section 419	YES	10/10/91
nitrate + nitrite-nitrogen	mg/l	P00630	cadmium reduction colorimetric	{2} p. 400 section 418f	YES	10/10/91
ammonia-nitrogen	mg/l	P00610	ammonia selective electrode	{2} p. 384 section 417e	YES	10/10/91
total kjeldahl-nitrogen	mg/l	P00625	digestion, distillation, and automated phenate	{3} p. 351.2-1	YES	10/10/91
total ortho phosphorus as P	mg/l	P70507	automated ascorbic acid	{2} p. 450 section 424g	YES	10/10/91
total phosphorus as P	mg/l	P00665	persulfate digestion + automated ascorbic acid	{2} p. 450 section 424g	YES	10/10/91
turbidity	NTU	P00076	nephelometric	{2} p. 134 section 214a	YES	10/10/91
total dissolved solids	mg/l	P70300	gravimetric @ 180 deg. C	{2} p. 95 section 209b	YES	10/10/91

* References:

- {1} 15th edition APHA-AWWA-WPCF Standard Methods for the Examination of Water and Wastewater, 1980
- {2} 16th edition APHA-AWWA-WPCF Standard Methods for the Examination of Water and Wastewater, 1985
- {3} EPA Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-020. March 1983

Quality Controls: duplicate samples, spikes, state unknowns, controls, standards and blanks

Table 7. Parameters that have been calculated using other measured parameter values

Calculated Parameters	Counties for which the parameters were calculated	Calculation Formulas	Calculation performed by
NO3	Ocean, Atlantic	(NO2+NO3) - (NO2)	Pinelands Commission staff
Organic N	Cape May, Ocean, Burlington, Atlantic	(Total KJEL) - (NH3)	Pinelands Commission staff
Total N	Cape May, Ocean, Burlington, Atlantic	(NO2+NO3) + (Total KJEL)	Pinelands Commission staff
Total Solids	Burlington	TSS + TDS	Health Department laboratory
Total Inorganic Carbon*	Burlington	Tot.C - TOC	Health Department laboratory
Dissolved Mg	Burlington	Tot.Hardness - Ca++	Health Department laboratory

* Prior to January 1989, TOC was calculated (Tot.C - TIC)

Table 8. Stations that were dry, frozen, or inaccessible on certain sampling dates

Station Code	County	Date(s) for which no sample was collected
B12,9	Burlington	11/26/90**
PB10	Cape May	07/31/90, 10/31/90
PB11	Cape May	10/31/90
PB13b	Cape May	07/31/90

** sample broken in transit

Table 9. Detection limits

Parameter	Reported Detection Limits *,**			
	Burlington	Cape May	Ocean	Atlantic
alkalinity	0.5	0.10	1	0.2,0.5
acidity	---	---	1	0.5
total hardness as CaCO ₃	---	0.50	---	---
sulfate	---	1.0	1	---
nitrite-nitrogen	---	0.01	0.001,0.01	0.05,0.10,0.50
nitrate-nitrogen	---	0.01	---	0.10
nitrate + nitrite-nitrogen	0.04	0.01	0.01	0.10
ammonia-nitrogen	0.10	0.03	0.05	0.01,0.10
total kjeldahl-nitrogen	0.10	0.01	0.05	---
organic-nitrogen	0.10	0.01	0.05	---
total nitrogen	0.04	0.01	0.01	---
total ortho phosphorus as PO ₄	0.01	---	---	---
total ortho phosphorus as P	---	0.01	0.01	0.01
poly phosphorus as PO ₄	0.01	---	---	---
total phosphorus as PO ₄	0.01	---	---	---
total phosphorus as P	---	0.01	0.01	0.01,0.02
biological oxygen demand, 5-day	2.0	2.0	---	---
biological oxygen demand, 7-day	2.0	---	---	---
chemical oxygen demand (high)	3.0	---	---	---
chemical oxygen demand (low)	1.0	---	---	---
turbidity (JTU)	1.0	---	---	---
total suspended solids	1	1	---	---
total dissolved solids	1	1	1.0	25
total solids	1	---	---	---
chloride	0.05	---	---	---
dissolved calcium	---	0.50	---	---
dissolved magnesium	---	0.50	---	---
fecal coliform (MF)	---	2	---	---

* (mg/l unless otherwise noted)

** Certain detection limits may change from one analysis run to another.

Glossary of Selected Terms

Acidity is the capacity of a water to react with a strong base to a designated end point pH such as pH 8.3 which is used in determination of total or "phenolphthalein" acidity. Strong mineral acids, weak acids such as carbonic acid and acetic acid, and hydrolyzing salts such as iron or aluminum sulfates may contribute to the measured acidity.

Alkalinity is the acid-neutralizing capacity of a water and is generally reported as "mg/l as CaCO₃". It is primarily related to the concentration of carbonate and bicarbonate and is measured by a titrimetric analysis to the methyl orange endpoint (pH 4.5).

Ammonia-nitrogen is nitrogen in the form of ammonium. Ammonia is produced largely by deamination of organic nitrogen-containing compounds and by hydrolysis of urea.

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

Chemical oxygen demand (COD) is a measure of the quantity of organic matter that can be chemically oxidized in the presence of a strong oxidant thus providing an estimate of the amount of organic matter present.

Coliform bacteria are a particular group of bacteria that are used as indicators of the sanitary quality of water. This group includes coliforms that inhabit soils and fecal coliform which are bacteria that are present in the intestines or feces of warm-blooded animals. The abundance of coliform bacteria is expressed as number of colonies/100 ml sample, TNTC, or CONF.

Color in water may result from the presence of natural metallic ions (for example, iron and manganese), humus and peat materials, plankton, weeds, and pollution. "Color" is the color of water from which turbidity has been removed. The platinum-cobalt (PT-CO) color analysis method is a visual comparison of sample color with that produced by 1 mg platinum/liter in the form of the chloroplatinate ion.

CONF is a bacteria analysis value meaning "Confluent"; the colonies merge together to form a mass.

Hardness is a physical-chemical characteristic commonly recognized by the increased quantity of soap required to produce lather. It is related primarily to the calcium and magnesium concentrations and is expressed as equivalent calcium carbonate (mg/l as CaCO₃).

Micrograms per liter (ug/l) and milligrams per liter (mg/l) are units for expressing the concentration of chemical constituents in solution and represent the weight of solute per unit volume of water. One thousand micrograms per liter is equivalent to one milligram per liter. Parts per million and milligrams per liter are synonymous.

Nitrate-nitrogen is nitrogen in the form of nitrate. Nitrate is the end product of ammonium oxidation (nitrification). Nitrate-nitrogen concentrations usually exceed those of nitrite-nitrogen and ammonia-nitrogen.

Nitrite-nitrogen is nitrogen in the form of nitrite. Nitrite is an intermediate oxidation state of nitrogen both in the oxidation of ammonia to nitrate and in the reduction of nitrate. It is generally found in low concentrations because it is rapidly converted to nitrate.

Organic nitrogen includes nitrogen contained in natural and synthetic organic compounds.

pH is the negative logarithm of the hydrogen ion concentration of a solution ($-\log [H^+]$) expressed in gram equivalents. It provides a measure of the acidic or basic character of a solution.

Phosphorous occurs in natural waters as various forms of suspended and dissolved phosphates. These include orthophosphates, polyphosphates and organic phosphates. Orthophosphates are the simplest forms of inorganic phosphates; orthophosphates are also called reactive phosphates. Polyphosphates are more complex and consist of two or more orthophosphate groups. Organic phosphates are formed primarily by biological processes, and are converted to orthophosphates by oxidation of organic matter. Total orthophosphorous is the sum of suspended and dissolved reactive phosphorous. Total phosphorous is the sum of suspended and dissolved components of the three major phosphate groups (orthophosphorous, polyphosphorous, and organic phosphorous).

Specific conductance is a measure of the ability of water to conduct an electrical current and is expressed in micromhos per centimeter at 25 degrees C. Because it is related to the number and specific chemical types of ions in solution, it can be used to approximate the dissolved solids content of water.

TNTC is a bacteria analysis value meaning "Too numerous to count".

Total Kjeldahl-nitrogen is the sum of ammonia-nitrogen and organic nitrogen.

Total nitrogen is the sum of nitrogen contained in nitrites, nitrates, ammonia, and organic nitrogen.

Total organic carbon is carbon contained in organic matter.

Total inorganic carbon is the sum of carbon dioxide, carbonate, and bicarbonate occurring in a water.

Total suspended solids (total non-filterable residue) are solids retained by a standard glass fiber filter. Total dissolved solids (total filterable residue) are solids which can pass through a standard glass fiber filter. Total solids (total residue) are the sum of suspended and dissolved materials.

Turbidity is a measure of water clarity. It is caused by suspended matter such as silt, clay, inorganic and organic matter, soluble colored organic compounds and plankton and other microscopic organisms. Turbidity is measured in Jackson turbidity units (JTU's) and nephelometric turbidity units (NTU's).

Weather code numbers range from 0 through 9 for weather conditions that may be encountered while sampling. Below is the weather code key.

- 0 = Clear
- 1 = Cloudy
- 2 = Overcast
- 3 = Wind causing dust or sand storms or drifting snow
- 4 = Fog or haze
- 5 = Drizzle
- 6 = Continuous precipitation
- 7 = Snow, sleet, or freezing rain
- 8 = Intermittent precipitation (showers)
- 9 = Thunderstorms (from 1 hour prior to sampling)

sources used for glossary:

- APHA-AWWA-WPCF Standard Methods 1985. 16th ed.
- EPA Methods 1974
- Federal Registrar 10/26/84
- USGS Water Data Report NJ-87-1
- Wetzel, 1983

BURLINGTON COUNTY

MULLICA RIVER BASIN

WADING RIVER

BASS RIVER

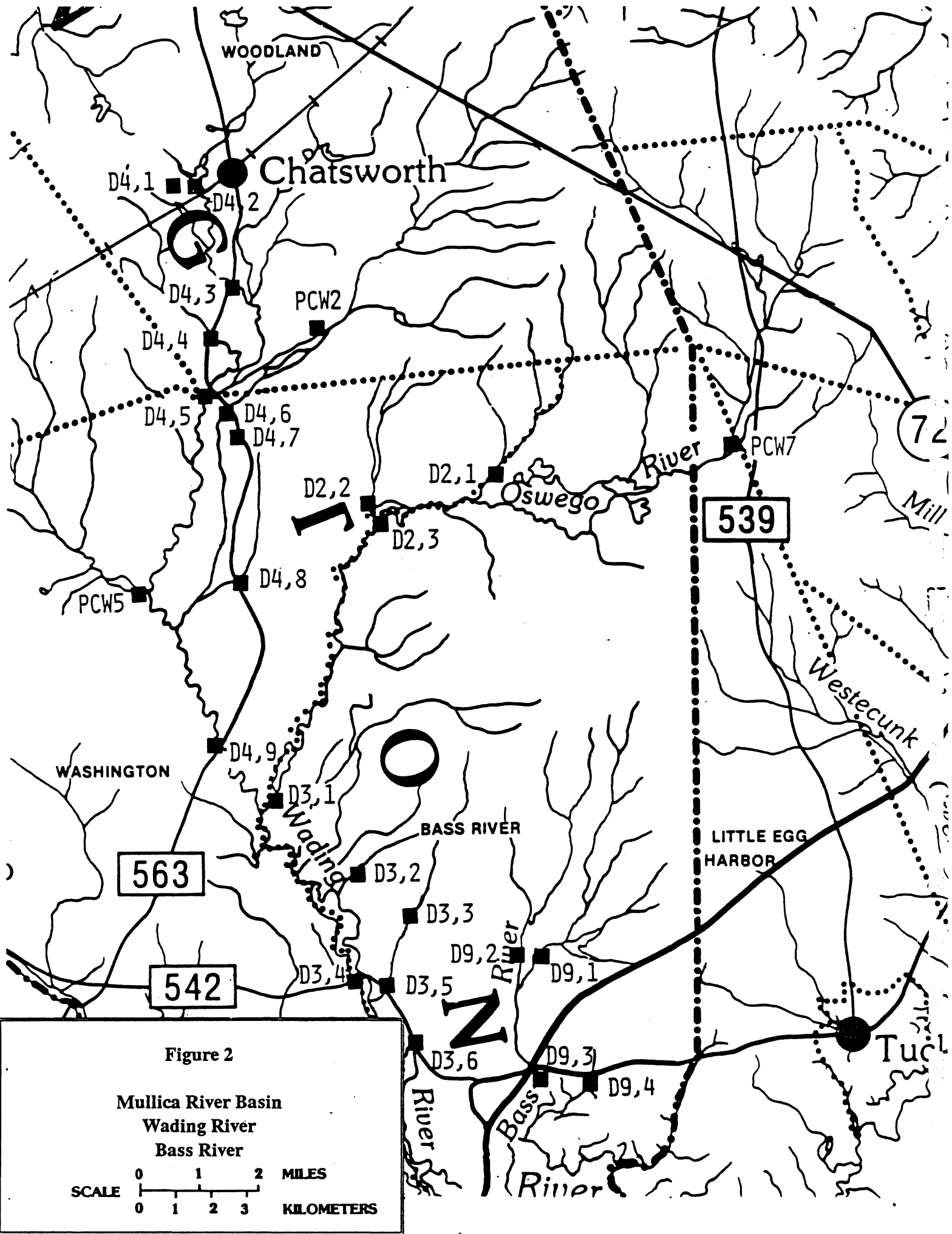


Figure 2

Mullica River Basin
 Wading River
 Bass River

SCALE 0 1 2 MILES
 0 1 2 3 KILOMETERS

Table 10. Mullica River Basin (Wading River and Bass River), Burlington County, station names and locations

STATION NAME	STATION CODE	STATION LOCATION	CO(1)	TWP(2)	QUAD(3)
WADING RIVER					
POLE BRANCH	D4,1	RT 532	BU	WO	16
WEST BRANCH WADING RIVER	D4,2	RT 532, CHATSWORTH LAKE OUTLET	BU	WO	16
WEST BRANCH WADING RIVER	D4,3	RT 563, BETWEEN SPEEDWELL AND CHATSWORTH	BU	WO	16
POLE BRANCH (JAKES SPUNG BRANCH)	D4,4	RT 563	BU	WO	16
SHOAL BRANCH	PCW2	CHATSWORTH-TUCKERTON RD	BU	WO	16
WEST BRANCH WADING RIVER	D4,5	RT 563 AT SPEEDWELL	BU	WO-WA	16
SHOAL BRANCH	D4,6	RT 563	BU	WA	16
CRANBERRY BOGS (4)	D4,7	RT 563, BETWEEN SPEEDWELL AND HOG WALLOW	BU	WA	16
TULPEHOCKEN CREEK	PCW5	MAXWELL-FRIENDSHIP RD. (BIG HAWKIN BRIDGE)	BU	WA	25
LITTLE HAWKIN RUN	D4,8	RT 563, NEAR HOG WALLOW	BU	WA	25
WEST BRANCH WADING RIVER	D4,9	RT 563 (EVANS BRIDGE)	BU	WA	25
OSWEGO RIVER	PCW7	BEAVER DAM ROAD	OC	LEH	26
PAPOOSE BRANCH	D2,1	JENKINS ROAD	BU	WA-BR	26
BREECHES BRANCH	D2,2	JENKINS ROAD, OSWEGO LAKE INLET	BU	WA	26
OSWEGO RIVER	D2,3	ANDREWS ROAD, OSWEGO LAKE OUTLET	BU	WA-BR	26
OSWEGO RIVER	D3,1	HARRISVILLE POND OUTLET (RT 679)	BU	WA-BR	25
TUB MILL BRANCH	D3,2	RT 679	BU	BR	26
WADING RIVER	D3,4	RT 542 AND LEEKTOWN RD	BU	WA-BR	34
IVES BRANCH (4)	D3,3	RT 679	BU	BR	26
IVES BRANCH	D3,5	RT 542	BU	BR	34
MERRYGOLD BRANCH	D3,6	RT 542	BU	BR	34
BASS RIVER					
EAST BRANCH BASS RIVER	D9,1	STAGE ROAD	BU	BR	34
WEST BRANCH BASS RIVER	D9,2	STAGE ROAD	BU	BR	34
BASS RIVER	D9,3	RT 9, NEAR NEW GRETN	BU	BR	34
JOBS CREEK	D9,4	RT 9	BU	BR	34

(1) Refer to Table 23 for county abbreviations.

(2) Refer to Table 22 for township abbreviations.

(3) Refer to Table 24 for quadrangle numbers.

(4) Site not sampled for this report, see New Jersey Surface Water Quality Data Report, December 1990.

MULLICA RIVER BASIN: WADING RIVER

POLE BRANCH D4,1

STATION LOCATION: ROUTE 532, WOODLAND TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			7
DAY			9
YEAR			90
WEATHER	code	P00041	
AIR TEMPERATURE	deg. C	---	30.0
WATER TEMPERATURE	deg. C	P00010	26.5
pH-LAB	pH	P00403	4.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	45.2
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	0.27
TOTAL KJELDAHL-N	mg/l	P00625	0.84
ORGANIC N	mg/l	P00605	0.57
TOTAL N	mg/l	P00600	0.84
TOTAL ORTHO P-PO4	mg/l	P00660	0.03
TOTAL P-PO4	mg/l	P00650	0.10
POLY PO4	mg/l	P00655	0.02
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	2.2
COD-LOW	mg/l	P00335	47.5
TOTAL CARBON	mg/l	P00690	16.8
TOT INORGANIC CARBON	mg/l	P00685	1.4
TOTAL ORGANIC CARBON	mg/l	P00680	15.4
TURBIDITY	JTU	P00076	6.5
TOTAL SUSPENDED SOLIDS	mg/l	P00530	17
TOTAL DISSOLVED SOLIDS	mg/l	P70300	31
TOTAL SOLIDS	mg/l	P00500	48
CHLORIDE	mg/l	P00940	4.9
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	<200
FECAL STREPT	MF	P31673	<100

MULLICA RIVER BASIN: WADING RIVER

POLE BRANCH D4,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	9	3.2	4.3	3.8	(4.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	9	36.1	61.1	46.4	7.5
NO2+NO3-N	mg/l	9	<.04	<.04	<.04	
NH3-N	mg/l	8	<.10	0.30	0.13	0.12
TOTAL KJELDAHL-N	mg/l	9	0.29	0.92	0.66	0.23
ORGANIC N	mg/l	8	0.28	0.92	0.50	0.21
TOTAL N	mg/l	9	0.29	0.92	0.66	0.23
TOTAL ORTHO P-PO4	mg/l	9	<.01	0.03	0.01	0.01
TOTAL P-PO4	mg/l	8	<.01	0.10	0.04	0.03
POLY PO4	mg/l	9	<.01	0.04	0.01	0.01
BOD 5-DAY	mg/l	6	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	3	<2.0	3.6	<2.0	<2.0
COD-LOW	mg/l	9	6.0	49.0	23.8	17.3
TOTAL CARBON	mg/l	7	4.2	16.8	9.7	5.3
TOT INORGANIC CARBON	mg/l	7	0.3	1.4	0.7	0.4
TOTAL ORGANIC CARBON	mg/l	7	3.9	15.5	9.0	4.9
TURBIDITY	JTU	9	1.0	6.5	2.6	1.7
TOTAL SUSPENDED SOLIDS	mg/l	9	1	28	8	9
TOTAL DISSOLVED SOLIDS	mg/l	9	6	49	30	12
TOTAL SOLIDS	mg/l	9	8	69	38	18
CHLORIDE	mg/l	9	3.5	6.0	4.6	0.7

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

WEST BRANCH WADING RIVER AT CHATSWORTH LAKE OUTLET D4,2

STATION LOCATION: ROUTE 532, WOODLAND TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			9	4
DAY			19	15
YEAR			90	91
WEATHER	code	P00041	1	6
AIR TEMPERATURE	deg. C	---	20.0	7.0
WATER TEMPERATURE	deg. C	P00010	14.0	11.0
pH-LAB	pH	P00403	4.4	4.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	41.1	61.9
NO2+NO3-N	mg/l	P00630	<.04	<.04
NH3-N	mg/l	P00610	<.10	0.13
TOTAL KJELDAHL-N	mg/l	P00625	1.90	0.84
ORGANIC N	mg/l	P00605	1.90	0.72
TOTAL N	mg/l	P00600	1.90	0.84
TOTAL ORTHO P-PO4	mg/l	P00660	0.09	0.02
TOTAL P-PO4	mg/l	P00650	0.08	0.03
POLY PO4	mg/l	P00655	<.01	<.01
BOD 5-DAY	mg/l	P00310	2.1	
BOD 7-DAY	mg/l	P00315		<2.0
COD-LOW	mg/l	P00335	26.0	19.5
TOTAL CARBON	mg/l	P00690	12.2	10.1
TOT INORGANIC CARBON	mg/l	P00685	0.5	0.4
TOTAL ORGANIC CARBON	mg/l	P00680	11.7	9.7
TURBIDITY	JTU	P00076	14.0	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	308	3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	28	34
TOTAL SOLIDS	mg/l	P00500	336	37
CHLORIDE	mg/l	P00940	4.3	5.4
FECAL COLIFORM	MF	P31613	<100	<20
TOTAL COLIFORM	MF	P31504	<500	<100
FECAL STREPT	MF	P31673	<200	<50

MULLICA RIVER BASIN: WADING RIVER

WEST BRANCH WADING RIVER AT CHATSWORTH LAKE OUTLET D4,2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	3.1	4.4	3.8	(4.3)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	34.6	61.9	47.9	9.8
NO2+NO3-N	mg/l	10	<.04	<.04	<.04	
NH3-N	mg/l	10	<.10	0.40	0.14	0.11
TOTAL KJELDAHL-N	mg/l	10	0.26	1.90	0.77	0.47
ORGANIC N	mg/l	10	0.15	1.90	0.63	0.53
TOTAL N	mg/l	10	0.26	1.90	0.77	0.47
TOTAL ORTHO P-PO4	mg/l	10	<.01	0.09	0.02	0.03
TOTAL P-PO4	mg/l	10	0.01	0.08	0.03	0.02
POLY PO4	mg/l	10	<.01	0.01	<.01	0.01
BOD 5-DAY	mg/l	6	<2.0	2.1	<2.0	<2.0
BOD 7-DAY	mg/l	4	<2.0	2.3	<2.0	<2.0
COD-LOW	mg/l	10	4.0	40.0	19.2	11.6
TOTAL CARBON	mg/l	8	4.3	16.3	9.2	4.3
TOT INORGANIC CARBON	mg/l	8	0.4	1.1	0.6	0.3
TOTAL ORGANIC CARBON	mg/l	8	3.9	15.6	8.7	4.2
TURBIDITY	JTU	10	1.0	14.0	3.4	3.9
TOTAL SUSPENDED SOLIDS	mg/l	10	<1	308	37	95
TOTAL DISSOLVED SOLIDS	mg/l	10	11	54	30	12
TOTAL SOLIDS	mg/l	10	14	336	67	95
CHLORIDE	mg/l	10	3.4	5.5	4.4	0.6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

WEST BRANCH WADING RIVER D4,3

STATION LOCATION: ROUTE 563, BETWEEN SPEEDWELL AND CHATSWORTH, WOODLAND TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			7
DAY			9
YEAR			90
WEATHER	code	P00041	
AIR TEMPERATURE	deg. C	---	30.0
WATER TEMPERATURE	deg. C	P00010	23.0
pH-LAB	pH	P00403	4.7
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	30.6
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.63
ORGANIC N	mg/l	P00605	0.63
TOTAL N	mg/l	P00600	0.63
TOTAL ORTHO P-PO4	mg/l	P00660	0.02
TOTAL P-PO4	mg/l	P00650	0.05
POLY PO4	mg/l	P00655	0.02
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	32.5
TOTAL CARBON	mg/l	P00690	14.1
TOT INORGANIC CARBON	mg/l	P00685	3.7
TOTAL ORGANIC CARBON	mg/l	P00680	10.4
TURBIDITY	JTU	P00076	7.5
TOTAL SUSPENDED SOLIDS	mg/l	P00530	17
TOTAL DISSOLVED SOLIDS	mg/l	P70300	29
TOTAL SOLIDS	mg/l	P00500	46
CHLORIDE	mg/l	P00940	3.6
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	600
FECAL STREPT	MF	P31673	700

MULLICA RIVER BASIN: WADING RIVER

WEST BRANCH WADING RIVER D4,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	3.3	4.7	4.0	(4.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	25.0	136.0	41.8	33.5
NO2+NO3-N	mg/l	10	<.04	0.15	<.04	0.05
NH3-N	mg/l	10	<.10	0.32	0.11	0.12
TOTAL KJELDAHL-N	mg/l	10	0.19	0.94	0.51	0.22
ORGANIC N	mg/l	10	0.16	0.71	0.40	0.17
TOTAL N	mg/l	10	0.19	0.94	0.53	0.21
TOTAL ORTHO P-PO4	mg/l	10	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	10	<.01	0.09	0.03	0.03
POLY PO4	mg/l	10	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	5	<2.0	2.3	<2.0	<2.0
BOD 7-DAY	mg/l	4	<2.0	2.8	<2.0	<2.0
COD-LOW	mg/l	10	4.0	34.8	18.9	12.1
TOTAL CARBON	mg/l	7	4.5	16.3	8.6	4.7
TOT INORGANIC CARBON	mg/l	7	1.4	4.5	2.4	1.2
TOTAL ORGANIC CARBON	mg/l	7	2.7	11.8	6.2	3.6
TURBIDITY	JTU	10	1.0	7.5	3.2	2.5
TOTAL SUSPENDED SOLIDS	mg/l	10	<1	40	12	13
TOTAL DISSOLVED SOLIDS	mg/l	10	6	52	28	11
TOTAL SOLIDS	mg/l	10	6	66	40	17
CHLORIDE	mg/l	10	2.9	12.5	4.7	2.8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

POLE BRANCH (JAKES SPUNG BRANCH) D4,4

STATION LOCATION: ROUTE 563, WOODLAND TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			7
DAY			9
YEAR			90
WEATHER	code	P00041	
AIR TEMPERATURE	deg. C	---	30.0
WATER TEMPERATURE	deg. C	P00010	25.0
pH-LAB	pH	P00403	5.6
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	58.4
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	0.12
TOTAL KJELDAHL-N	mg/l	P00625	0.56
ORGANIC N	mg/l	P00605	0.44
TOTAL N	mg/l	P00600	0.56
TOTAL ORTHO P-PO4	mg/l	P00660	0.02
TOTAL P-PO4	mg/l	P00650	0.05
POLY PO4	mg/l	P00655	0.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	56.5
TOTAL CARBON	mg/l	P00690	8.8
TOT INORGANIC CARBON	mg/l	P00685	2.8
TOTAL ORGANIC CARBON	mg/l	P00680	6.0
TURBIDITY	JTU	P00076	5.8
TOTAL SUSPENDED SOLIDS	mg/l	P00530	8
TOTAL DISSOLVED SOLIDS	mg/l	P70300	31
TOTAL SOLIDS	mg/l	P00500	39
CHLORIDE	mg/l	P00940	7.8
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	<200
FECAL STREPT	MF	P31673	<100

MULLICA RIVER BASIN: WADING RIVER

POLE BRANCH (JAKES SPUNG BRANCH) D4,4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	3.1	5.6	3.9	(4.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	30.0	58.4	40.6	7.5
NO2+NO3-N	mg/l	10	<.04	0.11	<.04	<.04
NH3-N	mg/l	10	<.10	0.26	0.11	<.10
TOTAL KJELDAHL-N	mg/l	9	0.28	0.76	0.45	0.16
ORGANIC N	mg/l	9	0.15	0.61	0.33	0.13
TOTAL N	mg/l	9	0.30	0.76	0.47	0.15
TOTAL ORTHO P-PO4	mg/l	10	<.01	0.06	0.01	0.02
TOTAL P-PO4	mg/l	9	<.01	0.07	0.03	0.02
POLY PO4	mg/l	10	<.01	0.01	0.01	0.01
BOD 5-DAY	mg/l	5	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	4	<2.0	2.4	<2.0	<2.0
COD-LOW	mg/l	10	1.5	56.5	11.6	16.1
TOTAL CARBON	mg/l	7	4.1	9.2	5.8	2.2
TOT INORGANIC CARBON	mg/l	7	0.6	3.4	2.1	1.0
TOTAL ORGANIC CARBON	mg/l	7	1.9	7.0	3.7	2.0
TURBIDITY	JTU	10	1.0	6.0	2.6	1.9
TOTAL SUSPENDED SOLIDS	mg/l	9	<1	8	5	3
TOTAL DISSOLVED SOLIDS	mg/l	10	5	31	22	9
TOTAL SOLIDS	mg/l	9	5	39	28	11
CHLORIDE	mg/l	10	3.4	7.8	4.6	1.3

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

SHOAL BRANCH PCW2

STATION LOCATION: CHATSWORTH-TUCKERTON ROAD, WOODLAND TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	11	2	4
MONTH			9	11	2	4
DAY			12	28	27	15
YEAR			90	90	91	91
WEATHER	code	P00041	1	0	1	6
AIR TEMPERATURE	deg. C	---	21.0	12.0	-1.0	9.0
WATER TEMPERATURE	deg. C	P00010	19.0	9.0	3.0	9.5
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	4.9	8.2		
pH-FIELD	pH	P00403	4.3	4.2	4.2	
pH-LAB	pH	P00403	4.3	4.2	4.4	4.3
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	32.0	35.0		
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	37.2	40.8	43.1	42.1
HARDNESS(exp)	mg/l	P00900	1.1	1.9	1.2	
NO2+NO3-N	mg/l	P00630	<.04	<.04	0.08	<.04
NH3-N	mg/l	P00610	0.35	<.10	<.10	0.11
TOTAL KJELDAHL-N	mg/l	P00625	0.34	0.37	0.40	0.68
ORGANIC N	mg/l	P00605	<.10	0.37	0.40	0.57
TOTAL N	mg/l	P00600	0.34	0.37	0.48	0.68
TOTAL ORTHO P-PO4	mg/l	P00660	0.02	0.01	0.01	0.02
TOTAL P-PO4	mg/l	P00650	0.03	0.05	0.01	0.03
POLY PO4	mg/l	P00655	<.01	<.01	<.01	<.01
BOD 5-DAY	mg/l	P00310	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	P00315				<2.0
COD-LOW	mg/l	P00335	31.5	4.5	13.5	15.0
TOTAL CARBON	mg/l	P00690	12.4	6.0	6.6	8.7
TOT INORGANIC CARBON	mg/l	P00685	2.4	1.6	1.9	1.3
TOTAL ORGANIC CARBON	mg/l	P00680	10.0	4.4	4.7	7.4
TURBIDITY	JTU	P00076	2.0	1.0	1.0	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	3	1	<1	1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	31	6	20	50
TOTAL SOLIDS	mg/l	P00500	34	7	20	51
TOTAL CALCIUM(exp)	mg/l	P00916	0.8	1.2	0.8	
TOTAL MAGNESIUM(exp)	mg/l	P00927	0.3	0.7	0.4	
CHLORIDE	mg/l	P00940	4.0	4.0	3.7	3.5
FECAL COLIFORM	MF	P31613	20	<50	<20	
TOTAL COLIFORM	MF	P31504	300	200	<100	
FECAL STREPT	MF	P31673	<50	<100	<50	

MULLICA RIVER BASIN: WADING RIVER

SHOAL BRANCH PCW2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	10	4.6	10.5	7.9	2.0
pH-FIELD	pH	10	4.0	4.3	4.1	(4.2)
pH-LAB	pH	13	2.9	4.4	3.7	(4.2)
SPECIFIC CONDUCTIVITY-FIELD	umhos	10	23.0	55.0	39.1	10.4
SPECIFIC CONDUCTIVITY-LAB	umhos	13	30.1	70.2	45.0	9.4
HARDNESS(exp)	mg/l	9	1.1	3.0	1.9	0.6
NO2+NO3-N	mg/l	13	<.04	0.08	<.04	<.04
NH3-N	mg/l	13	<.10	0.35	0.14	0.13
TOTAL KJELDAHL-N	mg/l	11	0.34	1.20	0.65	0.25
ORGANIC N	mg/l	11	<.10	0.93	0.48	0.26
TOTAL N	mg/l	11	0.34	1.20	0.66	0.24
TOTAL ORTHO P-PO4	mg/l	13	<.01	0.03	0.01	0.01
TOTAL P-PO4	mg/l	13	<.01	0.06	0.02	0.02
POLY PO4	mg/l	13	<.01	<.01	<.01	
BOD 5-DAY	mg/l	8	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	5	<2.0	2.3	<2.0	<2.0
COD-LOW	mg/l	13	4.5	42.5	23.4	12.2
TOTAL CARBON	mg/l	13	6.0	22.7	11.0	4.9
TOT INORGANIC CARBON	mg/l	13	1.1	2.4	1.6	0.3
TOTAL ORGANIC CARBON	mg/l	13	4.4	20.9	9.4	4.9
TURBIDITY	JTU	13	1.0	6.3	2.1	1.7
TOTAL SUSPENDED SOLIDS	mg/l	13	<1	8	2	2
TOTAL DISSOLVED SOLIDS	mg/l	13	6	54	34	14
TOTAL SOLIDS	mg/l	13	7	55	36	14
TOTAL CALCIUM(exp)	mg/l	9	0.6	1.6	1.0	0.3
TOTAL MAGNESIUM(exp)	mg/l	9	0.3	1.4	0.8	0.4
CHLORIDE	mg/l	13	2.1	4.5	3.7	0.6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

WEST BRANCH WADING RIVER D4,5

STATION LOCATION: ROUTE 563 AT SPEEDWELL, WOODLAND TWP AND WASHINGTON TWP BORDER, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			7	4
DAY			9	15
YEAR			90	91
WEATHER	code	P00041		6
AIR TEMPERATURE	deg. C	---	30.0	8.5
WATER TEMPERATURE	deg. C	P00010	22.0	10.0
pH-LAB	pH	P00403	4.4	4.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	38.0	40.8
NO2+NO3-N	mg/l	P00630	<.04	<.04
NH3-N	mg/l	P00610	<.10	0.24
TOTAL KJELDAHL-N	mg/l	P00625	0.82	0.66
ORGANIC N	mg/l	P00605	0.82	0.42
TOTAL N	mg/l	P00600	0.82	0.66
TOTAL ORTHO P-PO4	mg/l	P00660	0.03	
TOTAL P-PO4	mg/l	P00650	0.07	0.01
POLY PO4	mg/l	P00655	0.02	<.01
BOD 5-DAY	mg/l	P00310		
BOD 7-DAY	mg/l	P00315	<2.0	<2.0
COD-LOW	mg/l	P00335	33.2	<1.0
TOTAL CARBON	mg/l	P00690	12.6	6.6
TOT INORGANIC CARBON	mg/l	P00685	2.4	1.1
TOTAL ORGANIC CARBON	mg/l	P00680	10.1	5.5
TURBIDITY	JTU	P00076	11.3	3.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	17	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	34	38
TOTAL SOLIDS	mg/l	P00500	51	42
CHLORIDE	mg/l	P00940	4.0	3.5
FECAL COLIFORM	MF	P31613	50	<20
TOTAL COLIFORM	MF	P31504	200	<100
FECAL STREPT	MF	P31673	300	50

MULLICA RIVER BASIN: WADING RIVER

WEST BRANCH WADING RIVER D4,5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	3.3	4.5	4.0	(4.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	11	33.0	56.0	40.1	6.8
NO2+NO3-N	mg/l	11	<.04	0.11	<.04	<.04
NH3-N	mg/l	11	<.10	0.41	0.14	0.13
TOTAL KJELDAHL-N	mg/l	11	0.12	0.82	0.50	0.21
ORGANIC N	mg/l	11	0.11	0.82	0.36	0.21
TOTAL N	mg/l	11	0.12	0.82	0.51	0.20
TOTAL ORTHO P-PO4	mg/l	10	<.01	0.03	0.02	0.01
TOTAL P-PO4	mg/l	10	<.01	0.08	0.03	0.02
POLY PO4	mg/l	11	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	4	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	6	<2.0	4.0	<2.0	<2.0
COD-LOW	mg/l	10	<1.0	39.3	20.1	13.3
TOTAL CARBON	mg/l	8	5.4	14.5	8.6	3.4
TOT INORGANIC CARBON	mg/l	8	1.0	3.1	1.7	0.8
TOTAL ORGANIC CARBON	mg/l	8	3.6	11.4	6.9	2.9
TURBIDITY	JTU	11	1.6	14.0	4.6	4.1
TOTAL SUSPENDED SOLIDS	mg/l	11	<1	38	10	12
TOTAL DISSOLVED SOLIDS	mg/l	11	3	38	29	10
TOTAL SOLIDS	mg/l	11	3	64	39	16
CHLORIDE	mg/l	11	3.4	6.0	4.2	0.7

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

SHOAL BRANCH D4,6

STATION LOCATION: ROUTE 563, WASHINGTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			7
DAY			9
YEAR			90
WEATHER	code	P00041	
AIR TEMPERATURE	deg. C	---	30.0
WATER TEMPERATURE	deg. C	P00010	25.0
pH-LAB	pH	P00403	4.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	36.1
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	0.12
TOTAL KJELDAHL-N	mg/l	P00625	0.85
ORGANIC N	mg/l	P00605	0.73
TOTAL N	mg/l	P00600	0.85
TOTAL ORTHO P-PO4	mg/l	P00660	0.05
TOTAL P-PO4	mg/l	P00650	0.07
POLY PO4	mg/l	P00655	
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	47.0
TOTAL CARBON	mg/l	P00690	19.4
TOT INORGANIC CARBON	mg/l	P00685	1.4
TOTAL ORGANIC CARBON	mg/l	P00680	17.9
TURBIDITY	JTU	P00076	9.5
TOTAL SUSPENDED SOLIDS	mg/l	P00530	26
TOTAL DISSOLVED SOLIDS	mg/l	P70300	32
TOTAL SOLIDS	mg/l	P00500	58
CHLORIDE	mg/l	P00940	4.2
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	<200
FECAL STREPT	MF	P31673	1500

MULLICA RIVER BASIN: WADING RIVER

SHOAL BRANCH D4,6

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	3.5	4.5	4.0	(4.3)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	24.6	63.0	41.3	10.3
NO2+NO3-N	mg/l	10	<.04	0.11	<.04	<.04
NH3-N	mg/l	10	<.10	0.30	0.10	0.12
TOTAL KJELDAHL-N	mg/l	10	0.27	0.99	0.61	0.25
ORGANIC N	mg/l	10	0.16	0.99	0.51	0.26
TOTAL N	mg/l	10	0.34	0.99	0.62	0.23
TOTAL ORTHO P-PO4	mg/l	10	<.01	0.05	0.02	0.01
TOTAL P-PO4	mg/l	9	0.02	0.07	0.04	0.02
POLY PO4	mg/l	9	<.01	0.03	0.01	0.01
BOD 5-DAY	mg/l	3	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	6	<2.0	<2.0	<2.0	
COD-LOW	mg/l	9	11.0	47.0	26.8	13.0
TOTAL CARBON	mg/l	7	7.4	19.4	11.4	4.9
TOT INORGANIC CARBON	mg/l	7	1.1	4.1	2.0	1.1
TOTAL ORGANIC CARBON	mg/l	7	5.0	17.9	9.5	5.1
TURBIDITY	JTU	10	<1.0	9.5	3.0	2.7
TOTAL SUSPENDED SOLIDS	mg/l	10	1	28	9	10
TOTAL DISSOLVED SOLIDS	mg/l	10	14	52	33	11
TOTAL SOLIDS	mg/l	10	15	68	42	16
CHLORIDE	mg/l	10	3.2	6.5	4.2	0.9

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

TULPEHOCKEN CREEK PCW5

STATION LOCATION: MAXWELL-FRIENDSHIP ROAD, BIG HAWKIN BRIDGE, WASHINGTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
MONTH			9	11	2	4
DAY			12	28	25	15
YEAR			90	90	91	91
WEATHER	code	P00041	1	0	2	6
AIR TEMPERATURE	deg. C	---	21.0	12.0	9.5	9.5
WATER TEMPERATURE	deg. C	P00010	17.5	9.5	5.5	10.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	7.9	9.5	10.5	
pH-FIELD	pH	P00403	4.8	4.8	4.5	
pH-LAB	pH	P00403	4.5	5.0	5.0	4.5
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	19.0	20.0	20.0	
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	23.4	24.0	28.5	29.8
HARDNESS(exp)	mg/l	P00900	1.2	1.7	1.4	
NO2+NO3-N	mg/l	P00630	<.04	<.04	<.04	<.04
NH3-N	mg/l	P00610	0.28	<.10		0.18
TOTAL KJELDAHL-N	mg/l	P00625	0.60	0.25		0.90
ORGANIC N	mg/l	P00605	0.32	0.25		0.72
TOTAL N	mg/l	P00600	0.60	0.25		0.90
TOTAL ORTHO P-PO4	mg/l	P00660	0.02	<.01	0.01	0.02
TOTAL P-PO4	mg/l	P00650	0.02	0.02	0.01	0.01
POLY PO4	mg/l	P00655	<.01	0.01	<.01	<.01
BOD 5-DAY	mg/l	P00310	<2.0	<2.0		
BOD 7-DAY	mg/l	P00315			<2.0	<2.0
COD-LOW	mg/l	P00335	48.0	18.2	11.5	15.5
TOTAL CARBON	mg/l	P00690	17.3	6.6	8.5	13.0
TOT INORGANIC CARBON	mg/l	P00685	2.4	1.5	1.7	1.5
TOTAL ORGANIC CARBON	mg/l	P00680	14.8	5.1	6.8	11.5
TURBIDITY	JTU	P00076	4.0	1.0	1.0	3.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	26	<1	<1	3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	36	22	28	36
TOTAL SOLIDS	mg/l	P00500	62	22	28	39
TOTAL CALCIUM(exp)	mg/l	P00916	1.0	1.0	0.6	
TOTAL MAGNESIUM(exp)	mg/l	P00927	0.2	0.7	0.8	
CHLORIDE	mg/l	P00940	2.4	3.2	2.8	2.1
FECAL COLIFORM	MF	P31613	20	<50	<20	
TOTAL COLIFORM	MF	P31504	400	<200	<100	
FECAL STREPT	MF	P31673	50	<100	<50	

MULLICA RIVER BASIN: WADING RIVER

TULPEHOCKEN CREEK PCW5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	11	5.7	12.2	9.1	1.7
pH-FIELD	pH	10	3.9	4.8	4.3	(4.5)
pH-LAB	pH	13	3.6	5.7	4.2	(4.5)
SPECIFIC CONDUCTIVITY-FIELD	umhos	11	13.0	58.0	27.5	13.5
SPECIFIC CONDUCTIVITY-LAB	umhos	13	16.8	76.7	33.6	16.2
HARDNESS(exp)	mg/l	9	1.2	3.6	2.2	0.9
NO2+NO3-N	mg/l	13	<.04	<.04	<.04	
NH3-N	mg/l	12	<.10	0.32	0.18	0.11
TOTAL KJELDAHL-N	mg/l	10	0.25	0.90	0.68	0.21
ORGANIC N	mg/l	10	0.25	0.72	0.47	0.17
TOTAL N	mg/l	10	0.25	0.90	0.68	0.21
TOTAL ORTHO P-PO4	mg/l	11	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	13	<.01	0.09	0.01	0.02
POLY PO4	mg/l	11	<.01	0.01	<.01	<.01
BOD 5-DAY	mg/l	8	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	5	<2.0	<2.0	<2.0	
COD-LOW	mg/l	13	11.5	59.5	33.9	14.4
TOTAL CARBON	mg/l	13	6.6	27.0	14.4	5.4
TOT INORGANIC CARBON	mg/l	13	1.3	2.4	1.7	0.4
TOTAL ORGANIC CARBON	mg/l	13	5.1	25.0	12.7	5.3
TURBIDITY	JTU	13	1.0	12.0	3.0	3.0
TOTAL SUSPENDED SOLIDS	mg/l	13	<1	26	8	8
TOTAL DISSOLVED SOLIDS	mg/l	12	20	54	36	10
TOTAL SOLIDS	mg/l	12	22	69	44	14
TOTAL CALCIUM(exp)	mg/l	9	0.6	2.0	1.1	0.5
TOTAL MAGNESIUM(exp)	mg/l	9	0.2	1.9	1.0	0.5
CHLORIDE	mg/l	13	2.1	9.1	3.3	1.8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

LITTLE HAWKIN RUN D4,8

STATION LOCATION: ROUTE 563 NEAR HOG WALLOW, WASHINGTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			7	4
DAY			9	15
YEAR			90	91
WEATHER	code	P00041		6
AIR TEMPERATURE	deg. C	---	30.0	9.0
WATER TEMPERATURE	deg. C	P00010	25.0	10.0
pH-LAB	pH	P00403	4.6	4.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	40.8	39.8
NO2+NO3-N	mg/l	P00630	<.04	<.04
NH3-N	mg/l	P00610	0.13	0.14
TOTAL KJELDAHL-N	mg/l	P00625	1.30	0.59
ORGANIC N	mg/l	P00605	1.17	0.45
TOTAL N	mg/l	P00600	1.30	0.59
TOTAL ORTHO P-PO4	mg/l	P00660		0.02
TOTAL P-PO4	mg/l	P00650	0.13	0.02
POLY PO4	mg/l	P00655		<.01
BOD 5-DAY	mg/l	P00310		
BOD 7-DAY	mg/l	P00315	2.3	<2.0
COD-LOW	mg/l	P00335	97.5	21.5
TOTAL CARBON	mg/l	P00690	42.3	8.0
TOT INORGANIC CARBON	mg/l	P00685	3.8	1.6
TOTAL ORGANIC CARBON	mg/l	P00680	38.5	6.4
TURBIDITY	JTU	P00076	21.0	3.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	15	3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	54	35
TOTAL SOLIDS	mg/l	P00500	69	38
CHLORIDE	mg/l	P00940	5.7	3.5
FECAL COLIFORM	MF	P31613	<50	<20
TOTAL COLIFORM	MF	P31504	600	<100
FECAL STREPT	MF	P31673	1400	<50

MULLICA RIVER BASIN: WADING RIVER

LITTLE HAWKIN RUN D4,8

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	3.3	4.6	3.9	(4.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	11	29.6	80.0	44.3	14.0
NO2+NO3-N	mg/l	11	<.04	0.11	<.04	<.04
NH3-N	mg/l	10	<.10	0.25	0.10	0.10
TOTAL KJELDAHL-N	mg/l	11	0.25	1.30	0.58	0.30
ORGANIC N	mg/l	10	0.14	1.17	0.50	0.31
TOTAL N	mg/l	11	0.27	1.30	0.59	0.29
TOTAL ORTHO P-PO4	mg/l	10	<.01	0.14	0.03	0.04
TOTAL P-PO4	mg/l	10	<.01	0.21	0.06	0.07
POLY PO4	mg/l	10	<.01	0.03	<.01	0.01
BOD 5-DAY	mg/l	3	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	7	<2.0	3.1	<2.0	<2.0
COD-LOW	mg/l	10	4.0	97.5	24.4	26.6
TOTAL CARBON	mg/l	8	5.2	42.3	13.0	12.4
TOT INORGANIC CARBON	mg/l	8	1.3	3.8	2.0	0.9
TOTAL ORGANIC CARBON	mg/l	8	3.9	38.5	11.0	11.6
TURBIDITY	JTU	11	1.0	21.0	4.4	6.0
TOTAL SUSPENDED SOLIDS	mg/l	11	1	64	10	18
TOTAL DISSOLVED SOLIDS	mg/l	11	<1	72	36	19
TOTAL SOLIDS	mg/l	11	2	136	46	34
CHLORIDE	mg/l	11	3.2	7.5	4.5	1.4

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

WEST BRANCH WADING RIVER D4,9

STATION LOCATION: ROUTE 563, EVANS BRIDGE, WASHINGTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			4
DAY			15
YEAR			91
WEATHER	code	P00041	6
AIR TEMPERATURE	deg. C	---	8.0
WATER TEMPERATURE	deg. C	P00010	10.0
pH-LAB	pH	P00403	4.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	38.4
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	0.37
TOTAL KJELDAHL-N	mg/l	P00625	0.59
ORGANIC N	mg/l	P00605	0.22
TOTAL N	mg/l	P00600	0.59
TOTAL ORTHO P-PO4	mg/l	P00660	0.02
TOTAL P-PO4	mg/l	P00650	0.02
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	2.5
TOTAL CARBON	mg/l	P00690	7.6
TOT INORGANIC CARBON	mg/l	P00685	1.0
TOTAL ORGANIC CARBON	mg/l	P00680	6.6
TURBIDITY	JTU	P00076	3.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	20
TOTAL SOLIDS	mg/l	P00500	23
CHLORIDE	mg/l	P00940	3.1
FECAL COLIFORM	MF	P31613	20
TOTAL COLIFORM	MF	P31504	100
FECAL STREPT	MF	P31673	50

MULLICA RIVER BASIN: WADING RIVER

WEST BRANCH WADING RIVER D4,9

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	3.5	4.4	4.0	(4.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	30.0	70.0	40.4	11.2
NO2+NO3-N	mg/l	10	<.04	0.11	<.04	<.04
NH3-N	mg/l	9	<.10	0.37	0.13	0.14
TOTAL KJELDAHL-N	mg/l	10	0.29	1.20	0.53	0.26
ORGANIC N	mg/l	9	0.19	1.20	0.42	0.30
TOTAL N	mg/l	10	0.32	1.20	0.55	0.25
TOTAL ORTHO P-PO4	mg/l	10	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	10	<.01	0.15	0.03	0.04
POLY PO4	mg/l	10	<.01	0.01	<.01	0.01
BOD 5-DAY	mg/l	3	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	6	<2.0	2.1	<2.0	<2.0
COD-LOW	mg/l	10	2.0	34.0	11.7	9.3
TOTAL CARBON	mg/l	7	4.2	17.1	8.3	4.7
TOT INORGANIC CARBON	mg/l	7	0.3	2.0	1.0	0.5
TOTAL ORGANIC CARBON	mg/l	7	3.4	15.1	7.3	4.3
TURBIDITY	JTU	10	1.5	5.4	2.6	1.1
TOTAL SUSPENDED SOLIDS	mg/l	10	1	15	5	4
TOTAL DISSOLVED SOLIDS	mg/l	10	13	49	28	13
TOTAL SOLIDS	mg/l	10	17	53	32	12
CHLORIDE	mg/l	10	3.1	7.0	4.2	1.1

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

OSWEGO RIVER PCW7

STATION LOCATION: BEAVER DAM ROAD, LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	11	2	4
MONTH			9	11	2	4
DAY			17	28	25	15
YEAR			90	90	91	91
WEATHER	code	P00041	1	2	2	6
AIR TEMPERATURE	deg. C	---	13.5	12.0	9.5	10.0
WATER TEMPERATURE	deg. C	P00010	16.5	10.5	5.0	10.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	6.2	8.5	10.1	
pH-FIELD	pH	P00403	4.5	4.2	4.2	
pH-LAB	pH	P00403	4.5	4.3	4.3	4.3
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	29.0	44.0	39.0	
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	35.3	50.1	55.9	46.4
HARDNESS(exp)	mg/l	P00900	1.3	1.5	1.3	1.0
NO2+NO3-N	mg/l	P00630	<.04	<.04	<.04	<.04
NH3-N	mg/l	P00610	0.14	0.25		<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.35	0.26		0.78
ORGANIC N	mg/l	P00605	0.21	<.10		0.78
TOTAL N	mg/l	P00600	0.35	0.26		0.78
TOTAL ORTHO P-PO4	mg/l	P00660	0.02	0.02	0.01	0.02
TOTAL P-PO4	mg/l	P00650	0.01	0.02	0.01	0.01
POLY PO4	mg/l	P00655	<.01	<.01	<.01	<.01
BOD 5-DAY	mg/l	P00310		<2.0		
BOD 7-DAY	mg/l	P00315	<2.0		<2.0	<2.0
COD-LOW	mg/l	P00335	25.5	13.2	8.5	15.5
TOTAL CARBON	mg/l	P00690	12.4	7.4	7.8	10.5
TOT INORGANIC CARBON	mg/l	P00685	2.7	1.9	2.1	1.6
TOTAL ORGANIC CARBON	mg/l	P00680	9.7	5.4	5.7	8.9
TURBIDITY	JTU	P00076	1.0	<1.0	1.0	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	3	2	1	1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	36	35	33	33
TOTAL SOLIDS	mg/l	P00500	39	37	34	34
CHLORIDE	mg/l	P00940	5.3	6.6	6.9	6.0
TOTAL CALCIUM(exp)	mg/l	P00916	0.8	1.0	0.8	0.6
TOTAL MAGNESIUM(exp)	mg/l	P00927	0.5	0.5	0.5	0.3
FECAL COLIFORM	MF	P31613	60	<50	<20	
TOTAL COLIFORM	MF	P31504	200	600	100	
FECAL STREPT	MF	P31673	400	<100	<50	

MULLICA RIVER BASIN: WADING RIVER

OSWEGO RIVER PCW7

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	11	4.9	10.8	8.1	1.8
pH-FIELD	pH	10	3.9	4.5	4.2	(4.2)
pH-LAB	pH	13	3.2	4.5	3.9	(4.2)
SPECIFIC CONDUCTIVITY-FIELD	umhos	11	22.0	59.0	42.2	13.0
SPECIFIC CONDUCTIVITY-LAB	umhos	13	20.2	99.7	52.3	19.2
HARDNESS(exp)	mg/l	9	1.0	2.5	1.7	0.5
NO2+NO3-N	mg/l	13	<.04	0.04	<.04	<.04
NH3-N	mg/l	12	<.10	0.32	0.13	0.13
TOTAL KJELDAHL-N	mg/l	10	0.26	0.79	0.54	0.19
ORGANIC N	mg/l	10	<.10	0.78	0.39	0.27
TOTAL N	mg/l	10	0.26	0.79	0.54	0.19
TOTAL ORTHO P-PO4	mg/l	11	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	13	<.01	0.06	0.01	0.02
POLY PO4	mg/l	11	<.01	0.01	<.01	<.01
BOD 5-DAY	mg/l	5	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	8	<2.0	<2.0	<2.0	
COD-LOW	mg/l	13	8.5	62.5	25.8	16.9
TOTAL CARBON	mg/l	13	7.4	22.3	11.1	4.1
TOT INORGANIC CARBON	mg/l	13	1.4	2.7	1.8	0.3
TOTAL ORGANIC CARBON	mg/l	13	5.4	20.5	9.4	4.1
TURBIDITY	JTU	13	<1.0	3.3	<1.0	1.0
TOTAL SUSPENDED SOLIDS	mg/l	13	<1	7	2	2
TOTAL DISSOLVED SOLIDS	mg/l	13	19	63	39	13
TOTAL SOLIDS	mg/l	13	26	69	42	13
CHLORIDE	mg/l	13	3.7	7.4	6.3	1.0
TOTAL CALCIUM(exp)	mg/l	9	0.6	1.4	1.0	0.3
TOTAL MAGNESIUM(exp)	mg/l	9	0.3	1.2	0.7	0.3

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

PAPOOSE BRANCH D2,1

STATION LOCATION: JENKINS ROAD, WASHINGTON TWP AND BASS RIVER TWP BORDER, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			7	3
DAY			9	13
YEAR			90	91
WEATHER	code	P00041		2
AIR TEMPERATURE	deg. C	---	30.0	1.0
WATER TEMPERATURE	deg. C	P00010	18.5	5.0
pH-LAB	pH	P00403	4.5	4.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	29.3	41.0
NO2+NO3-N	mg/l	P00630	<.04	0.04
NH3-N	mg/l	P00610	<.10	
TOTAL KJELDAHL-N	mg/l	P00625	0.64	0.49
ORGANIC N	mg/l	P00605	0.64	
TOTAL N	mg/l	P00600	0.64	0.53
TOTAL ORTHO P-PO4	mg/l	P00660	0.01	
TOTAL P-PO4	mg/l	P00650	0.02	0.01
POLY PO4	mg/l	P00655	0.02	<.01
BOD 5-DAY	mg/l	P00310		<2.0
BOD 7-DAY	mg/l	P00315	<2.0	
COD-LOW	mg/l	P00335	18.2	36.8
TOTAL CARBON	mg/l	P00690	9.3	9.0
TOT INORGANIC CARBON	mg/l	P00685	2.0	1.6
TOTAL ORGANIC CARBON	mg/l	P00680	7.3	7.4
TURBIDITY	JTU	P00076	<1.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	1	<1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	29	26
TOTAL SOLIDS	mg/l	P00500	30	26
CHLORIDE	mg/l	P00940	4.1	2.8
FECAL COLIFORM	MF	P31613	100	<20
TOTAL COLIFORM	MF	P31504	200	<100
FECAL STREPT	MF	P31673	<100	<50

MULLICA RIVER BASIN: WADING RIVER

PAPOOSE BRANCH D2,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	3.0	4.5	3.6	(4.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	11	29.3	50.0	39.7	6.6
NO2+NO3-N	mg/l	11	<.04	0.04	<.04	<.04
NH3-N	mg/l	10	<.10	0.27	0.10	0.10
TOTAL KJELDAHL-N	mg/l	10	0.32	1.00	0.59	0.24
ORGANIC N	mg/l	9	0.21	0.93	0.52	0.27
TOTAL N	mg/l	10	0.32	1.00	0.60	0.24
TOTAL ORTHO P-PO4	mg/l	10	<.01	0.01	<.01	0.01
TOTAL P-PO4	mg/l	11	<.01	0.20	0.03	0.06
POLY PO4	mg/l	11	<.01	0.02	<.01	0.01
BOD 5-DAY	mg/l	4	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	6	<2.0	<2.0	<2.0	
COD-LOW	mg/l	10	8.0	40.0	22.2	10.7
TOTAL CARBON	mg/l	8	4.9	16.4	9.8	4.0
TOT INORGANIC CARBON	mg/l	8	0.6	2.0	1.3	0.6
TOTAL ORGANIC CARBON	mg/l	8	4.2	14.5	8.5	3.7
TURBIDITY	JTU	11	<1.0	4.5	1.1	1.4
TOTAL SUSPENDED SOLIDS	mg/l	11	<1	12	3	4
TOTAL DISSOLVED SOLIDS	mg/l	11	4	54	33	15
TOTAL SOLIDS	mg/l	11	5	62	36	16
CHLORIDE	mg/l	11	2.8	6.8	3.8	1.1

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

BREECHES BRANCH AT OSWEGO LAKE INLET D2,2

STATION LOCATION: JENKINS ROAD, WASHINGTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			7	3
DAY			9	13
YEAR			90	91
WEATHER	code	P00041		2
AIR TEMPERATURE	deg. C	---	30.0	1.0
WATER TEMPERATURE	deg. C	P00010	26.5	4.0
pH-LAB	pH	P00403	4.3	4.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	37.0	44.1
NO2+NO3-N	mg/l	P00630	<.04	<.04
NH3-N	mg/l	P00610	<.10	0.18
TOTAL KJELDAHL-N	mg/l	P00625	0.73	0.33
ORGANIC N	mg/l	P00605	0.73	0.15
TOTAL N	mg/l	P00600	0.73	0.33
TOTAL ORTHO P-PO4	mg/l	P00660	0.01	
TOTAL P-PO4	mg/l	P00650	0.02	0.01
POLY PO4	mg/l	P00655	0.02	<.01
BOD 5-DAY	mg/l	P00310		<2.0
BOD 7-DAY	mg/l	P00315	<2.0	
COD-LOW	mg/l	P00335	27.5	55.2
TOTAL CARBON	mg/l	P00690	11.3	10.7
TOT INORGANIC CARBON	mg/l	P00685	1.1	0.8
TOTAL ORGANIC CARBON	mg/l	P00680	10.2	10.0
TURBIDITY	JTU	P00076	4.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	4	1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	31	32
TOTAL SOLIDS	mg/l	P00500	35	33
CHLORIDE	mg/l	P00940	3.6	2.8
FECAL COLIFORM	MF	P31613	50	<20
TOTAL COLIFORM	MF	P31504	800	500
FECAL STREPT	MF	P31673	400	<50

MULLICA RIVER BASIN: WADING RIVER

BREECHES BRANCH AT OSWEGO LAKE INLET D2,2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	12	3.0	4.5	3.7	(4.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	12	25.9	78.0	45.7	16.8
NO2+NO3-N	mg/l	12	<.04	0.04	<.04	<.04
NH3-N	mg/l	12	<.10	0.34	0.14	0.11
TOTAL KJELDAHL-N	mg/l	11	0.28	1.20	0.57	0.29
ORGANIC N	mg/l	11	<.10	0.91	0.44	0.28
TOTAL N	mg/l	11	0.28	1.20	0.58	0.28
TOTAL ORTHO P-PO4	mg/l	11	<.01	0.01	<.01	0.01
TOTAL P-PO4	mg/l	12	<.01	0.03	0.01	0.01
POLY PO4	mg/l	12	<.01	0.02	<.01	0.01
BOD 5-DAY	mg/l	5	<2.0	3.3	<2.0	<2.0
BOD 7-DAY	mg/l	6	<2.0	2.6	<2.0	<2.0
COD-LOW	mg/l	11	8.0	55.2	24.6	13.4
TOTAL CARBON	mg/l	9	4.3	14.7	9.4	3.5
TOT INORGANIC CARBON	mg/l	9	0.8	2.3	1.3	0.5
TOTAL ORGANIC CARBON	mg/l	9	2.9	13.0	8.1	3.6
TURBIDITY	JTU	12	<1.0	4.0	1.4	1.2
TOTAL SUSPENDED SOLIDS	mg/l	12	<1	18	4	6
TOTAL DISSOLVED SOLIDS	mg/l	12	4	93	32	22
TOTAL SOLIDS	mg/l	12	6	103	36	25
CHLORIDE	mg/l	12	2.8	7.5	4.0	1.3

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER: WADING RIVER

OSWEGO RIVER AT OSWEGO LAKE OUTLET D2,3

STATION LOCATION: ANDREWS ROAD, WASHINGTON TWP AND BASS RIVER TWP BORDER, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE		
MONTH			7	3	4
DAY			9	13	15
YEAR			90	91	91
WEATHER	code	P00041		2	6
AIR TEMPERATURE	deg. C	---	30.0	1.0	8.5
WATER TEMPERATURE	deg. C	P00010	25.0	3.0	10.5
pH-LAB	pH	P00403	4.3	4.3	4.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	37.0	30.4	37.4
HARDNESS(exp)	mg/l	P00900			0.9
NO2+NO3-N	mg/l	P00630	<.04	<.04	<.04
NH3-N	mg/l	P00610	0.12	0.15	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.61	0.22	0.64
ORGANIC N	mg/l	P00605	0.49	0.08	0.64
TOTAL N	mg/l	P00600	0.61	0.22	0.64
TOTAL ORTHO P-PO4	mg/l	P00660	0.01		0.01
TOTAL P-PO4	mg/l	P00650	0.02	0.01	0.03
POLY PO4	mg/l	P00655	0.02	<.01	<.01
BOD 5-DAY	mg/l	P00310		<2.0	
BOD 7-DAY	mg/l	P00315	<2.0		<2.0
COD-LOW	mg/l	P00335	31.5	36.8	4.0
TOTAL CARBON	mg/l	P00690	11.5	6.8	6.1
TOT INORGANIC CARBON	mg/l	P00685	1.3	1.5	0.4
TOTAL ORGANIC CARBON	mg/l	P00680	10.2	5.4	5.7
TURBIDITY	JTU	P00076	4.0	<1.0	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	8	<1	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	30	50	26
TOTAL SOLIDS	mg/l	P00500	38	50	28
TOTAL CALCIUM(exp)	mg/l	P00916			0.6
TOTAL MAGNESIUM(exp)	mg/l	P00927			0.2
CHLORIDE	mg/l	P00940	4.1	2.9	3.5
FECAL COLIFORM	MF	P31613	50	<20	<20
TOTAL COLIFORM	MF	P31504	<200	200	<100
FECAL STREPT	MF	P31673	<100	<50	<50

MULLICA RIVER: WADING RIVER

OSWEGO RIVER AT OSWEGO LAKE OUTLET D2,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	14	3.0	4.5	3.6	(4.3)
SPECIFIC CONDUCTIVITY-LAB	umhos	14	28.4	66.0	41.9	10.4
HARDNESS(exp)	mg/l	1	0.9	0.9	0.9	
NO2+NO3-N	mg/l	14	<.04	<.04	<.04	
NH3-N	mg/l	14	<.10	0.38	0.11	0.12
TOTAL KJELDAHL-N	mg/l	13	0.22	1.05	0.55	0.22
ORGANIC N	mg/l	13	0.08	0.81	0.45	0.25
TOTAL N	mg/l	13	0.22	1.05	0.55	0.22
TOTAL ORTHO P-PO4	mg/l	13	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	14	<.01	0.03	0.02	0.01
POLY PO4	mg/l	14	<.01	0.02	<.01	0.01
BOD 5-DAY	mg/l	6	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	7	<2.0	2.2	<2.0	<2.0
COD-LOW	mg/l	13	<1.0	36.8	21.0	11.3
TOTAL CARBON	mg/l	11	3.3	11.5	7.4	2.4
TOT INORGANIC CARBON	mg/l	11	0.3	1.5	0.8	0.4
TOTAL ORGANIC CARBON	mg/l	11	3.0	10.2	6.5	2.2
TURBIDITY	JTU	14	<1.0	4.0	1.9	1.2
TOTAL SUSPENDED SOLIDS	mg/l	14	<1	12	4	4
TOTAL DISSOLVED SOLIDS	mg/l	14	22	99	38	20
TOTAL SOLIDS	mg/l	14	23	108	41	23
TOTAL CALCIUM(exp)	mg/l	1	0.6	0.6	0.6	
TOTAL MAGNESIUM(exp)	mg/l	1	0.2	0.2	0.2	
CHLORIDE	mg/l	14	2.8	7.5	4.2	1.1

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

OSWEGO RIVER AT HARRISVILLE LAKE OUTLET D3,1

STATION LOCATION: ROUTE 679, WASHINGTON TWP AND BASS RIVER TWP BORDER, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			7	4
DAY			23	15
YEAR			90	91
WEATHER	code	P00041	2	6
AIR TEMPERATURE	deg. C	---	30.0	9.5
WATER TEMPERATURE	deg. C	P00010	26.0	11.0
pH-LAB	pH	P00403	4.4	4.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	37.1	37.2
NO2+NO3-N	mg/l	P00630	<.04	<.04
NH3-N	mg/l	P00610	0.22	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.66	0.60
ORGANIC N	mg/l	P00605	0.44	0.60
TOTAL N	mg/l	P00600	0.66	0.60
TOTAL ORTHO P-PO4	mg/l	P00660	0.02	0.01
TOTAL P-PO4	mg/l	P00650	0.03	0.01
POLY PO4	mg/l	P00655	0.01	<.01
BOD 5-DAY	mg/l	P00310		<2.0
BOD 7-DAY	mg/l	P00315	<2.0	
COD-LOW	mg/l	P00335	25.5	<1.0
TOTAL CARBON	mg/l	P00690	7.4	4.8
TOT INORGANIC CARBON	mg/l	P00685	0.6	0.6
TOTAL ORGANIC CARBON	mg/l	P00680	6.7	4.2
TURBIDITY	JTU	P00076	6.2	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	12	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	23	25
TOTAL SOLIDS	mg/l	P00500	35	27
CHLORIDE	mg/l	P00940	3.7	3.3
FECAL COLIFORM	MF	P31613	<50	<20
TOTAL COLIFORM	MF	P31504	200	<100
FECAL STREPT	MF	P31673	<100	<50

MULLICA RIVER BASIN: WADING RIVER

OSWEGO RIVER AT HARRISVILLE LAKE OUTLET D3,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	3.1	4.5	3.8	(4.3)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	35.0	46.3	40.5	3.7
NO2+NO3-N	mg/l	11	<.04	0.07	<.04	<.04
NH3-N	mg/l	11	<.10	0.30	0.12	0.12
TOTAL KJELDAHL-N	mg/l	11	<.10	0.94	0.49	0.25
ORGANIC N	mg/l	11	<.10	0.72	0.36	0.23
TOTAL N	mg/l	11	<.04	0.94	0.50	0.26
TOTAL ORTHO P-PO4	mg/l	11	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	11	<.01	0.03	0.01	0.01
POLY PO4	mg/l	10	<.01	0.01	<.01	<.01
BOD 5-DAY	mg/l	5	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	4	<2.0	<2.0	<2.0	
COD-LOW	mg/l	11	<1.0	34.5	14.7	11.4
TOTAL CARBON	mg/l	9	2.1	9.8	6.0	2.5
TOT INORGANIC CARBON	mg/l	9	0.4	0.8	0.6	0.1
TOTAL ORGANIC CARBON	mg/l	9	1.7	9.1	5.4	2.4
TURBIDITY	JTU	11	<1.0	6.2	2.1	1.7
TOTAL SUSPENDED SOLIDS	mg/l	11	<1	12	4	4
TOTAL DISSOLVED SOLIDS	mg/l	11	16	51	30	10
TOTAL SOLIDS	mg/l	11	17	59	34	11
CHLORIDE	mg/l	11	3.3	4.9	3.9	0.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

TUB MILL BRANCH (TIDAL) D3,2

STATION LOCATION: ROUTE 679, BASS RIVER TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			7
DAY			23
YEAR			90
WEATHER	code	P00041	2
AIR TEMPERATURE	deg. C	---	30.0
WATER TEMPERATURE	deg. C	P00010	26.0
pH-LAB	pH	P00403	4.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	63.8
NO2+NO3-N	mg/l	P00630	0.05
NH3-N	mg/l	P00610	0.23
TOTAL KJELDAHL-N	mg/l	P00625	2.40
ORGANIC N	mg/l	P00605	2.17
TOTAL N	mg/l	P00600	2.45
TOTAL ORTHO P-PO4	mg/l	P00660	
TOTAL P-PO4	mg/l	P00650	0.13
POLY PO4	mg/l	P00655	
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	5.0
COD-HIGH	mg/l	P00340	176.0
COD-LOW	mg/l	P00335	
TOTAL CARBON	mg/l	P00690	75.8
TOT INORGANIC CARBON	mg/l	P00685	3.3
TOTAL ORGANIC CARBON	mg/l	P00680	72.5
TURBIDITY	JTU	P00076	12.2
TOTAL SUSPENDED SOLIDS	mg/l	P00530	11
TOTAL DISSOLVED SOLIDS	mg/l	P70300	150
TOTAL SOLIDS	mg/l	P00500	161
CHLORIDE	mg/l	P00940	10.2
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	200
FECAL STREPT	MF	P31673	1800

MULLICA RIVER BASIN: WADING RIVER

TUB MILL BRANCH D3,2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	2.9	4.3	3.4	(3.9)
SPECIFIC CONDUCTIVITY-LAB	umhos	11	42.0	200.0	83.8	51.8
NO2+NO3-N	mg/l	11	<.04	0.06	<.04	<.04
NH3-N	mg/l	11	<.10	0.36	0.15	0.13
TOTAL KJELDAHL-N	mg/l	11	<.10	2.40	0.80	0.68
ORGANIC N	mg/l	11	<.10	2.17	0.66	0.66
TOTAL N	mg/l	11	<.04	2.45	0.81	0.69
TOTAL ORTHO P-PO4	mg/l	8	<.01	0.03	0.01	0.01
TOTAL P-PO4	mg/l	11	<.01	0.13	0.03	0.03
POLY PO4	mg/l	8	<.01	0.01	<.01	<.01
BOD 5-DAY	mg/l	5	<2.0	3.5	<2.0	<2.0
BOD 7-DAY	mg/l	5	<2.0	5.0	2.6	<2.0
COD-HIGH	mg/l	1	176.0	176.0	176.0	
COD-LOW	mg/l	9	9.0	130.0	55.0	38.8
TOTAL CARBON	mg/l	8	5.8	75.8	32.1	25.2
TOT INORGANIC CARBON	mg/l	8	0.8	3.3	1.8	0.8
TOTAL ORGANIC CARBON	mg/l	8	4.2	72.5	30.3	24.9
TURBIDITY	JTU	11	1.0	12.2	3.0	3.6
TOTAL SUSPENDED SOLIDS	mg/l	11	<1	38	8	11
TOTAL DISSOLVED SOLIDS	mg/l	11	28	150	76	44
TOTAL SOLIDS	mg/l	11	29	161	84	43
CHLORIDE	mg/l	11	4.0	10.2	6.5	2.1

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

WADING RIVER (TIDAL) D3,4

STATION LOCATION: ROUTE 542 AND LEEKTOWN ROAD, WASHINGTON TWP AND BASS RIVER TWP BORDER, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			7
DAY			23
YEAR			90
WEATHER	code	P00041	2
AIR TEMPERATURE	deg. C	---	30.0
WATER TEMPERATURE	deg. C	P00010	27.0
pH-LAB	pH	P00403	5.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	1952.1
ALKALINITY AS CaCO3	mg/l	P00410	<0.5
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.54
ORGANIC N	mg/l	P00605	0.54
TOTAL N	mg/l	P00600	0.54
TOTAL ORTHO P-PO4	mg/l	P00660	0.03
TOTAL P-PO4	mg/l	P00650	0.05
POLY PO4	mg/l	P00655	0.02
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	38.2
TOTAL CARBON	mg/l	P00690	11.6
TOT INORGANIC CARBON	mg/l	P00685	1.7
TOTAL ORGANIC CARBON	mg/l	P00680	10.0
TURBIDITY	JTU	P00076	10.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	8
TOTAL DISSOLVED SOLIDS	mg/l	P70300	1026
TOTAL SOLIDS	mg/l	P00500	1034
CHLORIDE	mg/l	P00940	537.8
FECAL COLIFORM	MF	P31613	150
TOTAL COLIFORM	MF	P31504	2600
FECAL STREPT	MF	P31673	200

MULLICA RIVER BASIN: WADING RIVER

WADING RIVER D3,4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	3.2	6.2	4.1	(4.9)
SPECIFIC CONDUCTIVITY-LAB	umhos	11	43.0	1952.1	378.2	552.2
ALKALINITY AS CaCO ₃	mg/l	6	<0.5	8.3	1.6	3.3
NO ₂ +NO ₃ -N	mg/l	11	<.04	0.05	<.04	<.04
NH ₃ -N	mg/l	11	<.10	0.35	<.10	0.12
TOTAL KJELDAHL-N	mg/l	11	<.10	1.20	0.50	0.31
ORGANIC N	mg/l	11	<.10	0.98	0.40	0.29
TOTAL N	mg/l	11	<.10	1.20	0.50	0.31
TOTAL ORTHO P-PO ₄	mg/l	11	<.01	0.03	0.02	0.01
TOTAL P-PO ₄	mg/l	11	0.01	0.06	0.03	0.01
POLY PO ₄	mg/l	10	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	5	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	5	<2.0	5.7	<2.0	2.5
COD-LOW	mg/l	11	10.0	47.0	25.8	11.7
TOTAL CARBON	mg/l	8	3.9	17.3	10.0	4.6
TOT INORGANIC CARBON	mg/l	8	0.4	3.0	1.2	0.8
TOTAL ORGANIC CARBON	mg/l	8	3.2	15.9	8.7	4.1
TURBIDITY	JTU	11	1.6	12.0	6.4	3.0
TOTAL SUSPENDED SOLIDS	mg/l	11	3	26	11	8
TOTAL DISSOLVED SOLIDS	mg/l	11	21	1026	215	286
TOTAL SOLIDS	mg/l	11	24	1034	226	286
CHLORIDE	mg/l	11	4.8	537.8	145.8	192.8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

IVES BRANCH (TIDAL) D3,5

STATION LOCATION: ROUTE 542, BASS RIVER TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			7
DAY			23
YEAR			90
WEATHER	code	P00041	2
AIR TEMPERATURE	deg. C	---	30.0
WATER TEMPERATURE	deg. C	P00010	27.0
pH-LAB	pH	P00403	5.9
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	3888.3
ALKALINITY AS CaCO3	mg/l	P00410	3.6
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.60
ORGANIC N	mg/l	P00605	0.60
TOTAL N	mg/l	P00600	0.60
TOTAL ORTHO P-PO4	mg/l	P00660	0.04
TOTAL P-PO4	mg/l	P00650	0.07
POLY PO4	mg/l	P00655	0.04
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	40.5
TOTAL CARBON	mg/l	P00690	12.7
TOT INORGANIC CARBON	mg/l	P00685	2.6
TOTAL ORGANIC CARBON	mg/l	P00680	10.1
TURBIDITY	JTU	P00076	11.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	10
TOTAL DISSOLVED SOLIDS	mg/l	P70300	209
TOTAL SOLIDS	mg/l	P00500	219
CHLORIDE	mg/l	P00940	1085.7
FECAL COLIFORM	MF	P31613	600
TOTAL COLIFORM	MF	P31504	4400
FECAL STREPT	MF	P31673	1100

MULLICA RIVER BASIN: WADING RIVER

IVES BRANCH D3,5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	3.0	5.9	3.8	(4.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	41.3	3888.3	556.0	1196.7
ALKALINITY AS CaCO3	mg/l	2	3.6	6.4	5.0	2.0
NO2+NO3-N	mg/l	10	<.04	0.06	<.04	<.04
NH3-N	mg/l	10	<.10	0.32	0.12	0.11
TOTAL KJELDAHL-N	mg/l	9	0.42	0.96	0.59	0.17
ORGANIC N	mg/l	9	0.25	0.73	0.48	0.16
TOTAL N	mg/l	9	0.42	0.96	0.60	0.17
TOTAL ORTHO P-PO4	mg/l	10	<.01	0.04	0.01	0.02
TOTAL P-PO4	mg/l	10	0.01	0.07	0.03	0.02
POLY PO4	mg/l	9	<.01	0.04	0.01	0.01
BOD 5-DAY	mg/l	4	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	5	<2.0	3.3	<2.0	<2.0
COD-LOW	mg/l	10	12.0	55.0	35.3	14.1
TOTAL CARBON	mg/l	8	6.7	23.3	13.9	6.0
TOT INORGANIC CARBON	mg/l	8	0.9	2.6	1.4	0.5
TOTAL ORGANIC CARBON	mg/l	8	5.8	21.8	12.5	5.8
TURBIDITY	JTU	10	1.0	14.0	4.0	4.6
TOTAL SUSPENDED SOLIDS	mg/l	10	1	23	7	7
TOTAL DISSOLVED SOLIDS	mg/l	10	42	497	125	140
TOTAL SOLIDS	mg/l	10	51	520	133	146
CHLORIDE	mg/l	10	5.2	1085.7	151.6	338.7

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: WADING RIVER

MERRYGOLD BRANCH (TIDAL) D3,6

STATION LOCATION: ROUTE 542, BASS RIVER TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			7
DAY			23
YEAR			90
WEATHER	code	P00041	2
AIR TEMPERATURE	deg. C	---	30.0
WATER TEMPERATURE	deg. C	P00010	28.0
pH-LAB	pH	P00403	6.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	6879
ALKALINITY AS CaCO3	mg/l	P00410	9.2
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.70
ORGANIC N	mg/l	P00605	0.70
TOTAL N	mg/l	P00600	0.70
TOTAL ORTHO P-PO4	mg/l	P00660	0.04
TOTAL P-PO4	mg/l	P00650	0.06
POLY PO4	mg/l	P00655	0.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	44.5
TOTAL CARBON	mg/l	P00690	13.7
TOT INORGANIC CARBON	mg/l	P00685	1.7
TOTAL ORGANIC CARBON	mg/l	P00680	11.9
TURBIDITY	JTU	P00076	9.1
TOTAL SUSPENDED SOLIDS	mg/l	P00530	11
TOTAL DISSOLVED SOLIDS	mg/l	P70300	3739
TOTAL SOLIDS	mg/l	P00500	3750
CHLORIDE	mg/l	P00940	1939.4
FECAL COLIFORM	MF	P31613	350
TOTAL COLIFORM	MF	P31504	4600
FECAL STREPT	MF	P31673	900

MULLICA RIVER BASIN: WADING RIVER

MERRYGOLD BRANCH D3,6

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	4.3	6.8	5.2	(5.9)
SPECIFIC CONDUCTIVITY-LAB	umhos	11	68	296000	29752	88354
ALKALINITY AS CaCO3	mg/l	10	1.5	22.5	8.5	6.5
NO2+NO3-N	mg/l	11	<.04	0.06	<.04	<.04
NH3-N	mg/l	11	<.10	0.20	<.10	<.10
TOTAL KJELDAHL-N	mg/l	10	0.50	1.30	0.79	0.29
ORGANIC N	mg/l	10	0.50	1.30	0.74	0.27
TOTAL N	mg/l	10	0.50	1.30	0.80	0.29
TOTAL ORTHO P-PO4	mg/l	10	<.01	0.08	0.02	0.02
TOTAL P-PO4	mg/l	10	<.01	0.09	0.04	0.03
POLY PO4	mg/l	9	<.01	0.03	0.01	0.01
BOD 5-DAY	mg/l	4	<2.0	2.5	<2.0	<2.0
BOD 7-DAY	mg/l	6	<2.0	6.9	<2.0	2.8
COD-LOW	mg/l	11	<1.0	93.0	46.9	30.4
TOTAL CARBON	mg/l	8	7.7	41.2	22.1	12.8
TOT INORGANIC CARBON	mg/l	8	1.1	4.4	2.9	1.1
TOTAL ORGANIC CARBON	mg/l	8	5.4	37.7	19.2	12.6
TURBIDITY	JTU	11	2.5	10.0	5.7	2.5
TOTAL SUSPENDED SOLIDS	mg/l	11	5	30	12	7
TOTAL DISSOLVED SOLIDS	mg/l	11	76	5891	1810	1920
TOTAL SOLIDS	mg/l	11	83	5921	1822	1924
CHLORIDE	mg/l	11	12.8	1939.4	853.0	737.8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BASS RIVER

EAST BRANCH BASS RIVER D9,1

STATION LOCATION: STAGE ROAD, BASS RIVER TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
			1	4
MONTH			1	4
DAY			16	17
YEAR			91	91
WEATHER	code	P00041	6	1
AIR TEMPERATURE	deg. C	---	6.0	13.0
WATER TEMPERATURE	deg. C	P00010	6.0	12.5
pH-LAB	pH	P00403	4.4	4.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	54.4	43.0
HARDNESS(exp)	mg/l	P00900		1.2
NO2+NO3-N	mg/l	P00630	0.10	<.04
NH3-N	mg/l	P00610	0.14	0.14
TOTAL KJELDAHL-N	mg/l	P00625	0.58	0.54
ORGANIC N	mg/l	P00605	0.44	0.41
TOTAL N	mg/l	P00600	0.68	0.54
TOTAL ORTHO P-PO4	mg/l	P00660	0.01	
TOTAL P-PO4	mg/l	P00650	0.02	<.01
POLY PO4	mg/l	P00655	<.01	<.01
BOD 5-DAY	mg/l	P00310		<2.0
BOD 6-DAY	mg/l	P00310	2.1	
BOD 7-DAY	mg/l	P00315		
COD-LOW	mg/l	P00335	17.5	14.0
TOTAL CARBON	mg/l	P00690	7.7	6.8
TOT INORGANIC CARBON	mg/l	P00685	1.6	1.4
TOTAL ORGANIC CARBON	mg/l	P00680	6.1	5.4
TURBIDITY	JTU	P00076	1.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	<1	3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	32	20
TOTAL SOLIDS	mg/l	P00500	32	23
TOTAL CALCIUM(exp)	mg/l	P00916		0.8
TOTAL MAGNESIUM(exp)	mg/l	P00927		0.4
CHLORIDE	mg/l	P00940	7.8	4.9
FECAL COLIFORM	MF	P31613	<50	<20
TOTAL COLIFORM	MF	P31504	200	200
FECAL STREPT	MF	P31673	<100	<50

MULLICA RIVER BASIN: BASS RIVER

EAST BRANCH BASS RIVER D9,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	3.4	5.5	4.1	(4.5)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	28.5	160.0	51.7	38.9
HARDNESS(exp)	mg/l	1	1.2	1.2	1.2	
NO2+NO3-N	mg/l	10	<.04	0.10	<.04	<.04
NH3-N	mg/l	10	<.10	0.24	0.11	<.10
TOTAL KJELDAHL-N	mg/l	9	<.10	0.60	0.39	0.20
ORGANIC N	mg/l	9	<.10	0.44	0.26	0.17
TOTAL N	mg/l	9	<.04	0.68	0.41	0.21
TOTAL ORTHO P-PO4	mg/l	9	<.01	0.01	0.01	0.01
TOTAL P-PO4	mg/l	9	<.01	0.04	0.01	0.01
POLY PO4	mg/l	9	<.01	0.03	0.01	0.01
BOD 5-DAY	mg/l	3	<2.0	<2.0	<2.0	
BOD 6-DAY	mg/l	1	2.1	2.1	2.1	
BOD 7-DAY	mg/l	6	<2.0	2.4	<2.0	<2.0
COD-LOW	mg/l	10	<1.0	29.5	11.5	8.3
TOTAL CARBON	mg/l	8	4.2	7.7	5.8	1.3
TOT INORGANIC CARBON	mg/l	8	0.4	1.7	1.1	0.5
TOTAL ORGANIC CARBON	mg/l	8	3.2	7.0	4.6	1.4
TURBIDITY	JTU	10	<1.0	1.7	<1.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	10	<1	19	3	6
TOTAL DISSOLVED SOLIDS	mg/l	10	4	72	30	18
TOTAL SOLIDS	mg/l	10	18	73	33	16
TOTAL CALCIUM(exp)	mg/l	1	0.8	0.8	0.8	
TOTAL MAGNESIUM(exp)	mg/l	1	0.4	0.4	0.4	
CHLORIDE	mg/l	10	3.8	7.8	5.3	1.3

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BASS RIVER

WEST BRANCH BASS RIVER D9,2

STATION LOCATION: STAGE ROAD, BASS RIVER TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE		
MONTH			8	1	4
DAY			20	16	17
YEAR			90	91	91
WEATHER	code	P00041	6	6	1
AIR TEMPERATURE	deg. C	---	19.0	6.0	11.5
WATER TEMPERATURE	deg. C	P00010	23.0	6.0	14.0
pH-LAB	pH	P00403	4.0	4.4	4.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	34.5	51.2	33.5
HARDNESS(exp)	mg/l	P00900			1.4
NO2+NO3-N	mg/l	P00630	<.04	0.09	<.04
NH3-N	mg/l	P00610	<.10	0.15	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.58	0.62	0.66
ORGANIC N	mg/l	P00605	0.58	0.47	0.66
TOTAL N	mg/l	P00600	0.58	0.71	0.66
TOTAL ORTHO P-PO4	mg/l	P00660	0.02	0.02	0.01
TOTAL P-PO4	mg/l	P00650	0.01	0.02	<.01
POLY PO4	mg/l	P00655	<.01	0.01	<.01
BOD 5-DAY	mg/l	P00310			<2.0
BOD 6-DAY	mg/l	P00310		2.0	
BOD 7-DAY	mg/l	P00315			
COD-LOW	mg/l	P00335	20.5	20.5	18.0
TOTAL CARBON	mg/l	P00690	8.7	11.3	8.3
TOT INORGANIC CARBON	mg/l	P00685	1.5		0.8
TOTAL ORGANIC CARBON	mg/l	P00680	7.3		7.5
TURBIDITY	JTU	P00076	<1.0	3.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	<1	3	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	46	37	57
TOTAL SOLIDS	mg/l	P00500	46	40	59
TOTAL CALCIUM(exp)	mg/l	P00916			1.0
TOTAL MAGNESIUM(exp)	mg/l	P00927			0.5
CHLORIDE	mg/l	P00940	4.3	6.6	3.5
FECAL COLIFORM	MF	P31613	150	<50	<20
TOTAL COLIFORM	MF	P31504	1200	<200	600
FECAL STREPT	MF	P31673	300	<100	<50

MULLICA RIVER BASIN: BASS RIVER

WEST BRANCH BASS RIVER D9,2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	3.2	4.8	4.0	(4.4)
SPECIFIC CONDUCTIVITY-LAB*	umhos	10	33.0	70.0	44.7	12.4
HARDNESS(exp)	mg/l	1	1.4	1.4	1.4	
NO2+NO3-N	mg/l	11	<.04	0.09	<.04	<.04
NH3-N	mg/l	11	<.10	0.28	<.10	0.10
TOTAL KJELDAHL-N	mg/l	10	0.18	0.78	0.51	0.20
ORGANIC N	mg/l	10	0.18	0.66	0.42	0.17
TOTAL N	mg/l	10	0.18	0.78	0.52	0.21
TOTAL ORTHO P-PO4	mg/l	11	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	10	<.01	0.05	0.01	0.02
POLY PO4	mg/l	10	<.01	0.03	<.01	0.01
BOD 5-DAY	mg/l	3	<2.0	<2.0	<2.0	
BOD 6-DAY	mg/l	1	2.0	2.0	2.0	
BOD 7-DAY	mg/l	6	<2.0	<2.0	<2.0	
COD-LOW	mg/l	11	<1.0	35.5	16.5	10.9
TOTAL CARBON	mg/l	9	3.6	11.3	6.5	2.6
TOT INORGANIC CARBON	mg/l	8	0.7	1.6	1.2	0.3
TOTAL ORGANIC CARBON	mg/l	8	2.4	7.5	4.7	2.1
TURBIDITY	JTU	11	<1.0	3.0	1.2	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	11	<1	85	10	25
TOTAL DISSOLVED SOLIDS	mg/l	11	3	100	41	27
TOTAL SOLIDS	mg/l	11	19	124	52	35
TOTAL CALCIUM(exp)	mg/l	1	1.0	1.0	1.0	
TOTAL MAGNESIUM(exp)	mg/l	1	0.5	0.5	0.5	
CHLORIDE	mg/l	11	3.5	9.0	5.4	1.6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BASS RIVER

BASS RIVER (TIDAL) D9,3

STATION LOCATION: ROUTE 9, BASS RIVER TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			20
YEAR			90
WEATHER	code	P00041	6
AIR TEMPERATURE	deg. C	---	19.0
WATER TEMPERATURE	deg. C	P00010	24.0
pH-LAB	pH	P00403	6.0
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	14306
ALKALINITY AS CaCO3	mg/l	P00410	39.9
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.80
ORGANIC N	mg/l	P00605	0.80
TOTAL N	mg/l	P00600	0.80
TOTAL ORTHO P-PO4	mg/l	P00660	0.05
TOTAL P-PO4	mg/l	P00650	0.05
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
BOD 9-DAY	mg/l	P00315	
COD-HIGH	mg/l	P00340	
COD-LOW	mg/l	P00335	50.5
TOTAL CARBON	mg/l	P00690	18.3
TOT INORGANIC CARBON	mg/l	P00685	1.0
TOTAL ORGANIC CARBON	mg/l	P00680	17.3
TURBIDITY	JTU	P00076	5.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	12
TOTAL DISSOLVED SOLIDS	mg/l	P70300	1907
TOTAL SOLIDS	mg/l	P00500	1919
CHLORIDE	mg/l	P00940	4122.7
FECAL COLIFORM	MF	P31613	350
TOTAL COLIFORM	MF	P31504	9400
FECAL STREPT	MF	P31673	2000

MULLICA RIVER BASIN: BASS RIVER

BASS RIVER D9,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	8	6.0	7.1	6.4	(6.6)
SPECIFIC CONDUCTIVITY-LAB	umhos	8	127.9	28726.0	11989.3	8256.3
ALKALINITY AS CaCO ₃	mg/l	8	3.3	65.1	31.7	19.0
NO ₂ +NO ₃ -N	mg/l	8	<.04	0.23	0.04	0.08
NH ₃ -N	mg/l	8	<.10	0.25	0.12	0.11
TOTAL KJELDAHL-N	mg/l	7	0.42	1.10	0.73	0.24
ORGANIC N	mg/l	7	0.23	1.10	0.61	0.28
TOTAL N	mg/l	7	0.42	1.33	0.76	0.31
TOTAL ORTHO P-PO ₄	mg/l	7	<.01	0.05	0.02	0.01
TOTAL P-PO ₄	mg/l	7	0.01	0.05	0.03	0.02
POLY PO ₄	mg/l	7	<.01	0.04	0.01	0.01
BOD 5-DAY	mg/l	3	<2.0	2.3	<2.0	<2.0
BOD 7-DAY	mg/l	4	<2.0	2.0	<2.0	<2.0
BOD 9-DAY	mg/l	1	2.2	2.2	2.2	
COD-HIGH	mg/l	1	914.0	914.0	914.0	
COD-LOW	mg/l	6	32.0	56.5	43.3	9.2
TOTAL CARBON	mg/l	6	11.9	20.7	15.4	3.4
TOT INORGANIC CARBON	mg/l	6	1.0	14.8	4.7	5.5
TOTAL ORGANIC CARBON	mg/l	6	6.0	17.3	10.7	4.1
TURBIDITY	JTU	8	3.0	6.0	4.1	1.2
TOTAL SUSPENDED SOLIDS	mg/l	8	6	42	18	12
TOTAL DISSOLVED SOLIDS	mg/l	8	718	19413	6886	6044
TOTAL SOLIDS	mg/l	8	726	19444	6904	6053
CHLORIDE	mg/l	8	2480.2	11619.0	4256.7	3058.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BASS RIVER

JOBS CREEK (TIDAL) D9,4

STATION LOCATION: ROUTE 9, BASS RIVER TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			20
YEAR			90
WEATHER	code	P00041	6
AIR TEMPERATURE	deg. C	---	19.0
WATER TEMPERATURE	deg. C	P00010	24.0
pH-LAB	pH	P00403	6.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	21116
ALKALINITY AS CaCO3	mg/l	P00410	56.7
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.74
ORGANIC N	mg/l	P00605	0.74
TOTAL N	mg/l	P00600	0.74
TOTAL ORTHO P-PO4	mg/l	P00660	0.06
TOTAL P-PO4	mg/l	P00650	0.06
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
BOD 9-DAY	mg/l	P00315	
COD-HIGH	mg/l	P00340	
COD-LOW	mg/l	P00335	126.0
TOTAL CARBON	mg/l	P00690	18.8
TOT INORGANIC CARBON	mg/l	P00685	1.3
TOTAL ORGANIC CARBON	mg/l	P00680	17.5
TURBIDITY	JTU	P00076	4.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	21
TOTAL DISSOLVED SOLIDS	mg/l	P70300	12698
TOTAL SOLIDS	mg/l	P00500	12719
CHLORIDE	mg/l	P00940	6472.0
FECAL COLIFORM	MF	P31613	150
TOTAL COLIFORM	MF	P31504	6600
FECAL STREPT	MF	P31673	2100

MULLICA RIVER BASIN: BASS RIVER

JOBS CREEK D9,4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	8	5.9	7.7	6.4	(6.5)
SPECIFIC CONDUCTIVITY-LAB	umhos	8	1062.0	24282.0	10360.7	9207.9
ALKALINITY AS CaCO ₃	mg/l	8	5.0	58.9	31.4	20.6
NO ₂ +NO ₃ -N	mg/l	8	<.04	0.05	<.04	<.04
NH ₃ -N	mg/l	8	<.10	0.27	0.10	0.11
TOTAL KJELDAHL-N	mg/l	7	0.33	2.00	0.91	0.56
ORGANIC N	mg/l	7	0.23	1.73	0.80	0.52
TOTAL N	mg/l	7	0.33	2.00	0.92	0.57
TOTAL ORTHO P-PO ₄	mg/l	7	<.01	0.06	0.02	0.02
TOTAL P-PO ₄	mg/l	7	<.01	0.06	0.03	0.02
POLY PO ₄	mg/l	7	<.01	0.01	<.01	<.01
BOD 5-DAY	mg/l	3	<2.0	4.6	<2.0	2.7
BOD 7-DAY	mg/l	4	<2.0	2.0	<2.0	<2.0
BOD 9-DAY	mg/l	1	3.0	3.0	3.0	
COD-HIGH	mg/l	1	743.0	743.0	743.0	
COD-LOW	mg/l	6	28.0	126.0	53.5	37.1
TOTAL CARBON	mg/l	6	15.7	21.0	18.3	1.9
TOT INORGANIC CARBON	mg/l	6	1.3	13.9	6.9	5.1
TOTAL ORGANIC CARBON	mg/l	6	4.4	17.5	11.4	5.3
TURBIDITY	JTU	8	2.0	6.0	3.6	1.2
TOTAL SUSPENDED SOLIDS	mg/l	8	5	36	17	10
TOTAL DISSOLVED SOLIDS	mg/l	8	272	12698	5177	4667
TOTAL SOLIDS	mg/l	8	282	12719	5193	4674
CHLORIDE	mg/l	8	304.9	9441.1	3493.4	3058.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

BURLINGTON COUNTY

MULLICA RIVER BASIN

BATSTO RIVER

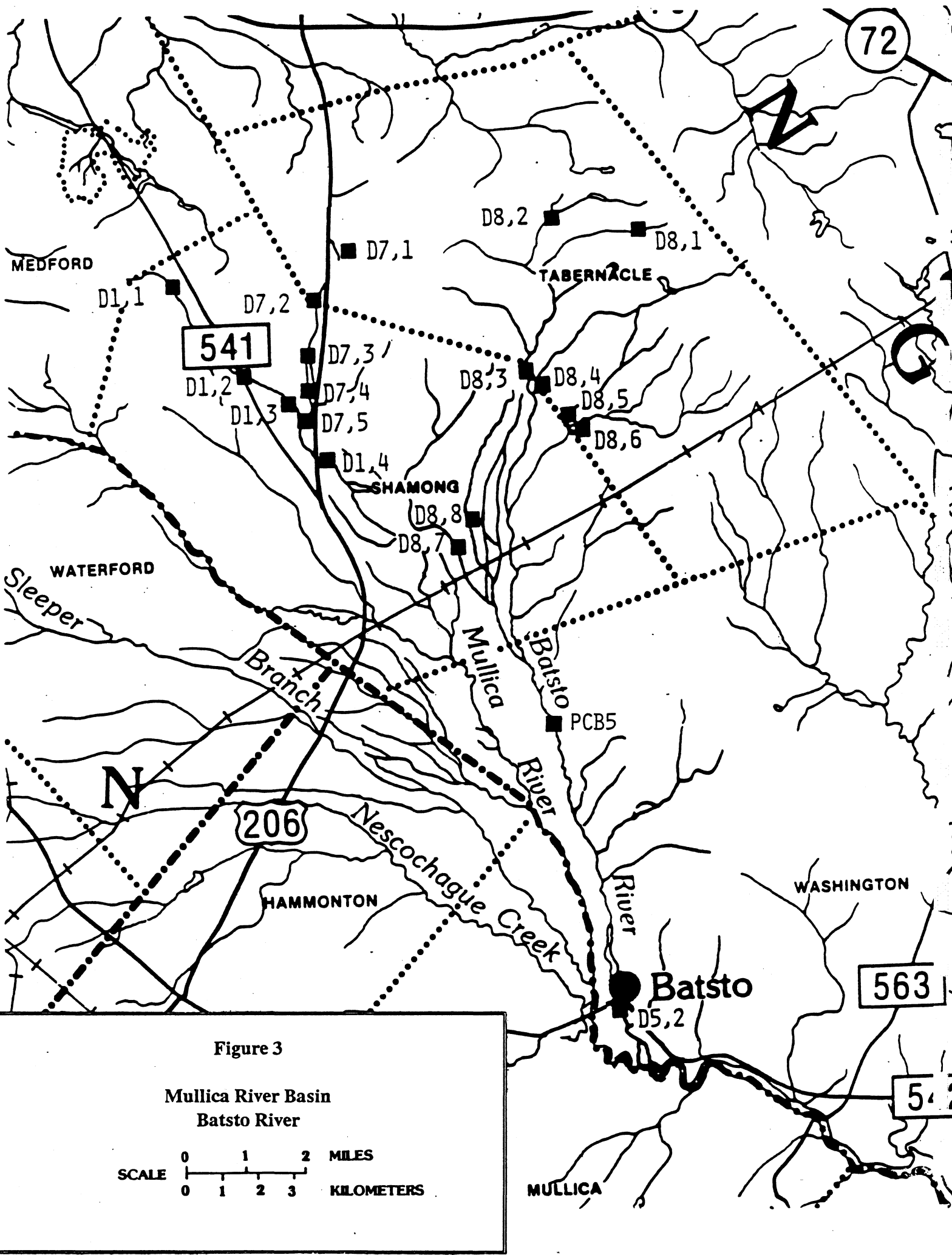
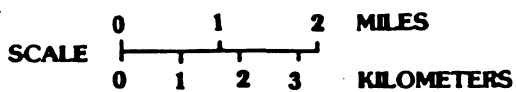


Figure 3

Mullica River Basin
Batsto River



MULLICA

Table 11. Mullica River Basin (Batsto River), Burlington County, station names and locations

STATION NAME	STATION CODE	STATION LOCATION	CO(1)	TWP(2)	QUAD(3)
BATSTO RIVER					
BATSTO HEADWATER TRIBUTARY	D8,2	RT 532	BU	TA	15
BATSTO HEADWATER TRIBUTARY (4)	D8,1	RT 532	BU	TA	15
BATSTO RIVER	D8,3	CARRANZA ROAD AT HAMPTON GATE	BU	TA-SH	15
UNNAMED TRIBUTARY, NEAR MOORES MEADOW	D8,4	CARRANZA ROAD	BU	TA-SH	15
SKIT BRANCH	D8,6	CARRANZA ROAD	BU	TA-SH	15
TOM ROBERTS BRANCH	D8,5	CARRANZA ROAD	BU	TA-SH	15
DEEP RUN (4)	D8,8	HAMPTON FURNACE RD	BU	SH	15
INDIAN MILLS BROOK	D1,1	GRASSY LAKE ROAD	BU	SH	14
INDIAN MILLS BROOK	D1,2	STOKES ROAD	BU	SH	14
INDIAN MILLS BROOK	D1,3	RED LION-INDIAN MILLS RD (RT 534)	BU	SH	15
MUSKINGUM BROOK	D7,1	RED LION-INDIAN MILLS RD (RT 648)	BU	TA	15
MUSKINGUM BROOK	D7,2	TUCKERTON RD (RT 620)	BU	TA-SH	15
MUSKINGUM BROOK	D7,3	INDIAN MILLS LAKE INLET	BU	SH	15
MUSKINGUM BROOK	D7,4	INDIAN MILLS LAKE OUTLET (RT 620)	BU	SH	15
MUSKINGUM BROOK (4)	D7,5	FORKED NECK ROAD <i>above</i>	BU	SH	15
SPRINGERS BROOK	D1,4	RT 206 <i>below</i>	BU	SH	15
SPRINGERS BROOK	D8,7	HAMPTON FURNACE RD	BU	SH	15
BATSTO RIVER	PCB5	QUAKER BRIDGE	BU	WA	24
BATSTO RIVER	D5,2	RT 542, BATSTO VILLAGE	BU	WA	24

(1) Refer to Table 23 for county abbreviations.

(2) Refer to Table 22 for township abbreviations.

(3) Refer to Table 24 for quadrangle numbers.

(4) Site not sampled for this report, see New Jersey Surface Water Quality Data Report, December 1990.

MULLICA RIVER BASIN: BATSTO RIVER

BATSTO HEADWATER TRIBUTARY D8,2

STATION LOCATION: ROUTE 532, TABERNACLE TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			9
DAY			19
YEAR			90
WEATHER	code	P00041	1
AIR TEMPERATURE	deg. C	---	20.0
WATER TEMPERATURE	deg. C	P00010	14.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	
pH-LAB	pH	P00403	4.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	42.4
ALKALINITY AS CaCO3	mg/l	P00410	
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	0.15
TOTAL KJELDAHL-N	mg/l	P00625	1.80
ORGANIC N	mg/l	P00605	1.65
TOTAL N	mg/l	P00600	1.80
TOTAL ORTHO P-PO4	mg/l	P00660	
TOTAL P-PO4	mg/l	P00650	0.04
POLY PO4	mg/l	P00655	
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	37.5
TOTAL CARBON	mg/l	P00690	19.4
TOT INORGANIC CARBON	mg/l	P00685	3.1
TOTAL ORGANIC CARBON	mg/l	P00680	16.3
TURBIDITY	JTU	P00076	11.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	20
TOTAL DISSOLVED SOLIDS	mg/l	P70300	32
TOTAL SOLIDS	mg/l	P00500	52
CHLORIDE	mg/l	P00940	7.2
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	1400
FECAL STREPT	MF	P31673	100

MULLICA RIVER BASIN: BATSTO RIVER

BATSTO HEADWATER TRIBUTARY D8,2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	1	3.0	3.0	3.0	
pH-LAB	pH	10	3.1	7.0	3.8	(4.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	37.2	260.0	95.3	81.5
ALKALINITY AS CaCO ₃	mg/l	2	4.1	45.0	24.6	28.9
NO ₂ +NO ₃ -N	mg/l	10	<.04	0.22	<.04	0.07
NH ₃ -N	mg/l	9	<.10	0.33	0.15	0.12
TOTAL KJELDAHL-N	mg/l	9	0.60	2.30	1.21	0.54
ORGANIC N	mg/l	8	0.60	2.08	1.06	0.54
TOTAL N	mg/l	9	0.60	2.30	1.24	0.55
TOTAL ORTHO P-PO ₄	mg/l	9	<.01	0.30	0.05	0.10
TOTAL P-PO ₄	mg/l	10	0.02	0.37	0.08	0.10
POLY PO ₄	mg/l	9	<.01	0.06	0.01	0.02
BOD 5-DAY	mg/l	5	<2.0	4.1	<2.0	<2.0
BOD 7-DAY	mg/l	5	<2.0	6.8	2.3	2.8
COD-LOW	mg/l	10	18.5	67.0	42.2	13.7
TOTAL CARBON	mg/l	7	9.6	33.2	21.9	7.3
TOT INORGANIC CARBON	mg/l	7	1.4	8.3	3.8	2.4
TOTAL ORGANIC CARBON	mg/l	7	8.2	30.2	18.1	6.5
TURBIDITY	JTU	10	1.2	93.0	20.1	27.5
TOTAL SUSPENDED SOLIDS	mg/l	10	6	124	40	39
TOTAL DISSOLVED SOLIDS	mg/l	10	30	182	70	55
TOTAL SOLIDS	mg/l	10	36	224	110	78
CHLORIDE	mg/l	10	2.8	73.5	15.3	21.9

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

BATSTO RIVER D8,3

STATION LOCATION: CARRANZA ROAD AT HAMPTON GATE, TABERNACLE TWP AND SHAMONG TWP BORDER, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	12	4	4
MONTH			9	12	4	4
DAY			19	3	1	22
YEAR			90	90	91	91
WEATHER	code	P00041	1	2	1	6
AIR TEMPERATURE	deg. C	---	15.0	7.0	5.0	
WATER TEMPERATURE	deg. C	P00010	13.0	10.0	5.0	
pH-LAB	pH	P00403	6.3	5.8	5.2	6.8
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	41.4	42.2	62.4	40.2
ALKALINITY AS CaCO3	mg/l	P00410	2.8	0.7	<0.5	3.2
HARDNESS(exp)	mg/l	P00900				3.2
NO2+NO3-N	mg/l	P00630	0.42	0.53	0.64	<.04
NH3-N	mg/l	P00610	0.37	0.23	0.20	<.10
TOTAL KjELDAHL-N	mg/l	P00625	2.20	0.40	0.60	1.10
ORGANIC N	mg/l	P00605	1.84	0.17	0.40	1.10
TOTAL N	mg/l	P00600	2.62	0.93	1.24	1.10
TOTAL ORTHO P-PO4	mg/l	P00660	0.02	0.02	0.01	
TOTAL P-PO4	mg/l	P00650	0.05	0.02	0.01	0.02
POLY PO4	mg/l	P00655	0.03	<.01	<.01	0.01
BOD 5-DAY	mg/l	P00310	<2.0			
BOD 7-DAY	mg/l	P00315		<2.0	<2.0	<2.0
COD-LOW	mg/l	P00335	23.0	6.0	6.5	23.5
TOTAL CARBON	mg/l	P00690	13.5	5.8	8.2	12.2
TOT INORGANIC CARBON	mg/l	P00685	2.6	2.4	1.5	2.1
TOTAL ORGANIC CARBON	mg/l	P00680	10.9	3.4	6.6	10.1
TURBIDITY	JTU	P00076	10.0	1.0	1.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	6	2	1	<1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	43	36	46	48
TOTAL SOLIDS	mg/l	P00500	49	38	47	48
TOTAL CALCIUM(exp)	mg/l	P00916				2.4
TOTAL MAGNESIUM(exp)	mg/l	P00927				0.8
CHLORIDE	mg/l	P00940	5.3	4.5	5.2	4.3
FECAL COLIFORM	MF	P31613	<50	<20	<20	180
TOTAL COLIFORM	MF	P31504	400	200	200	600
FECAL STREPT	MF	P31673	500	<50	50	200

MULLICA RIVER BASIN: BATSTO RIVER

BATSTO RIVER D8,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	14	3.6	6.8	4.2	(4.9)
SPECIFIC CONDUCTIVITY-LAB	umhos	14	33.4	76.0	49.7	10.4
ALKALINITY AS CaCO ₃	mg/l	7	<0.5	3.2	1.4	1.3
HARDNESS(exp)	mg/l	1	3.2	3.2	3.2	
NO ₂ +NO ₃ -N	mg/l	14	<.04	0.64	0.33	0.24
NH ₃ -N	mg/l	12	<.10	0.37	0.12	0.11
TOTAL KJELDAHL-N	mg/l	14	<.10	2.20	0.67	0.51
ORGANIC N	mg/l	12	0.17	1.84	0.59	0.46
TOTAL N	mg/l	14	<.04	2.62	1.00	0.60
TOTAL ORTHO P-PO ₄	mg/l	13	<.01	0.28	0.03	0.08
TOTAL P-PO ₄	mg/l	14	<.01	0.53	0.06	0.14
POLY PO ₄	mg/l	14	<.01	0.03	<.01	0.01
BOD 5-DAY	mg/l	5	<2.0	2.1	<2.0	<2.0
BOD 7-DAY	mg/l	9	<2.0	<2.0	<2.0	
COD-LOW	mg/l	14	6.0	41.0	19.2	11.3
TOTAL CARBON	mg/l	11	5.5	13.9	8.9	3.1
TOT INORGANIC CARBON	mg/l	11	0.1	2.6	1.9	0.7
TOTAL ORGANIC CARBON	mg/l	11	3.4	11.3	7.0	3.1
TURBIDITY	JTU	14	<1.0	32.0	5.5	8.3
TOTAL SUSPENDED SOLIDS	mg/l	14	<1	588	45	156
TOTAL DISSOLVED SOLIDS	mg/l	14	16	66	39	12
TOTAL SOLIDS	mg/l	14	19	620	84	155
TOTAL CALCIUM(exp)	mg/l	1	2.4	2.4	2.4	
TOTAL MAGNESIUM(exp)	mg/l	1	0.8	0.8	0.8	
CHLORIDE	mg/l	14	3.7	9.0	5.4	1.4

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

UNNAMED TRIBUTARY D8,4

STATION LOCATION: CARRANZA ROAD NEAR MOORES MEADOW, TABERNACLE TWP AND SHAMONG TWP BORDER, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	12	4	4
MONTH			9	12	4	4
DAY			19	3	1	22
YEAR			90	90	91	91
WEATHER	code	P00041	1	2	1	6
AIR TEMPERATURE	deg. C	---	15.0	7.0	5.0	
WATER TEMPERATURE	deg. C	P00010	12.0	11.0	5.0	
pH-LAB	pH	P00403	5.3	4.5	4.3	4.1
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	37.8	37.8	40.7	36.7
ALKALINITY AS CaCO3	mg/l	P00410	2.2			
HARDNESS(exp)	mg/l	P00900				1.4
NO2+NO3-N	mg/l	P00630	<.04	<.04	<.04	<.04
NH3-N	mg/l	P00610	0.18	<.10	0.17	<.10
TOTAL KJELDAHL-N	mg/l	P00625	3.40	0.38	0.36	1.15
ORGANIC N	mg/l	P00605	3.22	0.38	0.19	1.15
TOTAL N	mg/l	P00600	3.40	0.38	0.36	1.15
TOTAL ORTHO P-PO4	mg/l	P00660	0.04	0.02	0.01	
TOTAL P-PO4	mg/l	P00650	0.08	0.04	0.01	0.01
POLY PO4	mg/l	P00655	0.04	<.01	<.01	
BOD 5-DAY	mg/l	P00310	2.7			
BOD 7-DAY	mg/l	P00315		<2.0	<2.0	<2.0
COD-LOW	mg/l	P00335	74.5	6.0	11.0	32.5
TOTAL CARBON	mg/l	P00690	38.3	9.7	7.1	10.3
TOT INORGANIC CARBON	mg/l	P00685	6.2	3.7	1.7	2.2
TOTAL ORGANIC CARBON	mg/l	P00680	32.1	6.0	5.4	8.0
TURBIDITY	JTU	P00076	25.0	4.0	1.0	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	90	8	1	<1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	60	38	25	41
TOTAL SOLIDS	mg/l	P00500	150	46	26	41
TOTAL CALCIUM(exp)	mg/l	P00916				0.8
TOTAL MAGNESIUM(exp)	mg/l	P00927				0.6
CHLORIDE	mg/l	P00940	4.7	4.6	2.7	2.7
FECAL COLIFORM	MF	P31613	100	<50	20	<20
TOTAL COLIFORM	MF	P31504	600	<200	<100	<100
FECAL STREPT	MF	P31673	200	100	<50	50

MULLICA RIVER BASIN: BATSTO RIVER

UNNAMED TRIBUTARY D8,4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	13	2.9	5.3	3.6	(4.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	13	32.4	72.0	49.0	13.3
ALKALINITY AS CaCO ₃	mg/l	2	<0.5	2.2	1.1	1.6
HARDNESS(exp)	mg/l	1	1.4	1.4	1.4	
NO ₂ +NO ₃ -N	mg/l	13	<.04	0.67	0.06	0.19
NH ₃ -N	mg/l	11	<.10	0.27	0.11	0.11
TOTAL KJELDAHL-N	mg/l	12	0.26	3.40	0.83	0.86
ORGANIC N	mg/l	10	0.16	3.22	0.83	0.91
TOTAL N	mg/l	12	0.26	3.40	0.84	0.85
TOTAL ORTHO P-PO ₄	mg/l	12	<.01	0.05	0.01	0.02
TOTAL P-PO ₄	mg/l	13	<.01	0.09	0.03	0.03
POLY PO ₄	mg/l	12	<.01	0.04	<.01	0.01
BOD 5-DAY	mg/l	5	<2.0	2.7	<2.0	<2.0
BOD 7-DAY	mg/l	7	<2.0	2.7	<2.0	<2.0
COD-LOW	mg/l	13	6.0	74.5	26.9	23.6
TOTAL CARBON	mg/l	11	6.5	38.3	15.0	11.5
TOT INORGANIC CARBON	mg/l	11	1.5	6.2	3.4	1.5
TOTAL ORGANIC CARBON	mg/l	11	4.8	32.1	11.6	10.3
TURBIDITY	JTU	13	<1.0	25.0	4.4	6.6
TOTAL SUSPENDED SOLIDS	mg/l	13	<1	90	10	24
TOTAL DISSOLVED SOLIDS	mg/l	13	18	65	37	15
TOTAL SOLIDS	mg/l	13	20	150	47	34
TOTAL CALCIUM(exp)	mg/l	1	0.8	0.8	0.8	
TOTAL MAGNESIUM(exp)	mg/l	1	0.6	0.6	0.6	
CHLORIDE	mg/l	13	2.7	6.3	4.3	1.2

** Summary statistics were calculated using the data presented in this report and the two previous Pirrelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

SKIT BRANCH D8,6

STATION LOCATION: CARRANZA ROAD, TABERNACLE TWP AND SHAMONG TWP BORDER, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	12	4	4
MONTH			9	12	4	4
DAY			19	3	1	22
YEAR			90	90	91	91
WEATHER	code	P00041	0	2	1	6
AIR TEMPERATURE	deg. C	---	18.0	7.0	5.0	
WATER TEMPERATURE	deg. C	P00010	13.0	10.0	5.0	
pH-LAB	pH	P00403	4.4	5.1	4.4	4.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	29.9	21.6	31.8	31.9
ALKALINITY AS CaCO3	mg/l	P00410		<0.5		
HARDNESS(exp)	mg/l	P00900				1.4
NO2+NO3-N	mg/l	P00630	<.04	<.04	<.04	<.04
NH3-N	mg/l	P00610	0.15	0.14	0.12	<.10
TOTAL KjELDAHL-N	mg/l	P00625	>10.00	0.22	0.32	0.59
ORGANIC N	mg/l	P00605	>10.00	<.10	0.21	0.59
TOTAL N	mg/l	P00600	>10.00	0.22	0.32	0.59
TOTAL ORTHO P-PO4	mg/l	P00660	0.03	0.01	0.01	
TOTAL P-PO4	mg/l	P00650	0.07	0.01	0.01	0.02
POLY PO4	mg/l	P00655	0.03	<.01	0.01	
BOD 5-DAY	mg/l	P00310	<2.0			
BOD 7-DAY	mg/l	P00315		<2.0	<2.0	<2.0
COD-LOW	mg/l	P00335	29.5	<1.0	5.0	24.5
TOTAL CARBON	mg/l	P00690	16.4	3.6	6.9	11.0
TOT INORGANIC CARBON	mg/l	P00685	2.7	1.3	1.3	9.7
TOTAL ORGANIC CARBON	mg/l	P00680	13.7	2.3	5.6	1.3
TURBIDITY	JTU	P00076	8.0	<1.0	<1.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	55	2	2	<1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	44	44	55	10
TOTAL SOLIDS	mg/l	P00500	99	46	57	10
TOTAL CALCIUM(exp)	mg/l	P00916				0.8
TOTAL MAGNESIUM(exp)	mg/l	P00927				0.6
CHLORIDE	mg/l	P00940	2.3	2.5	2.0	2.0
FECAL COLIFORM	MF	P31613	<50	<20	<20	40
TOTAL COLIFORM	MF	P31504	200	200	200	100
FECAL STREPT	MF	P31673	100	<50	<50	50

MULLICA RIVER BASIN: BATSTO RIVER

SKIT BRANCH D8,6

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	13	3.4	5.1	4.0	(4.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	13	19.2	70.0	30.4	13.2
ALKALINITY AS CaCO ₃	mg/l	3	<0.5	<0.5	<0.5	
HARDNESS(exp)	mg/l	1	1.4	1.4	1.4	
NO ₂ +NO ₃ -N	mg/l	13	<.04	0.05	<.04	<.04
NH ₃ -N	mg/l	12	<.10	0.18	0.10	<.10
TOTAL KJELDAHL-N	mg/l	11	0.22	>10.00	1.32	2.89
ORGANIC N	mg/l	10	<.10	>10.00	1.31	3.06
TOTAL N	mg/l	11	0.22	>10.00	1.32	2.89
TOTAL ORTHO P-PO ₄	mg/l	12	<.01	0.03	<.01	0.01
TOTAL P-PO ₄	mg/l	13	<.01	0.07	0.01	0.02
POLY PO ₄	mg/l	12	<.01	0.03	<.01	0.01
BOD 5-DAY	mg/l	5	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	7	<2.0	<2.0	<2.0	
COD-LOW	mg/l	13	<1.0	31.7	15.0	11.4
TOTAL CARBON	mg/l	10	3.5	16.4	7.2	4.4
TOT INORGANIC CARBON	mg/l	10	1.0	9.7	2.3	2.6
TOTAL ORGANIC CARBON	mg/l	10	1.3	13.7	4.9	4.0
TURBIDITY	JTU	13	<1.0	8.0	1.8	2.2
TOTAL SUSPENDED SOLIDS	mg/l	13	<1	55	9	15
TOTAL DISSOLVED SOLIDS	mg/l	13	9	55	26	15
TOTAL SOLIDS	mg/l	13	9	99	35	25
TOTAL CALCIUM(exp)	mg/l	1	0.8	0.8	0.8	
TOTAL MAGNESIUM(exp)	mg/l	1	0.6	0.6	0.6	
CHLORIDE	mg/l	13	2.0	6.7	2.8	1.3

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

TOM ROBERTS BRANCH D8,5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	14	3.2	5.1	3.8	(4.3)
SPECIFIC CONDUCTIVITY-LAB	umhos	14	21.4	49.0	36.6	8.0
ALKALINITY AS CaCO ₃	mg/l	1	<0.5	<0.5	<0.5	
HARDNESS(exp)	mg/l	1	1.5	1.5	1.5	
NO ₂ +NO ₃ -N	mg/l	14	<.04	0.58	0.05	0.15
NH ₃ -N	mg/l	13	<.10	0.29	0.13	0.10
TOTAL KJELDAHL-N	mg/l	13	0.28	9.00	1.15	2.37
ORGANIC N	mg/l	12	<.10	8.85	1.07	2.47
TOTAL N	mg/l	13	0.28	9.00	1.20	2.36
TOTAL ORTHO P-PO ₄	mg/l	14	<.01	0.03	0.01	0.01
TOTAL P-PO ₄	mg/l	14	0.01	0.07	0.02	0.02
POLY PO ₄	mg/l	14	<.01	0.03	0.01	0.01
BOD 5-DAY	mg/l	5	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	8	<2.0	<2.0	<2.0	
COO-LOW	mg/l	14	<1.0	39.3	13.9	12.2
TOTAL CARBON	mg/l	11	4.0	14.2	7.4	2.9
TOT INORGANIC CARBON	mg/l	11	1.1	2.7	1.7	0.5
TOTAL ORGANIC CARBON	mg/l	11	2.9	11.5	5.8	2.6
TURBIDITY	JTU	14	<1.0	30.0	4.9	8.2
TOTAL SUSPENDED SOLIDS	mg/l	14	<1	24	5	7
TOTAL DISSOLVED SOLIDS	mg/l	14	16	39	24	6
TOTAL SOLIDS	mg/l	14	17	56	29	11
TOTAL CALCIUM(exp)	mg/l	1	1.0	1.0	1.0	
TOTAL MAGNESIUM(exp)	mg/l	1	0.5	0.5	0.5	
CHLORIDE	mg/l	14	2.3	5.3	3.1	0.7

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

TOM ROBERTS BRANCH D8,5

STATION LOCATION: CARRANZA ROAD, TABERNACLE TWP AND SHAMONG TWP BORDER, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	12	4	4
MONTH			9	12	4	4
DAY			19	3	1	22
YEAR			90	90	91	91
WEATHER	code	P00041	1	2	1	6
AIR TEMPERATURE	deg. C	---	20.0	7.0	5.0	
WATER TEMPERATURE	deg. C	P00010	13.0	10.0	5.0	
pH-LAB	pH	P00403	5.1	4.5	4.3	4.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	21.4	32.0	36.2	31.8
ALKALINITY AS CaCO3	mg/l	P00410	<0.5			
HARDNESS(exp)	mg/l	P00900				1.5
NO2+NO3-N	mg/l	P00630	<.04	<.04	<.04	<.04
NH3-N	mg/l	P00610	0.15	0.11	0.12	<.10
TOTAL KJELDAHL-N	mg/l	P00625	9.00	0.35	0.35	1.25
ORGANIC N	mg/l	P00605	8.85	0.24	0.23	1.25
TOTAL N	mg/l	P00600	9.00	0.35	0.35	1.25
TOTAL ORTHO P-PO4	mg/l	P00660	0.02	0.01	0.01	0.03
TOTAL P-PO4	mg/l	P00650	0.07	0.02	0.01	0.02
POLY PO4	mg/l	P00655	0.03	<.01	<.01	<.01
BOD 5-DAY	mg/l	P00310	<2.0			
BOD 7-DAY	mg/l	P00315		<2.0	<2.0	<2.0
COD-LOW	mg/l	P00335	13.2	6.0	<1.0	17.0
TOTAL CARBON	mg/l	P00690	9.7	6.1	5.2	9.5
TOT INORGANIC CARBON	mg/l	P00685	1.6	1.9	1.2	1.5
TOTAL ORGANIC CARBON	mg/l	P00680	8.0	4.1	4.0	8.0
TURBIDITY	JTU	P00076	2.0	2.0	<1.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	<1	4	2	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	39	30	24	16
TOTAL SOLIDS	mg/l	P00500	39	34	26	18
TOTAL CALCIUM(exp)	mg/l	P00916				1.0
TOTAL MAGNESIUM(exp)	mg/l	P00927				0.5
CHLORIDE	mg/l	P00940	2.5	2.8	2.3	2.5
FECAL COLIFORM	MF	P31613	<50	<20	<20	40
TOTAL COLIFORM	MF	P31504	<200	<100	100	400
FECAL STREPT	MF	P31673	<100	<50	<50	<50

MULLICA RIVER BASIN: BATSTO RIVER

INDIAN MILLS BROOK D1,1

STATION LOCATION: GRASSY LAKE ROAD, SHAMONG TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			1
DAY			2
YEAR			91
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	5.0
WATER TEMPERATURE	deg. C	P00010	4.0
pH-LAB	pH	P00403	4.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	95.6
ALKALINITY AS CaCO3	mg/l	P00410	
NO2+NO3-N	mg/l	P00630	0.20
NH3-N	mg/l	P00610	0.10
TOTAL KjELDAHL-N	mg/l	P00625	0.46
ORGANIC N	mg/l	P00605	0.36
TOTAL N	mg/l	P00600	0.66
TOTAL ORTHO P-PO4	mg/l	P00660	0.02
TOTAL P-PO4	mg/l	P00650	0.03
POLY PO4	mg/l	P00655	0.02
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	42.5
TOTAL CARBON	mg/l	P00690	20.8
TOT INORGANIC CARBON	mg/l	P00685	3.1
TOTAL ORGANIC CARBON	mg/l	P00680	17.7
TURBIDITY	JTU	P00076	1.2
TOTAL SUSPENDED SOLIDS	mg/l	P00530	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	82
TOTAL SOLIDS	mg/l	P00500	86
CHLORIDE	mg/l	P00940	15.4
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	800
FECAL STREPT	MF	P31673	2200

MULLICA RIVER BASIN: BATSTO RIVER

INDIAN MILLS BROOK D1,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	9	2.8	6.1	3.6	(4.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	9	72.4	141.4	106.6	23.9
ALKALINITY AS CaCO ₃	mg/l	1	11.9	11.9	11.9	
NO ₂ +NO ₃ -N	mg/l	9	<.04	0.65	0.22	0.21
NH ₃ -N	mg/l	9	<.10	0.55	0.17	0.18
TOTAL KJELDAHL-N	mg/l	8	0.42	1.90	0.96	0.50
ORGANIC N	mg/l	8	0.20	1.90	0.79	0.57
TOTAL N	mg/l	8	0.66	1.90	1.20	0.37
TOTAL ORTHO P-PO ₄	mg/l	9	<.01	0.10	0.02	0.03
TOTAL P-PO ₄	mg/l	9	0.01	0.15	0.05	0.05
POLY PO ₄	mg/l	9	<.01	0.04	0.01	0.01
BOD 5-DAY	mg/l	7	<2.0	4.1	<2.0	<2.0
BOD 7-DAY	mg/l	3	<2.0	11.6	3.9	6.7
COD-LOW	mg/l	8	40.0	138.0	63.8	35.8
TOTAL CARBON	mg/l	7	18.5	65.2	30.4	17.1
TOT INORGANIC CARBON	mg/l	7	2.8	4.1	3.4	0.5
TOTAL ORGANIC CARBON	mg/l	7	14.8	61.1	27.0	16.8
TURBIDITY	JTU	9	<1.0	7.5	1.8	2.3
TOTAL SUSPENDED SOLIDS	mg/l	9	<1	37	8	12
TOTAL DISSOLVED SOLIDS	mg/l	9	56	179	105	40
TOTAL SOLIDS	mg/l	9	57	179	113	40
CHLORIDE	mg/l	9	11.2	21.0	15.8	3.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

INDIAN MILLS BROOK D1,2

STATION LOCATION: STOKES ROAD, SHAMONG TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			1
DAY			2
YEAR			91
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	5.0
WATER TEMPERATURE	deg. C	P00010	4.0
pH-LAB	pH	P00403	5.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	73.2
ALKALINITY AS CaCO3	mg/l	P00410	0.9
NO2+NO3-N	mg/l	P00630	0.58
NH3-N	mg/l	P00610	0.12
TOTAL KJELDAHL-N	mg/l	P00625	0.39
ORGANIC N	mg/l	P00605	0.27
TOTAL N	mg/l	P00600	0.96
TOTAL ORTHO P-PO4	mg/l	P00660	0.01
TOTAL P-PO4	mg/l	P00650	0.02
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	15.5
TOTAL CARBON	mg/l	P00690	10.2
TOT INORGANIC CARBON	mg/l	P00685	1.4
TOTAL ORGANIC CARBON	mg/l	P00680	8.8
TURBIDITY	JTU	P00076	1.7
TOTAL SUSPENDED SOLIDS	mg/l	P00530	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	63
TOTAL SOLIDS	mg/l	P00500	65
CHLORIDE	mg/l	P00940	9.6
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	1600
FECAL STREPT	MF	P31673	100

MULLICA RIVER BASIN: BATSTO RIVER

INDIAN MILLS BROOK D1,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	9	2.8	6.1	3.6	(4.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	9	72.4	141.4	106.6	23.9
ALKALINITY AS CaCO ₃	mg/l	1	11.9	11.9	11.9	
NO ₂ +NO ₃ -N	mg/l	9	<.04	0.65	0.22	0.21
NH ₃ -N	mg/l	9	<.10	0.55	0.17	0.18
TOTAL KJELDAHL-N	mg/l	8	0.42	1.90	0.96	0.50
ORGANIC N	mg/l	8	0.20	1.90	0.79	0.57
TOTAL N	mg/l	8	0.66	1.90	1.20	0.37
TOTAL ORTHO P-PO ₄	mg/l	9	<.01	0.10	0.02	0.03
TOTAL P-PO ₄	mg/l	9	0.01	0.15	0.05	0.05
POLY PO ₄	mg/l	9	<.01	0.04	0.01	0.01
BOD 5-DAY	mg/l	7	<2.0	4.1	<2.0	<2.0
BOD 7-DAY	mg/l	3	<2.0	11.6	3.9	6.7
COD-LOW	mg/l	8	40.0	138.0	63.8	35.8
TOTAL CARBON	mg/l	7	18.5	65.2	30.4	17.1
TOT INORGANIC CARBON	mg/l	7	2.8	4.1	3.4	0.5
TOTAL ORGANIC CARBON	mg/l	7	14.8	61.1	27.0	16.8
TURBIDITY	JTU	9	<1.0	7.5	1.8	2.3
TOTAL SUSPENDED SOLIDS	mg/l	9	<1	37	8	12
TOTAL DISSOLVED SOLIDS	mg/l	9	56	179	105	40
TOTAL SOLIDS	mg/l	9	57	179	113	40
CHLORIDE	mg/l	9	11.2	21.0	15.8	3.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

INDIAN MILLS BROOK D1,2

STATION LOCATION: STOKES ROAD, SHAMONG TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			1
DAY			2
YEAR			91
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	5.0
WATER TEMPERATURE	deg. C	P00010	4.0
pH-LAB	pH	P00403	5.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	73.2
ALKALINITY AS CaCO3	mg/l	P00410	0.9
NO2+NO3-N	mg/l	P00630	0.58
NH3-N	mg/l	P00610	0.12
TOTAL KJELDAHL-N	mg/l	P00625	0.39
ORGANIC N	mg/l	P00605	0.27
TOTAL N	mg/l	P00600	0.96
TOTAL ORTHO P-PO4	mg/l	P00660	0.01
TOTAL P-PO4	mg/l	P00650	0.02
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	15.5
TOTAL CARBON	mg/l	P00690	10.2
TOT INORGANIC CARBON	mg/l	P00685	1.4
TOTAL ORGANIC CARBON	mg/l	P00680	8.8
TURBIDITY	JTU	P00076	1.7
TOTAL SUSPENDED SOLIDS	mg/l	P00530	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	63
TOTAL SOLIDS	mg/l	P00500	65
CHLORIDE	mg/l	P00940	9.6
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	1600
FECAL STREPT	MF	P31673	100

MULLICA RIVER BASIN: BATSTO RIVER

INDIAN MILLS BROOK D1,2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	13	3.8	6.6	4.6	(5.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	13	51.7	354.8	87.2	79.6
ALKALINITY AS CaCO3	mg/l	9	0.9	12.9	3.0	3.7
NO2+NO3-N	mg/l	13	0.15	0.83	0.49	0.25
NH3-N	mg/l	12	<.10	0.24	0.10	<.10
TOTAL KJELDAHL-N	mg/l	12	0.31	1.10	0.58	0.27
ORGANIC N	mg/l	11	0.27	1.10	0.49	0.27
TOTAL N	mg/l	12	0.93	1.93	1.09	0.27
TOTAL ORTHO P-PO4	mg/l	13	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	13	<.01	0.13	0.03	0.03
POLY PO4	mg/l	13	<.01	0.04	0.01	0.01
BOD 5-DAY	mg/l	9	<2.0	3.7	<2.0	<2.0
BOD 7-DAY	mg/l	4	<2.0	2.3	<2.0	<2.0
COD-LOW	mg/l	12	6.0	47.0	18.8	11.0
TOTAL CARBON	mg/l	10	5.8	18.1	7.9	3.7
TOT INORGANIC CARBON	mg/l	10	0.6	3.2	1.4	0.7
TOTAL ORGANIC CARBON	mg/l	10	4.3	15.0	6.5	3.3
TURBIDITY	JTU	13	1.0	2.6	1.6	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	13	<1	8	2	2
TOTAL DISSOLVED SOLIDS	mg/l	13	33	63	47	8
TOTAL SOLIDS	mg/l	13	35	66	49	9
CHLORIDE	mg/l	13	4.0	13.7	7.8	2.2

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

INDIAN MILLS BROOK D1,3

STATION LOCATION: ROUTE 534 (WILLOW GROVE ROAD), SHAMONG TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			1
DAY			2
YEAR			91
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	4.0
WATER TEMPERATURE	deg. C	P00010	4.0
pH-LAB	pH	P00403	6.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	99.0
ALKALINITY AS CaCO3	mg/l	P00410	5.0
NO2+NO3-N	mg/l	P00630	0.90
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.28
ORGANIC N	mg/l	P00605	0.28
TOTAL N	mg/l	P00600	1.18
TOTAL ORTHO P-PO4	mg/l	P00660	0.03
TOTAL P-PO4	mg/l	P00650	0.03
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	9.0
TOTAL CARBON	mg/l	P00690	9.2
TOT INORGANIC CARBON	mg/l	P00685	1.8
TOTAL ORGANIC CARBON	mg/l	P00680	7.5
TURBIDITY	JTU	P00076	2.1
TOTAL SUSPENDED SOLIDS	mg/l	P00530	5
TOTAL DISSOLVED SOLIDS	mg/l	P70300	73
TOTAL SOLIDS	mg/l	P00500	78
CHLORIDE	mg/l	P00940	11.0
FECAL COLIFORM	MF	P31613	50
TOTAL COLIFORM	MF	P31504	1200
FECAL STREPT	MF	P31673	300

MULLICA RIVER BASIN: BATSTO RIVER

INDIAN MILLS BROOK D1,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	5.1	6.5	5.7	(6.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	76.9	193.8	113.0	31.9
ALKALINITY AS CaCO ₃	mg/l	10	3.0	23.8	8.9	5.9
NO ₂ +NO ₃ -N	mg/l	10	0.26	2.42	0.91	0.69
NH ₃ -N	mg/l	10	<.10	0.25	<.10	0.11
TOTAL KJELDAHL-N	mg/l	9	0.28	0.82	0.58	0.15
ORGANIC N	mg/l	9	0.28	0.68	0.47	0.12
TOTAL N	mg/l	9	0.90	3.06	1.55	0.72
TOTAL ORTHO P-PO ₄	mg/l	10	0.01	0.04	0.02	0.01
TOTAL P-PO ₄	mg/l	10	0.02	0.06	0.04	0.01
POLY PO ₄	mg/l	10	<.01	0.02	<.01	0.01
BOD 5-DAY	mg/l	6	<2.0	4.0	<2.0	<2.0
BOD 7-DAY	mg/l	4	<2.0	3.9	<2.0	<2.0
COD-LOW	mg/l	9	<1.0	47.0	18.1	16.0
TOTAL CARBON	mg/l	8	6.1	17.4	9.9	3.9
TOT INORGANIC CARBON	mg/l	8	0.5	7.3	2.9	2.0
TOTAL ORGANIC CARBON	mg/l	8	3.0	15.3	7.0	3.8
TURBIDITY	JTU	10	1.0	5.1	2.1	1.2
TOTAL SUSPENDED SOLIDS	mg/l	9	1	22	5	7
TOTAL DISSOLVED SOLIDS	mg/l	10	44	95	74	14
TOTAL SOLIDS	mg/l	10	46	101	79	16
CHLORIDE	mg/l	10	8.5	12.5	11.2	1.2

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

MUSKINGUM BROOK D7,1

STATION LOCATION: ROUTE 648 (RED LION-INDIAN MILLS ROAD), TABERNACLE TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			2
DAY			6
YEAR			91
WEATHER	code	P00041	6
AIR TEMPERATURE	deg. C	---	10.0
WATER TEMPERATURE	deg. C	P00010	10.0
pH-LAB	pH	P00403	6.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	203.4
ALKALINITY AS CaCO3	mg/l	P00410	7.0
NO2+NO3-N	mg/l	P00630	3.78
NH3-N	mg/l	P00610	0.30
TOTAL KJELDAHL-N	mg/l	P00625	0.98
ORGANIC N	mg/l	P00605	0.68
TOTAL N	mg/l	P00600	4.76
TOTAL ORTHO P-PO4	mg/l	P00660	0.03
TOTAL P-PO4	mg/l	P00650	0.36
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	2.1
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	14.2
TOTAL CARBON	mg/l	P00690	15.6
TOT INORGANIC CARBON	mg/l	P00685	12.8
TOTAL ORGANIC CARBON	mg/l	P00680	2.8
TURBIDITY	JTU	P00076	3.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	132
TOTAL DISSOLVED SOLIDS	mg/l	P70300	124
TOTAL SOLIDS	mg/l	P00500	256
CHLORIDE	mg/l	P00940	14.6
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	<200
FECAL STREPT	MF	P31673	<100

MULLICA RIVER BASIN: BATSTO RIVER

MUSKINGUM BROOK D7,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	14	5.2	6.9	5.7	(5.9)
SPECIFIC CONDUCTIVITY-LAB	umhos	14	70.3	214.1	168.6	43.9
ALKALINITY AS CaCO3	mg/l	14	3.8	55.2	14.1	14.1
NO2+NO3-N	mg/l	13	<.04	3.78	1.96	1.30
NH3-N	mg/l	14	<.10	0.88	0.28	0.24
TOTAL KJELDAHL-N	mg/l	13	0.46	1.60	0.95	0.37
ORGANIC N	mg/l	13	0.27	1.19	0.67	0.28
TOTAL N	mg/l	12	1.35	5.00	3.12	1.25
TOTAL ORTHO P-PO4	mg/l	13	0.02	0.31	0.07	0.08
TOTAL P-PO4	mg/l	14	0.03	0.43	0.15	0.12
POLY PO4	mg/l	12	<.01	0.12	0.02	0.04
BOD 5-DAY	mg/l	9	<2.0	6.9	2.4	2.4
BOD 7-DAY	mg/l	4	<2.0	6.6	2.2	3.1
COD-LOW	mg/l	13	11.0	68.0	24.6	14.4
TOTAL CARBON	mg/l	11	7.7	27.3	14.7	5.4
TOT INORGANIC CARBON	mg/l	11	3.2	16.5	7.3	4.0
TOTAL ORGANIC CARBON	mg/l	11	2.8	12.9	7.4	3.3
TURBIDITY	JTU	14	1.0	22.0	6.6	6.5
TOTAL SUSPENDED SOLIDS	mg/l	14	1	132	19	34
TOTAL DISSOLVED SOLIDS	mg/l	14	36	185	125	40
TOTAL SOLIDS	mg/l	14	63	256	144	51
CHLORIDE	mg/l	14	3.0	26.0	15.3	5.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

MUSKINGUM BROOK D7,2

STATION LOCATION: ROUTE 620 (TUCKERTON ROAD), TABERNACLE TWP AND SHAMONG TWP BORDER, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			2
DAY			6
YEAR			91
WEATHER	code	P00041	6
AIR TEMPERATURE	deg. C	---	10.0
WATER TEMPERATURE	deg. C	P00010	9.0
pH-LAB	pH	P00403	5.9
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	130.6
ALKALINITY AS CaCO3	mg/l	P00410	4.0
NO2+NO3-N	mg/l	P00630	1.57
NH3-N	mg/l	P00610	0.42
TOTAL KjELDAHL-N	mg/l	P00625	1.65
ORGANIC N	mg/l	P00605	1.23
TOTAL N	mg/l	P00600	3.22
TOTAL ORTHO P-PO4	mg/l	P00660	0.15
TOTAL P-PO4	mg/l	P00650	0.16
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	7.5
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	20.5
TOTAL CARBON	mg/l	P00690	13.3
TOT INORGANIC CARBON	mg/l	P00685	8.2
TOTAL ORGANIC CARBON	mg/l	P00680	5.0
TURBIDITY	JTU	P00076	23.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	924
TOTAL DISSOLVED SOLIDS	mg/l	P70300	228
TOTAL SOLIDS	mg/l	P00500	1152
CHLORIDE	mg/l	P00940	12.6
FECAL COLIFORM	MF	P31613	<100
TOTAL COLIFORM	MF	P31504	<500
FECAL STREPT	MF	P31673	200

MULLICA RIVER BASIN: BATSTO RIVER

MUSKINGUM BROOK D7,2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	14	5.2	6.7	5.7	(5.9)
SPECIFIC CONDUCTIVITY-LAB	umhos	14	72.3	133.5	101.9	18.6
ALKALINITY AS CaCO3	mg/l	14	3.9	42.0	9.5	9.7
NO2+NO3-N	mg/l	14	0.14	2.02	0.92	0.49
NH3-N	mg/l	14	<.10	0.42	0.16	0.12
TOTAL KJELDAHL-N	mg/l	14	0.34	1.65	0.80	0.42
ORGANIC N	mg/l	14	<.10	1.34	0.63	0.39
TOTAL N	mg/l	14	0.55	3.22	1.72	0.74
TOTAL ORTHO P-PO4	mg/l	14	0.01	0.15	0.04	0.03
TOTAL P-PO4	mg/l	14	0.03	0.39	0.10	0.10
POLY PO4	mg/l	13	<.01	0.14	0.02	0.04
BOD 5-DAY	mg/l	9	<2.0	7.5	<2.0	2.5
BOD 7-DAY	mg/l	4	<2.0	2.7	<2.0	<2.0
COD-LOW	mg/l	13	<1.0	33.5	17.8	8.8
TOTAL CARBON	mg/l	10	6.1	15.9	10.4	2.8
TOT INORGANIC CARBON	mg/l	10	1.6	8.2	3.7	2.0
TOTAL ORGANIC CARBON	mg/l	10	3.7	13.2	6.7	2.8
TURBIDITY	JTU	14	1.3	23.0	4.5	6.2
TOTAL SUSPENDED SOLIDS	mg/l	14	2	924	82	246
TOTAL DISSOLVED SOLIDS	mg/l	14	53	228	84	44
TOTAL SOLIDS	mg/l	14	59	1152	166	287
CHLORIDE	mg/l	14	6.8	14.5	10.8	1.9

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

MUSKINGUM BROOK D7,3

STATION LOCATION: INDIAN MILLS LAKE INLET, SHAMONG TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			2
DAY			6
YEAR			91
WEATHER	code	P00041	6
AIR TEMPERATURE	deg. C	---	10.0
WATER TEMPERATURE	deg. C	P00010	10.0
pH-LAB	pH	P00403	6.1
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	195.1
ALKALINITY AS CaCO3	mg/l	P00410	11.6
NO2+NO3-N	mg/l	P00630	4.05
NH3-N	mg/l	P00610	0.25
TOTAL KJELDAHL-N	mg/l	P00625	0.70
ORGANIC N	mg/l	P00605	0.45
TOTAL N	mg/l	P00600	4.75
TOTAL ORTHO P-PO4	mg/l	P00660	0.05
TOTAL P-PO4	mg/l	P00650	0.06
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	2.3
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	5.5
TOTAL CARBON	mg/l	P00690	7.6
TOT INORGANIC CARBON	mg/l	P00685	2.5
TOTAL ORGANIC CARBON	mg/l	P00680	5.1
TURBIDITY	JTU	P00076	6.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	29
TOTAL DISSOLVED SOLIDS	mg/l	P70300	133
TOTAL SOLIDS	mg/l	P00500	162
CHLORIDE	mg/l	P00940	18.8
FECAL COLIFORM	MF	P31613	<100
TOTAL COLIFORM	MF	P31504	500
FECAL STREPT	MF	P31673	<200

MULLICA RIVER BASIN: BATSTO RIVER

MUSKINGUM BROOK D7,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	12	5.0	8.8	5.8	(6.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	12	124.4	457.2	176.4	91.7
ALKALINITY AS CaCO3	mg/l	12	7.1	38.1	16.6	8.3
NO2+NO3-N	mg/l	12	0.27	8.82	1.91	2.39
NH3-N	mg/l	12	<.10	0.85	0.24	0.22
TOTAL KJELDAHL-N	mg/l	12	0.48	2.02	1.14	0.52
ORGANIC N	mg/l	12	0.28	2.02	0.91	0.58
TOTAL N	mg/l	12	1.15	10.12	3.05	2.44
TOTAL ORTHO P-PO4	mg/l	12	<.01	0.16	0.05	0.04
TOTAL P-PO4	mg/l	12	0.02	0.47	0.15	0.14
POLY PO4	mg/l	11	<.01	0.08	0.03	0.03
BOD 5-DAY	mg/l	9	2.3	9.0	4.8	2.2
BOD 7-DAY	mg/l	2	<2.0	9.2	4.6	6.5
COD-LOW	mg/l	11	5.5	29.5	20.2	7.3
TOTAL CARBON	mg/l	9	7.6	15.6	11.7	2.7
TOT INORGANIC CARBON	mg/l	9	1.6	10.4	4.3	2.7
TOTAL ORGANIC CARBON	mg/l	9	5.1	12.5	7.4	2.6
TURBIDITY	JTU	12	1.5	6.3	4.1	1.8
TOTAL SUSPENDED SOLIDS	mg/l	12	3	81	31	23
TOTAL DISSOLVED SOLIDS	mg/l	12	40	284	115	59
TOTAL SOLIDS	mg/l	12	72	306	146	57
CHLORIDE	mg/l	12	10.0	49.4	17.3	10.4

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

MUSKINGUM BROOK AT INDIAN MILLS LAKE OUTLET D7,4

STATION LOCATION: ROUTE 534 (WILLOW GROVE ROAD), SHAMONG TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			2
DAY			6
YEAR			91
WEATHER	code	P00041	6
AIR TEMPERATURE	deg. C	---	10.0
WATER TEMPERATURE	deg. C	P00010	10.0
pH-LAB	pH	P00403	5.8
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	512.2
ALKALINITY AS CaCO3	mg/l	P00410	22.3
NO2+NO3-N	mg/l	P00630	>10.00
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	2.20
ORGANIC N	mg/l	P00605	2.20
TOTAL N	mg/l	P00600	>12.20
TOTAL ORTHO P-PO4	mg/l	P00660	0.06
TOTAL P-PO4	mg/l	P00650	0.21
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	14.2
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	3.0
TOTAL CARBON	mg/l	P00690	15.5
TOT INORGANIC CARBON	mg/l	P00685	8.9
TOTAL ORGANIC CARBON	mg/l	P00680	6.7
TURBIDITY	JTU	P00076	6.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	182
TOTAL DISSOLVED SOLIDS	mg/l	P70300	332
TOTAL SOLIDS	mg/l	P00500	514
CHLORIDE	mg/l	P00940	54.3
FECAL COLIFORM	MF	P31613	<100
TOTAL COLIFORM	MF	P31504	<500
FECAL STREPT	MF	P31673	200

MULLICA RIVER BASIN: BATSTO RIVER

MUSKINGUM BROOK D7;4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	14	5.6	8.9	6.1	(6.5)
SPECIFIC CONDUCTIVITY-LAB	umhos	14	118.4	512.2	173.4	99.9
ALKALINITY AS CaCO3	mg/l	14	7.8	33.9	16.4	7.8
NO2+NO3-N	mg/l	14	0.06	10.00	2.19	2.72
NH3-N	mg/l	14	<.10	0.37	0.15	0.12
TOTAL KJELDAHL-N	mg/l	14	0.38	2.20	0.91	0.51
ORGANIC N	mg/l	14	0.25	2.20	0.75	0.52
TOTAL N	mg/l	14	0.54	12.20	3.10	3.07
TOTAL ORTHO P-PO4	mg/l	13	<.01	0.07	0.03	0.02
TOTAL P-PO4	mg/l	14	0.02	0.21	0.08	0.05
POLY PO4	mg/l	12	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	10	<2.0	14.2	2.5	4.5
BOD 7-DAY	mg/l	3	<2.0	<2.0	<2.0	
COD-LOW	mg/l	13	3.0	27.8	17.2	7.5
TOTAL CARBON	mg/l	10	6.1	16.8	10.8	3.4
TOT INORGANIC CARBON	mg/l	10	1.3	8.9	3.9	2.3
TOTAL ORGANIC CARBON	mg/l	10	4.3	11.7	6.9	2.6
TURBIDITY	JTU	14	<1.0	6.0	3.2	1.8
TOTAL SUSPENDED SOLIDS	mg/l	14	1	182	28	51
TOTAL DISSOLVED SOLIDS	mg/l	14	75	468	143	113
TOTAL SOLIDS	mg/l	14	78	514	171	147
CHLORIDE	mg/l	14	12.1	54.3	18.0	10.6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

SPRINGERS BROOK D1,4

STATION LOCATION: ROUTE 206, SHAMONG TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			1
DAY			2
YEAR			91
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	5.0
WATER TEMPERATURE	deg. C	P00010	4.0
pH-LAB	pH	P00403	5.7
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	133.3
ALKALINITY AS CaCO3	mg/l	P00410	6.3
NO2+NO3-N	mg/l	P00630	1.83
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.46
ORGANIC N	mg/l	P00605	0.46
TOTAL N	mg/l	P00600	2.29
TOTAL ORTHO P-PO4	mg/l	P00660	0.02
TOTAL P-PO4	mg/l	P00650	0.03
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	11.0
TOTAL CARBON	mg/l	P00690	8.8
TOT INORGANIC CARBON	mg/l	P00685	1.2
TOTAL ORGANIC CARBON	mg/l	P00680	7.6
TURBIDITY	JTU	P00076	1.4
TOTAL SUSPENDED SOLIDS	mg/l	P00530	3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	96
TOTAL SOLIDS	mg/l	P00500	99
CHLORIDE	mg/l	P00940	14.5
FECAL COLIFORM	MF	P31613	50
TOTAL COLIFORM	MF	P31504	600
FECAL STREPT	MF	P31673	400

MULLICA RIVER BASIN: BATSTO RIVER

SPRINGERS BROOK D1,4

SUMMARY STATISTICS. **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	12	5.0	7.2	5.7	(5.9)
SPECIFIC CONDUCTIVITY-LAB	umhos	12	86.6	167.8	131.5	22.6
ALKALINITY AS CaCO3	mg/l	12	<0.5	28.5	12.6	8.0
NO2+NO3-N	mg/l	12	0.10	2.54	0.95	0.82
NH3-N	mg/l	12	<.10	0.28	0.11	0.11
TOTAL KJELDAHL-N	mg/l	11	0.46	1.20	0.66	0.24
ORGANIC N	mg/l	11	0.30	0.96	0.54	0.20
TOTAL N	mg/l	11	0.56	3.04	1.68	0.74
TOTAL ORTHO P-PO4	mg/l	12	<.01	0.09	0.03	0.03
TOTAL P-PO4	mg/l	12	0.01	0.16	0.06	0.05
POLY PO4	mg/l	12	<.01	0.08	0.01	0.02
BOD 5-DAY	mg/l	8	<2.0	4.3	<2.0	<2.0
BOD 7-DAY	mg/l	4	<2.0	<2.0	<2.0	
COD-LOW	mg/l	11	1.2	36.3	18.8	11.0
TOTAL CARBON	mg/l	9	7.5	17.1	10.9	3.6
TOT INORGANIC CARBON	mg/l	9	0.8	5.7	3.1	1.8
TOTAL ORGANIC CARBON	mg/l	9	3.8	14.8	7.8	3.6
TURBIDITY	JTU	12	<1.0	4.5	2.0	1.3
TOTAL SUSPENDED SOLIDS	mg/l	11	<1	48	9	14
TOTAL DISSOLVED SOLIDS	mg/l	12	80	106	94	9
TOTAL SOLIDS	mg/l	12	80	130	102	13
CHLORIDE	mg/l	12	11.5	16.5	14.1	1.3

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

SPRINGERS BROOK D8,7

STATION LOCATION: HAMPTON FURNACE ROAD, SHAMONG TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			9	4
DAY			19	17
YEAR			90	91
WEATHER	code	P00041	0	1
AIR TEMPERATURE	deg. C	---	16.0	15.5
WATER TEMPERATURE	deg. C	P00010	13.0	14.5
pH-LAB	pH	P00403	4.5	6.1
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	40.7	97.1
ALKALINITY AS CaCO3	mg/l	P00410		7.9
HARDNESS(exp)	mg/l	P00900		7.9
NO2+NO3-N	mg/l	P00630	<.04	0.45
NH3-N	mg/l	P00610	0.46	<.10
TOTAL KJELDAHL-N	mg/l	P00625	>10.00	1.05
ORGANIC N	mg/l	P00605	>10.00	1.05
TOTAL N	mg/l	P00600	>10.00	1.50
TOTAL ORTHO P-PO4	mg/l	P00660	0.06	
TOTAL P-PO4	mg/l	P00650	0.10	0.01
POLY PO4	mg/l	P00655	0.04	<.01
BOD 5-DAY	mg/l	P00310	6.3	<2.0
BOD 7-DAY	mg/l	P00315		
COD-LOW	mg/l	P00335	86.5	25.5
TOTAL CARBON	mg/l	P00690	40.7	13.7
TOT INORGANIC CARBON	mg/l	P00685	4.7	1.6
TOTAL ORGANIC CARBON	mg/l	P00680	36.0	12.1
TURBIDITY	JTU	P00076	45.0	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	1260	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	44	71
TOTAL SOLIDS	mg/l	P00500	1304	73
TOTAL CALCIUM(exp)	mg/l	P00916		6.6
TOTAL MAGNESIUM(exp)	mg/l	P00927		1.3
CHLORIDE	mg/l	P00940	4.1	11.5
FECAL COLIFORM	MF	P31613	<100	20
TOTAL COLIFORM	MF	P31504	500	1600
FECAL STREPT	MF	P31673	200	50

MULLICA RIVER BASIN: BATSTO RIVER

SPRINGERS BROOK D8,7

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	9	4.5	6.3	5.1	(5.8)
SPECIFIC CONDUCTIVITY-LAB	umhos	9	40.7	138.9	95.1	30.5
ALKALINITY AS CaCO ₃	mg/l	8	<0.5	9.5	6.6	2.9
HARDNESS(exp)	mg/l	1	7.9	7.9	7.9	
NO ₂ +NO ₃ -N	mg/l	9	<.04	0.45	0.16	0.18
NH ₃ -N	mg/l	9	<.10	0.46	0.21	0.14
TOTAL KJELDAHL-N	mg/l	9	0.45	>10.00	1.83	3.07
ORGANIC N	mg/l	9	0.15	>10.00	1.67	3.14
TOTAL N	mg/l	9	0.51	>10.00	1.98	3.02
TOTAL ORTHO P-PO ₄	mg/l	7	<.01	0.06	0.02	0.02
TOTAL P-PO ₄	mg/l	9	0.01	0.10	0.04	0.03
POLY PO ₄ *	mg/l	8	<.01	0.04	0.01	0.02
BOD 5-DAY	mg/l	5	<2.0	6.3	<2.0	2.7
BOD 7-DAY	mg/l	4	<2.0	3.3	2.1	<2.0
COD-LOW	mg/l	9	12.0	86.5	34.5	29.4
TOTAL CARBON	mg/l	8	10.1	40.7	19.3	13.1
TOT INORGANIC CARBON	mg/l	8	1.6	4.7	3.1	1.0
TOTAL ORGANIC CARBON	mg/l	8	7.4	36.5	16.2	12.6
TURBIDITY	JTU	9	1.0	45.0	11.5	13.6
TOTAL SUSPENDED SOLIDS	mg/l	9	<1	1260	145	418
TOTAL DISSOLVED SOLIDS	mg/l	9	44	113	77	21
TOTAL SOLIDS	mg/l	9	61	1304	222	406
TOTAL CALCIUM(exp)	mg/l	1	6.6	6.6	6.6	
TOTAL MAGNESIUM(exp)	mg/l	1	1.3	1.3	1.3	
CHLORIDE	mg/l	9	4.1	14.0	11.0	3.6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

BATSTO RIVER PCB5

STATION LOCATION: QUAKER BRIDGE, WASHINGTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			8	4
DAY			6	17
YEAR			90	91
WEATHER	code	P00041	5	1
AIR TEMPERATURE	deg. C	---	26.0	14.5
WATER TEMPERATURE	deg. C	P00010	19.0	14.0
pH-LAB	pH	P00403	5.6	5.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	26.2	46.5
ALKALINITY AS CaCO3	mg/l	P00410	2.0	1.8
HARDNESS(exp)	mg/l	P00900		3.1
NO2+NO3-N	mg/l	P00630	0.11	0.19
NH3-N	mg/l	P00610	0.15	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.46	0.74
ORGANIC N	mg/l	P00605	0.31	0.74
TOTAL N	mg/l	P00600	0.57	0.93
TOTAL ORTHO P-PO4	mg/l	P00660	0.01	0.01
TOTAL P-PO4	mg/l	P00650	0.09	<.01
POLY PO4	mg/l	P00655	0.01	<.01
BOD 5-DAY	mg/l	P00310		<2.0
BOD 7-DAY	mg/l	P00315	<2.0	
COD-LOW	mg/l	P00335	18.2	11.5
TOTAL CARBON	mg/l	P00690	6.3	8.3
TOT INORGANIC CARBON	mg/l	P00685	1.6	1.5
TOTAL ORGANIC CARBON	mg/l	P00680	4.7	6.9
TURBIDITY	JTU	P00076	4.0	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	1	1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	14	45
TOTAL SOLIDS	mg/l	P00500	15	46
TOTAL CALCIUM(exp)	mg/l	P00916		2.72
TOTAL MAGNESIUM(exp)	mg/l	P00927		0.41
CHLORIDE	mg/l	P00940	3.0	5.2
FECAL COLIFORM	MF	P31613	250	
TOTAL COLIFORM	MF	P31504	1200	
FECAL STREPT	MF	P31673	200	

MULLICA RIVER BASIN: BATSTO RIVER

BATSTO RIVER PCB5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	3	5.4	5.8	5.6	(5.6)
SPECIFIC CONDUCTIVITY-LAB	umhos	3	26.2	46.5	39.7	11.6
ALKALINITY AS CaCO ₃	mg/l	3	1.8	2.5	2.1	<0.5
HARDNESS(exp)	mg/l	1	3.1	3.1	3.1	
NO ₂ +NO ₃ -N	mg/l	3	0.11	0.19	0.14	0.04
NH ₃ -N	mg/l	3	<.10	0.28	0.14	0.14
TOTAL KJELDAHL-N	mg/l	3	0.46	0.80	0.67	0.18
ORGANIC N	mg/l	3	0.31	0.74	0.52	0.22
TOTAL N	mg/l	3	0.57	0.93	0.80	0.20
TOTAL ORTHO P-PO ₄	mg/l	3	0.01	0.01	0.01	<.01
TOTAL P-PO ₄	mg/l	3	<.01	0.09	0.03	0.05
POLY PO ₄	mg/l	3	<.01	0.01	<.01	0.01
BOD 5-DAY	mg/l	2	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	1	<2.0	<2.0	<2.0	
COO-LOW	mg/l	3	11.5	18.2	15.9	3.8
TOTAL CARBON	mg/l	3	6.3	8.3	7.6	1.1
TOT INORGANIC CARBON	mg/l	3	1.1	1.6	1.4	0.3
TOTAL ORGANIC CARBON	mg/l	3	4.7	6.9	6.2	1.3
TURBIDITY	JTU	3	1.0	4.0	2.0	1.7
TOTAL SUSPENDED SOLIDS	mg/l	3	1	4	2	2
TOTAL DISSOLVED SOLIDS	mg/l	3	14	45	33	16
TOTAL SOLIDS	mg/l	3	15	46	35	17
TOTAL CALCIUM(exp)	mg/l	1	2.7	2.7	2.7	
TOTAL MAGNESIUM(exp)	mg/l	1	0.4	0.4	0.4	
CHLORIDE	mg/l	3	3.0	5.9	4.7	1.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: BATSTO RIVER

BATSTO RIVER D5,2

STATION LOCATION: ROUTE 542; WASHINGTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			8	4
DAY			20	17
YEAR			90	91
WEATHER	code	P00041	5	1
AIR TEMPERATURE	deg. C	---	19.0	12.5
WATER TEMPERATURE	deg. C	P00010	22.0	14.0
pH-LAB	pH	P00403	4.5	5.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	41.3	39.7
ALKALINITY AS CaCO3	mg/l	P00410		<0.5
HARDNESS(exp)	mg/l	P00900		2.4
NO2+NO3-N	mg/l	P00630	<.04	0.14
NH3-N	mg/l	P00610	<.10	0.15
TOTAL KJELDAHL-N	mg/l	P00625	0.78	0.70
ORGANIC N	mg/l	P00605	0.78	0.55
TOTAL N	mg/l	P00600	0.78	0.84
TOTAL ORTHO P-PO4	mg/l	P00660	0.02	0.01
TOTAL P-PO4	mg/l	P00650	0.02	<.01
POLY PO4	mg/l	P00655	<.01	<.01
BOD 5-DAY	mg/l	P00310		<2.0
BOD 7-DAY	mg/l	P00315	<2.0	
COD-LOW	mg/l	P00335	46.5	20.0
TOTAL CARBON	mg/l	P00690	21.5	7.4
TOT INORGANIC CARBON	mg/l	P00685	1.1	1.0
TOTAL ORGANIC CARBON	mg/l	P00680	20.4	6.4
TURBIDITY	JTU	P00076	6.0	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	6	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	66	57
TOTAL SOLIDS	mg/l	P00500	72	61
TOTAL CALCIUM(exp)	mg/l	P00916		1.92
TOTAL MAGNESIUM(exp)	mg/l	P00927		0.51
CHLORIDE	mg/l	P00940	4.7	4.2
FECAL COLIFORM	MF	P31613	100	40
TOTAL COLIFORM	MF	P31504	600	300
FECAL STREPT	MF	P31673	100	<50

MULLICA RIVER BASIN: BATSTO RIVER

BATSTO RIVER D5,2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	3.9	5.6	4.6	(4.9)
SPECIFIC CONDUCTIVITY-LAB	umhos	11	32.5	76.0	48.0	14.1
ALKALINITY AS CaCO3	mg/l	6	<0.5	2.6	0.7	1.0
HARDNESS(exp)	mg/l	1	2.4	2.4	2.4	
NO2+NO3-N	mg/l	11	<.04	0.29	0.09	0.09
NH3-N	mg/l	10	<.10	0.26	0.12	<.10
TOTAL KJELDAHL-N	mg/l	9	0.32	0.90	0.63	0.16
ORGANIC N	mg/l	8	0.21	0.78	0.52	0.19
TOTAL N	mg/l	9	0.39	0.90	0.72	0.18
TOTAL ORTHO P-PO4	mg/l	11	<.01	0.03	0.01	0.01
TOTAL P-PO4	mg/l	9	<.01	0.03	0.01	0.01
POLY PO4	mg/l	10	<.01	0.01	<.01	<.01
BOD 5-DAY	mg/l	5	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	6	<2.0	<2.0	<2.0	
COD-LOW	mg/l	11	5.5	46.5	21.1	11.8
TOTAL CARBON	mg/l	8	4.3	21.5	9.3	5.8
TOT INORGANIC CARBON	mg/l	8	0.7	2.0	1.1	0.5
TOTAL ORGANIC CARBON	mg/l	8	3.4	20.4	8.2	5.8
TURBIDITY	JTU	11	1.0	6.0	2.1	1.7
TOTAL SUSPENDED SOLIDS	mg/l	11	1	16	5	5
TOTAL DISSOLVED SOLIDS	mg/l	11	17	66	38	16
TOTAL SOLIDS	mg/l	11	18	76	43	19
TOTAL CALCIUM(exp)	mg/l	1	1.9	1.9	1.9	
TOTAL MAGNESIUM(exp)	mg/l	1	0.5	0.5	0.5	
CHLORIDE	mg/l	11	3.8	11.9	5.9	2.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

**BURLINGTON COUNTY
AND
ATLANTIC COUNTY**

MULLICA RIVER BASIN

UPPER MULLICA RIVER

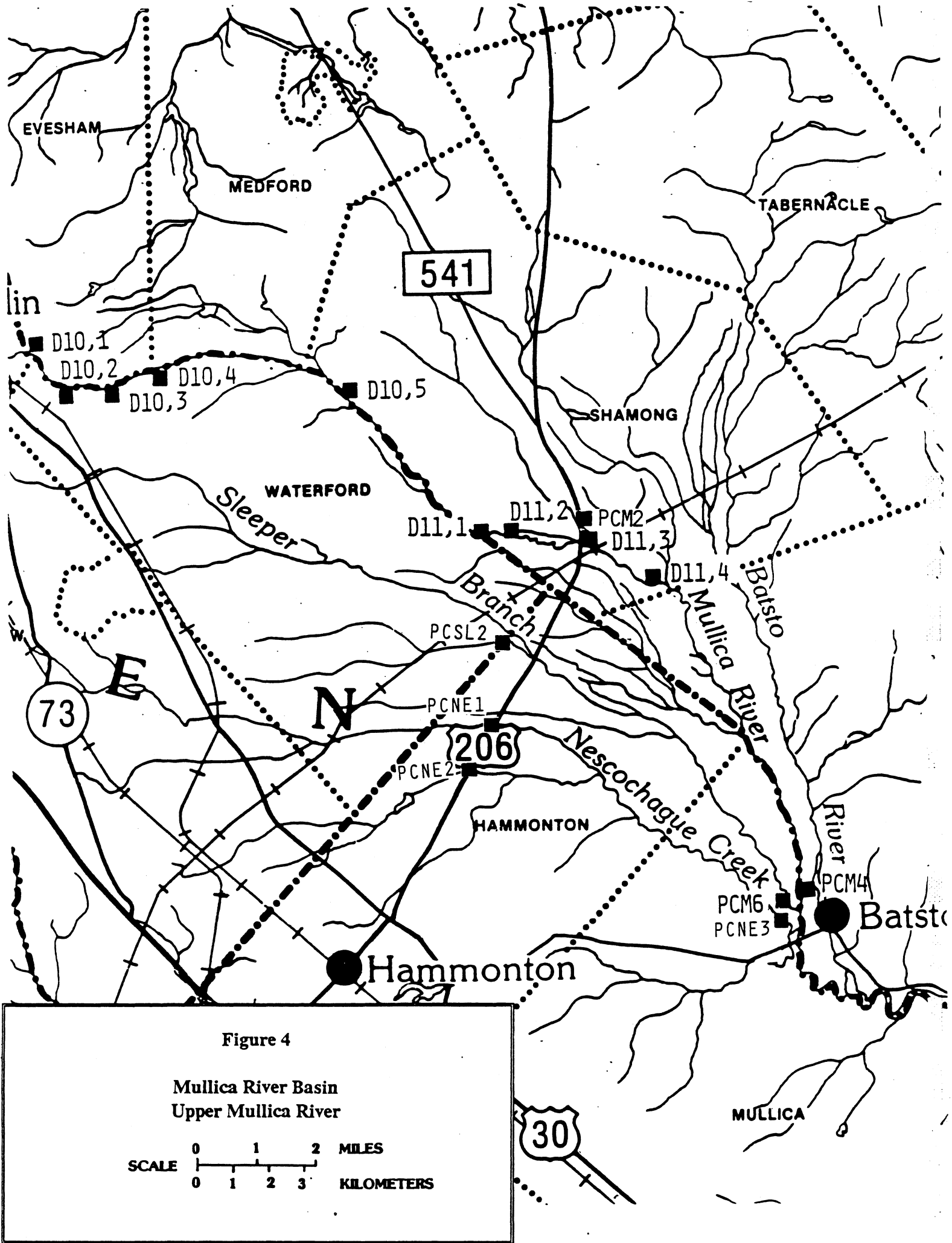


Table 12. Mullica River Basin (Upper Mullica River), Burlington Co and Atlantic Co, station names and locations

STATION NAME	STATION CODE	STATION LOCATION	CO(1)	TWP(2)	QUAD(3)

UPPER MULLICA RIVER					
MULLICA RIVER	D10,1	HOPEWELL RD	BU-CA	EV-BE-WT	13
MULLICA RIVER	D10,2	KETTLERUN RD	BU-CA	EV-WT	13
MULLICA RIVER	D10,3	MILL RD	BU-CA	EV-WT	13
MULLICA RIVER	D10,4	JACKSON-MEDFORD RD	BU-CA	ME-WT	14
MULLICA RIVER	D10,5	RT 534 (JACKSON-OAKSHADE RD)	BU-CA	SH-WT	14
MULLICA RIVER (4)	D11,1	BURNT HOUSE RD, NEAR ATSION	BU-CA	SH-WT	23
MULLICA RIVER (4)	D11,2	ATSION LAKE INLET	BU	SH	24
MULLICA RIVER	D11,3	RT 206, ATSION LAKE OUTLET	BU	SH	24
WESICKAMAN CREEK	PCM2	RT 206	BU	SH	24
MULLICA RIVER	D11,4	QUAKER BRIDGE ROAD	BU	SH	24
MULLICA RIVER	PCM4	ABOVE CONFLUENCE WITH SLEEPER BRANCH	BU-AT	WA-MU	24
CLARK BRANCH (5)	PCSL2	JOHNSON RD	CA	WT	23
SLEEPER BRANCH	PCM6	ABOVE CONFLUENCE WITH MULLICA RIVER	BU-AT	WA-MU	24
ALBERTSON BRANCH (5)	PCNE1	RT 206	AT	HM	23
GREAT SWAMP (5)	PCNE2	RT 206	AT	HM	23
NESCOHAGUE CREEK (5)	PCNE3	PLEASANT MILLS (BRIDGE NEAR CHURCH)	AT	MU	24

(1) Refer to Table 23 for county abbreviations.

(2) Refer to Table 22 for township abbreviations.

(3) Refer to Table 24 for quadrangle numbers.

(4) Site not sampled for this report, see New Jersey Surface Water Quality Data Report, December 1990.

(5) Atlantic County station.

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER D10,1

STATION LOCATION: HOPEWELL ROAD, EVESHAM TWP, BERLIN TWP, AND WATERFORD TWP BORDER, BURLINGTON CO AND CAMDEN CO

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			6
YEAR			90
WEATHER	code	P00041	5
AIR TEMPERATURE	deg. C	---	26.0
WATER TEMPERATURE	deg. C	P00010	21.0
pH-LAB	pH	P00403	7.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	175.7
ALKALINITY AS CaCO3	mg/l	P00410	16.8
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	0.60
TOTAL KJELDAHL-N	mg/l	P00625	1.20
ORGANIC N	mg/l	P00605	0.60
TOTAL N	mg/l	P00600	1.20
TOTAL ORTHO P-PO4	mg/l	P00660	0.01
TOTAL P-PO4	mg/l	P00650	0.06
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	18.0
TOTAL CARBON	mg/l	P00690	12.9
TOT INORGANIC CARBON	mg/l	P00685	5.3
TOTAL ORGANIC CARBON	mg/l	P00680	7.5
TURBIDITY	JTU	P00076	4.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	<1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	112
TOTAL SOLIDS	mg/l	P00500	112
CHLORIDE	mg/l	P00940	18.3
FECAL COLIFORM	MF	P31613	1900
TOTAL COLIFORM	MF	P31504	7400
FECAL STREPT	MF	P31673	2600

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER D10,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	12	4.9	7.6	5.7	(6.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	12	75.1	1058.9	234.9	264.3
ALKALINITY AS CaCO ₃	mg/l	12	2.7	33.3	14.8	9.6
NO ₂ +NO ₃ -N	mg/l	12	<.04	2.14	0.51	0.65
NH ₃ -N	mg/l	11	0.11	0.60	0.29	0.13
TOTAL KJELDAHL-N	mg/l	12	0.39	1.50	0.96	0.41
ORGANIC N	mg/l	11	0.24	1.10	0.64	0.33
TOTAL N	mg/l	12	0.48	3.54	1.47	0.92
TOTAL ORTHO P-PO ₄	mg/l	11	<.01	0.07	0.02	0.02
TOTAL P-PO ₄	mg/l	12	<.01	0.15	0.04	0.04
POLY PO ₄	mg/l	11	<.01	0.04	0.01	0.01
BOD 5-DAY	mg/l	5	<2.0	2.2	<2.0	<2.0
BOD 7-DAY	mg/l	7	<2.0	5.5	3.5	<2.0
COD-LOW	mg/l	12	<1.0	45.0	26.4	12.9
TOTAL CARBON	mg/l	9	8.8	22.1	14.9	4.2
TOT INORGANIC CARBON	mg/l	9	2.0	17.1	6.5	5.2
TOTAL ORGANIC CARBON	mg/l	9	3.1	16.3	8.4	4.4
TURBIDITY	JTU	12	2.0	34.0	7.3	8.9
TOTAL SUSPENDED SOLIDS	mg/l	12	<1	36	8	11
TOTAL DISSOLVED SOLIDS	mg/l	12	57	515	127	125
TOTAL SOLIDS	mg/l	12	65	535	135	128
CHLORIDE	mg/l	12	11.0	304.9	51.5	80.9

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER D10,2

STATION LOCATION: KETTLERUN ROAD, EVESHAM TWP AND WATERFORD TWP BORDER, BURLINGTON CO AND CAMDEN CO

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			6
YEAR			90
WEATHER	code	P00041	5
AIR TEMPERATURE	deg. C	---	26.0
WATER TEMPERATURE	deg. C	P00010	26.0
pH-LAB	pH	P00403	6.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	132.5
ALKALINITY AS CaCO3	mg/l	P00410	15.3
NO2+NO3-N	mg/l	P00630	0.22
NH3-N	mg/l	P00610	0.55
TOTAL KJELDAHL-N	mg/l	P00625	0.89
ORGANIC N	mg/l	P00605	0.34
TOTAL N	mg/l	P00600	1.11
TOTAL ORTHO P-PO4	mg/l	P00660	0.03
TOTAL P-PO4	mg/l	P00650	0.08
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	2.3
COD-LOW	mg/l	P00335	15.5
TOTAL CARBON	mg/l	P00690	9.8
TOT INORGANIC CARBON	mg/l	P00685	1.7
TOTAL ORGANIC CARBON	mg/l	P00680	8.1
TURBIDITY	JTU	P00076	5.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	57
TOTAL SOLIDS	mg/l	P00500	59
CHLORIDE	mg/l	P00940	22.5
FECAL COLIFORM	MF	P31613	4900
TOTAL COLIFORM	MF	P31504	11000
FECAL STREPT	MF	P31673	7400

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER D10,2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	14	4.9	7.1	5.9	(6.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	14	65.8	205.6	117.1	38.2
ALKALINITY AS CaCO ₃	mg/l	14	0.8	27.2	9.7	6.4
NO ₂ +NO ₃ -N	mg/l	14	0.15	1.25	0.74	0.36
NH ₃ -N	mg/l	14	<.10	0.55	0.23	0.16
TOTAL KJELDAHL-N	mg/l	13	0.42	1.60	0.77	0.32
ORGANIC N	mg/l	13	0.10	1.18	0.53	0.28
TOTAL N	mg/l	13	0.95	2.67	1.53	0.44
TOTAL ORTHO P-PO ₄	mg/l	14	<.01	0.03	0.01	0.01
TOTAL P-PO ₄	mg/l	14	0.01	0.08	0.03	0.02
POLY PO ₄	mg/l	14	<.01	0.01	0.01	0.01
BOD 5-DAY	mg/l	7	<2.0	8.1	2.2	3.2
BOD 7-DAY	mg/l	7	<2.0	3.5	<2.0	<2.0
COD-LOW	mg/l	14	<1.0	31.5	17.4	9.1
TOTAL CARBON	mg/l	9	6.1	15.7	10.1	3.5
TOT INORGANIC CARBON	mg/l	9	0.4	7.8	3.4	2.5
TOTAL ORGANIC CARBON	mg/l	9	2.2	9.5	6.6	2.6
TURBIDITY	JTU	14	1.4	12.0	5.6	3.9
TOTAL SUSPENDED SOLIDS	mg/l	14	<1	59	9	15
TOTAL DISSOLVED SOLIDS	mg/l	14	12	103	66	24
TOTAL SOLIDS	mg/l	14	16	162	75	33
CHLORIDE	mg/l	14	12.5	34.6	19.2	7.1

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER D10,3

STATION LOCATION: MILL ROAD, EVESHAM TWP AND WATERFORD TWP BORDER, BURLINGTON CO AND CAMDEN CO

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			6
YEAR			90
WEATHER	code	P00041	5
AIR TEMPERATURE	deg. C	---	26.0
WATER TEMPERATURE	deg. C	P00010	26.0
pH-LAB	pH	P00403	6.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	112.5
ALKALINITY AS CaCO3	mg/l	P00410	11.8
NO2+NO3-N	mg/l	P00630	0.09
NH3-N	mg/l	P00610	0.19
TOTAL KJELDAHL-N	mg/l	P00625	0.64
ORGANIC N	mg/l	P00605	0.45
TOTAL N	mg/l	P00600	0.73
TOTAL ORTHO P-PO4	mg/l	P00660	0.01
TOTAL P-PO4	mg/l	P00650	0.06
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	26.0
TOTAL CARBON	mg/l	P00690	8.3
TOT INORGANIC CARBON	mg/l	P00685	0.4
TOTAL ORGANIC CARBON	mg/l	P00680	7.9
TURBIDITY	JTU	P00076	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	6
TOTAL DISSOLVED SOLIDS	mg/l	P70300	61
TOTAL SOLIDS	mg/l	P00500	67
CHLORIDE	mg/l	P00940	20.1
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	400
FECAL STREPT	MF	P31673	<100

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER D10,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	13	5.4	7.1	6.1	(6.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	13	69.8	136.7	107.2	17.5
ALKALINITY AS CaCO3	mg/l	13	1.1	14.2	8.5	3.5
NO2+NO3-N	mg/l	13	<.04	0.98	0.49	0.32
NH3-N	mg/l	13	<.10	0.44	0.21	0.11
TOTAL KJELDAHL-N	mg/l	12	0.40	1.50	0.71	0.34
ORGANIC N	mg/l	12	0.22	1.06	0.50	0.27
TOTAL N	mg/l	12	0.60	2.12	1.23	0.44
TOTAL ORTHO P-PO4	mg/l	13	<.01	0.04	0.01	0.01
TOTAL P-PO4	mg/l	13	0.01	0.07	0.03	0.02
POLY PO4	mg/l	12	<.01	0.03	0.01	0.01
BOD 5-DAY	mg/l	7	<2.0	2.5	<2.0	<2.0
BOD 7-DAY	mg/l	6	<2.0	4.0	<2.0	<2.0
COD-LOW	mg/l	13	<1.0	32.5	19.8	9.7
TOTAL CARBON	mg/l	9	5.7	12.6	8.5	2.5
TOT INORGANIC CARBON	mg/l	9	0.4	4.3	2.0	1.5
TOTAL ORGANIC CARBON	mg/l	9	2.1	11.5	6.4	3.0
TURBIDITY	JTU	13	1.0	5.0	2.7	1.3
TOTAL SUSPENDED SOLIDS	mg/l	13	<1	6	3	3
TOTAL DISSOLVED SOLIDS	mg/l	13	21	79	58	18
TOTAL SOLIDS	mg/l	13	27	84	61	17
CHLORIDE	mg/l	13	13.2	25.1	18.2	4.0

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER D10,4

STATION LOCATION: JACKSON-MEDFORD ROAD, MEDFORD TWP AND WATERFORD TWP BORDER, BURLINGTON CO AND CAMDEN CO

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			6
YEAR			90
WEATHER	code	P00041	5
AIR TEMPERATURE	deg. C	---	26.0
WATER TEMPERATURE	deg. C	P00010	26.0
pH-LAB	pH	P00403	6.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	93.6
ALKALINITY AS CaCO3	mg/l	P00410	7.2
NO2+NO3-N	mg/l	P00630	0.22
NH3-N	mg/l	P00610	0.11
TOTAL KJELDAHL-N	mg/l	P00625	0.64
ORGANIC N	mg/l	P00605	0.53
TOTAL N	mg/l	P00600	0.86
TOTAL ORTHO P-PO4	mg/l	P00660	0.01
TOTAL P-PO4	mg/l	P00650	0.06
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	19.5
TOTAL CARBON	mg/l	P00690	8.0
TOT INORGANIC CARBON	mg/l	P00685	0.4
TOTAL ORGANIC CARBON	mg/l	P00680	7.7
TURBIDITY	JTU	P00076	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	56
TOTAL SOLIDS	mg/l	P00500	57
CHLORIDE	mg/l	P00940	15.2
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	1200
FECAL STREPT	MF	P31673	<100

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER D10,4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	13	5.2	6.9	6.0	(6.5)
SPECIFIC CONDUCTIVITY-LAB	umhos	13	63.6	117.7	90.7	15.4
ALKALINITY AS CaCO3	mg/l	13	2.7	10.1	6.0	2.1
NO2+NO3-N	mg/l	13	0.15	1.04	0.56	0.28
NH3-N	mg/l	13	<.10	0.25	0.14	<.10
TOTAL KJELDAHL-N	mg/l	13	0.34	1.10	0.62	0.25
ORGANIC N	mg/l	13	0.23	0.86	0.47	0.22
TOTAL N	mg/l	13	0.76	2.13	1.17	0.40
TOTAL ORTHO P-PO4	mg/l	13	<.01	0.07	0.01	0.02
TOTAL P-PO4	mg/l	13	<.01	0.12	0.03	0.03
POLY PO4	mg/l	12	<.01	0.03	0.01	0.01
BOD 5-DAY	mg/l	6	<2.0	2.2	<2.0	<2.0
BOD 7-DAY	mg/l	7	<2.0	2.3	<2.0	<2.0
COD-LOW	mg/l	13	<1.0	33.0	21.3	9.3
TOTAL CARBON	mg/l	9	5.5	14.4	8.9	2.8
TOT INORGANIC CARBON	mg/l	9	0.3	7.5	1.8	2.2
TOTAL ORGANIC CARBON	mg/l	9	2.0	13.3	7.1	3.3
TURBIDITY	JTU	13	1.0	4.5	2.4	1.1
TOTAL SUSPENDED SOLIDS	mg/l	13	<1	8	3	2
TOTAL DISSOLVED SOLIDS	mg/l	13	32	76	56	14
TOTAL SOLIDS	mg/l	13	36	79	58	13
CHLORIDE	mg/l	13	9.6	19.3	14.0	2.8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER D10,5

STATION LOCATION: ROUTE 534 (JACKSON-OAKSHADE ROAD), SHAMONG TWP AND WATERFORD TWP BORDER, BURLINGTON CO AND CAMDEN CO

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			8	4
DAY			6	22
YEAR			90	91
WEATHER	code	P00041	5	1
AIR TEMPERATURE	deg. C	---	26.0	
WATER TEMPERATURE	deg. C	P00010	21.0	
pH-LAB	pH	P00403	4.3	4.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	52.4	41.9
ALKALINITY AS CaCO3	mg/l	P00410		
HARDNESS(exp)	mg/l	P00900		1.9
NO2+NO3-N	mg/l	P00630	<.04	<.04
NH3-N	mg/l	P00610	0.30	<.10
TOTAL KJELDAHL-N	mg/l	P00625	1.50	0.49
ORGANIC N	mg/l	P00605	1.20	0.49
TOTAL N	mg/l	P00600	1.50	0.49
TOTAL ORTHO P-PO4	mg/l	P00660	0.07	0.03
TOTAL P-PO4	mg/l	P00650	0.09	0.03
POLY PO4	mg/l	P00655	<.01	0.01
BOD 5-DAY	mg/l	P00310		
BOD 7-DAY	mg/l	P00315	2.1	<2.0
COD-LOW	mg/l	P00335	110.0	38.5
TOTAL CARBON	mg/l	P00690	46.0	13.8
TOT INORGANIC CARBON	mg/l	P00685	2.5	1.3
TOTAL ORGANIC CARBON	mg/l	P00680	43.5	12.5
TURBIDITY	JTU	P00076	46.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	10	<1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	56	17
TOTAL SOLIDS	mg/l	P00500	66	17
TOTAL CALCIUM(exp)	mg/l	P00916		1.3
TOTAL MAGNESIUM(exp)	mg/l	P00927		0.7
CHLORIDE	mg/l	P00940	5.3	4.7
FECAL COLIFORM	MF	P31613	2500	60
TOTAL COLIFORM	MF	P31504	5500	300
FECAL STREPT	MF	P31673	<200	100

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER D10,5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	14	3.3	4.4	4.0	(4.3)
SPECIFIC CONDUCTIVITY-LAB	umhos	14	40.9	96.1	55.9	16.5
ALKALINITY AS CaCO ₃	mg/l	1	<0.5	<0.5	<0.5	
HARDNESS(exp)	mg/l	1	1.9	1.9	1.9	
NO ₂ +NO ₃ -N	mg/l	14	<.04	0.07	<.04	<.04
NH ₃ -N	mg/l	14	<.10	0.38	0.16	0.12
TOTAL KJELDAHL-N	mg/l	13	0.27	2.25	0.83	0.56
ORGANIC N	mg/l	13	0.14	2.00	0.68	0.51
TOTAL N	mg/l	13	0.30	2.25	0.84	0.55
TOTAL ORTHO P-PO ₄	mg/l	14	<.01	0.07	0.02	0.02
TOTAL P-PO ₄	mg/l	14	<.01	0.09	0.03	0.02
POLY PO ₄	mg/l	12	<.01	0.03	0.01	0.01
BOD 5-DAY	mg/l	6	<2.0	2.0	<2.0	<2.0
BOD 7-DAY	mg/l	8	<2.0	2.7	<2.0	<2.0
COD-LOW	mg/l	14	9.0	148.5	49.8	43.0
TOTAL CARBON	mg/l	10	9.0	73.9	25.2	23.0
TOT INORGANIC CARBON	mg/l	10	1.0	4.2	2.3	1.1
TOTAL ORGANIC CARBON	mg/l	10	6.8	70.0	23.0	22.1
TURBIDITY	JTU	14	<1.0	46.0	5.8	11.9
TOTAL SUSPENDED SOLIDS	mg/l	14	<1	70	10	19
TOTAL DISSOLVED SOLIDS	mg/l	14	5	136	48	36
TOTAL SOLIDS	mg/l	14	17	166	58	40
TOTAL CALCIUM(exp)	mg/l	1	1.3	1.3	1.3	
TOTAL MAGNESIUM(exp)	mg/l	1	0.7	0.7	0.7	
CHLORIDE	mg/l	14	4.1	9.5	6.1	1.6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER AT ATSION LAKE OUTLET D11,3

STATION LOCATION: ROUTE 206, SHAMONG TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE		
MONTH			8	1	4
DAY			6	2	17
YEAR			90	91	91
WEATHER	code	P00041	5	0	1
AIR TEMPERATURE	deg. C	---	26.0	4.0	15.0
WATER TEMPERATURE	deg. C	P00010	26.0	4.0	14.0
pH-LAB	pH	P00403	4.9	4.6	4.6
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	35.7	46.2	38.1
ALKALINITY AS CaCO3	mg/l	P00410	<0.5	<0.5	1.0
HARDNESS(exp)	mg/l	P00900			1.5
NO2+NO3-N	mg/l	P00630	0.12	0.06	0.08
NH3-N	mg/l	P00610	0.17	<.10	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.76	0.25	0.74
ORGANIC N	mg/l	P00605	0.60	0.25	0.74
TOTAL N	mg/l	P00600	0.88	0.31	0.82
TOTAL ORTHO P-PO4	mg/l	P00660	0.03	0.01	0.01
TOTAL P-PO4	mg/l	P00650	0.08	0.02	0.02
POLY-PO4	mg/l	P00655	0.02	<.01	0.01
BOD 5-DAY	mg/l	P00310		<2.0	<2.0
BOD 7-DAY	mg/l	P00315	<2.0		
COD-LOW	mg/l	P00335	47.0	15.0	15.5
TOTAL CARBON	mg/l	P00690	16.9	7.7	8.0
TOT INORGANIC CARBON	mg/l	P00685	0.5	1.1	0.5
TOTAL ORGANIC CARBON	mg/l	P00680	16.4	6.6	7.5
TURBIDITY	JTU	P00076	10.0	1.1	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	4	6	3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	46	45	25
TOTAL SOLIDS	mg/l	P00500	50	51	28
TOTAL CALCIUM(exp)	mg/l	P00916			1.1
TOTAL MAGNESIUM(exp)	mg/l	P00927			0.4
CHLORIDE	mg/l	P00940	3.9	4.8	4.0
FECAL COLIFORM	MF	P31613	50	50	<20
TOTAL COLIFORM	MF	P31504	200	600	<100
FECAL STREPT	MF	P31673	<100	100	<50

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER AT ATSION LAKE OUTLET D11,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	15	3.7	6.6	4.4	(4.6)
SPECIFIC CONDUCTIVITY-LAB	umhos	15	25.1	50.6	39.3	7.1
ALKALINITY AS CaCO3	mg/l	8	<0.5	5.4	1.2	1.8
HARDNESS(exp)	mg/l	1	1.5	1.5	1.5	
NO2+NO3-N	mg/l	15	<.04	0.16	0.07	0.06
NH3-N	mg/l	15	<.10	0.24	0.10	0.10
TOTAL KJELDAHL-N	mg/l	14	0.25	2.10	0.70	0.49
ORGANIC N	mg/l	14	0.25	1.89	0.61	0.44
TOTAL N	mg/l	14	0.31	2.19	0.77	0.49
TOTAL ORTHO P-PO4	mg/l	15	<.01	0.03	0.01	0.01
TOTAL P-PO4	mg/l	15	<.01	0.13	0.03	0.04
POLY PO4	mg/l	15	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	10	<2.0	4.0	<2.0	<2.0
BOD 7-DAY	mg/l	5	<2.0	<2.0	<2.0	
COD-LOW	mg/l	15	<1.0	62.0	25.8	16.9
TOTAL CARBON	mg/l	12	2.9	23.0	11.3	6.5
TOT INORGANIC CARBON	mg/l	12	0.3	5.0	1.1	1.3
TOTAL ORGANIC CARBON	mg/l	12	2.4	22.0	10.2	5.9
TURBIDITY	JTU	15	<1.0	12.0	3.7	3.5
TOTAL SUSPENDED SOLIDS	mg/l	15	<1	16	5	5
TOTAL DISSOLVED SOLIDS	mg/l	14	23	57	37	11
TOTAL SOLIDS	mg/l	14	28	73	42	14
TOTAL CALCIUM(exp)	mg/l	1	1.1	1.1	1.1	
TOTAL MAGNESIUM(exp)	mg/l	1	0.4	0.4	0.4	
CHLORIDE	mg/l	15	2.8	7.0	4.5	1.0

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: UPPER MULLICA RIVER

WESICKAMAN CREEK PCM2

STATION LOCATION: ROUTE 206, SHAMONG TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			4
DAY			17
YEAR			91
WEATHER	code	P00041	1
AIR TEMPERATURE	deg. C	---	14.5
WATER TEMPERATURE	deg. C	P00010	13.5
pH-LAB	pH	P00403	4.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	55.3
ALKALINITY AS CaCO3	mg/l	P00315	
HARDNESS(exp)	mg/l	P00900	2.6
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	1.10
ORGANIC N	mg/l	P00605	1.10
TOTAL N	mg/l	P00600	1.10
TOTAL ORTHO P-PO4	mg/l	P00660	
TOTAL P-PO4	mg/l	P00650	0.03
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	48.5
TOTAL CARBON	mg/l	P00690	20.9
TOT INORGANIC CARBON	mg/l	P00685	1.4
TOTAL ORGANIC CARBON	mg/l	P00680	19.6
TURBIDITY	JTU	P00076	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	57
TOTAL SOLIDS	mg/l	P00500	58
TOTAL CALCIUM(exp)	mg/l	P00916	1.9
TOTAL MAGNESIUM(exp)	mg/l	P00927	0.7
CHLORIDE	mg/l	P00940	6.7

MULLICA RIVER BASIN: UPPER MULLICA RIVER

WESICKAMAN CREEK PCM2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	2	4.5	6.2	4.8	(4.8)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	52.8	55.3	54.0	1.7
ALKALINITY AS CaCO ₃	mg/l	1	3.8	3.8	3.8	
HARDNESS(exp)	mg/l	1	2.6	2.6	2.6	
NO ₂ +NO ₃ -N	mg/l	2	<.04	0.63	0.31	0.44
NH ₃ -N	mg/l	2	<.10	<.10	<.10	
TOTAL KJELDAHL-N	mg/l	1	1.10	1.10	1.10	
ORGANIC N	mg/l	1	1.10	1.10	1.10	
TOTAL N	mg/l	1	1.10	1.10	1.10	
TOTAL ORTHO P-PO ₄	mg/l	1	0.01	0.01	0.01	
TOTAL P-PO ₄	mg/l	2	0.01	0.03	0.02	0.01
POLY PO ₄	mg/l	2	<.01	<.01	<.01	
BOD 5-DAY	mg/l	1	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	1	<2.0	<2.0	<2.0	
COD-LOW	mg/l	2	20.5	48.5	34.5	19.8
TOTAL CARBON	mg/l	2	8.1	20.9	14.5	9.1
TOT INORGANIC CARBON	mg/l	2	0.8	1.4	1.1	0.4
TOTAL ORGANIC CARBON	mg/l	2	7.4	19.6	13.5	8.6
TURBIDITY	JTU	2	<1.0	<1.0	<1.0	
TOTAL SUSPENDED SOLIDS	mg/l	2	<1	1	1	1
TOTAL DISSOLVED SOLIDS	mg/l	2	43	57	50	10
TOTAL SOLIDS	mg/l	2	43	58	51	11
TOTAL CALCIUM(exp)	mg/l	1	1.9	1.9	1.9	
TOTAL MAGNESIUM(exp)	mg/l	1	0.7	0.7	0.7	
CHLORIDE	mg/l	2	6.7	8.0	7.3	0.9

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER D11,4

STATION LOCATION: QUAKER BRIDGE ROAD, SHAMONG TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			6
YEAR			90
WEATHER	code	P00041	5
AIR TEMPERATURE	deg. C	---	26.0
WATER TEMPERATURE	deg. C	P00010	21.0
pH-LAB	pH	P00403	5.6
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	74.8
ALKALINITY AS CaCO3	mg/l	P00410	2.4
NO2+NO3-N	mg/l	P00630	0.31
NH3-N	mg/l	P00610	0.22
TOTAL KJELDAHL-N	mg/l	P00625	0.94
ORGANIC N	mg/l	P00605	0.72
TOTAL N	mg/l	P00600	1.25
TOTAL ORTHO P-PO4	mg/l	P00660	0.06
TOTAL P-PO4	mg/l	P00650	0.13
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	2.1
COD-LOW	mg/l	P00335	42.5
TOTAL CARBON	mg/l	P00690	12.0
TOT INORGANIC CARBON	mg/l	P00685	2.1
TOTAL ORGANIC CARBON	mg/l	P00680	9.9
TURBIDITY	JTU	P00076	30.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	13
TOTAL DISSOLVED SOLIDS	mg/l	P70300	65
TOTAL SOLIDS	mg/l	P00500	78
CHLORIDE	mg/l	P00940	8.2
FECAL COLIFORM	MF	P31613	1000
TOTAL COLIFORM	MF	P31504	4500
FECAL STREPT	MF	P31673	1600

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER D11,4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	3.3	6.2	4.2	(5.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	27.7	76.3	52.1	16.8
ALKALINITY AS CaCO3	mg/l	7	<0.5	8.6	2.5	3.1
NO2+NO3-N	mg/l	10	<.04	0.31	0.09	0.09
NH3-N	mg/l	10	<.10	0.34	0.15	0.11
TOTAL KJELDAHL-N	mg/l	9	0.35	1.70	0.91	0.48
ORGANIC N	mg/l	9	0.35	1.48	0.76	0.39
TOTAL N	mg/l	9	0.35	1.77	1.00	0.50
TOTAL ORTHO P-PO4	mg/l	10	<.01	0.06	0.01	0.02
TOTAL P-PO4	mg/l	10	<.01	0.13	0.03	0.04
POLY PO4	mg/l	10	<.01	0.02	<.01	0.01
BOD 5-DAY	mg/l	6	<2.0	<2.0	<2.0	<2.0
BOD 7-DAY	mg/l	4	<2.0	2.1	<2.0	<2.0
COD-LOW	mg/l	10	2.2	45.0	25.7	15.0
TOTAL CARBON	mg/l	10	3.1	29.0	11.0	7.2
TOT INORGANIC CARBON	mg/l	10	1.2	3.4	1.9	0.8
TOTAL ORGANIC CARBON	mg/l	10	1.6	25.7	9.1	6.7
TURBIDITY	JTU	10	1.1	30.0	7.0	9.0
TOTAL SUSPENDED SOLIDS	mg/l	10	1	13	5	4
TOTAL DISSOLVED SOLIDS	mg/l	9	31	92	48	20
TOTAL SOLIDS	mg/l	9	32	100	53	23
CHLORIDE	mg/l	10	3.6	10.2	6.3	2.4

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER PCM4

STATION LOCATION: ABOVE CONFLUENCE WITH SLEEPER BRANCH, WASHINGTON TWP AND MULLICA TWP BORDER, BURLINGTON CO AND ATLANTIC CO

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
MONTH			9	11	3	4
DAY			17	26	6	17
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	1	1
AIR TEMPERATURE	deg. C	---	13.5	7.5	15.0	12.5
WATER TEMPERATURE	deg. C	P00010	17.5	8.0	8.5	15.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	7.7	10.4	10.1	
pH-FIELD	pH	P00403	4.9	5.7	4.4	
pH-LAB	pH	P00403	5.2	6.0	4.5	4.8
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	29.0	42.0	32.0	
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	38.3	40.1	45.7	40.9
HARDNESS(exp)	mg/l	P00900	1.6	1.8	1.9	1.7
NO2+NO3-N	mg/l	P00630	0.05	0.13	0.05	<.04
NH3-N	mg/l	P00610	0.13	0.38	0.19	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.52	0.53	0.64	0.96
ORGANIC N	mg/l	P00605	0.40	0.15	0.45	0.96
TOTAL N	mg/l	P00600	0.57	0.66	0.69	0.96
TOTAL ORTHO P-PO4	mg/l	P00660	0.02	0.01	0.01	0.02
TOTAL P-PO4	mg/l	P00650	0.01	0.01	0.01	0.01
POLY PO4	mg/l	P00655	<.01	<.01	<.01	<.01
BOD 5-DAY	mg/l	P00310			<2.0	<2.0
BOD 7-DAY	mg/l	P00315	<2.0	<2.0		
COD-LOW	mg/l	P00335	40.5	3.2	49.7	22.5
TOTAL CARBON	mg/l	P00690	15.3	6.3	8.6	10.4
TOT INORGANIC CARBON	mg/l	P00685	1.1	5.1	0.9	1.1
TOTAL ORGANIC CARBON	mg/l	P00680	14.3	1.2	7.6	9.3
TURBIDITY	JTU	P00076	7.0	2.3	1.0	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	15	4	2	7
TOTAL DISSOLVED SOLIDS	mg/l	P70300	33	40	49	31
TOTAL SOLIDS	mg/l	P00500	48	44	51	38
TOTAL CALCIUM(exp)	mg/l	P00916	1.0	1.6	1.4	1.3
TOTAL MAGNESIUM(exp)	mg/l	P00927	0.6	0.2	0.4	0.4
CHLORIDE	mg/l	P00940	4.7	5.8	5.5	5.1
FECAL COLIFORM	MF	P31613	60	<20	20	
TOTAL COLIFORM	MF	P31504	500	<100	100	
FECAL STREPT	MF	P31673	700	<50	<50	

MULLICA RIVER BASIN: UPPER MULLICA RIVER

MULLICA RIVER PCM4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	12	6.1	13.3	9.5	2.7
pH-FIELD	pH	10	4.4	5.7	4.7	(4.8)
pH-LAB	pH	13	3.8	6.0	4.5	(4.7)
SPECIFIC CONDUCTIVITY-FIELD	umhos	11	20.0	43.0	34.0	7.1
SPECIFIC CONDUCTIVITY-LAB	umhos	13	29.8	68.6	43.6	10.1
HARDNESS(exp)	mg/l	10	1.4	3.8	2.2	0.7
NO2+NO3-N	mg/l	13	<.04	0.21	0.06	0.07
NH3-N	mg/l	13	<.10	0.38	0.19	0.12
TOTAL KJELDAHL-N	mg/l	11	0.42	1.30	0.72	0.25
ORGANIC N	mg/l	11	0.15	1.05	0.53	0.27
TOTAL N	mg/l	11	0.51	1.36	0.78	0.23
TOTAL ORTHO P-PO4	mg/l	13	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	13	<.01	0.10	0.02	0.03
POLY PO4	mg/l	13	<.01	0.03	<.01	0.01
BOD 5-DAY	mg/l	5	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	8	<2.0	<2.0	<2.0	
COD-LOW	mg/l	13	<1.0	56.5	26.9	17.5
TOTAL CARBON	mg/l	13	6.1	25.1	11.6	5.9
TOT INORGANIC CARBON	mg/l	13	0.6	5.1	1.5	1.1
TOTAL ORGANIC CARBON	mg/l	13	1.2	23.9	10.1	6.3
TURBIDITY	JTU	13	1.0	7.0	2.7	2.0
TOTAL SUSPENDED SOLIDS	mg/l	13	<1	25	8	7
TOTAL DISSOLVED SOLIDS	mg/l	13	25	139	45	30
TOTAL SOLIDS	mg/l	13	25	144	53	30
TOTAL CALCIUM(exp)	mg/l	10	0.8	2.8	1.4	0.5
TOTAL MAGNESIUM(exp)	mg/l	10	0.2	1.4	0.8	0.5
CHLORIDE	mg/l	13	4.1	6.8	5.4	0.7

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN

CLARK BRANCH PCSL2

STATION LOCATION: JOHNSON ROAD, HAMMONTON TOWNSHIP, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			11	6
YEAR			91	91
WEATHER	code	P00041	0	2
WATER TEMPERATURE	deg. C	P00010	4.0	15.5
DISSOLVED OXYGEN	mg/l	P00299	11.1	6.9
PH-FIELD	pH	P00400	4.4	4.6
PH-LAB	pH	P00403	4.7	
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	38.0	41.0
ALKALINITY	mg/l	P00410	0.5	4.2
HARDNESS	mg/l	P00900	18	11
SULFATE(tot)	mg/l	P00945	8.8	6.4
NO2-N	mg/l	P00615	<0.50	<0.10
NO2+NO3-N	mg/l	P00630	0.20	<0.10
NH3-N	mg/l	P00610	<0.10	<0.10
TOTAL KJELDAHL-N	mg/l	P00625	0.21	4.20
ORGANIC N	mg/l	P00605	0.21	4.20
NO3-N	mg/l	P00620	0.20	<0.10
TOTAL N	mg/l	P00600	0.41	4.20
TOTAL ORTHO P AS P	mg/l	P70507	0.01	0.02
TOTAL P AS P	mg/l	P00665	0.01	0.03
TURBIDITY	JTU	P00076	0.7	2.3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	<25	42

MULLICA RIVER BASIN

CLARK BRANCH PCSL2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	6.9	11.1	9.0	3.0
PH-FIELD	pH	2	4.4	4.6	4.5	(4.5)
PH-LAB	pH	1	4.7	4.7	4.7	(4.7)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	38.0	41.0	39.5	2.1
ALKALINITY	mg/l	2	0.5	4.2	2.4	2.6
HARDNESS	mg/l	2	11	18	15	5
SULFATE(tot)	mg/l	2	6.4	8.8	7.6	1.7
NO2-N	mg/l	2	<0.10	<0.50		
NO2+NO3-N	mg/l	2	<0.10	0.20	0.10	0.14
NH3+NH4-N	mg/l	2	<0.10	<0.10	<0.10	
TOTAL KJELDAHL-N	mg/l	2	0.21	4.20	2.21	2.82
ORGANIC N	mg/l	2	0.12	4.20	2.16	2.88
NO3-N	mg/l	2	<0.10	0.20	0.10	0.14
TOTAL N	mg/l	2	0.41	4.20	2.31	2.68
TOTAL ORTHO P AS P	mg/l	2	0.01	0.02	0.02	0.01
TOTAL P AS P	mg/l	2	0.01	0.03	0.02	0.01
TURBIDITY	JTU	2	0.7	2.3	1.5	1.1
TOTAL DISSOLVED SOLIDS	mg/l	2	<25	42	<25	30

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: UPPER MULLICA RIVER

SLEEPER BRANCH PCM6

STATION LOCATION: ABOVE CONFLUENCE WITH MULLICA RIVER, WASHINGTON TWP AND MULLICA TWP BORDER, BURLINGTON CO AND ATLANTIC CO

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
MONTH			9	11	3	4
DAY			17	26	6	17
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	1	1
AIR TEMPERATURE	deg. C	---	13.5	7.5	15.0	12.5
WATER TEMPERATURE	deg. C	P00010	17.0	7.0	8.0	13.5
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	6.1	9.2	9.5	
DISSOLVED OXYGEN (WINKLER)	mg/l	P00299				
pH-FIELD	pH	P00403	4.4	4.3	4.1	
pH-LAB	pH	P00403	4.4	4.4	4.3	4.3
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	40.0	35.0	39.0	
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	52.3	54.1	52.6	48.7
HARDNESS(exp)	mg/l	P00900	1.7	1.5	1.4	1.6
NO2+NO3-N	mg/l	P00630	<.04	<.04	<.04	<.04
NH3-N	mg/l	P00610	0.12	0.18	0.24	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.52	0.66	0.78	0.99
ORGANIC N	mg/l	P00605	0.40	0.48	0.54	0.99
TOTAL-N	mg/l	P00600	0.52	0.66	0.78	0.99
TOTAL ORTHO P-PO4	mg/l	P00660	0.03		0.02	0.02
TOTAL P-PO4	mg/l	P00650	0.02	<.01	0.02	0.01
POLY PO4	mg/l	P00655	<.01	<.01	<.01	<.01
BOD 5-DAY	mg/l	P00310			<2.0	<2.0
BOD 7-DAY	mg/l	P00315	<2.0	<2.0		
COD-LOW	mg/l	P00335	55.0	18.2	59.7	35.5
TOTAL CARBON	mg/l	P00690	22.5	11.1	12.2	16.0
TOT INORGANIC CARBON	mg/l	P00685	1.8		1.3	1.2
TOTAL ORGANIC CARBON	mg/l	P00680	20.7		10.9	14.8
TURBIDITY	JTU	P00076	1.0	1.3	1.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	1	2	3	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	33	48	58	44
TOTAL SOLIDS	mg/l	P00500	34	50	61	46
TOTAL CALCIUM(exp)	mg/l	P00916	1.0	1.4	1.3	1.1
TOTAL MAGNESIUM(exp)	mg/l	P00927	0.7	0.1	0.1	0.5
CHLORIDE	mg/l	P00940	6.7	7.0	4.6	5.4
FECAL COLIFORM	MF	P31613		<20	<20	
TOTAL COLIFORM	MF	P31504		300	100	
FECAL STREPT	MF	P31673		<50	50	

MULLICA RIVER BASIN: UPPER MULLICA RIVER

SLEEPER BRANCH PCM6

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	12	3.4	12.5	8.1	3.1
DISSOLVED OXYGEN (WINKLER)	mg/l	1	4.9	4.9	4.9	
pH-FIELD	pH	10	4.1	4.4	4.2	(4.3)
pH-LAB	pH	13	3.4	4.5	4.0	(4.3)
SPECIFIC CONDUCTIVITY-FIELD	umhos	11	30.0	55.0	43.1	8.5
SPECIFIC CONDUCTIVITY-LAB	umhos	13	45.8	82.3	55.2	10.2
HARDNESS(exp)	mg/l	10	1.4	2.8	2.0	0.5
NO2+NO3-N	mg/l	13	<.04	<.04	<.04	
NH3-N	mg/l	13	<.10	0.34	0.14	0.11
TOTAL KJELDAHL-N	mg/l	11	0.44	1.40	0.84	0.30
ORGANIC N	mg/l	11	0.28	1.19	0.69	0.30
TOTAL N	mg/l	11	0.44	1.40	0.84	0.30
TOTAL ORTHO P-PO4	mg/l	11	<.01	0.03	0.01	0.01
TOTAL P-PO4	mg/l	13	<.01	0.12	0.02	0.03
POLY PO4	mg/l	12	<.01	0.03	<.01	0.01
BOD 5-DAY	mg/l	5	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	8	<2.0	2.1	<2.0	<2.0
COD-LOW	mg/l	13	9.0	99.5	42.5	25.5
TOTAL CARBON	mg/l	13	10.6	39.9	19.2	8.9
TOT INORGANIC CARBON	mg/l	12	1.2	2.6	1.7	0.4
TOTAL ORGANIC CARBON	mg/l	12	8.7	37.4	18.2	8.7
TURBIDITY	JTU	13	<1.0	1.5	<1.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	13	<1	5	2	1
TOTAL DISSOLVED SOLIDS	mg/l	13	33	104	58	20
TOTAL SOLIDS	mg/l	13	34	109	60	21
TOTAL CALCIUM(exp)	mg/l	10	1.0	2.0	1.3	0.3
TOTAL MAGNESIUM(exp)	mg/l	10	0.1	1.6	0.7	0.5
CHLORIDE	mg/l	13	4.6	7.3	6.2	0.9

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN

ALBERTSON BRANCH PCNE1

STATION LOCATION: ROUTE 206, HAMMONTON TOWNSHIP, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			11	6
YEAR			91	91
WEATHER	code	P00041	0	2
WATER TEMPERATURE	deg. C	P00010	5.0	16.5
DISSOLVED OXYGEN	mg/l	P00299	11.2	8.0
PH-FIELD	pH	P00400	5.3	5.9
PH-LAB	pH	P00403	5.3	6.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	40.0	50.0
ALKALINITY	mg/l	P00410	1.0	6.1
HARDNESS	mg/l	P00900	14	16
SULFATE(tot)	mg/l	P00945	8.2	6.4
NO2-N	mg/l	P00615	<0.50	<0.10
NO2+NO3-N	mg/l	P00630	0.86	<0.10
NH3-N	mg/l	P00610	0.05	0.10
TOTAL KJELDAHL-N	mg/l	P00625	0.55	3.40
ORGANIC N	mg/l	P00605	0.50	3.30
NO3-N	mg/l	P00620	0.86	<0.10
TOTAL N	mg/l	P00600	1.41	3.40
TOTAL ORTHO P AS P	mg/l	P70507	<.01	0.04
TOTAL P AS P	mg/l	P00665	<.01	0.03
TURBIDITY	JTU	P00076	1.6	2.3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	30	44

MULLICA RIVER BASIN

ALBERTSON BRANCH PCNE1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	8.0	11.2	9.6	2.3
PH-FIELD	pH	2	5.3	5.9	5.5	(5.5)
PH-LAB	pH	2	5.3	6.5	5.6	(5.6)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	40.0	50.0	45.0	7.1
ALKALINITY	mg/l	2	1.0	6.1	3.6	3.6
HARDNESS	mg/l	2	14	16	15	1
SULFATE(tot)	mg/l	2	6.4	8.2	7.3	1.3
NO2-N	mg/l	2	<0.10	<0.50		
NO2+NO3-N	mg/l	2	<0.10	0.86	0.43	0.61
NH3+NH4-N	mg/l	2	0.05	0.10	0.08	0.04
TOTAL KJELDAHL-N	mg/l	2	0.55	3.40	1.98	2.02
ORGANIC N	mg/l	2	0.50	3.30	1.90	1.98
NO3-N	mg/l	2	<0.10	0.86	0.43	0.61
TOTAL N	mg/l	2	1.41	3.40	2.41	1.41
TOTAL ORTHO P AS P	mg/l	2	<.01	0.04	0.02	0.03
TOTAL P AS P	mg/l	2	<.01	0.03	0.02	0.02
TURBIDITY	JTU	2	1.6	2.3	2.0	0.5
TOTAL DISSOLVED SOLIDS	mg/l	2	30	44	37	10

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN

GREAT SWAMP PCNEZ

STATION LOCATION: ROUTE 206, HAMMONTON TOWNSHIP, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			11	6
YEAR			91	91
WEATHER	code	P00041	0	2
WATER TEMPERATURE	deg. C	P00010	5.5	17.0
DISSOLVED OXYGEN	mg/l	P00299	10.6	6.9
PH-FIELD	pH	P00400	6.2	5.9
PH-LAB	pH	P00403	5.6	6.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	78.0	90.0
ALKALINITY	mg/l	P00410	2.4	7.3
HARDNESS	mg/l	P00900	38	36
SULFATE(tot)	mg/l	P00945	26.8	15.4
NO2-N	mg/l	P00615	<0.50	<0.10
NO2+NO3-N	mg/l	P00630	2.12	<0.10
NH3-N	mg/l	P00610	0.02	0.81
TOTAL KJELDAHL-N	mg/l	P00625	1.06	4.80
ORGANIC N	mg/l	P00605	1.04	3.99
NO3-N	mg/l	P00620	2.12	<0.10
TOTAL N	mg/l	P00600	3.18	4.80
TOTAL ORTHO P AS P	mg/l	P70507	<.01	0.10
TOTAL P AS P	mg/l	P00665	<.01	0.30
TURBIDITY	JTU	P00076	2.2	3.6
TOTAL DISSOLVED SOLIDS	mg/l	P70300	47	72

MULLICA RIVER BASIN

GREAT SWAMP PCNE2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	6.9	10.6	8.8	2.6
PH-FIELD	pH	2	5.9	6.2	6.0	(6.0)
PH-LAB	pH	2	5.6	6.3	5.8	(5.8)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	78.0	90.0	84.0	8.5
ALKALINITY	mg/l	2	2.4	7.3	4.9	3.5
HARDNESS	mg/l	2	36	38	37	1
SULFATE(tot)	mg/l	2	15.4	26.8	21.1	8.1
NO2-N	mg/l	2	<0.10	<0.50		
NO2+NO3-N	mg/l	2	<0.10	2.12	1.06	1.50
NH3+NH4-N	mg/l	2	0.02	0.81	0.42	0.56
TOTAL KJELDAHL-N	mg/l	2	1.06	4.80	2.93	2.64
ORGANIC N	mg/l	2	1.04	3.99	2.52	2.09
NO3-N	mg/l	2	<0.10	2.12	1.06	1.50
TOTAL N	mg/l	2	3.18	4.80	3.99	1.15
TOTAL ORTHO P AS P	mg/l	2	<.01	0.10	0.05	0.07
TOTAL P AS P	mg/l	2	<.01	0.30	0.15	0.21
TURBIDITY	JTU	2	2.2	3.6	2.9	1.0
TOTAL DISSOLVED SOLIDS	mg/l	2	47	72	60	18

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN

NESCOHAGUE CREEK PCNE3.

STATION LOCATION: PLEASANT MILLS (BRIDGE NEAR CHURCH), MULLICA TOWNSHIP, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			11	6
YEAR			91	91
WEATHER	code	P00041	0	6
WATER TEMPERATURE	deg. C	P00010	5.0	17.0
DISSOLVED OXYGEN	mg/l	P00299	11.3	8.2
PH-FIELD	pH	P00400	4.9	5.2
PH-LAB	pH	P00403	5.0	5.8
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	45.0	51.0
ALKALINITY	mg/l	P00410	1.0	3.9
HARDNESS	mg/l	P00900	18	16
SULFATE(tot)	mg/l	P00945	13.6	8.4
NO2-N	mg/l	P00615	<0.50	<0.10
NO2+NO3-N	mg/l	P00630	0.71	<0.10
NH3-N	mg/l	P00610	0.02	1.72
TOTAL KJELDAHL-N	mg/l	P00625	1.19	3.80
ORGANIC N	mg/l	P00605	1.17	2.08
NO3-N	mg/l	P00620	0.71	<0.10
TOTAL N	mg/l	P00600	1.90	3.80
TOTAL ORTHO P AS P	mg/l	P70507	<.01	0.05
TOTAL P AS P	mg/l	P00665	0.01	0.08
TURBIDITY	JTU	P00076	2.0	11.0
TOTAL DISSOLVED SOLIDS	mg/l	P70300	33	41

MULLICA RIVER BASIN

NESCOHAGUE CREEK PCNE3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	8.2	11.3	9.8	2.2
PH-FIELD	pH	2	4.9	5.2	5.0	(5.0)
PH-LAB	pH	2	5.0	5.8	5.2	(5.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	45.0	51.0	48.0	4.2
ALKALINITY	mg/l	2	1.0	3.9	2.5	2.1
HARDNESS	mg/l	2	16	18	17	1
SULFATE(tot)	mg/l	2	8.4	13.6	11.0	3.7
NO2-N	mg/l	2	<0.10	<0.50		
NO2+NO3-N	mg/l	2	<0.10	0.71	0.36	0.50
NH3+NH4-N	mg/l	2	0.02	1.72	0.87	1.20
TOTAL KJELDAHL-N	mg/l	2	1.19	3.80	2.50	1.85
ORGANIC N	mg/l	2	1.17	2.08	1.63	0.64
NO3-N	mg/l	2	<0.10	0.71	0.36	0.50
TOTAL N	mg/l	2	1.90	3.80	2.85	1.34
TOTAL ORTHO P AS P	mg/l	2	<.01	0.05	0.03	0.04
TOTAL P AS P	mg/l	2	0.01	0.08	0.05	0.05
TURBIDITY	JTU	2	2.0	11.0	6.5	6.4
TOTAL DISSOLVED SOLIDS	mg/l	2	33	41	37	6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

**BURLINGTON COUNTY
AND
ATLANTIC COUNTY**

MULLICA RIVER BASIN

LOWER MULLICA RIVER

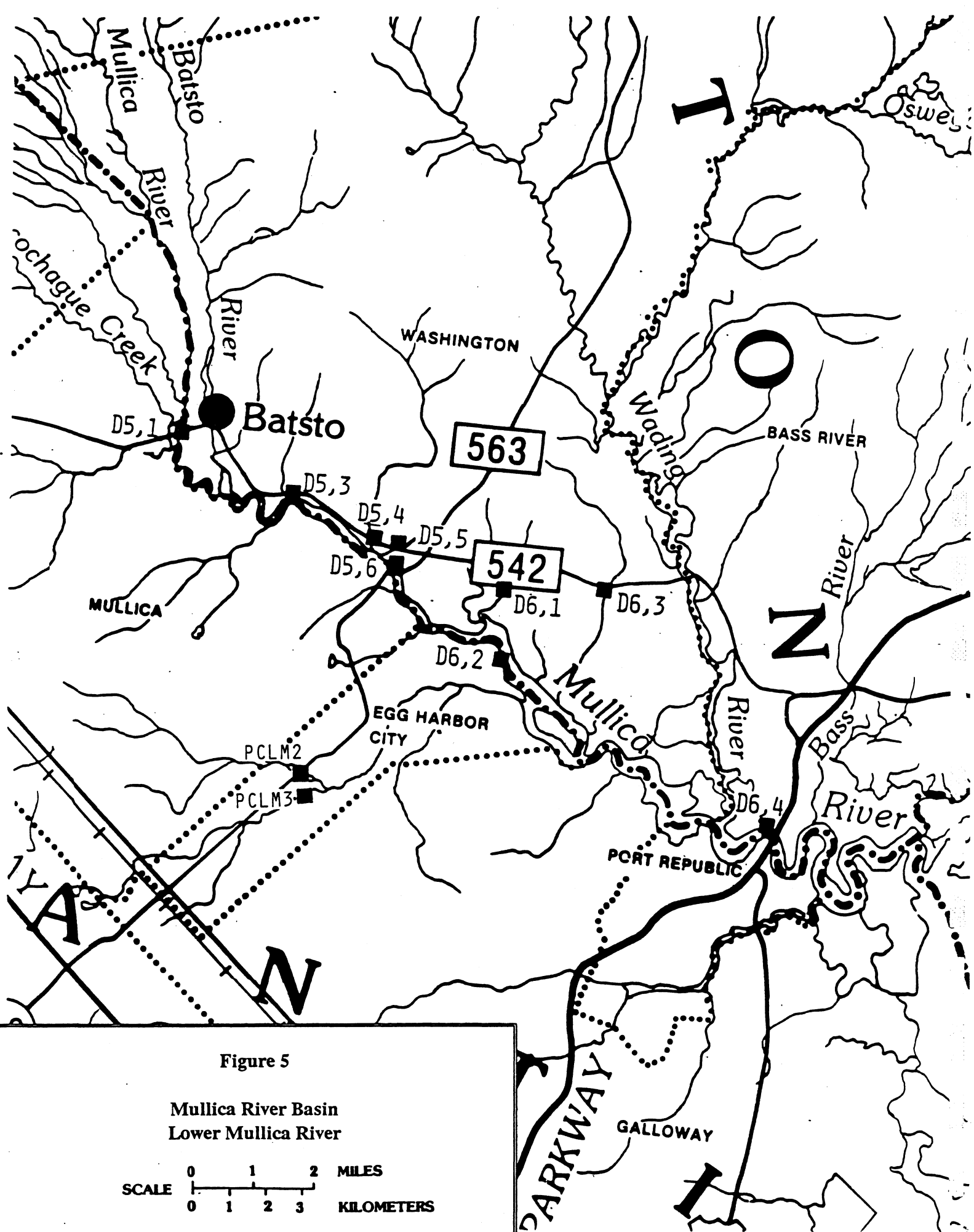


Figure 5

Mullica River Basin
Lower Mullica River

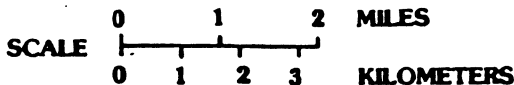


Table 13. Mullica River Basin (Lower Mullica River), Burlington Co and Atlantic Co, station names and locations

STATION NAME	STATION CODE	STATION LOCATION	CO(1)	TWP(2)	QUAD(3)

LOWER MULLICA RIVER					
MULLICA RIVER	D5,1	RT 542, PLEASANT MILLS	BU-AT	WA-MU	24
MULLICA RIVER	D5,3	CROWLEY'S LANDING, OFF OF RT 542	BU	WA	25
BULL CREEK	D5,4	RT 542	BU	WA	33
LITTLE BULL CREEK	D5,5	RT 542	BU	WA	33
MULLICA RIVER	D5,6	RT 563 BRIDGE AT GREENBANK	BU	WA	33
UNNAMED TRIBUTARY, MULLICA RIVER	D6,1	RT 542 NEAR LOWER BANK	BU	WA	33
MULLICA RIVER	D6,2	RT 652 (RIVER RD) AT LOWER BANK	BU	WA	33
LANDING CREEK (5)	PCLM3	INDIAN CABIN RD	AT	EHC	33
INDIAN CABIN CREEK (5)	PCLM2	RT 563 (EGG HARBOR CITY LAKE)	AT	EHC	33
UNNAMED TRIBUTARY, MULLICA RIVER	D6,3	RT 542 BETWEEN LOWER BANK AND TURTLE CREEK	BU	WA	33
MULLICA RIVER (4)	D6,4	RT 167, NEAR PARKWAY	BU	BR	33

(1) Refer to Table 23 for county abbreviations.

(2) Refer to Table 22 for township abbreviations.

(3) Refer to Table 24 for quadrangle numbers.

(4) Site not sampled for this report, see New Jersey Surface Water Quality Data Report, December 1990.

(5) Atlantic County station.

MULLICA RIVER BASIN: LOWER MULLICA RIVER

MULLICA RIVER D5,1

STATION LOCATION: ROUTE 542 AT PLEASANT MILLS, WASHINGTON TWP AND MULLICA TWP BORDER, BURLINGTON CO AND ATLANTIC CO

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			8	4
DAY			20	17
YEAR			90	91
WEATHER	code	P00041	2	1
AIR TEMPERATURE	deg. C	---	19.0	13.0
WATER TEMPERATURE	deg. C	P00010	22.0	14.0
pH-LAB	pH	P00403	4.5	4.9
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	50.4	51.5
ALKALINITY AS CaCO3	mg/l	P00410		<0.5
HARDNESS(exp)	mg/l	P00900		2.84
NO2+NO3-N	mg/l	P00630	0.10	0.19
NH3-N	mg/l	P00610	<.10	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.86	0.74
ORGANIC N	mg/l	P00605	0.86	0.74
TOTAL N	mg/l	P00600	0.96	0.93
TOTAL ORTHO P-PO4	mg/l	P00660	0.03	0.02
TOTAL P-PO4	mg/l	P00650	0.05	
POLY PO4	mg/l	P00655	<.01	<.01
BOD 5-DAY	mg/l	P00310		<2.0
BOD 7-DAY	mg/l	P00315	<2.0	
COD-LOW	mg/l	P00335	46.0	20.0
TOTAL CARBON	mg/l	P00690	20.2	9.7
TOT INORGANIC CARBON	mg/l	P00685	1.0	0.8
TOTAL ORGANIC CARBON	mg/l	P00680	19.2	8.8
TURBIDITY	JTU	P00076	3.0	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	3	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	88	57
TOTAL SOLIDS	mg/l	P00500	91	61
TOTAL CALCIUM(exp)	mg/l	P00916		2.08
TOTAL MAGNESIUM(exp)	mg/l	P00927		0.76
CHLORIDE	mg/l	P00940	6.2	5.9
FECAL COLIFORM	MF	P31613	350	20
TOTAL COLIFORM	MF	P31504	1600	300
FECAL STREPT	MF	P31673	1000	<50

MULLICA RIVER BASIN: LOWER MULLICA RIVER

MULLICA RIVER D5,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	4.1	6.5	4.6	(4.6)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	38.9	83.0	56.3	13.2
ALKALINITY AS CaCO ₃	mg/l	4	<0.5	2.7	1.0	1.3
HARDNESS(exp)	mg/l	1	2.8	2.8	2.8	
NO ₂ +NO ₃ -N	mg/l	10	0.09	0.41	0.19	0.11
NH ₃ -N	mg/l	10	<.10	0.61	0.17	0.18
TOTAL KJELDAHL-N	mg/l	8	0.56	1.20	0.75	0.21
ORGANIC N	mg/l	8	<.10	0.96	0.58	0.30
TOTAL N	mg/l	8	0.69	1.30	0.92	0.19
TOTAL ORTHO P-PO ₄	mg/l	10	<.01	0.03	0.01	0.01
TOTAL P-PO ₄	mg/l	9	<.01	0.05	0.02	0.01
POLY PO ₄	mg/l	10	<.01	0.01	<.01	0.01
BOD 5-DAY	mg/l	5	<2.0	2.1	<2.0	<2.0
BOD 7-DAY	mg/l	5	<2.0	<2.0	<2.0	
COD-LOW	mg/l	10	14.0	46.0	26.3	11.5
TOTAL CARBON	mg/l	8	6.2	20.2	11.0	5.2
TOT INORGANIC CARBON	mg/l	8	0.8	1.7	1.1	0.3
TOTAL ORGANIC CARBON	mg/l	8	4.4	19.2	9.9	5.2
TURBIDITY	JTU	10	1.0	4.3	2.0	1.2
TOTAL SUSPENDED SOLIDS	mg/l	10	<1	13	4	4
TOTAL DISSOLVED SOLIDS	mg/l	10	32	88	49	17
TOTAL SOLIDS	mg/l	10	37	91	53	17
TOTAL CALCIUM(exp)	mg/l	1	2.1	2.1	2.1	
TOTAL MAGNESIUM(exp)	mg/l	1	0.8	0.8	0.8	
CHLORIDE	mg/l	10	5.5	7.8	6.5	0.8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: LOWER MULLICA RIVER

MULLICA RIVER D5,3

STATION LOCATION: CROWLEY'S LANDING, WASHINGTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			20
YEAR			90
WEATHER	code	P00041	2
AIR TEMPERATURE	deg. C	---	19.0
WATER TEMPERATURE	deg. C	P00010	20.0
pH-LAB	pH	P00403	3.6
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	113.4
ALKALINITY AS CaCO3	mg/l	P00410	
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.98
ORGANIC N	mg/l	P00605	0.98
TOTAL N	mg/l	P00600	0.98
TOTAL ORTHO P-PO4	mg/l	P00660	
TOTAL P-PO4	mg/l	P00650	0.02
POLY PO4	mg/l	P00655	
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	100.5
TOTAL CARBON	mg/l	P00690	44.8
TOT INORGANIC CARBON	mg/l	P00685	3.3
TOTAL ORGANIC CARBON	mg/l	P00680	41.5
TURBIDITY	JTU	P00076	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	<1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	112
TOTAL SOLIDS	mg/l	P00500	112
CHLORIDE	mg/l	P00940	5.1
FECAL COLIFORM	MF	P31613	50
TOTAL COLIFORM	MF	P31504	1000
FECAL STREPT	MF	P31673	100

MULLICA RIVER BASIN: LOWER MULLICA RIVER

MULLICA RIVER D5,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	3.6	5.4	4.1	(4.5)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	44.8	136.7	70.9	30.3
ALKALINITY AS CaCO ₃	mg/l	3	<0.5	1.6	0.7	0.8
NO ₂ +NO ₃ -N	mg/l	10	<.04	0.30	0.17	0.09
NH ₃ -N	mg/l	9	<.10	0.29	0.15	0.10
TOTAL KJELDAHL-N	mg/l	7	0.52	1.10	0.77	0.22
ORGANIC N	mg/l	7	0.39	0.98	0.64	0.24
TOTAL N	mg/l	7	0.75	1.23	0.93	0.15
TOTAL ORTHO P-PO ₄	mg/l	9	0.01	0.05	0.03	0.01
TOTAL P-PO ₄	mg/l	10	0.01	0.07	0.04	0.02
POLY PO ₄	mg/l	9	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	4	<2.0	2.2	<2.0	<2.0
BOD 7-DAY	mg/l	6	<2.0	<2.0	<2.0	
COD-LOW	mg/l	10	17.2	100.5	37.4	23.9
TOTAL CARBON	mg/l	7	6.6	44.8	16.4	13.3
TOT INORGANIC CARBON	mg/l	7	0.6	3.3	1.4	0.9
TOTAL ORGANIC CARBON	mg/l	7	5.9	41.5	15.0	12.4
TURBIDITY	JTU	10	1.0	9.0	3.1	2.3
TOTAL SUSPENDED SOLIDS	mg/l	10	<1	29	9	10
TOTAL DISSOLVED SOLIDS	mg/l	10	25	112	54	25
TOTAL SOLIDS	mg/l	10	28	112	63	29
CHLORIDE	mg/l	10	5.1	26.4	8.1	6.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: LOWER MULLICA RIVER

BULL CREEK D5,4

STATION LOCATION: ROUTE 542, WASHINGTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			20
YEAR			90
WEATHER	code	P00041	2
AIR TEMPERATURE	deg. C	---	19.0
WATER TEMPERATURE	deg. C	P00010	24.0
pH-LAB	pH	P00403	3.9
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	66.5
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	0.18
TOTAL KJELDAHL-N	mg/l	P00625	0.72
ORGANIC N	mg/l	P00605	0.54
TOTAL N	mg/l	P00600	0.72
TOTAL ORTHO P-PO4	mg/l	P00660	
TOTAL P-PO4	mg/l	P00650	0.02
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	32.0
TOTAL CARBON	mg/l	P00690	11.6
TOT INORGANIC CARBON	mg/l	P00685	0.9
TOTAL ORGANIC CARBON	mg/l	P00680	10.7
TURBIDITY	JTU	P00076	7.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	5
TOTAL DISSOLVED SOLIDS	mg/l	P70300	42
TOTAL SOLIDS	mg/l	P00500	47
CHLORIDE	mg/l	P00940	4.1
FECAL COLIFORM	MF	P31613	300
TOTAL COLIFORM	MF	P31504	1400
FECAL STREPT	MF	P31673	400

MULLICA RIVER BASIN: LOWER MULLICA RIVER

BULL CREEK D5,4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	3.2	4.2	3.7	(3.9)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	56.7	100.0	70.4	13.1
NO2+NO3-N	mg/l	10	<.04	0.04	<.04	<.04
NH3-N	mg/l	10	<.10	0.36	0.17	0.10
TOTAL KJELDAHL-N	mg/l	6	0.48	1.00	0.66	0.19
ORGANIC N	mg/l	6	0.35	0.86	0.51	0.18
TOTAL N	mg/l	6	0.48	1.00	0.66	0.19
TOTAL ORTHO P-PO4	mg/l	9	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	9	<.01	0.06	0.02	0.02
POLY PO4	mg/l	10	<.01	0.03	0.01	0.01
BOD 5-DAY	mg/l	2	<2.0	2.4	<2.0	<2.0
BOD 7-DAY	mg/l	7	<2.0	2.1	<2.0	<2.0
COD-LOW	mg/l	9	16.0	42.0	31.4	9.2
TOTAL CARBON	mg/l	7	8.4	18.9	13.2	3.2
TOT INORGANIC CARBON	mg/l	7	0.6	1.9	1.0	0.4
TOTAL ORGANIC CARBON	mg/l	7	6.4	18.1	12.3	3.5
TURBIDITY	JTU	10	1.0	7.0	3.0	1.8
TOTAL SUSPENDED SOLIDS	mg/l	10	<1	19	4	6
TOTAL DISSOLVED SOLIDS	mg/l	10	15	82	44	16
TOTAL SOLIDS	mg/l	10	16	101	48	21
CHLORIDE	mg/l	10	3.2	6.5	4.1	0.9

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: LOWER MULLICA RIVER

LITTLE BULL CREEK D5,5

STATION LOCATION: ROUTE 542, WASHINGTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			20
YEAR			90
WEATHER	code	P00041	2
AIR TEMPERATURE	deg. C	---	19.0
WATER TEMPERATURE	deg. C	P00010	20.0
pH-LAB	pH	P00403	3.6
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	121.0
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	0.17
TOTAL KJELDAHL-N	mg/l	P00625	1.15
ORGANIC N	mg/l	P00605	0.98
TOTAL N	mg/l	P00600	1.15
TOTAL ORTHO P-PO4	mg/l	P00660	0.02
TOTAL P-PO4	mg/l	P00650	0.02
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	89.5
TOTAL CARBON	mg/l	P00690	43.6
TOT INORGANIC CARBON	mg/l	P00685	3.5
TOTAL ORGANIC CARBON	mg/l	P00680	40.2
TURBIDITY	JTU	P00076	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	<1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	99
TOTAL SOLIDS	mg/l	P00500	99
CHLORIDE	mg/l	P00940	5.9
FECAL COLIFORM	MF	P31613	100
TOTAL COLIFORM	MF	P31504	1000
FECAL STREPT	MF	P31673	400

MULLICA RIVER BASIN: LOWER MULLICA RIVER

LITTLE BULL CREEK D5,5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	2.9	4.4	3.4	(3.6)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	80.7	247.7	136.8	53.9
NO2+NO3-N	mg/l	10	<.04	<.04	<.04	
NH3-N	mg/l	10	<.10	0.39	0.17	0.12
TOTAL KJELDAHL-N	mg/l	8	0.54	1.80	1.06	0.42
ORGANIC N	mg/l	8	0.40	1.80	0.92	0.46
TOTAL N	mg/l	8	0.54	1.80	1.06	0.42
TOTAL ORTHO P-PO4	mg/l	10	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	10	<.01	0.02	0.01	0.01
POLY PO4	mg/l	9	<.01	0.02	<.01	0.01
BOD 5-DAY	mg/l	3	<2.0	2.2	<2.0	<2.0
BOD 7-DAY	mg/l	7	<2.0	<2.0	<2.0	
COD-LOW	mg/l	9	<1.0	129.5	81.1	36.8
TOTAL CARBON	mg/l	7	26.7	47.9	37.7	8.4
TOT INORGANIC CARBON	mg/l	7	0.7	4.3	2.3	1.3
TOTAL ORGANIC CARBON	mg/l	7	23.7	45.1	35.4	8.0
TURBIDITY	JTU	10	<1.0	1.6	<1.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	10	<1	31	4	10
TOTAL DISSOLVED SOLIDS	mg/l	10	45	150	89	27
TOTAL SOLIDS	mg/l	10	45	151	93	31
CHLORIDE	mg/l	10	5.4	13.9	8.5	3.0

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: LOWER MULLICA RIVER

MULLICA RIVER D5,6

STATION LOCATION: ROUTE 563 AT GREENBANK BRIDGE, WASHINGTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			20
YEAR			90
WEATHER	code	P00041	5
AIR TEMPERATURE	deg. C	---	19.0
WATER TEMPERATURE	deg. C	P00010	24.0
pH-LAB	pH	P00403	5.0
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	118.9
ALKALINITY AS CaCO3	mg/l	P00410	<0.5
NO2+NO3-N	mg/l	P00630	0.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.90
ORGANIC N	mg/l	P00605	0.90
TOTAL N	mg/l	P00600	0.94
TOTAL ORTHO P-PO4	mg/l	P00660	0.09
TOTAL P-PO4	mg/l	P00650	0.08
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	48.0
TOTAL CARBON	mg/l	P00690	20.7
TOT INORGANIC CARBON	mg/l	P00685	1.2
TOTAL ORGANIC CARBON	mg/l	P00680	19.4
TURBIDITY	JTU	P00076	11.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	21
TOTAL DISSOLVED SOLIDS	mg/l	P70300	94
TOTAL SOLIDS	mg/l	P00500	115
CHLORIDE	mg/l	P00940	23.3
FECAL COLIFORM	MF	P31613	400
TOTAL COLIFORM	MF	P31504	6800
FECAL STREPT	MF	P31673	1100

MULLICA RIVER BASIN: LOWER MULLICA RIVER

MULLICA RIVER D5,6

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	4.2	5.9	4.7	(5.0)
SPECIFIC CONDUCTIVITY-LAB	umhos	11	48.8	2921.6	340.8	856.5
ALKALINITY AS CaCO3	mg/l	7	<0.5	7.0	1.7	2.5
NO2+NO3-N	mg/l	11	<.04	0.51	0.20	0.14
NH3-N	mg/l	10	<.10	0.35	0.16	0.11
TOTAL KJELDAHL-N	mg/l	7	0.54	2.20	1.00	0.59
ORGANIC N	mg/l	7	0.38	2.07	0.86	0.60
TOTAL N	mg/l	7	0.79	2.31	1.22	0.54
TOTAL ORTHO P-PO4	mg/l	10	0.01	0.12	0.05	0.03
TOTAL P-PO4	mg/l	10	0.02	0.37	0.08	0.10
POLY PO4	mg/l	10	<.01	0.10	0.01	0.03
BOD 5-DAY	mg/l	4	<2.0	2.3	<2.0	<2.0
BOD 7-DAY	mg/l	7	<2.0	<2.0	<2.0	
COD-LOW	mg/l	11	15.0	48.0	27.3	9.7
TOTAL CARBON	mg/l	8	6.4	20.7	10.8	4.9
TOT INORGANIC CARBON	mg/l	8	0.6	2.0	1.1	0.5
TOTAL ORGANIC CARBON	mg/l	8	4.9	19.4	9.7	4.9
TURBIDITY	JTU	11	2.0	55.0	9.8	15.3
TOTAL SUSPENDED SOLIDS	mg/l	11	4	160	35	45
TOTAL DISSOLVED SOLIDS	mg/l	11	28	1555	187	454
TOTAL SOLIDS	mg/l	11	44	1609	222	462
CHLORIDE	mg/l	10	6.4	786.8	90.2	244.8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: LOWER MULLICA RIVER

UNNAMED TRIBUTARY OF THE MULLICA RIVER D6,1

STATION LOCATION: ROUTE 542 NEAR LOWER BANK, WASHINGTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			7	1
DAY			23	16
YEAR			90	91
WEATHER	code	P00041	2	6
AIR TEMPERATURE	deg. C	---	30.0	5.0
WATER TEMPERATURE	deg. C	P00010	25.0	5.0
pH-LAB	pH	P00403	3.8	3.8
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	68.6	103.9
NO2+NO3-N	mg/l	P00630	<.04	0.09
NH3-N	mg/l	P00610	<.10	0.33
TOTAL KJELDAHL-N	mg/l	P00625	0.78	1.00
ORGANIC N	mg/l	P00605	0.78	0.67
TOTAL N	mg/l	P00600	0.78	1.09
TOTAL ORTHO P-PO4	mg/l	P00660		
TOTAL P-PO4	mg/l	P00650	0.05	0.03
POLY PO4	mg/l	P00655		
BOD 5-DAY	mg/l	P00310		
BOD 6-DAY	mg/l	P00310		2.4
BOD 7-DAY	mg/l	P00315	<2.0	
COD-HIGH	mg/l	P00340		
COD-LOW	mg/l	P00335	72.5	86.0
TOTAL CARBON	mg/l	P00690	29.3	36.7
TOT INORGANIC CARBON	mg/l	P00685	5.5	1.7
TOTAL ORGANIC CARBON	mg/l	P00680	23.8	35.0
TURBIDITY	JTU	P00076	<1.0	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	<1	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	58	48
TOTAL SOLIDS	mg/l	P00500	58	50
CHLORIDE	mg/l	P00940	5.5	4.6
FECAL COLIFORM	MF	P31613	20	<50
TOTAL COLIFORM	MF	P31504	100	200
FECAL STREPT	MF	P31673	150	<100

MULLICA RIVER BASIN: LOWER MULLICA RIVER

UNNAMED TRIBUTARY OF THE MULLICA RIVER D6,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	13	3.0	3.9	3.5	(3.7)
SPECIFIC CONDUCTIVITY-LAB	umhos	13	62.1	219.0	122.0	48.1
NO2+NO3-N	mg/l	13	<.04	0.09	<.04	<.04
NH3-N	mg/l	13	<.10	0.44	0.12	0.14
TOTAL KJELDAHL-N	mg/l	12	0.40	1.35	0.89	0.32
ORGANIC N	mg/l	12	0.40	1.30	0.77	0.28
TOTAL N	mg/l	12	0.40	1.35	0.90	0.32
TOTAL ORTHO P-PO4	mg/l	7	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	11	<.01	0.05	0.02	0.02
POLY PO4	mg/l	10	<.01	0.01	<.01	<.01
BOD 5-DAY	mg/l	5	<2.0	2.5	<2.0	<2.0
BOD 6-DAY	mg/l	1	2.4	2.4	2.4	
BOD 7-DAY	mg/l	7	<2.0	2.1	<2.0	<2.0
COD-HIGH	mg/l	1	48.8	48.8	48.8	
COD-LOW	mg/l	11	38.8	110.5	70.8	18.7
TOTAL CARBON	mg/l	10	20.8	44.5	30.8	7.8
TOT INORGANIC CARBON	mg/l	10	1.3	5.5	2.9	1.3
TOTAL ORGANIC CARBON	mg/l	10	17.5	41.4	27.9	7.7
TURBIDITY	JTU	13	<1.0	2.4	1.1	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	13	<1	34	6	10
TOTAL DISSOLVED SOLIDS	mg/l	13	43	235	88	51
TOTAL SOLIDS	mg/l	13	50	239	94	53
CHLORIDE	mg/l	13	3.6	30.2	7.9	7.0

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: LOWER MULLICA RIVER

MULLICA RIVER (TIDAL) D6,2

STATION LOCATION: ROUTE 652 AT LOWER BANK, WASHINGTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			1
DAY			16
YEAR			91
WEATHER	code	P00041	6
AIR TEMPERATURE	deg. C	---	6.0
WATER TEMPERATURE	deg. C	P00010	5.0
pH-LAB	pH	P00403	4.0
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	73.1
ALKALINITY AS CaCO3	mg/l	P00410	
NO2+NO3-N	mg/l	P00630	0.09
NH3-N	mg/l	P00610	0.28
TOTAL KJELDAHL-N	mg/l	P00625	0.84
ORGANIC N	mg/l	P00605	0.56
TOTAL N	mg/l	P00600	0.93
TOTAL ORTHO P-PO4	mg/l	P00660	
TOTAL P-PO4	mg/l	P00650	
POLY PO4	mg/l	P00655	
BOD 5-DAY	mg/l	P00310	
BOD 6-DAY	mg/l	P00310	2.7
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	65.0
TOTAL CARBON	mg/l	P00690	30.4
TOT INORGANIC CARBON	mg/l	P00685	1.9
TOTAL ORGANIC CARBON	mg/l	P00680	28.6
TURBIDITY	JTU	P00076	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	62
TOTAL SOLIDS	mg/l	P00500	63
CHLORIDE	mg/l	P00940	5.2
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	800
FECAL STREPT	MF	P31673	<100

MULLICA RIVER BASIN: LOWER MULLICA RIVER

MULLICA RIVER D6,2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	9	4.0	6.2	4.8	(5.6)
SPECIFIC CONDUCTIVITY-LAB	umhos	9	73.1	2745.0	759.0	883.5
ALKALINITY AS CaCO ₃	mg/l	7	<0.5	8.4	3.3	2.6
NO ₂ +NO ₃ -N	mg/l	9	0.04	0.44	0.16	0.14
NH ₃ -N	mg/l	9	<.10	0.28	0.12	0.11
TOTAL KJELDAHL-N	mg/l	8	0.46	1.25	0.91	0.23
ORGANIC N	mg/l	8	0.46	1.25	0.80	0.26
TOTAL N	mg/l	8	0.66	1.58	1.09	0.27
TOTAL ORTHO P-PO ₄	mg/l	8	<.01	0.17	0.06	0.05
TOTAL P-PO ₄	mg/l	7	0.06	0.47	0.13	0.15
POLY PO ₄	mg/l	8	<.01	0.13	0.02	0.04
BOD 5-DAY	mg/l	3	2.2	2.5	2.4	<2.0
BOD 6-DAY	mg/l	1	2.7	2.7	2.7	
BOD 7-DAY	mg/l	5	<2.0	5.8	<2.0	2.6
COD-LOW	mg/l	9	20.0	65.0	41.3	13.0
TOTAL CARBON	mg/l	7	8.4	30.4	16.2	6.8
TOT INORGANIC CARBON	mg/l	7	1.1	1.9	1.6	0.3
TOTAL ORGANIC CARBON	mg/l	7	6.6	28.6	14.6	6.7
TURBIDITY	JTU	9	1.0	55.0	15.3	17.8
TOTAL SUSPENDED SOLIDS	mg/l	9	1	267	66	89
TOTAL DISSOLVED SOLIDS	mg/l	9	62	1277	380	403
TOTAL SOLIDS	mg/l	9	63	1324	446	409
CHLORIDE	mg/l	9	5.2	775.8	203.1	251.0

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN

LANDING CREEK PCLM3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	8.2	10.5	9.4	1.6
PH-FIELD	pH	2	4.7	4.9	4.8	(4.8)
PH-LAB	pH	2	4.9	5.3	5.1	(5.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	53.0	55.0	54.0	1.4
ALKALINITY	mg/l	1	<0.2	<0.2	<0.2	
ACIDITY	mg/l	1	<0.5	<0.5	<0.5	
HARDNESS	mg/l	2	15	17	16	1
SULFATE(tot)	mg/l	2	7.8	11.3	9.6	2.5
NO2-N	mg/l	2	<0.10	<0.10	<0.10	
NO2+NO3-N	mg/l	2	<0.10	0.91	0.46	0.64
NH3+NH4-N	mg/l	2	0.02	0.51	0.27	0.35
TOTAL KJELDAHL-N	mg/l	2	1.71	3.10	2.41	0.98
ORGANIC N	mg/l	2	1.69	2.59	2.14	0.64
NO3-N	mg/l	2	<0.10	0.91	0.46	0.64
TOTAL N	mg/l	2	2.62	3.10	2.86	0.34
TOTAL ORTHO P AS P	mg/l	1	0.04	0.04	0.04	
TOTAL P AS P	mg/l	2	0.05	0.05	0.05	
TURBIDITY	JTU	2	3.6	13.2	8.4	6.8
TOTAL DISSOLVED SOLIDS	mg/l	2	41	57	49	11

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN

INDIAN CABIN CREEK PCLM2

STATION LOCATION: ROUTE 563 (EGG HARBOR CITY LAKE), EGG HARBOR CITY, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			11	6
YEAR			91	91
WEATHER	code	P00041	0	6
WATER TEMPERATURE	deg. C	P00010	5.0	17.0
DISSOLVED OXYGEN	mg/l	P00299	11.4	8.3
PH-FIELD	pH	P00400	4.0	4.2
PH-LAB	pH	P00403	4.3	
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	41.0	49.0
ALKALINITY	mg/l	P00410	<0.2	<0.5
HARDNESS	mg/l	P00900	11	7
SULFATE(tot)	mg/l	P00945	9.0	6.2
NO2-N	mg/l	P00615	<0.50	<0.10
NO2+NO3-N	mg/l	P00630	0.71	<0.10
NH3-N	mg/l	P00610	0.02	0.76
TOTAL KJELDAHL-N	mg/l	P00625	1.32	2.90
ORGANIC N	mg/l	P00605	1.30	2.14
NO3-N	mg/l	P00620	0.71	<0.10
TOTAL N	mg/l	P00600	2.03	2.90
TOTAL ORTHO P AS P	mg/l	P70507	<.01	0.01
TOTAL P AS P	mg/l	P00665	<.01	0.06
TURBIDITY	JTU	P00076	1.8	2.3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	<25	45

MULLICA RIVER BASIN

INDIAN CABIN CREEK PCLM2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	8.3	11.4	9.9	2.2
PH-FIELD	pH	2	4.0	4.2	4.1	(4.1)
PH-LAB	pH	1	4.3	4.3	4.3	(4.3)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	41.0	49.0	45.0	5.7
ALKALINITY	mg/l	2	<0.2	<0.5		
HARDNESS	mg/l	2	7	11	9	3
SULFATE(tot)	mg/l	2	6.2	9.0	7.6	2.0
NO2-N	mg/l	2	<0.10	<0.50		
NO2+NO3-N	mg/l	2	<0.10	0.71	0.36	0.50
NH3+NH4-N	mg/l	2	0.02	0.76	0.39	0.52
TOTAL KJELDAHL-N	mg/l	2	1.32	2.90	2.11	1.12
ORGANIC N	mg/l	2	1.30	2.14	1.72	0.59
NO3-N	mg/l	2	<0.10	0.71	0.36	0.50
TOTAL N	mg/l	2	2.03	2.90	2.47	0.62
TOTAL ORTHO P AS P	mg/l	2	<.01	0.01	0.01	0.01
TOTAL P AS P	mg/l	2	<.01	0.06	0.03	0.04
TURBIDITY	JTU	2	1.8	2.3	2.1	0.4
TOTAL DISSOLVED SOLIDS	mg/l	2	<25	45	<25	32

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MULLICA RIVER BASIN: LOWER MULLICA RIVER

UNNAMED TRIBUTARY OF THE MULLICA RIVER D6,3

STATION LOCATION: ROUTE 542 BETWEEN LOWER BANK AND TURTLE CREEK, WASHINGTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			7
DAY			23
YEAR			90
WEATHER	code	P00041	2
AIR TEMPERATURE	deg. C	---	30.0
WATER TEMPERATURE	deg. C	P00010	25.0
pH-LAB	pH	P00403	3.7
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	120.4
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	0.19
TOTAL KJELDAHL-N	mg/l	P00625	2.40
ORGANIC N	mg/l	P00605	2.21
TOTAL N	mg/l	P00600	2.40
TOTAL ORTHO P-PO4	mg/l	P00660	
TOTAL P-PO4	mg/l	P00650	
POLY PO4	mg/l	P00655	
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	5.6
BOD 9-DAY	mg/l	P00315	
COD-HI	mg/l	P00340	192.3
COD-LOW	mg/l	P00335	
TOTAL CARBON	mg/l	P00690	90.5
TOT INORGANIC CARBON	mg/l	P00685	9.6
TOTAL ORGANIC CARBON	mg/l	P00680	80.9
TURBIDITY	JTU	P00076	2.5
TOTAL SUSPENDED SOLIDS	mg/l	P00530	<1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	194
TOTAL SOLIDS	mg/l	P00500	194
CHLORIDE	mg/l	P00940	13.6
FECAL COLIFORM	MF	P31613	20
TOTAL COLIFORM	MF	P31504	500
FECAL STREPT	MF	P31673	250

MULLICA RIVER BASIN: LOWER MULLICA RIVER

UNNAMED TRIBUTARY OF THE MULLICA RIVER D6,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	9	3.4	4.5	3.7	(3.7)
SPECIFIC CONDUCTIVITY-LAB	umhos	9	75.6	217.0	127.7	45.5
NO2+NO3-N	mg/l	9	<.04	0.19	<.04	0.06
NH3-N	mg/l	9	<.10	0.35	0.16	0.12
TOTAL KJELDAHL-N	mg/l	8	0.54	2.50	1.36	0.74
ORGANIC N	mg/l	8	0.26	2.26	1.19	0.74
TOTAL N	mg/l	8	0.54	2.50	1.38	0.74
TOTAL ORTHO P-PO4	mg/l	6	<.01	0.01	0.01	0.01
TOTAL P-PO4	mg/l	7	0.01	0.04	0.02	0.01
POLY PO4	mg/l	7	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	3	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	5	<2.0	5.6	<2.0	2.5
BOD 9-DAY	mg/l	1	6.4	6.4	6.4	
COD-HI	mg/l	2	169.9	192.3	181.1	15.8
COD-LOW	mg/l	7	26.5	126.5	75.0	30.6
TOTAL CARBON	mg/l	8	11.9	90.5	46.1	25.8
TOT INORGANIC CARBON	mg/l	8	2.4	9.6	4.5	2.4
TOTAL ORGANIC CARBON	mg/l	8	7.2	80.9	41.6	24.2
TURBIDITY	JTU	9	<1.0	4.0	1.3	1.3
TOTAL SUSPENDED SOLIDS	mg/l	9	<1	27	5	8
TOTAL DISSOLVED SOLIDS	mg/l	9	59	262	123	69
TOTAL SOLIDS	mg/l	9	63	263	128	67
CHLORIDE	mg/l	9	5.2	19.2	11.0	4.3

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

**BURLINGTON COUNTY
AND
OCEAN COUNTY**

RANCOCAS CREEK BASIN

NORTH BRANCH RANCOCAS CREEK

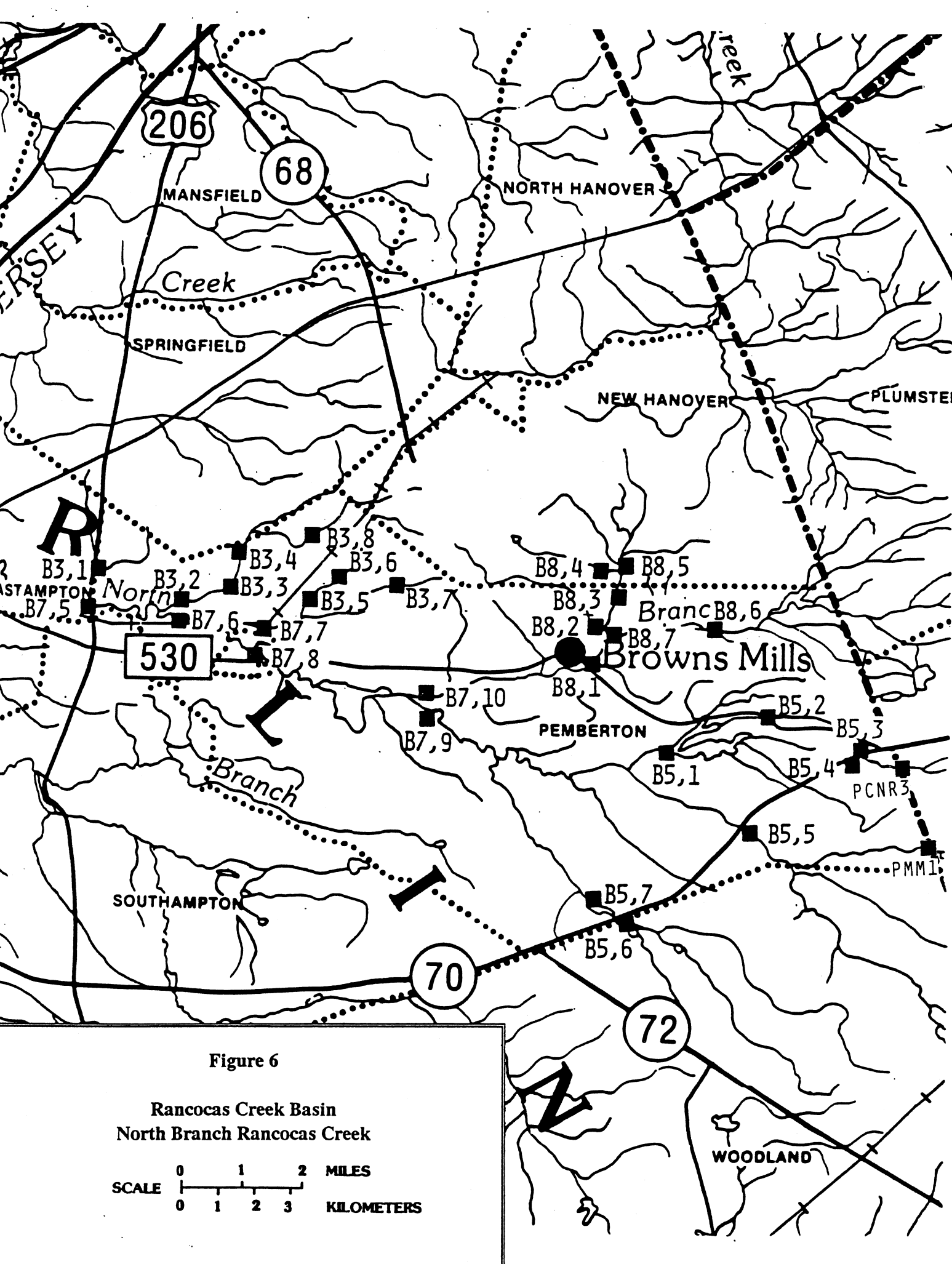


Figure 6

Rancocas Creek Basin
North Branch Rancocas Creek

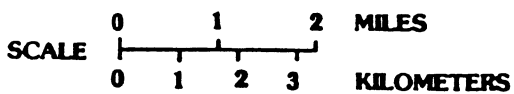


Table 14. Rancocas Creek Basin (North Branch Rancocas Creek), Burlington Co and Ocean Co, station names and locations

STATION NAME	STATION CODE	STATION LOCATION	CO(1)	TWP(2)	QUAD(3)
NORTH BRANCH RANCOCAS CREEK					
N BRANCH RANCOCAS CR AT MIRROR LK INLET	B8,6	INTERSECTION OF N AND S LAKESHORE DR	BU	P	8
NEWBOLDS RUN	B8,4	BLUEBIRD ST (HUNTER BLVD), BROWNS MILLS	BU	NH	8
JACKS RUN AT LITTLE PINE LK INLET	B8,5	RANGE RD	BU	NH	8
LITTLE PINE LK OUTLET	B8,3	BAYBERRY ST IN BROWNS MILLS	BU	P	8
ONG RUN	B8,2	BROADWAY ST IN BROWNS MILLS	BU	P	8
N BRANCH RANCOCAS CR AT MIRROR LK	B8,7	CLUB HOUSE DR IN BROWNS MILLS	BU	P	8
N BRANCH RANCOCAS CR AT MIRROR LK OUTLET	B8,1	RT 530 IN BROWNS MILLS	BU	P	8
N BRANCH RANCOCAS CR (4)	B7,10	NEW LISBON RD	BU	P	7
POLE BRIDGE BRANCH	PCNR3	BELOW DEER PARK BRANCH	BU	P	9
POLE BRIDGE BRANCH	B5,4	RT 70	BU	P	9
CRANBERRY BRANCH	B5,3	RT 70	BU	P	9
CRANBERRY BRANCH	B5,2	RT 530	BU	P	8
POLE BRIDGE BRANCH	B5,1	WISSAHICKON TRAIL IN COUNTRY LAKES	BU	P	8
NORTH BRANCH MOUNT MISERY BROOK (5)	PMM1	CRANBERRY BOGS IN OCEAN COUNTY	OC	MN	9
MOUNT MISERY BROOK	B5,5	RT 70	BU	P	8
BISPHAM MILL CR AT LEBANON LKS OUTLET	B5,6	RT 70	BU	P-WO	8
BISPHAM MILL CR AT PRESIDENTIAL LKS OUTLET	B5,7	OREGON TRAIL IN PRESIDENTIAL LAKES	BU	P	8
GREENWOOD BRANCH	B7,9	NEW LISBON RD	BU	P	7
N BRANCH RANCOCAS CR	B7,8	RT 616 IN PEMBERTON BOROUGH	BU	P	7
BUDDS RUN (LOCAL NAME) (4)	B3,6	CATESVILLE-JULIUSTOWN RD	BU	P	7
BUDDS RUN (LOCAL NAME) (4)	B3,5	RT 630 (POINTVILLE RD)	BU	P	7
COATES RUN (LOCAL NAME) (4)	B3,7	RT 630 (POINTVILLE RD)	BU	P	7
BUDDS RUN (4)	B7,7	RT 616 IN PEMBERTON BOROUGH	BU	P	7
N BRANCH RANCOCAS CR	B7,6	BIRMINGHAM RD	BU	P	7
UNNAMED TRIB OF N BRANCH RANCOCAS CR (4)	B3,8	CATESVILLE-JULIUSTOWN RD	BU	P	7
UNNAMED TRIB OF N BRANCH RANCOCAS CR (4)	B3,4	ARNEY'S MT-PEMBERTON RD	BU	P	7
UNNAMED TRIB OF N BRANCH RANCOCAS CR	B3,3	RT 630 (NORTH PEMBERTON RD)	BU	P	7
UNNAMED TRIB OF N BRANCH RANCOCAS CR (4)	B3,2	BIRMINGHAM-ARNEY'S MOUNT RD	BU	P	7
N BRANCH RANCOCAS CR	B7,5	RT 206 IN EWANSVILLE	BU	EA-P	7
POWELLS RUN (4)	B3,1	RT 206	BU	EA-P	7

(1) Refer to Table 23 for county abbreviations.

(2) Refer to Table 22 for township abbreviations.

(3) Refer to Table 24 for quadrangle numbers.

(4) Site not sampled for this report, see New Jersey Surface Water Quality Data Report, December 1989.

(5) Ocean County station.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

RANCOCAS CREEK AT MIRROR LAKE INLET B8,6

STATION LOCATION: INTERSECTION OF NORTH AND SOUTH LAKESHORE DRIVE, PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			15
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	26.0
WATER TEMPERATURE	deg. C	P00010	24.0
pH-LAB	pH	P00403	4.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	33.9
ALKALINITY AS CaCO3	mg/l	P00410	
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.50
ORGANIC N	mg/l	P00605	0.50
TOTAL N	mg/l	P00600	0.50
TOTAL ORTHO P-PO4	mg/l	P00660	0.02
TOTAL P-PO4	mg/l	P00650	0.04
POLY PO4	mg/l	P00655	0.02
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	44.5
TOTAL CARBON	mg/l	P00690	16.5
TOT INORGANIC CARBON	mg/l	P00685	1.3
TOTAL ORGANIC CARBON	mg/l	P00680	15.2
TURBIDITY	JTU	P00076	3.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	9
TOTAL DISSOLVED SOLIDS	mg/l	P70300	41
TOTAL SOLIDS	mg/l	P00500	50
CHLORIDE	mg/l	P00940	2.8
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	600
FECAL STREPT	MF	P31673	700

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

RANCOCAS CREEK AT MIRROR LAKE INLET B8,6

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	7	4.0	5.6	4.4	(4.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	7	29.7	79.3	45.2	18.0
ALKALINITY AS CaCO ₃	mg/l	2	<0.5	12.5	6.4	8.7
NO ₂ +NO ₃ -N	mg/l	7	<.04	<.04	<.04	
NH ₃ -N	mg/l	7	<.10	0.28	<.10	0.12
TOTAL KJELDAHL-N	mg/l	6	0.34	1.70	0.76	0.50
ORGANIC N	mg/l	6	0.27	1.70	0.71	0.53
TOTAL N	mg/l	6	0.34	1.70	0.76	0.50
TOTAL ORTHO P-PO ₄	mg/l	6	0.01	0.03	0.02	0.01
TOTAL P-PO ₄	mg/l	6	0.02	0.13	0.05	0.04
POLY PO ₄	mg/l	6	<.01	0.04	0.01	0.02
BOD 5-DAY	mg/l	4	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	3	<2.0	5.5	<2.0	3.1
COD-LOW	mg/l	7	10.0	44.5	24.0	14.3
TOTAL CARBON	mg/l	4	10.8	16.5	13.1	2.4
TOT INORGANIC CARBON	mg/l	4	0.9	1.3	1.1	0.2
TOTAL ORGANIC CARBON	mg/l	4	9.7	15.2	12.0	2.3
TURBIDITY	JTU	7	1.4	6.0	3.0	1.7
TOTAL SUSPENDED SOLIDS	mg/l	7	<1	20	8	6
TOTAL DISSOLVED SOLIDS	mg/l	7	25	58	37	12
TOTAL SOLIDS	mg/l	7	28	67	45	16
CHLORIDE	mg/l	7	2.8	6.1	4.3	1.3

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

NEWBOLDS RUN B8,4

STATION LOCATION: BLUEBIRD STREET (OR HUNTER BLVD) IN BROWNS MILLS, NEW HANOVER TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			15
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	26.0
WATER TEMPERATURE	deg. C	P00010	22.0
pH-LAB	pH	P00403	6.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	79.4
ALKALINITY AS CaCO3	mg/l	P00410	11.2
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.66
ORGANIC N	mg/l	P00605	0.66
TOTAL N	mg/l	P00600	0.66
TOTAL ORTHO P-PO4	mg/l	P00660	0.01
TOTAL P-PO4	mg/l	P00650	0.02
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	24.5
TOTAL CARBON	mg/l	P00690	10.7
TOT INORGANIC CARBON	mg/l	P00685	0.9
TOTAL ORGANIC CARBON	mg/l	P00680	9.8
TURBIDITY	JTU	P00076	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	61
TOTAL SOLIDS	mg/l	P00500	63
CHLORIDE	mg/l	P00940	8.8
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	800
FECAL STREPT	MF	P31673	<100

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

NEWBOLDS RUN BB,4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	2	5.7	6.2	5.9	(5.9)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	79.4	84.9	82.2	3.9
ALKALINITY AS CaCO ₃	mg/l	2	6.5	11.2	8.9	3.3
NO ₂ +NO ₃ -N	mg/l	2	<.04	0.05	<.04	<.04
NH ₃ -N	mg/l	2	<.10	<.10	<.10	
TOTAL KJELDAHL-N	mg/l	2	0.66	0.93	0.80	0.19
ORGANIC N	mg/l	2	0.66	0.93	0.80	0.19
TOTAL N	mg/l	2	0.66	0.98	0.82	0.22
TOTAL ORTHO P-PO ₄	mg/l	2	<.01	0.01	0.01	0.01
TOTAL P-PO ₄	mg/l	2	0.02	0.03	0.03	0.01
POLY PO ₄	mg/l	2	<.01	0.01	0.01	0.01
BOD 5-DAY	mg/l	1	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	1	<2.0	<2.0	<2.0	
COD-LOW	mg/l	2	24.5	26.5	25.5	1.4
TOTAL CARBON	mg/l	2	10.0	10.7	10.3	0.4
TOT INORGANIC CARBON	mg/l	2	0.9	2.4	1.6	1.0
TOTAL ORGANIC CARBON	mg/l	2	7.7	9.8	8.7	1.5
TURBIDITY	JTU	2	2.0	4.0	3.0	1.4
TOTAL SUSPENDED SOLIDS	mg/l	2	2	10	6	6
TOTAL DISSOLVED SOLIDS	mg/l	2	55	61	58	4
TOTAL SOLIDS	mg/l	2	63	65	64	1
CHLORIDE	mg/l	2	7.7	8.8	8.2	0.7

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

LITTLE PINE LAKE INLET BELOW JACKS RUN AND LARKINS RUN B8,5

STATION LOCATION: RANGE ROAD, NEW HANOVER TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			15
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	25.0
WATER TEMPERATURE	deg. C	P00010	22.0
pH-LAB	pH	P00403	4.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	56.1
ALKALINITY AS CaCO3	mg/l	P00410	
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.56
ORGANIC N	mg/l	P00605	0.56
TOTAL N	mg/l	P00600	0.56
TOTAL ORTHO P-PO4	mg/l	P00660	0.02
TOTAL P-PO4	mg/l	P00650	0.04
POLY PO4	mg/l	P00655	0.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	50.5
TOTAL CARBON	mg/l	P00690	23.4
TOT INORGANIC CARBON	mg/l	P00685	2.8
TOTAL ORGANIC CARBON	mg/l	P00680	20.6
TURBIDITY	JTU	P00076	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	<1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	67
TOTAL SOLIDS	mg/l	P00500	67
CHLORIDE	mg/l	P00940	3.5
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	400
FECAL STREPT	MF	P31673	500

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

LITTLE PINE LAKE INLET BELOW JACKS RUN AND LARKINS RUN B8,5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	8	4.5	5.7	5.1	(5.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	8	44.2	81.2	64.8	13.9
ALKALINITY AS CaCO ₃	mg/l	7	<0.5	10.2	3.9	4.2
NO ₂ +NO ₃ -N	mg/l	8	<.04	0.14	0.05	0.06
NH ₃ -N	mg/l	8	<.10	0.27	0.12	0.11
TOTAL KJELDAHL-N	mg/l	7	0.48	1.00	0.70	0.17
ORGANIC N	mg/l	7	0.28	0.84	0.59	0.21
TOTAL N	mg/l	7	0.56	1.13	0.75	0.19
TOTAL ORTHO P-PO ₄	mg/l	7	<.01	0.03	0.01	0.01
TOTAL P-PO ₄	mg/l	7	<.01	0.08	0.03	0.02
POLY PO ₄	mg/l	7	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	4	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	4	<2.0	3.2	<2.0	<2.0
COD-LOW	mg/l	8	2.0	50.5	22.7	18.0
TOTAL CARBON	mg/l	4	9.9	23.4	15.0	5.9
TOT INORGANIC CARBON	mg/l	4	1.9	4.1	3.0	0.9
TOTAL ORGANIC CARBON	mg/l	5	7.8	20.6	11.8	5.2
TURBIDITY	JTU	8	1.5	7.5	3.1	2.1
TOTAL SUSPENDED SOLIDS	mg/l	8	<1	10	5	4
TOTAL DISSOLVED SOLIDS	mg/l	8	38	70	56	11
TOTAL SOLIDS	mg/l	8	42	76	61	13
CHLORIDE	mg/l	8	3.2	7.3	4.9	1.4

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

LITTLE PINE LAKE OUTLET (BELOW JACKS RUN, LARKINS RUN AND NEWBOLDS RUN) B8,3

STATION LOCATION: BAYBERRY STREET IN BROWNS MILLS, PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			15
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	24.0
WATER TEMPERATURE	deg. C	P00010	29.0
pH-LAB	pH	P00403	5.6
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	59.3
ALKALINITY AS CaCO3	mg/l	P00410	3.1
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.58
ORGANIC N	mg/l	P00605	0.58
TOTAL N	mg/l	P00600	0.58
TOTAL ORTHO P-PO4	mg/l	P00660	0.02
TOTAL P-PO4	mg/l	P00650	0.03
POLY PO4	mg/l	P00655	0.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	42.5
TOTAL CARBON	mg/l	P00690	17.5
TOT INORGANIC CARBON	mg/l	P00685	2.3
TOTAL ORGANIC CARBON	mg/l	P00680	15.2
TURBIDITY	JTU	P00076	3.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	60
TOTAL SOLIDS	mg/l	P00500	62
CHLORIDE	mg/l	P00940	4.4
FECAL COLIFORM	MF	P31613	250
TOTAL COLIFORM	MF	P31504	1600
FECAL STREPT	MF	P31673	300

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

LITTLE PINE LAKE OUTLET (BELOW JACKS RUN, LARKINS RUN AND NEWBOLDS RUN) 88,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	8	5.4	6.1	5.6	(5.7)
SPECIFIC CONDUCTIVITY-LAB	umhos	8	43.6	82.8	69.6	12.9
ALKALINITY AS CaCO ₃	mg/l	8	<0.5	9.5	5.2	3.7
NO ₂ +NO ₃ -N	mg/l	8	<.04	0.09	<.04	<.04
NH ₃ -N	mg/l	8	<.10	0.26	0.12	0.10
TOTAL KJELDAHL-N	mg/l	7	0.50	1.00	0.74	0.21
ORGANIC N	mg/l	7	0.31	0.86	0.63	0.22
TOTAL N	mg/l	7	0.55	1.00	0.76	0.18
TOTAL ORTHO P-PO ₄	mg/l	7	<.01	0.02	0.01	0.01
TOTAL P-PO ₄	mg/l	7	0.01	0.05	0.03	0.01
POLY PO ₄	mg/l	7	<.01	0.01	<.01	<.01
BOD 5-DAY	mg/l	4	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	4	<2.0	2.6	<2.0	<2.0
COD-LOW	mg/l	8	1.0	42.5	19.6	12.3
TOTAL CARBON	mg/l	4	10.3	17.5	12.4	3.4
TOT INORGANIC CARBON	mg/l	4	1.8	2.6	2.3	0.3
TOTAL ORGANIC CARBON	mg/l	5	7.7	15.2	9.8	3.0
TURBIDITY	JTU	8	1.5	4.9	3.0	1.0
TOTAL SUSPENDED SOLIDS	mg/l	8	<1	13	6	4
TOTAL DISSOLVED SOLIDS	mg/l	8	36	64	50	10
TOTAL SOLIDS	mg/l	8	40	72	56	11
CHLORIDE	mg/l	8	4.0	7.3	6.1	1.3

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

ONG RUN B8,2

STATION LOCATION: BROADWAY STREET IN BROWNS MILLS, PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			15
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	23.0
WATER TEMPERATURE	deg. C	P00010	20.0
pH-LAB	pH	P00403	6.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	81.6
ALKALINITY AS CaCO ₃	mg/l	P00410	12.6
NO ₂ +NO ₃ -N	mg/l	P00630	0.28
NH ₃ -N	mg/l	P00610	0.16
TOTAL KJELDAHL-N	mg/l	P00625	0.47
ORGANIC N	mg/l	P00605	0.32
TOTAL N	mg/l	P00600	0.75
TOTAL ORTHO P-PO ₄	mg/l	P00660	0.04
TOTAL P-PO ₄	mg/l	P00650	0.04
POLY PO ₄	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	24.0
TOTAL CARBON	mg/l	P00690	12.4
TOT INORGANIC CARBON	mg/l	P00685	1.5
TOTAL ORGANIC CARBON	mg/l	P00680	10.9
TURBIDITY	JTU	P00076	5.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	71
TOTAL SOLIDS	mg/l	P00500	74
CHLORIDE	mg/l	P00940	8.6
FECAL COLIFORM	MF	P31613	700
TOTAL COLIFORM	MF	P31504	4600
FECAL STREPT	MF	P31673	1600

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

ONG RUN B8,2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	7	5.0	6.5	5.7	(6.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	7	56.4	140.0	86.9	26.9
ALKALINITY AS CaCO3	mg/l	7	<0.5	14.0	10.0	4.7
NO2+NO3-N	mg/l	7	0.12	0.58	0.39	0.16
NH3-N	mg/l	7	<.10	0.39	0.15	0.14
TOTAL KJELDAHL-N	mg/l	6	0.44	1.20	0.67	0.29
ORGANIC N	mg/l	6	0.05	1.20	0.52	0.41
TOTAL N	mg/l	6	0.75	1.32	1.04	0.24
TOTAL ORTHO P-PO4	mg/l	6	<.01	0.04	0.02	0.01
TOTAL P-PO4	mg/l	5	0.02	0.04	0.03	0.01
POLY PO4	mg/l	5	<.01	0.01	<.01	0.01
BOD 5-DAY	mg/l	4	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	3	<2.0	4.4	<2.0	2.5
COD-LOW	mg/l	7	<1.0	24.0	12.3	7.5
TOTAL CARBON	mg/l	4	4.2	12.4	8.6	3.5
TOT INORGANIC CARBON	mg/l	4	0.9	4.3	2.6	1.7
TOTAL ORGANIC CARBON	mg/l	5	3.3	10.9	6.0	2.9
TURBIDITY	JTU	7	2.5	23.0	6.5	7.4
TOTAL SUSPENDED SOLIDS	mg/l	6	<1	10	4	3
TOTAL DISSOLVED SOLIDS	mg/l	6	42	71	54	10
TOTAL SOLIDS	mg/l	6	48	74	58	9
CHLORIDE	mg/l	7	7.7	9.8	8.9	0.8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

MIRROR LAKE (NORTH BRANCH RANCOCAS CREEK) B8,7

STATION LOCATION: CLUB HOUSE DRIVE IN BROWNS MILLS, PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			15
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	26.0
WATER TEMPERATURE	deg. C	P00010	25.0
pH-LAB	pH	P00403	5.8
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	64.9
ALKALINITY AS CaCO ₃	mg/l	P00410	3.4
NO ₂ +NO ₃ -N	mg/l	P00630	<.04
NH ₃ -N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.30
ORGANIC N	mg/l	P00605	0.30
TOTAL N	mg/l	P00600	0.30
TOTAL ORTHO P-PO ₄	mg/l	P00660	0.02
TOTAL P-PO ₄	mg/l	P00650	0.04
POLY PO ₄	mg/l	P00655	0.01
BOD 5-DAY	mg/l	P00310	2.1
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	36.5
TOTAL CARBON	mg/l	P00690	16.4
TOT INORGANIC CARBON	mg/l	P00685	1.8
TOTAL ORGANIC CARBON	mg/l	P00680	14.6
TURBIDITY	JTU	P00076	4.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	8
TOTAL DISSOLVED SOLIDS	mg/l	P70300	56
TOTAL SOLIDS	mg/l	P00500	64
CHLORIDE	mg/l	P00940	5.1
FECAL COLIFORM	MF	P31613	100
TOTAL COLIFORM	MF	P31504	2000
FECAL STREPT	MF	P31673	200

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

MIRROR LAKE (NORTH BRANCH RANCOCAS CREEK) B8,7

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	9	4.2	6.3	5.1	(5.8)
SPECIFIC CONDUCTIVITY-LAB	umhos	9	25.2	82.0	59.7	18.3
ALKALINITY AS CaCO3	mg/l	8	2.4	13.7	5.1	3.7
NO2+NO3-N	mg/l	9	<.04	0.18	0.08	0.08
NH3-N	mg/l	9	<.10	0.38	0.16	0.14
TOTAL KJELDAHL-N	mg/l	8	0.30	0.78	0.60	0.14
ORGANIC N	mg/l	8	0.27	0.78	0.44	0.19
TOTAL N	mg/l	8	0.30	0.90	0.67	0.19
TOTAL ORTHO P-PO4	mg/l	8	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	8	0.02	0.06	0.03	0.01
POLY PO4	mg/l	8	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	6	<2.0	3.0	<2.0	<2.0
BOD 7-DAY	mg/l	3	<2.0	2.4	<2.0	<2.0
COD-LOW	mg/l	9	<1.0	36.5	17.2	11.6
TOTAL CARBON	mg/l	5	5.3	16.4	10.6	4.0
TOT INORGANIC CARBON	mg/l	5	0.6	1.9	1.4	0.6
TOTAL ORGANIC CARBON	mg/l	5	4.3	14.6	9.2	3.9
TURBIDITY	JTU	9	2.3	5.7	3.8	1.2
TOTAL SUSPENDED SOLIDS	mg/l	9	<1	24	8	7
TOTAL DISSOLVED SOLIDS	mg/l	9	26	66	46	12
TOTAL SOLIDS	mg/l	9	27	76	53	16
CHLORIDE	mg/l	9	3.7	8.2	5.9	1.4

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

NORTH BRANCH RANCOCAS CREEK AT MIRROR LAKE OUTLET B8,1

STATION LOCATION: ROUTE 530 IN BROWNS MILLS, PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE		
MONTH			8	3	4
DAY			15	11	29
YEAR			90	91	91
WEATHER	code	P00041	0	0	2
AIR TEMPERATURE	deg. C	---	23.0	4.0	12.0
WATER TEMPERATURE	deg. C	P00010	24.0	7.0	16.5
pH-LAB	pH	P00403	5.7	6.9	5.0
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	43.3	46.6	39.9
ALKALINITY AS CaCO3	mg/l	P00410	5.3	10.2	<0.5
HARDNESS(exp)	mg/l	P00900			2.4
NO2+NO3-N	mg/l	P00630	<.04	0.05	<.04
NH3-N	mg/l	P00610	<.10	1.45	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.52	3.50	0.58
ORGANIC N	mg/l	P00605	0.52	2.05	0.58
TOTAL N	mg/l	P00600	0.52	3.55	0.58
TOTAL ORTHO P-PO4	mg/l	P00660	0.03	0.02	0.02
TOTAL P-PO4	mg/l	P00650	0.04	0.04	0.03
POLY PO4	mg/l	P00655	0.01	<.01	0.01
BOD 5-DAY	mg/l	P00310	<2.0		
BOD 7-DAY	mg/l	P00315		2.3	1.0
COD-LOW	mg/l	P00335	34.5	11.0	14.0
TOTAL CARBON	mg/l	P00690	13.8	7.0	8.6
TOT INORGANIC CARBON	mg/l	P00685	1.3	0.3	0.6
TOTAL ORGANIC CARBON	mg/l	P00680	12.4	6.7	8.0
TURBIDITY	JTU	P00076	5.0	2.0	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	4	3	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	50	50	40
TOTAL SOLIDS	mg/l	P00500	54	53	44
TOTAL CALCIUM(exp)	mg/l	P00916			1.6
TOTAL MAGNESIUM(exp)	mg/l	P00927			0.8
CHLORIDE	mg/l	P00940	3.7	4.2	3.7
FECAL COLIFORM	MF	P31613	<50	<50	<50
TOTAL COLIFORM	MF	P31504	1200	600	<200
FECAL STREPT	MF	P31673	<100	<100	<100

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

NORTH BRANCH RANCOCAS CREEK AT MIRROR LAKE OUTLET B8,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	4.2	6.9	4.9	(5.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	37.6	50.0	43.6	4.1
ALKALINITY AS CaCO ₃	mg/l	9	<0.5	10.2	2.2	3.5
HARDNESS(exp)	mg/l	1	2.4	2.4	2.4	
NO ₂ +NO ₃ -N	mg/l	10	<.04	0.32	0.04	0.10
NH ₃ -N	mg/l	10	<.10	1.45	0.24	0.44
TOTAL KJELDAHL-N	mg/l	9	0.52	3.50	1.24	1.04
ORGANIC N	mg/l	9	0.26	2.35	0.99	0.75
TOTAL N	mg/l	9	0.52	3.55	1.26	1.05
TOTAL ORTHO P-PO ₄	mg/l	9	<.01	0.03	0.02	0.01
TOTAL P-PO ₄	mg/l	9	<.01	0.13	0.05	0.04
POLY PO ₄	mg/l	9	<.01	0.06	0.01	0.02
BOD 5-DAY	mg/l	4	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	6	<2.0	5.4	<2.0	2.1
COD-LOW	mg/l	10	2.0	52.5	20.6	15.5
TOTAL CARBON	mg/l	6	7.0	13.8	10.5	2.5
TOT INORGANIC CARBON	mg/l	6	0.3	1.3	0.8	0.4
TOTAL ORGANIC CARBON	mg/l	7	6.7	12.4	9.4	2.2
TURBIDITY	JTU	10	1.9	6.0	3.3	1.4
TOTAL SUSPENDED SOLIDS	mg/l	10	1	31	9	10
TOTAL DISSOLVED SOLIDS	mg/l	10	18	50	40	10
TOTAL SOLIDS	mg/l	10	25	78	49	13
TOTAL CALCIUM(exp)	mg/l	1	1.6	1.6	1.6	
TOTAL MAGNESIUM(exp)	mg/l	1	0.8	0.8	0.8	
CHLORIDE	mg/l	10	3.7	16.5	5.9	3.8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

POLE BRIDGE BRANCH PCNR3

STATION LOCATION: BELOW DEER PARK BRANCH CONFLUENCE, PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			4
DAY			29
YEAR			91
WEATHER	code	P00041	2
AIR TEMPERATURE	deg. C	---	12.0
WATER TEMPERATURE	deg. C	P00010	12.5
pH-LAB	pH	P00403	4.1
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	59.8
HARDNESS(exp)	mg/l	P00900	1.8
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.76
ORGANIC N	mg/l	P00605	0.76
TOTAL N	mg/l	P00600	0.76
TOTAL P-PO4	mg/l	P00650	0.03
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	28.5
TOTAL CARBON	mg/l	P00690	23.6
TOT INORGANIC CARBON	mg/l	P00685	1.4
TOTAL ORGANIC CARBON	mg/l	P00680	22.3
TURBIDITY	JTU	P00076	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	54
TOTAL SOLIDS	mg/l	P00500	55
TOTAL CALCIUM(exp)	mg/l	P00916	1.1
TOTAL MAGNESIUM(exp)	mg/l	P00927	0.7
CHLORIDE	mg/l	P00940	4.0

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

POLE BRIDGE BRANCH PCNR3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	1	4.1	4.1	4.1	(4.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	1	59.8	59.8	59.8	
HARDNESS(exp)	mg/l	1	1.8	1.8	1.8	
NO2+NO3-N	mg/l	1	<.04	<.04	<.04	
NH3-N	mg/l	1	<.10	<.10	<.10	
TOTAL KJELDAHL-N	mg/l	1	0.76	0.76	0.76	
ORGANIC N	mg/l	1	0.76	0.76	0.76	
TOTAL N	mg/l	1	0.76	0.76	0.76	
TOTAL P-PO4	mg/l	1	0.03	0.03	0.03	
BOD 7-DAY	mg/l	1	<2.0	<2.0	<2.0	
COD-LOW	mg/l	1	28.5	28.5	28.5	
TOTAL CARBON	mg/l	1	23.6	23.6	23.6	
TOT INORGANIC CARBON	mg/l	1	1.4	1.4	1.4	
TOTAL ORGANIC CARBON	mg/l	1	22.3	22.3	22.3	
TURBIDITY	JTU	1	<1.0	<1.0	<1.0	
TOTAL SUSPENDED SOLIDS	mg/l	1	1	1	1	
TOTAL DISSOLVED SOLIDS	mg/l	1	54	54	54	
TOTAL SOLIDS	mg/l	1	55	55	55	
TOTAL CALCIUM(exp)	mg/l	1	1.1	1.1	1.1	
TOTAL MAGNESIUM(exp)	mg/l	1	0.7	0.7	0.7	
CHLORIDE	mg/l	1	4.0	4.0	4.0	

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

POLE BRIDGE BRANCH B5,4

STATION LOCATION: ROUTE 70, PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			10
DAY			1
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	
WATER TEMPERATURE	deg. C	P00010	
pH-LAB	pH	P00403	4.9
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	32.8
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.86
ORGANIC N	mg/l	P00605	0.86
TOTAL N	mg/l	P00600	0.86
TOTAL ORTHO P-PO4	mg/l	P00660	0.03
TOTAL P-PO4	mg/l	P00650	0.04
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	3.1
COD-LOW	mg/l	P00335	45.5
TOTAL CARBON	mg/l	P00690	10.6
TOT INORGANIC CARBON	mg/l	P00685	1.5
TOTAL ORGANIC CARBON	mg/l	P00680	9.1
TURBIDITY	JTU	P00076	4.8
TOTAL SUSPENDED SOLIDS	mg/l	P00530	15
TOTAL DISSOLVED SOLIDS	mg/l	P70300	23
TOTAL SOLIDS	mg/l	P00500	38
CHLORIDE	mg/l	P00940	2.7
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	200
FECAL STREPT	MF	P31673	<100

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

POLE BRIDGE BRANCH 85,4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	6	3.2	4.9	3.7	(4.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	6	32.8	92.0	59.6	20.6
NO2+NO3-N	mg/l	6	<.04	<.04	<.04	
NH3-N	mg/l	6	<.10	0.30	0.19	0.11
TOTAL KJELDAHL-N	mg/l	5	0.60	1.10	0.76	0.22
ORGANIC N	mg/l	5	0.33	0.86	0.58	0.24
TOTAL N	mg/l	5	0.60	1.10	0.76	0.22
TOTAL ORTHO P-PO4	mg/l	6	<.01	0.03	0.01	0.01
TOTAL P-PO4	mg/l	6	0.02	0.06	0.03	0.01
POLY PO4	mg/l	6	<.01	0.03	0.01	0.01
BOD 5-DAY	mg/l	3	<2.0	4.8	2.3	2.4
BOD 7-DAY	mg/l	3	<2.0	3.1	<2.0	<2.0
COD-LOW	mg/l	6	25.0	62.0	41.2	13.0
TOTAL CARBON	mg/l	4	9.3	24.2	15.5	6.9
TOT INORGANIC CARBON	mg/l	4	1.3	1.9	1.5	0.2
TOTAL ORGANIC CARBON	mg/l	4	8.0	22.8	14.0	6.9
TURBIDITY	JTU	6	1.0	4.8	2.3	1.3
TOTAL SUSPENDED SOLIDS	mg/l	6	1	494	88	199
TOTAL DISSOLVED SOLIDS	mg/l	6	23	69	47	18
TOTAL SOLIDS	mg/l	6	38	551	134	205
CHLORIDE	mg/l	6	2.7	8.0	6.0	2.0

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

CRANBERRY BRANCH B5,3

STATION LOCATION: ROUTE 70, PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			10
DAY			1
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	16.0
WATER TEMPERATURE	deg. C	P00010	17.0
pH-LAB	pH	P00403	4.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	46.8
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.83
ORGANIC N	mg/l	P00605	0.83
TOTAL N	mg/l	P00600	0.83
TOTAL ORTHO P-PO4	mg/l	P00660	
TOTAL P-PO4	mg/l	P00650	0.02
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	37.0
TOTAL CARBON	mg/l	P00690	17.1
TOT INORGANIC CARBON	mg/l	P00685	1.6
TOTAL ORGANIC CARBON	mg/l	P00680	15.5
TURBIDITY	JTU	P00076	2.4
TOTAL SUSPENDED SOLIDS	mg/l	P00530	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	41
TOTAL SOLIDS	mg/l	P00500	45
CHLORIDE	mg/l	P00940	5.4
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	600
FECAL STREPT	MF	P31673	<100

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

CRANBERRY BRANCH B5,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	4	3.8	4.2	4.0	(4.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	4	34.1	68.2	52.7	15.3
NO2+NO3-N	mg/l	4	<.04	0.05	<.04	<.04
NH3-N	mg/l	4	<.10	0.41	0.17	0.17
TOTAL KJELDAHL-N	mg/l	4	0.54	1.00	0.79	0.19
ORGANIC N	mg/l	4	0.44	0.83	0.62	0.16
TOTAL N	mg/l	4	0.54	1.00	0.80	0.19
TOTAL ORTHO P-PO4	mg/l	3	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	4	0.02	0.04	0.03	0.01
POLY PO4	mg/l	4	<.01	0.02	<.01	0.01
BOD 5-DAY	mg/l	2	<2.0	2.9	<2.0	2.1
BOD 7-DAY	mg/l	2	<2.0	<2.0	<2.0	
COO-LOW	mg/l	4	20.0	60.5	35.9	17.9
TOTAL CARBON	mg/l	4	8.5	25.3	15.2	7.7
TOT INORGANIC CARBON	mg/l	4	1.0	1.7	1.4	0.3
TOTAL ORGANIC CARBON	mg/l	4	7.5	24.0	13.8	7.7
TURBIDITY	JTU	4	1.0	2.4	1.8	0.6
TOTAL SUSPENDED SOLIDS	mg/l	4	3	19	8	8
TOTAL DISSOLVED SOLIDS	mg/l	4	28	73	47	19
TOTAL SOLIDS	mg/l	4	45	78	54	16
CHLORIDE	mg/l	4	3.9	6.7	5.2	1.2

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

CRANBERRY BRANCH B5,2

STATION LOCATION: ROUTE 530, PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			10	4
DAY			1	29
YEAR			90	91
WEATHER	code	P00041	0	2
AIR TEMPERATURE	deg. C	---	15.0	12.0
WATER TEMPERATURE	deg. C	P00010	17.0	14.0
pH-LAB	pH	P00403	4.5	4.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	39.7	41.2
HARDNESS(exp)	mg/l	P00900		1.6
NO2+NO3-N	mg/l	P00630	<.04	0.05
NH3-N	mg/l	P00610		<.10
TOTAL KJELDAHL-N	mg/l	P00625		0.86
ORGANIC N	mg/l	P00605		0.86
TOTAL N	mg/l	P00600		0.91
TOTAL ORTHO P-PO4	mg/l	P00660	0.11	0.09
TOTAL P-PO4	mg/l	P00650	0.10	0.10
POLY PO4	mg/l	P00655	<.01	<.01
BOD 5-DAY	mg/l	P00310		
BOD 7-DAY	mg/l	P00315	<2.0	<2.0
COD-LOW	mg/l	P00335	40.0	29.5
TOTAL CARBON	mg/l	P00690	19.6	18.7
TOT INORGANIC CARBON	mg/l	P00685	2.2	1.7
TOTAL ORGANIC CARBON	mg/l	P00680	17.4	17.0
TURBIDITY	JTU	P00076	8.6	5.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	7	7
TOTAL DISSOLVED SOLIDS	mg/l	P70300	42	48
TOTAL SOLIDS	mg/l	P00500	49	55
TOTAL CALCIUM(exp)	mg/l	P00916		0.8
TOTAL MAGNESIUM(exp)	mg/l	P00927		0.8
CHLORIDE	mg/l	P00940	4.7	3.7
FECAL COLIFORM	MF	P31613	50	<50
TOTAL COLIFORM	MF	P31504	2400	<200
FECAL STREPT	MF	P31673	200	<100

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

CRANBERRY BRANCH B5,2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	8	3.3	4.6	3.8	(4.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	9	36.8	86.9	53.6	15.8
HARDNESS(exp)	mg/l	1	1.6	1.6	1.6	
NO2+NO3-N	mg/l	9	<.04	0.05	<.04	<.04
NH3-N	mg/l	8	<.10	0.45	0.20	0.13
TOTAL KJELDAHL-N	mg/l	7	0.55	1.50	1.06	0.33
ORGANIC N	mg/l	7	0.39	1.32	0.87	0.29
TOTAL N	mg/l	7	0.55	1.50	1.07	0.33
TOTAL ORTHO P-PO4	mg/l	9	<.01	0.27	0.09	0.09
TOTAL P-PO4	mg/l	9	0.03	0.31	0.10	0.10
POLY PO4	mg/l	9	<.01	0.02	<.01	0.01
BOD 5-DAY	mg/l	3	<2.0	7.4	2.5	4.3
BOD 7-DAY	mg/l	6	<2.0	<2.0	<2.0	
COD-LOW	mg/l	9	4.3	70.0	38.4	20.7
TOTAL CARBON	mg/l	5	10.6	28.8	18.9	6.6
TOT INORGANIC CARBON	mg/l	5	1.3	2.2	1.8	0.4
TOTAL ORGANIC CARBON	mg/l	5	8.4	27.4	17.1	6.8
TURBIDITY	JTU	9	1.8	18.0	5.5	5.1
TOTAL SUSPENDED SOLIDS	mg/l	9	3	40	11	12
TOTAL DISSOLVED SOLIDS	mg/l	9	23	77	43	16
TOTAL SOLIDS	mg/l	9	26	85	54	21
TOTAL CALCIUM(exp)	mg/l	1	0.8	0.8	0.8	
TOTAL MAGNESIUM(exp)	mg/l	1	0.8	0.8	0.8	
CHLORIDE	mg/l	9	3.7	7.5	5.7	1.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

POLE BRIDGE BRANCH B5,1

STATION LOCATION: WISSAHICKON TRAIL IN COUNTRY LAKES, PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			10	4
DAY			1	29
YEAR			90	91
WEATHER	code	P00041	0	2
AIR TEMPERATURE	deg. C	---		12.0
WATER TEMPERATURE	deg. C	P00010		16.0
pH-LAB	pH	P00403	7.1	4.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	65.3	49.8
HARDNESS(exp)	mg/l	P00900		2.6
NO2+NO3-N	mg/l	P00630	<.04	<.04
NH3-N	mg/l	P00610	<.10	<.10
TOTAL KJELDAHL-N	mg/l	P00625	1.65	0.82
ORGANIC N	mg/l	P00605	1.65	0.82
TOTAL N	mg/l	P00600	1.65	0.82
TOTAL ORTHO P-PO4	mg/l	P00660	0.17	0.04
TOTAL P-PO4	mg/l	P00650	0.25	0.05
POLY PO4	mg/l	P00655	<.01	0.01
BOD 5-DAY	mg/l	P00310		
BOD 7-DAY	mg/l	P00315	8.6	1.5
COD-LOW	mg/l	P00335	53.5	11.5
TOTAL CARBON	mg/l	P00690	22.5	17.7
TOT INORGANIC CARBON	mg/l	P00685	1.2	0.8
TOTAL ORGANIC CARBON	mg/l	P00680	21.4	16.9
TURBIDITY	JTU	P00076	19.6	4.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	28	5
TOTAL DISSOLVED SOLIDS	mg/l	P70300	92	53
TOTAL SOLIDS	mg/l	P00500	120	58
TOTAL CALCIUM(exp)	mg/l	P00916		1.1
TOTAL MAGNESIUM(exp)	mg/l	P00927		1.5
CHLORIDE	mg/l	P00940	6.0	4.2
FECAL COLIFORM	MF	P31613	700	100
TOTAL COLIFORM	MF	P31504	1000	400
FECAL STREPT	MF	P31673	600	100

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

POLE BRIDGE BRANCH B5,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	9	2.9	7.1	3.7	(4.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	9	1.4	90.0	50.0	23.4
HARDNESS(exp)	mg/l	1	2.6	2.6	2.6	
NO2+NO3-N	mg/l	9	<.04	0.14	<.04	0.05
NH3-N	mg/l	9	<.10	0.23	0.11	<.10
TOTAL KJELDAHL-N	mg/l	8	0.31	1.65	0.91	0.39
ORGANIC N	mg/l	8	0.31	1.65	0.81	0.40
TOTAL N	mg/l	8	0.31	1.65	0.91	0.39
TOTAL ORTHO P-PO4	mg/l	9	<.01	0.17	0.05	0.05
TOTAL P-PO4	mg/l	9	0.01	0.25	0.09	0.07
POLY PO4	mg/l	9	<.01	0.04	0.01	0.01
BOD 5-DAY	mg/l	3	<2.0	5.1	<2.0	2.9
BOD 7-DAY	mg/l	6	<2.0	8.6	2.7	3.3
COD-LOW	mg/l	9	11.5	53.5	35.1	15.6
TOTAL CARBON	mg/l	4	10.1	22.5	17.7	5.4
TOT INORGANIC CARBON	mg/l	4	0.7	1.2	1.0	0.3
TOTAL ORGANIC CARBON	mg/l	4	9.5	21.4	16.7	5.2
TURBIDITY	JTU	9	2.0	19.6	5.8	5.4
TOTAL SUSPENDED SOLIDS	mg/l	9	3	28	13	10
TOTAL DISSOLVED SOLIDS	mg/l	9	20	92	53	24
TOTAL SOLIDS	mg/l	9	32	120	66	26
TOTAL CALCIUM(exp)	mg/l	1	1.1	1.1	1.1	
TOTAL MAGNESIUM(exp)	mg/l	1	1.5	1.5	1.5	
CHLORIDE	mg/l	9	4.2	11.5	7.1	2.3

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

NORTH BRANCH MT. MISERY BROOK PMM1

STATION LOCATION: BOGS IN OCEAN CO NEAR BURLINGTON CO LINE, MANCHESTER TOWNSHIP, OCEAN COUNTY.

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			2	4
DAY			26	23
YEAR			91	91
WEATHER	code	P00041	7	0
WATER TEMPERATURE	deg. C	P00010	4.5	10.0
DISSOLVED OXYGEN (WINKLER)	mg/l	P00300		10.2
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	11.7	10.2
pH-FIELD	pH	P00400	4.2	4.2
pH-LAB	pH	P00403	4.0	5.1
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	30	29
ACIDITY	mg/l	P00435	16	16
HARDNESS	mg/l	P00900	8	6
SULFATE(tot)	mg/l	P00945	<1	<1
NO2+NO3-N	mg/l	P00630	0.06	0.01
NH3-N	mg/l	P00610	0.06	0.05
TOTAL KJELDAHL-N	mg/l	P00625	0.16	0.29
ORGANIC N	mg/l	P00605	0.10	0.24
TOTAL N	mg/l	P00600	0.22	0.30
TOTAL ORTHO P AS P	mg/l	P70507	<.01	<.01
TOTAL P AS P	mg/l	P00665	0.02	0.03
TURBIDITY	JTU	P00076	4.3	2.1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	25	17

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

NORTH BRANCH MT. MISERY BROOK PMM1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (WINKLER)	mg/l	1	10.2	10.2	10.2	
DISSOLVED OXYGEN (PROBE)	mg/l	2	10.2	11.7	11.0	1.1
pH-FIELD	pH	2	4.2	4.2	4.2	(4.2)
pH-LAB	pH	2	4.0	5.1	4.3	(4.3)
SPECIFIC CONDUCTIVITY-FIELD	umhos	2	29	30	30	1
ACIDITY	mg/l	2	16	16	16	
HARDNESS	mg/l	2	6	8	7	1
SULFATE(tot)	mg/l	2	<1	<1	<1	
NO2+NO3-N	mg/l	2	0.01	0.06	0.04	0.04
NH3-N	mg/l	2	0.05	0.06	0.06	0.01
TOTAL KJELDAHL-N	mg/l	2	0.16	0.29	0.23	0.09
ORGANIC N	mg/l	2	0.10	0.24	0.17	0.10
TOTAL N	mg/l	2	0.22	0.30	0.26	0.06
TOTAL ORTHO P AS P	mg/l	2	<.01	<.01	<.01	
TOTAL P AS P	mg/l	2	0.02	0.03	0.03	0.01
TURBIDITY	JTU	2	2.1	4.3	3.2	1.6
TOTAL DISSOLVED SOLIDS	mg/l	2	17	25	21	6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

MOUNT MISERY BROOK B5,5

STATION LOCATION: ROUTE 70, PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			10	4
DAY			1	29
YEAR			90	91
WEATHER	code	P00041	0	2
AIR TEMPERATURE	deg. C	---	16.0	12.0
WATER TEMPERATURE	deg. C	P00010	18.0	13.5
pH-LAB	pH	P00403	4.4	4.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	32.5	40.2
HARDNESS(exp)	mg/l	P00900		1.4
NO2+NO3-N	mg/l	P00630	<.04	<.04
NH3-N	mg/l	P00610	<.10	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.54	0.60
ORGANIC N	mg/l	P00605	0.54	0.60
TOTAL N	mg/l	P00600	0.54	0.60
TOTAL ORTHO P-PO4	mg/l	P00660	0.02	0.02
TOTAL P-PO4	mg/l	P00650	0.01	0.04
POLY PO4	mg/l	P00655	<.01	0.01
BOD 5-DAY	mg/l	P00310		
BOD 7-DAY	mg/l	P00315	<2.0	<2.0
COD-LOW	mg/l	P00335	10.0	18.0
TOTAL CARBON	mg/l	P00690	6.1	10.7
TOT INORGANIC CARBON	mg/l	P00685	1.2	0.7
TOTAL ORGANIC CARBON	mg/l	P00680	4.9	10.0
TURBIDITY	JTU	P00076	1.1	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	3	1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	20	33
TOTAL SOLIDS	mg/l	P00500	23	34
TOTAL CALCIUM(exp)	mg/l	P00916		0.8
TOTAL MAGNESIUM(exp)	mg/l	P00927		0.6
CHLORIDE	mg/l	P00940	3.2	2.9
FECAL COLIFORM	MF	P31613	<50	<50
TOTAL COLIFORM	MF	P31504	1200	600
FECAL STREPT	MF	P31673	300	<100

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

MOUNT MISERY BROOK B5,5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	8	3.0	4.4	3.7	(4.3)
SPECIFIC CONDUCTIVITY-LAB	umhos	8	30.9	62.0	41.1	10.4
HARDNESS(exp)	mg/l	1	1.4	1.4	1.4	
NO2+NO3-N	mg/l	8	<.04	<.04	<.04	
NH3-N	mg/l	8	<.10	0.25	0.10	0.11
TOTAL KJELDAHL-N	mg/l	7	0.31	0.64	0.55	0.11
ORGANIC N	mg/l	7	0.31	0.60	0.46	0.10
TOTAL N	mg/l	7	0.31	0.64	0.55	0.11
TOTAL ORTHO P-PO4	mg/l	8	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	8	<.01	0.04	0.01	0.01
POLY PO4	mg/l	8	<.01	0.02	<.01	0.01
BOD 5-DAY	mg/l	3	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	5	<2.0	2.1	<2.0	<2.0
COD-LOW	mg/l	8	7.0	30.5	17.8	8.2
TOTAL CARBON	mg/l	5	4.6	10.8	7.9	2.8
TOT INORGANIC CARBON	mg/l	5	0.7	1.2	1.0	0.2
TOTAL ORGANIC CARBON	mg/l	5	3.3	10.0	6.9	3.0
TURBIDITY	JTU	8	<1.0	2.0	1.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	8	<1	13	5	4
TOTAL DISSOLVED SOLIDS	mg/l	8	20	45	33	9
TOTAL SOLIDS	mg/l	8	23	50	38	9
TOTAL CALCIUM(exp)	mg/l	1	0.8	0.8	0.8	
TOTAL MAGNESIUM(exp)	mg/l	1	0.6	0.6	0.6	
CHLORIDE	mg/l	8	2.9	6.0	3.6	1.0

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

BISPHAM MILL CREEK AT LEBANON LAKES OUTLET B5,6

STATION LOCATION: ROUTE 70, PEMBERTON TWP AND WOODLAND TWP BORDER, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			10	4
DAY			1	29
YEAR			90	91
WEATHER	code	P00041	0	2
AIR TEMPERATURE	deg. C	---	15.0	12.0
WATER TEMPERATURE	deg. C	P00010	17.0	15.5
pH-LAB	pH	P00403	4.7	4.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	31.1	35.5
HARDNESS(exp)	mg/l	P00900		2.0
NO2+NO3-N	mg/l	P00630	<.04	<.04
NH3-N	mg/l	P00610	<.10	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.94	0.64
ORGANIC N	mg/l	P00605	0.94	0.64
TOTAL N	mg/l	P00600	0.94	0.64
TOTAL ORTHO P-PO4	mg/l	P00660	0.03	0.03
TOTAL P-PO4	mg/l	P00650	0.02	0.06
POLY PO4	mg/l	P00655	<.01	<.01
BOD 5-DAY	mg/l	P00310		
BOD 7-DAY	mg/l	P00315	<2.0	<2.0
COD-LOW	mg/l	P00335	25.0	9.5
TOTAL CARBON	mg/l	P00690	13.8	11.0
TOT INORGANIC CARBON	mg/l	P00685	1.6	0.8
TOTAL ORGANIC CARBON	mg/l	P00680	12.2	10.3
TURBIDITY	JTU	P00076	4.2	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	8	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	34	78
TOTAL SOLIDS	mg/l	P00500	42	82
TOTAL CALCIUM(exp)	mg/l	P00916		0.8
TOTAL MAGNESIUM(exp)	mg/l	P00927		1.2
CHLORIDE	mg/l	P00940	3.5	2.8
FECAL COLIFORM	MF	P31613	<50	<50
TOTAL COLIFORM	MF	P31504	200	200
FECAL STREPT	MF	P31673	300	<100

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

BISPHAM MILL CREEK AT LEBANON LAKES OUTLET B5,6

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	9	3.1	4.7	3.7	(4.3)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	29.4	65.0	38.8	10.6
HARDNESS(exp)	mg/l	1	2.0	2.0	2.0	
NO2+NO3-N	mg/l	10	<.04	<.04	<.04	
NH3-N	mg/l	10	<.10	0.20	<.10	<.10
TOTAL KJELDAHL-N	mg/l	9	0.32	1.70	0.81	0.39
ORGANIC N	mg/l	9	0.32	1.55	0.77	0.36
TOTAL N	mg/l	9	0.32	1.70	0.81	0.39
TOTAL ORTHO P-PO4	mg/l	10	<.01	0.03	0.01	0.01
TOTAL P-PO4	mg/l	10	<.01	0.11	0.04	0.03
POLY PO4	mg/l	10	<.01	0.08	0.02	0.03
BOD 5-DAY	mg/l	3	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	7	<2.0	2.8	<2.0	<2.0
COD-LOW	mg/l	10	9.5	55.0	26.6	12.8
TOTAL CARBON	mg/l	5	5.3	13.8	10.1	3.9
TOT INORGANIC CARBON	mg/l	5	0.8	1.6	1.2	0.4
TOTAL ORGANIC CARBON	mg/l	5	3.7	12.4	8.9	3.9
TURBIDITY	JTU	10	1.0	4.2	2.7	1.2
TOTAL SUSPENDED SOLIDS	mg/l	10	1	20	8	6
TOTAL DISSOLVED SOLIDS	mg/l	10	12	78	39	18
TOTAL SOLIDS	mg/l	10	16	82	47	17
TOTAL CALCIUM(exp)	mg/l	1	0.8	0.8	0.8	
TOTAL MAGNESIUM(exp)	mg/l	1	1.2	1.2	1.2	
CHLORIDE	mg/l	10	2.8	7.2	4.3	1.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

BISPHAM MILL CREEK AT PRESIDENTIAL LAKES OUTLET B5,7

STATION LOCATION: OREGON TRAIL IN PRESIDENTIAL LAKES, PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			10
DAY			1
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	15.0
WATER TEMPERATURE	deg. C	P00010	17.0
pH-LAB	pH	P00403	4.7
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	42.4
NO2+NO3-N	mg/l	P00630	0.11
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.96
ORGANIC N	mg/l	P00605	0.96
TOTAL N	mg/l	P00600	1.07
TOTAL ORTHO P-PO4	mg/l	P00660	0.03
TOTAL P-PO4	mg/l	P00650	0.02
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	29.5
TOTAL CARBON	mg/l	P00690	13.9
TOT INORGANIC CARBON	mg/l	P00685	2.2
TOTAL ORGANIC CARBON	mg/l	P00680	11.7
TURBIDITY	JTU	P00076	4.7
TOTAL SUSPENDED SOLIDS	mg/l	P00530	8
TOTAL DISSOLVED SOLIDS	mg/l	P70300	51
TOTAL SOLIDS	mg/l	P00500	59
CHLORIDE	mg/l	P00940	5.6
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	<200
FECAL STREPT	MF	P31673	500

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

BISPHAM MILL CREEK AT PRESIDENTIAL LAKES OUTLET B5,7

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	6	3.1	4.7	3.8	(4.5)
SPECIFIC CONDUCTIVITY-LAB	umhos	6	32.3	65.0	45.9	11.1
NO2+NO3-N	mg/l	6	<.04	0.11	0.08	0.04
NH3-N	mg/l	6	<.10	0.18	<.10	<.10
TOTAL KJELDAHL-N	mg/l	5	0.42	0.96	0.71	0.20
ORGANIC N	mg/l	5	0.42	0.96	0.67	0.22
TOTAL N	mg/l	5	0.42	1.07	0.79	0.25
TOTAL ORTHO P-PO4	mg/l	6	<.01	0.03	0.01	0.01
TOTAL P-PO4	mg/l	6	<.01	0.04	0.02	0.01
POLY PO4	mg/l	6	<.01	0.01	<.01	<.01
BOD 5-DAY	mg/l	2	<2.0	4.5	2.2	3.1
BOD 7-DAY	mg/l	4	<2.0	2.0	<2.0	<2.0
COD-LOW	mg/l	6	14.0	40.7	26.4	10.7
TOTAL CARBON	mg/l	4	4.4	13.9	9.1	4.4
TOT INORGANIC CARBON	mg/l	4	0.4	2.2	1.2	0.7
TOTAL ORGANIC CARBON	mg/l	4	3.5	11.7	7.9	3.9
TURBIDITY	JTU	6	1.5	6.0	3.7	1.7
TOTAL SUSPENDED SOLIDS	mg/l	6	<1	19	11	8
TOTAL DISSOLVED SOLIDS	mg/l	6	26	55	41	12
TOTAL SOLIDS	mg/l	6	34	65	52	12
CHLORIDE	mg/l	6	3.7	6.5	5.1	1.0

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

GREENWOOD BRANCH B7,9

STATION LOCATION: NEW LISBON ROAD, PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			4
DAY			29
YEAR			91
WEATHER	code	P00041	2
AIR TEMPERATURE	deg. C	---	12.0
WATER TEMPERATURE	deg. C	P00010	15.0
pH-LAB	pH	P00403	4.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	47.0
ALKALINITY AS CaCO ₃	mg/l	P00410	
HARDNESS(exp)	mg/l	P00900	1.9
NO ₂ +NO ₃ -N	mg/l	P00630	<.04
NH ₃ -N	mg/l	P00610	0.11
TOTAL KJELDAHL-N	mg/l	P00625	0.68
ORGANIC N	mg/l	P00605	0.58
TOTAL N	mg/l	P00600	0.68
TOTAL ORTHO P-PO ₄	mg/l	P00660	0.02
TOTAL P-PO ₄	mg/l	P00650	0.03
POLY PO ₄	mg/l	P00655	0.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	29.0
TOTAL CARBON	mg/l	P00690	11.3
TOT INORGANIC CARBON	mg/l	P00685	0.8
TOTAL ORGANIC CARBON	mg/l	P00680	10.5
TURBIDITY	JTU	P00076	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	53
TOTAL SOLIDS	mg/l	P00500	57
TOTAL CALCIUM(exp)	mg/l	P00916	0.8
TOTAL MAGNESIUM(exp)	mg/l	P00927	1.1
CHLORIDE	mg/l	P00940	3.9
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	<200
FECAL STREPT	MF	P31673	<100

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

GREENWOOD BRANCH B7,9

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	8	4.0	6.3	4.3	(4.3)
SPECIFIC CONDUCTIVITY-LAB	umhos	8	38.8	79.7	49.1	13.2
ALKALINITY AS CaCO ₃	mg/l	1	7.7	7.7	7.7	
HARDNESS(exp)	mg/l	1	1.9	1.9	1.9	
NO ₂ +NO ₃ -N	mg/l	8	<.04	0.25	0.09	0.07
NH ₃ -N	mg/l	8	0.11	0.24	0.17	0.05
TOTAL KjELDAHL-N	mg/l	8	0.42	1.80	0.83	0.44
ORGANIC N	mg/l	8	0.20	1.61	0.66	0.44
TOTAL N	mg/l	8	0.53	1.87	0.92	0.46
TOTAL ORTHO P-PO ₄	mg/l	8	<.01	0.04	0.02	0.01
TOTAL P-PO ₄	mg/l	8	0.03	0.08	0.04	0.02
POLY PO ₄	mg/l	8	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	2	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	6	<2.0	5.9	<2.0	2.4
COD-LOW	mg/l	8	11.0	47.5	24.7	10.8
TOTAL CARBON	mg/l	4	5.2	21.1	12.4	6.5
TOT INORGANIC CARBON	mg/l	4	0.4	2.4	1.3	0.9
TOTAL ORGANIC CARBON	mg/l	4	4.8	18.7	11.1	5.7
TURBIDITY	JTU	8	1.0	11.0	4.3	3.4
TOTAL SUSPENDED SOLIDS	mg/l	8	1	47	10	15
TOTAL DISSOLVED SOLIDS	mg/l	8	28	58	40	11
TOTAL SOLIDS	mg/l	8	30	86	50	19
TOTAL CALCIUM(exp)	mg/l	1	0.8	0.8	0.8	
TOTAL MAGNESIUM(exp)	mg/l	1	1.1	1.1	1.1	
CHLORIDE	mg/l	8	3.9	7.7	5.8	1.4

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

NORTH BRANCH RANCOCAS CREEK B7,8

STATION LOCATION: ROUTE 616 IN PEMBERTON BOROUGH, PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			4
DAY			29
YEAR			91
WEATHER	code	P00041	2
AIR TEMPERATURE	deg. C	---	12.0
WATER TEMPERATURE	deg. C	P00010	15.5
pH-LAB	pH	P00403	4.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	43.5
ALKALINITY AS CaCO3	mg/l	P00410	
HARDNESS(exp)	mg/l	P00900	2.5
NO2+NO3-N	mg/l	P00630	0.06
NH3-N	mg/l	P00610	0.11
TOTAL KjELDAHL-N	mg/l	P00625	0.70
ORGANIC N	mg/l	P00605	0.59
TOTAL N	mg/l	P00600	0.76
TOTAL ORTHO P-PO4	mg/l	P00660	0.04
TOTAL P-PO4	mg/l	P00650	0.04
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	1.0
COD-LOW	mg/l	P00335	12.0
TOTAL CARBON	mg/l	P00690	11.0
TOT INORGANIC CARBON	mg/l	P00685	0.7
TOTAL ORGANIC CARBON	mg/l	P00680	10.3
TURBIDITY	JTU	P00076	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	6
TOTAL DISSOLVED SOLIDS	mg/l	P70300	38
TOTAL SOLIDS	mg/l	P00500	44
TOTAL CALCIUM(exp)	mg/l	P00916	1.4
TOTAL MAGNESIUM(exp)	mg/l	P00927	1.0
CHLORIDE	mg/l	P00940	4.1
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	600
FECAL STREPT	MF	P31673	100

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

NORTH BRANCH RANCOCAS CREEK B7,8

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	8	4.3	4.9	4.6	(4.7)
SPECIFIC CONDUCTIVITY-LAB	umhos	8	40.0	67.2	46.3	8.9
ALKALINITY AS CaCO ₃	mg/l	6	<0.5	0.8	<0.5	<0.5
HARDNESS(exp)	mg/l	1	2.5	2.5	2.5	
NO ₂ +NO ₃ -N	mg/l	8	0.04	0.17	0.09	0.04
NH ₃ -N	mg/l	8	0.11	0.23	0.18	0.04
TOTAL KJELDAHL-N	mg/l	8	0.29	0.96	0.61	0.19
ORGANIC N	mg/l	8	0.10	0.76	0.43	0.20
TOTAL N	mg/l	8	0.39	1.07	0.70	0.20
TOTAL ORTHO P-PO ₄	mg/l	8	0.01	0.05	0.03	0.02
TOTAL P-PO ₄	mg/l	8	0.01	0.08	0.05	0.02
POLY PO ₄	mg/l	8	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	2	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	6	<2.0	3.0	<2.0	<2.0
COD-LOW	mg/l	8	11.0	27.0	20.2	6.3
TOTAL CARBON	mg/l	4	6.3	14.4	11.3	3.7
TOT INORGANIC CARBON	mg/l	4	0.7	1.2	0.9	0.2
TOTAL ORGANIC CARBON	mg/l	4	5.5	13.2	10.4	3.5
TURBIDITY	JTU	8	1.0	10.0	3.7	2.8
TOTAL SUSPENDED SOLIDS	mg/l	8	1	11	5	4
TOTAL DISSOLVED SOLIDS	mg/l	8	20	47	36	9
TOTAL SOLIDS	mg/l	8	28	51	41	8
TOTAL CALCIUM(exp)	mg/l	1	1.4	1.4	1.4	
TOTAL MAGNESIUM(exp)	mg/l	1	1.0	1.0	1.0	
CHLORIDE	mg/l	8	4.1	7.5	5.6	1.0

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

NORTH BRANCH RANCOCAS CREEK B7,6

STATION LOCATION: BIRMINGHAM ROAD, PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			10
DAY			24
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	17.0
WATER TEMPERATURE	deg. C	P00010	16.0
pH-LAB	pH	P00403	6.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	67.2
ALKALINITY AS CaCO3	mg/l	P00410	3.8
NO2+NO3-N	mg/l	P00630	0.20
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.80
ORGANIC N	mg/l	P00605	0.80
TOTAL N	mg/l	P00600	1.00
TOTAL ORTHO P-PO4	mg/l	P00660	
TOTAL P-PO4	mg/l	P00650	0.16
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	2.9
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	34.5
TOTAL CARBON	mg/l	P00690	15.0
TOT INORGANIC CARBON	mg/l	P00685	1.4
TOTAL ORGANIC CARBON	mg/l	P00680	13.6
TURBIDITY	JTU	P00076	17.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	12
TOTAL DISSOLVED SOLIDS	mg/l	P70300	60
TOTAL SOLIDS	mg/l	P00500	72
CHLORIDE	mg/l	P00940	6.6
FECAL COLIFORM	MF	P31613	10000
TOTAL COLIFORM	MF	P31504	23000
FECAL STREPT	MF	P31673	16000

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

NORTH BRANCH RANCOCAS CREEK B7,6

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	9	4.5	6.3	5.1	(5.8)
SPECIFIC CONDUCTIVITY-LAB	umhos	9	49.7	68.4	59.1	7.6
ALKALINITY AS CaCO ₃	mg/l	7	<0.5	7.1	3.6	2.3
NO ₂ +NO ₃ -N	mg/l	9	0.13	0.28	0.17	0.05
NH ₃ -N	mg/l	9	<.10	0.50	0.28	0.18
TOTAL KJELDAHL-N	mg/l	9	0.46	1.50	0.89	0.35
ORGANIC N	mg/l	9	0.20	1.16	0.61	0.29
TOTAL N	mg/l	9	0.60	1.67	1.06	0.34
TOTAL ORTHO P-PO ₄	mg/l	8	0.01	0.16	0.07	0.05
TOTAL P-PO ₄	mg/l	9	0.04	0.27	0.12	0.07
POLY PO ₄	mg/l	9	<.01	0.04	0.01	0.01
BOD 5-DAY	mg/l	4	<2.0	2.9	<2.0	<2.0
BOD 7-DAY	mg/l	5	<2.0	2.2	<2.0	<2.0
COD-LOW	mg/l	8	19.5	92.0	35.5	24.4
TOTAL CARBON	mg/l	5	8.0	15.1	13.1	2.9
TOT INORGANIC CARBON	mg/l	5	1.1	2.1	1.5	0.4
TOTAL ORGANIC CARBON	mg/l	5	5.9	13.6	11.6	3.2
TURBIDITY	JTU	9	2.2	17.0	6.9	5.4
TOTAL SUSPENDED SOLIDS	mg/l	9	<1	12	4	4
TOTAL DISSOLVED SOLIDS	mg/l	9	39	60	50	7
TOTAL SOLIDS	mg/l	9	40	72	54	9
CHLORIDE	mg/l	9	4.0	13.5	7.3	2.7

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

UNNAMED TRIBUTARY OF NORTH BRANCH RANCOCAS CREEK B3,3

STATION LOCATION: ROUTE 630 (NORTH PEMBERTON ROAD), PEMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			10
DAY			24
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	16.0
WATER TEMPERATURE	deg. C	P00010	15.0
pH-LAB	pH	P00403	6.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	116.1
ALKALINITY AS CaCO3	mg/l	P00410	4.3
NO2+NO3-N	mg/l	P00630	0.46
NH3-N	mg/l	P00610	0.15
TOTAL KJELDAHL-N	mg/l	P00625	0.74
ORGANIC N	mg/l	P00605	0.60
TOTAL N	mg/l	P00600	1.20
TOTAL ORTHO P-PO4	mg/l	P00660	0.20
TOTAL P-PO4	mg/l	P00650	0.20
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	2.2
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	33.0
TOTAL CARBON	mg/l	P00690	13.9
TOT INORGANIC CARBON	mg/l	P00685	1.5
TOTAL ORGANIC CARBON	mg/l	P00680	12.5
TURBIDITY	JTU	P00076	12.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	96
TOTAL SOLIDS	mg/l	P00500	100
CHLORIDE	mg/l	P00940	9.9
FECAL COLIFORM	MF	P31613	11000
TOTAL COLIFORM	MF	P31504	27000
FECAL STREPT	MF	P31673	13000

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

UNNAMED TRIBUTARY OF NORTH BRANCH RANCOCAS CREEK B3,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	12	5.8	7.3	6.4	(6.5)
SPECIFIC CONDUCTIVITY-LAB	umhos	12	92.0	197.7	148.7	31.0
ALKALINITY AS CaCO ₃	mg/l	12	4.3	37.4	17.2	9.9
NO ₂ +NO ₃ -N	mg/l	12	0.11	1.09	0.37	0.26
NH ₃ -N	mg/l	12	<.10	0.54	0.19	0.15
TOTAL KJELDAHL-N	mg/l	11	0.35	1.40	0.63	0.33
ORGANIC N	mg/l	11	<.10	1.40	0.43	0.41
TOTAL N	mg/l	11	0.58	1.51	1.01	0.33
TOTAL ORTHO P-PO ₄	mg/l	11	0.03	0.20	0.08	0.06
TOTAL P-PO ₄	mg/l	12	0.03	0.89	0.19	0.24
POLY PO ₄	mg/l	10	<.01	0.69	0.09	0.22
BOD 5-DAY	mg/l	8	<2.0	2.2	<2.0	<2.0
BOD 7-DAY	mg/l	4	<2.0	5.8	2.8	3.2
COQ-LOW	mg/l	10	<1.0	33.0	9.4	12.0
TOTAL CARBON	mg/l	7	5.5	13.9	8.8	2.7
TOT INORGANIC CARBON	mg/l	7	1.0	8.0	3.8	2.6
TOTAL ORGANIC CARBON	mg/l	7	1.7	12.5	5.0	3.5
TURBIDITY	JTU	12	3.6	50.0	9.6	13.0
TOTAL SUSPENDED SOLIDS	mg/l	12	<1	1092	107	312
TOTAL DISSOLVED SOLIDS	mg/l	12	35	129	101	30
TOTAL SOLIDS	mg/l	12	59	1170	209	307
CHLORIDE	mg/l	12	8.0	12.6	10.7	1.4

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

NORTH BRANCH RANCOCAS CREEK B7,5

STATION LOCATION: ROUTE 206 IN EWANVILLE, EASTAMPTON TWP AND PEMBERTON TWP BORDER, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			10
DAY			24
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	19.0
WATER TEMPERATURE	deg. C	P00010	10.0
pH-LAB	pH	P00403	6.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	85.3
ALKALINITY AS CaCO3	mg/l	P00410	4.9
NO2+NO3-N	mg/l	P00630	0.23
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	1.00
ORGANIC N	mg/l	P00605	1.00
TOTAL N	mg/l	P00600	1.23
TOTAL ORTHO P-PO4	mg/l	P00660	
TOTAL P-PO4	mg/l	P00650	0.21
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	2.8
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	36.5
TOTAL CARBON	mg/l	P00690	15.3
TOT INORGANIC CARBON	mg/l	P00685	1.4
TOTAL ORGANIC CARBON	mg/l	P00680	13.9
TURBIDITY	JTU	P00076	23.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	28
TOTAL DISSOLVED SOLIDS	mg/l	P70300	70
TOTAL SOLIDS	mg/l	P00500	98
CHLORIDE	mg/l	P00940	9.2
FECAL COLIFORM	MF	P31613	18000
TOTAL COLIFORM	MF	P31504	55000
FECAL STREPT	MF	P31673	20000

RANCOCAS CREEK BASIN: NORTH BRANCH RANCOCAS CREEK

NORTH BRANCH RANCOCAS CREEK B7,5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	8	4.7	6.5	5.4	(6.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	8	79.6	158.6	102.8	28.5
ALKALINITY AS CaCO3	mg/l	8	0.5	12.0	5.1	3.8
NO2+NO3-N	mg/l	8	0.10	0.27	0.21	0.06
NH3-N	mg/l	8	<.10	0.67	0.33	0.25
TOTAL KJELDAHL-N	mg/l	7	0.62	5.30	1.68	1.63
ORGANIC N	mg/l	7	0.28	4.75	1.30	1.55
TOTAL N	mg/l	7	0.88	5.52	1.91	1.62
TOTAL ORTHO P-PO4	mg/l	6	0.03	0.21	0.10	0.07
TOTAL P-PO4	mg/l	8	0.04	0.25	0.15	0.08
POLY PO4	mg/l	6	<.01	0.05	0.02	0.02
BOD 5-DAY	mg/l	3	<2.0	2.8	<2.0	<2.0
BOD 7-DAY	mg/l	5	<2.0	2.6	<2.0	<2.0
COD-LOW	mg/l	7	15.0	36.5	25.6	7.8
TOTAL CARBON	mg/l	5	9.2	15.3	13.4	2.5
TOT INORGANIC CARBON	mg/l	5	1.1	2.9	1.8	0.7
TOTAL ORGANIC CARBON	mg/l	5	6.3	13.9	11.6	3.0
TURBIDITY	JTU	8	2.0	23.0	8.2	7.2
TOTAL SUSPENDED SOLIDS	mg/l	8	1	28	8	9
TOTAL DISSOLVED SOLIDS	mg/l	8	10	96	66	26
TOTAL SOLIDS	mg/l	8	21	107	73	27
CHLORIDE	mg/l	8	8.5	22.9	12.6	4.8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

BURLINGTON COUNTY

RANCOCAS CREEK BASIN

SOUTHWEST BRANCH RANCOCAS CREEK

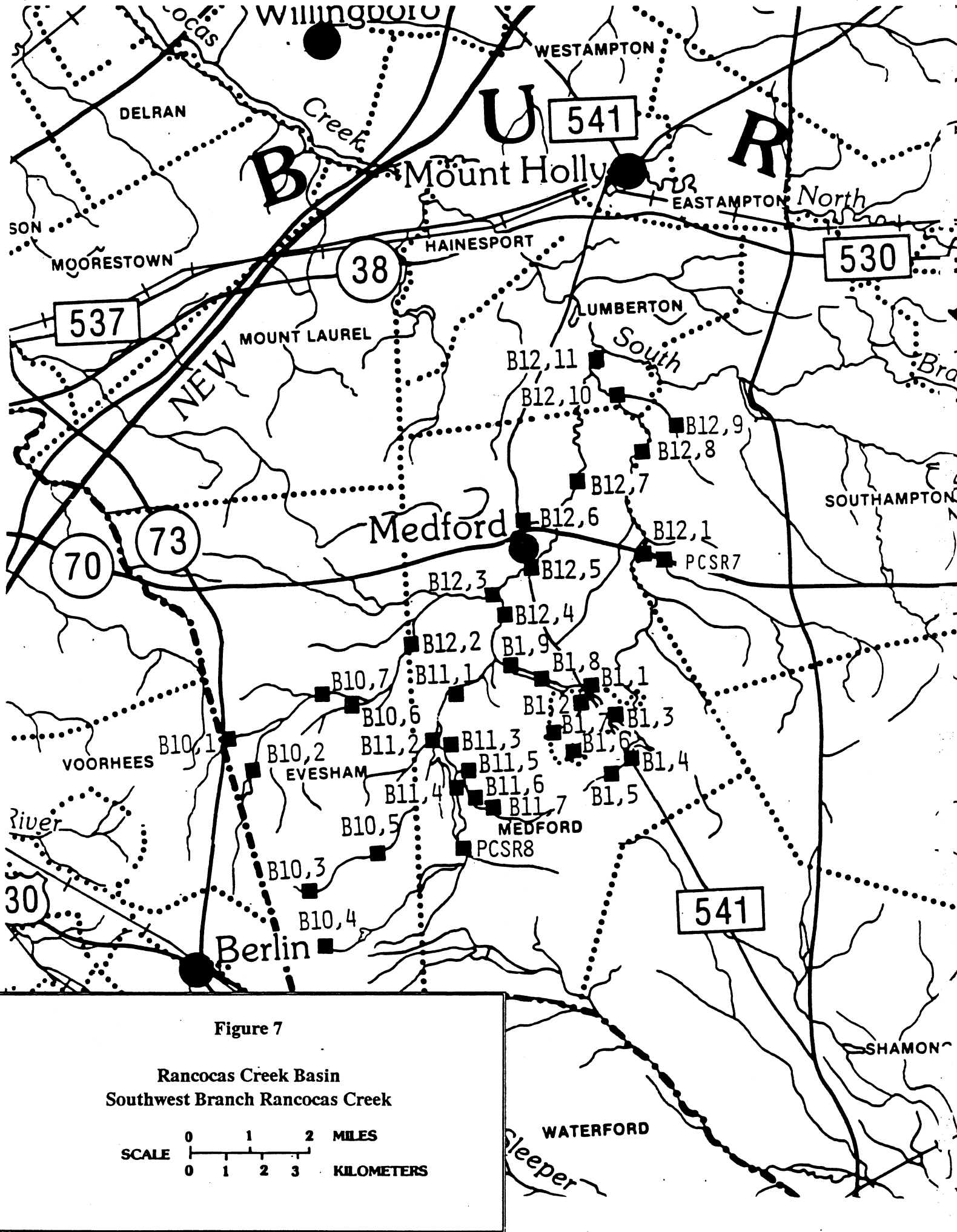


Figure 7

Rancocas Creek Basin
 Southwest Branch Rancocas Creek

SCALE 0 1 2 MILES
 0 1 2 3 KILOMETERS

Table 15. Rancocas Creek Basin (Southwest Branch Rancocas Creek), Burlington County, station names and locations

STATION NAME	STATION CODE	STATION LOCATION	CO(1)	TWP(2)	QUAD(3)
SOUTHWEST BRANCH RANCOCAS CREEK					
BARTON RUN AT KRESSON LK OUTLET (4)	B10,1	BRADDOCKS MILL RD	BU	EV	13
BACK RUN AT KENILWORTH LK OUTLET (4)	B10,2	KENILWORTH RD	BU	EV	13
BARTON RUN (4)	B10,7	TOMLINSON MILL RD (RT 619)	BU	EV	13
BLACK RUN (4)	B10,6	TOMLINSON MILL RD (RT 619)	BU	EV	13
BARTON RUN (4)	B12,2	TUCKERTON RD (RT 620)	BU	ME	6
SOUTHWEST BRANCH RANCOCAS CR (4)	B12,3	HARTFORD RD	BU	ME	6
KETTLE RUN AT MARLTON LKS (4)	B10,4	KETTLE RUN RD & HOPEWELL RD	BU	EV	13
KETTLE RUN AT CENTENNIAL LAKE INLET	PCSR8	BRADDOCKS MILL RD	BU	ME	14
HAYNES CR AT CENTENNIAL LK OUTLET (4)	B11,4	CENTENNIAL DAM RD	BU	ME	14
HAYNES CR TRIB AT MIMOSA LKS INLET (4)	B11,7	BRADDOCKS MILL RD	BU	ME	14
HAYNES CR TRIB AT MIMOSA LKS (4)	B11,6	SCOUT DR	BU	ME	14
HAYNES CR TRIB AT MIMOSA LKS OUTLET (4)	B11,5	PONTIAC DR	BU	ME	14
UNNAMED TRIB OF HAYNES CR ABOVE HARMONY LK (4)	B10,3	KETTLE RUN RD	BU	EV	13
UNNAMED TRIB OF HAYNES CR, HARMONY LK OUTLET (4)	B10,5	HOPEWELL RD	BU	EV	13
HAYNES CR AT TAUNTON LK OUTLET (4)	B11,3	BREAKNECK AVE	BU	ME	14
HAYNES CR TRIB AT BLUE LK OUTLET (4)	B11,2	TOMLINSON MILL-HOPEWELL RD	BU	ME	14
HAYNES CR AT LK PINE OUTLET	B11,1	FALLS RD	BU	ME	14
HAYNES CR TRIB ABOVE LK STOCKWELL	B1,5	TUCKERTON RD, NEAR ARROWHEAD TRAIL	BU	ME	14
HAYNES CR TRIB AT LK STOCKWELL INLET	B1,4	STOKES RD	BU	ME	14
HAYNES CR TRIB AT UPPER AETNA LK OUTLET	B1,3	BEACH TRAIL	BU	ME	14
HAYNES CR TRIB AT LOWER AETNA LK OUTLET	B1,1	STOKES RD	BU	ME	14
HAYNES CR TRIB AT LK MISHE-MOKWA INLET	B1,6	CHEYENNE TRAIL	BU	ME	14
HAYNES CR TRIB AT LK MISHE-MOKWA INLET	B1,7	TUCKERTON RD, NEAR ALGONQUIN TRAIL	BU	ME	14
HAYNES CR TRIB BELOW LK MISHE-MOKWA	B1,2	LENAPE TRAIL	BU	ME	14
HAYNES CR TRIB AT BIRCHWOOD LKS OUTLET	B1,8	JACKSON RD, NEAR NORTH LAKESIDE DR	BU	ME	14
HAYNES CR TRIB AT OAKWOOD LKS	B1,9	RAMBLEWOOD DR	BU	ME	14
HAYNES CR	B12,4	HIMMELEIN RD, NEAR OLIPHANT'S MILL	BU	ME	6
SOUTHWEST BRANCH RANCOCAS CR	B12,5	MAIN ST IN MEDFORD, AT MEDFORD PARK	BU	ME	6
SHARPS RUN	B12,6	RT 541, NEAR THE MEDFORD CIRCLE	BU	ME	6
SOUTHWEST BRANCH RANCOCAS CR AT KIRBY'S MILL LK	B12,7	CHURCH RD (RT 616)	BU	ME	6
LITTLE CREEK (4)	B12,1	CHAIRVILLE RD AND RT 70	BU	ME-SA	6
BEAR SWAMP	PCSR7	RT 70	BU	SA	6
LITTLE CREEK	B12,8	CHURCH RD (RT 616)	BU	ME-SA	6
LITTLE CREEK TRIB (4)	B12,9	CHURCH RD (RT 616)	BU	SA	6
LITTLE CREEK	B12,10	EAYRESTOWN RD	BU	LU	6
SOUTHWEST BRANCH RANCOCAS CR	B12,11	RT 612 (BELLA BRIDGE RD)	BU	LU	6

(1) Refer to Table 23 for county abbreviations.

(2) Refer to Table 22 for township abbreviations.

(3) Refer to Table 24 for quadrangle numbers.

(4) Site not-sampled for this report. See New Jersey Surface Water Quality Data Report, December 1989 and/or December 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

KETTLE RUN AT CENTENNIAL LAKE INLET PCSR8

STATION LOCATION: BRADDOCK'S MILL ROAD, MEDFORD TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			4
DAY			24
YEAR			91
WEATHER	code	P00041	2
AIR TEMPERATURE	deg. C	---	17.0
WATER TEMPERATURE	deg. C	P00010	13.0
pH-LAB	pH	P00403	4.6
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	53.8
ALKALINITY AS CaCO3	mg/l	P00410	
HARDNESS(exp)	mg/l	P00900	2.2
NO2+NO3-N	mg/l	P00630	0.49
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.72
ORGANIC N	mg/l	P00605	0.72
TOTAL N	mg/l	P00600	1.21
TOTAL ORTHO P-PO4	mg/l	P00660	0.01
TOTAL P-PO4	mg/l	P00650	0.01
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	<2.0
COD-LOW	mg/l	P00335	31.5
TOTAL CARBON	mg/l	P00690	11.4
TOT INORGANIC CARBON	mg/l	P00685	
TOTAL ORGANIC CARBON	mg/l	P00680	
TURBIDITY	JTU	P00076	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	36
TOTAL SOLIDS	mg/l	P00500	39
TOTAL CALCIUM(exp)	mg/l	P00916	1.6
TOTAL MAGNESIUM(exp)	mg/l	P00927	0.6
CHLORIDE	mg/l	P00940	7.0
FECAL COLIFORM	MF	P31613	
TOTAL COLIFORM	MF	P31504	
FECAL STREPT	MF	P31673	

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

KETTLE RUN AT CENTENNIAL LAKE INLET, PCSR8

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	2	4.6	5.1	4.8	(4.8)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	53.8	64.0	58.9	7.2
ALKALINITY AS CaCO ₃	mg/l	1	<0.5	<0.5	<0.5	
HARDNESS(exp)	mg/l	1	2.2	2.2	2.2	
NO ₂ +NO ₃ -N	mg/l	2	0.49	0.65	0.57	0.11
NH ₃ -N	mg/l	2	<.10	0.10	<.10	<.10
TOTAL KJELDAHL-N	mg/l	2	0.48	0.72	0.60	0.17
ORGANIC N	mg/l	2	0.38	0.72	0.55	0.24
TOTAL N	mg/l	2	1.13	1.21	1.17	0.06
TOTAL ORTHO P-PO ₄	mg/l	2	0.01	0.01	0.01	
TOTAL P-PO ₄	mg/l	2	0.01	0.01	0.01	
POLY PO ₄	mg/l	2	<.01	<.01	<.01	
BOD 5-DAY	mg/l	2	<2.0	<2.0	<2.0	
COD-LOW	mg/l	2	11.5	31.5	21.5	14.1
TOTAL CARBON	mg/l	2	6.3	11.4	8.8	3.6
TOT INORGANIC CARBON	mg/l	1	1.1	1.1	1.1	
TOTAL ORGANIC CARBON	mg/l	1	5.2	5.2	5.2	
TURBIDITY	JTU	2	1.0	2.0	1.5	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	2	3	3	3	
TOTAL DISSOLVED SOLIDS	mg/l	2	26	36	31	7
TOTAL SOLIDS	mg/l	2	29	39	34	7
TOTAL CALCIUM(exp)	mg/l	1	1.6	1.6	1.6	
TOTAL MAGNESIUM(exp)	mg/l	1	0.6	0.6	0.6	
CHLORIDE	mg/l	2	7.0	8.1	7.5	0.8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK AT LAKE PINE OUTLET B11,1

STATION LOCATION: FALLS ROAD, MEDFORD TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			4
DAY			24
YEAR			91
WEATHER	code	P00041	2
AIR TEMPERATURE	deg. C	---	14.0
WATER TEMPERATURE	deg. C	P00010	13.0
pH-LAB	pH	P00403	5.7
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	56.2
ALKALINITY AS CaCO3	mg/l	P00410	1.6
HARDNESS(exp)	mg/l	P00900	6.3
NO2+NO3-N	mg/l	P00630	0.28
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.11
ORGANIC N	mg/l	P00605	0.11
TOTAL N	mg/l	P00600	0.39
TOTAL ORTHO P-PO4	mg/l	P00660	0.02
TOTAL P-PO4	mg/l	P00650	0.02
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	21.5
TOTAL CARBON	mg/l	P00690	10.3
TOT INORGANIC CARBON	mg/l	P00685	
TOTAL ORGANIC CARBON	mg/l	P00680	
TURBIDITY	JTU	P00076	4.2
TOTAL SUSPENDED SOLIDS	mg/l	P00530	5
TOTAL DISSOLVED SOLIDS	mg/l	P70300	46
TOTAL SOLIDS	mg/l	P00500	51
TOTAL CALCIUM(exp)	mg/l	P00916	3.2
TOTAL MAGNESIUM(exp)	mg/l	P00927	3.1
CHLORIDE	mg/l	P00940	7.2
FECAL COLIFORM	MF	P31613	50
TOTAL COLIFORM	MF	P31504	<200
FECAL STREPT	MF	P31673	<100

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK AT LAKE PINE OUTLET B11,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	4.2	5.7	4.7	(4.8)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	44.2	69.9	58.3	7.0
ALKALINITY AS CaCO3	mg/l	6	<0.5	1.6	0.5	0.7
HARDNESS(exp)	mg/l	1	6.3	6.3	6.3	
NO2+NO3-N	mg/l	10	0.08	0.59	0.28	0.16
NH3-N	mg/l	9	<.10	0.46	0.20	0.17
TOTAL KJELDAHL-N	mg/l	9	0.11	1.20	0.59	0.31
ORGANIC N	mg/l	8	0.11	1.20	0.40	0.37
TOTAL N	mg/l	9	0.39	1.37	0.86	0.33
TOTAL ORTHO P-PO4	mg/l	10	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	10	0.01	0.07	0.03	0.02
POLY PO4	mg/l	10	<.01	0.04	0.01	0.01
BOD 5-DAY	mg/l	2	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	7	<2.0	2.5	<2.0	<2.0
COD-LOW	mg/l	10	8.5	27.0	15.6	7.1
TOTAL CARBON	mg/l	5	3.8	10.3	7.2	2.6
TOT INORGANIC CARBON	mg/l	4	0.7	1.2	1.0	0.2
TOTAL ORGANIC CARBON	mg/l	4	2.6	7.7	5.5	2.4
TURBIDITY	JTU	10	1.5	15.0	5.0	4.1
TOTAL SUSPENDED SOLIDS	mg/l	10	<1	47	8	14
TOTAL DISSOLVED SOLIDS	mg/l	10	10	88	39	21
TOTAL SOLIDS	mg/l	10	16	93	47	25
TOTAL CALCIUM(exp)	mg/l	1	3.2	3.2	3.2	
TOTAL MAGNESIUM(exp)	mg/l	1	3.1	3.1	3.1	
CHLORIDE	mg/l	10	6.4	9.9	8.1	1.1

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY ABOVE LAKE STOCKWELL B1,5

STATION LOCATION: ARROWHEAD TRAIL AND TUCKERTON ROAD INTERSECTION, MEDFORD TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			6	12
DAY			13	10
YEAR			90	90
WEATHER	code	P00041		
AIR TEMPERATURE	deg. C	---	18.0	
WATER TEMPERATURE	deg. C	P00010	20.0	
pH-LAB	pH	P00403	5.9	5.7
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	93.6	77.2
ALKALINITY AS CaCO3	mg/l	P00410	1.6	1.6
NO2+NO3-N	mg/l	P00630	0.35	0.47
NH3-N	mg/l	P00610	0.23	0.24
TOTAL Kjeldahl-N	mg/l	P00625	0.54	0.30
ORGANIC N	mg/l	P00605	0.31	0.06
TOTAL N	mg/l	P00600	0.89	0.77
TOTAL ORTHO P-PO4	mg/l	P00660	0.02	0.01
TOTAL P-PO4	mg/l	P00650	0.04	0.01
POLY PO4	mg/l	P00655	0.03	<.01
BOD 5-DAY	mg/l	P00310	<2.0	
BOD 7-DAY	mg/l	P00315		<2.0
COD-LOW	mg/l	P00335	10.5	<1.0
TOTAL CARBON	mg/l	P00690	4.3	3.3
TOT INORGANIC CARBON	mg/l	P00685	0.6	0.8
TOTAL ORGANIC CARBON	mg/l	P00680	3.7	2.5
TURBIDITY	JTU	P00076	3.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	11	1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	62	28
TOTAL SOLIDS	mg/l	P00500	73	29
CHLORIDE	mg/l	P00940	17.6	13.7
FECAL COLIFORM	MF	P31613	<50	<50
TOTAL COLIFORM	MF	P31504	<200	<200
FECAL STREPT	MF	P31673	100	<100

RANOCAS CREEK BASIN: SOUTHWEST BRANCH RANOCAS CREEK

HAYNES CREEK TRIBUTARY ABOVE LAKE STOCKWELL B1,5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	8	3.8	6.1	4.5	(5.5)
SPECIFIC CONDUCTIVITY-LAB	umhos	8	51.1	103.2	75.9	16.4
ALKALINITY AS CaCO3	mg/l	5	<0.5	5.3	2.2	1.9
NO2+NO3-N	mg/l	8	<.04	0.47	0.21	0.19
NH3-N	mg/l	6	<.10	0.24	0.13	<.10
TOTAL KJELDAHL-N	mg/l	7	0.14	0.60	0.40	0.15
ORGANIC N	mg/l	6	<.10	0.49	0.26	0.20
TOTAL N	mg/l	7	0.21	0.89	0.63	0.23
TOTAL ORTHO P-PO4	mg/l	7	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	8	<.01	0.12	0.04	0.04
POLY PO4	mg/l	7	<.01	0.06	0.02	0.02
BOD 5-DAY	mg/l	4	<2.0	<2.0	<2.0	<2.0
BOD 7-DAY	mg/l	4	<2.0	3.8	<2.0	<2.0
COD-LOW	mg/l	8	<1.0	28.0	9.2	9.0
TOTAL CARBON	mg/l	6	2.5	4.8	3.5	0.9
TOT INORGANIC CARBON	mg/l	6	0.3	1.2	0.7	0.3
TOTAL ORGANIC CARBON	mg/l	6	2.1	4.0	2.9	0.8
TURBIDITY	JTU	8	<1.0	9.0	2.9	3.2
TOTAL SUSPENDED SOLIDS	mg/l	8	<1	56	18	19
TOTAL DISSOLVED SOLIDS	mg/l	8	20	66	42	19
TOTAL SOLIDS	mg/l	8	26	122	60	32
CHLORIDE	mg/l	8	5.8	17.6	12.5	3.8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY AT LAKE STOCKWELL INLET B1;4

STATION LOCATION: STOKES ROAD, MEDFORD TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			6
DAY			13
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	19.0
WATER TEMPERATURE	deg. C	P00010	21.0
pH-LAB	pH	P00403	5.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	65.5
ALKALINITY AS CaCO3	mg/l	P00410	1.4
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	0.34
TOTAL KJELDAHL-N	mg/l	P00625	0.64
ORGANIC N	mg/l	P00605	0.30
TOTAL N	mg/l	P00600	0.64
TOTAL ORTHO P-PO4	mg/l	P00660	0.01
TOTAL P-PO4	mg/l	P00650	0.02
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	15.0
TOTAL CARBON	mg/l	P00690	4.0
TOT INORGANIC CARBON	mg/l	P00685	0.6
TOTAL ORGANIC CARBON	mg/l	P00680	3.4
TURBIDITY	JTU	P00076	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	20
TOTAL DISSOLVED SOLIDS	mg/l	P70300	43
TOTAL SOLIDS	mg/l	P00500	63
CHLORIDE	mg/l	P00940	11.0
FECAL COLIFORM	MF	P31613	50
TOTAL COLIFORM	MF	P31504	600
FECAL STREPT	MF	P31673	300

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY AT LAKE STOCKWELL INLET B1,4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	4.5	6.6	4.9	(4.8)
SPECIFIC CONDUCTIVITY-LAB	umhos	11	45.6	234.1	85.1	63.8
ALKALINITY AS CaCO ₃	mg/l	10	<0.5	14.2	2.7	4.8
NO ₂ +NO ₃ -N	mg/l	11	<.04	0.22	0.07	0.10
NH ₃ -N	mg/l	10	<.10	0.53	0.22	0.16
TOTAL KJELDAHL-N	mg/l	10	0.22	1.30	0.54	0.30
ORGANIC N	mg/l	10	<.10	1.07	0.31	0.31
TOTAL N	mg/l	10	0.35	1.30	0.62	0.28
TOTAL ORTHO P-PO ₄	mg/l	11	<.01	0.02	<.01	0.01
TOTAL P-PO ₄	mg/l	11	<.01	0.12	0.02	0.03
POLY PO ₄	mg/l	10	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	6	<2.0	2.4	<2.0	<2.0
BOD 7-DAY	mg/l	5	<2.0	4.3	<2.0	2.2
COD-LOW	mg/l	11	<1.0	32.5	12.4	10.3
TOTAL CARBON	mg/l	7	2.4	9.2	4.2	2.3
TOT INORGANIC CARBON	mg/l	7	0.2	1.8	0.9	0.5
TOTAL ORGANIC CARBON	mg/l	7	2.2	7.3	3.3	1.8
TURBIDITY	JTU	11	<1.0	5.2	1.7	1.4
TOTAL SUSPENDED SOLIDS	mg/l	11	<1	20	7	9
TOTAL DISSOLVED SOLIDS	mg/l	11	20	137	48	34
TOTAL SOLIDS	mg/l	11	20	157	55	39
CHLORIDE	mg/l	11	6.8	47.9	15.7	14.2

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY AT UPPER AETNA LAKE OUTLET B1,3

STATION LOCATION: BEACH TRAIL, MEDFORD TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			6	12
DAY			13	10
YEAR			90	90
WEATHER	code	P00041	0	0
AIR TEMPERATURE	deg. C	---	18.0	
WATER TEMPERATURE	deg. C	P00010	21.0	
pH-LAB	pH	P00403	5.4	7.0
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	61.0	62.3
ALKALINITY AS CaCO3	mg/l	P00410	<0.5	2.5
NO2+NO3-N	mg/l	P00630	0.13	0.34
NH3-N	mg/l	P00610	<.10	0.26
TOTAL KjELDAHL-N	mg/l	P00625	0.86	0.47
ORGANIC N	mg/l	P00605	0.86	0.21
TOTAL N	mg/l	P00600	0.99	0.81
TOTAL ORTHO P-PO4	mg/l	P00660	0.02	0.02
TOTAL P-PO4	mg/l	P00650	0.02	0.25
POLY PO4	mg/l	P00655	0.01	<.01
BOD 5-DAY	mg/l	P00310	<2.0	
BOD 7-DAY	mg/l	P00315		<2.0
COD-LOW	mg/l	P00335	24.5	6.0
TOTAL CARBON	mg/l	P00690	9.0	5.2
TOT INORGANIC CARBON	mg/l	P00685	0.5	1.1
TOTAL ORGANIC CARBON	mg/l	P00680	8.6	4.1
TURBIDITY	JTU	P00076	4.0	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	3	<1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	58	37
TOTAL SOLIDS	mg/l	P00500	61	37
CHLORIDE	mg/l	P00940	9.8	10.2
FECAL COLIFORM	MF	P31613	<50	<50
TOTAL COLIFORM	MF	P31504	600	400
FECAL STREPT	MF	P31673	<100	<100

RANOCAS CREEK BASIN: SOUTHWEST BRANCH RANOCAS CREEK

HAYNES CREEK TRIBUTARY AT UPPER AETNA LAKE OUTLET B1,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	4.0	7.0	4.8	(5.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	11	42.9	92.9	59.6	12.8
ALKALINITY AS CaCO3	mg/l	10	<0.5	8.1	1.2	2.5
NO2+NO3-N	mg/l	11	<.04	0.34	0.11	0.14
NH3-N	mg/l	10	<.10	0.27	0.13	0.12
TOTAL KJELDAHL-N	mg/l	10	0.28	0.94	0.58	0.20
ORGANIC N	mg/l	10	0.14	0.86	0.45	0.21
TOTAL N	mg/l	10	0.28	1.01	0.70	0.24
TOTAL ORTHO P-PO4	mg/l	11	<.01	0.39	0.05	0.11
TOTAL P-PO4	mg/l	11	<.01	0.39	0.08	0.12
POLY PO4	mg/l	11	<.01	0.02	<.01	0.01
BOD 5-DAY	mg/l	5	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	6	<2.0	4.8	<2.0	2.0
COD-LOW	mg/l	11	<1.0	30.0	15.5	9.7
TOTAL CARBON	mg/l	7	3.1	13.6	7.4	3.6
TOT INORGANIC CARBON	mg/l	7	0.0	6.1	1.4	2.1
TOTAL ORGANIC CARBON	mg/l	7	3.1	9.2	6.1	2.4
TURBIDITY	JTU	11	1.4	5.0	2.5	1.1
TOTAL SUSPENDED SOLIDS	mg/l	11	<1	14	5	4
TOTAL DISSOLVED SOLIDS	mg/l	11	16	70	40	16
TOTAL SOLIDS	mg/l	11	17	73	44	15
CHLORIDE	mg/l	11	7.0	11.6	9.3	1.4

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY AT LOWER AETNA LAKE OUTLET B1,1

STATION LOCATION: STOKES ROAD, MEDFORD TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			6	12
DAY			13	10
YEAR			90	90
WEATHER	code	P00041	0	
AIR TEMPERATURE	deg. C	---	18.0	
WATER TEMPERATURE	deg. C	P00010	21.0	
pH-LAB	pH	P00403	7.7	5.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	68.6	71.9
ALKALINITY AS CaCO3	mg/l	P00410	2.7	0.8
NO2+NO3-N	mg/l	P00630	0.16	0.28
NH3-N	mg/l	P00610	<.10	0.17
TOTAL KjELDAHL-N	mg/l	P00625	1.20	0.33
ORGANIC N	mg/l	P00605	1.20	0.16
TOTAL N	mg/l	P00600	1.36	0.61
TOTAL ORTHO P-PO4	mg/l	P00660	0.02	0.02
TOTAL P-PO4	mg/l	P00650	0.04	0.01
POLY PO4	mg/l	P00655	0.01	<.01
BOD 5-DAY	mg/l	P00310	<2.0	<2.0
BOD 7-DAY	mg/l	P00315		
COD-LOW	mg/l	P00335	19.0	<1.0
TOTAL CARBON	mg/l	P00690	8.7	3.2
TOT INORGANIC CARBON	mg/l	P00685	0.8	1.0
TOTAL ORGANIC CARBON	mg/l	P00680	7.9	2.2
TURBIDITY	JTU	P00076	3.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	5	<1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	55	26
TOTAL SOLIDS	mg/l	P00500	60	26
CHLORIDE	mg/l	P00940	10.5	11.1
FECAL COLIFORM	MF	P31613	50	<50
TOTAL COLIFORM	MF	P31504	1400	<200
FECAL STREPT	MF	P31673	100	<100

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY AT LOWER AETNA-LAKE OUTLET B1,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	4.7	7.7	5.2	(5.6)
SPECIFIC CONDUCTIVITY-LAB	umhos	11	47.9	110.6	67.0	15.8
ALKALINITY AS CaCO ₃	mg/l	11	<0.5	4.8	2.0	1.6
NO ₂ +NO ₃ -N	mg/l	11	<.04	0.49	0.17	0.17
NH ₃ -N	mg/l	10	<.10	1.00	0.25	0.29
TOTAL KJELDAHL-N	mg/l	10	0.28	1.30	0.70	0.39
ORGANIC N	mg/l	10	0.16	1.20	0.45	0.35
TOTAL N	mg/l	10	0.43	1.79	0.88	0.47
TOTAL ORTHO P-PO ₄	mg/l	11	<.01	0.02	0.01	0.01
TOTAL P-PO ₄	mg/l	11	0.01	0.12	0.03	0.03
POLY PO ₄	mg/l	10	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	6	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	5	<2.0	4.5	<2.0	<2.0
COD-LOW	mg/l	11	<1.0	27.5	14.4	9.9
TOTAL CARBON	mg/l	7	3.2	10.8	6.6	2.4
TOT INORGANIC CARBON	mg/l	7	0.3	1.6	1.1	0.5
TOTAL ORGANIC CARBON	mg/l	7	2.2	9.3	5.5	2.4
TURBIDITY	JTU	11	<1.0	3.8	2.2	1.0
TOTAL SUSPENDED SOLIDS	mg/l	11	<1	14	6	5
TOTAL DISSOLVED SOLIDS	mg/l	11	24	72	42	14
TOTAL SOLIDS	mg/l	11	26	74	48	15
CHLORIDE	mg/l	11	8.3	17.9	10.6	2.7

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY AT LAKE MISHE-MOKWA INLET B1,6

STATION LOCATION: CHEYENNE TRAIL, MEDFORD TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			6
DAY			13
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	21.0
WATER TEMPERATURE	deg. C	P00010	21.0
pH-LAB	pH	P00403	6.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	232.0
ALKALINITY AS CaCO3	mg/l	P00410	12.6
NO2+NO3-N	mg/l	P00630	0.95
NH3-N	mg/l	P00610	0.17
TOTAL KJELDAHL-N	mg/l	P00625	0.70
ORGANIC N	mg/l	P00605	0.53
TOTAL N	mg/l	P00600	1.65
TOTAL ORTHO P-PO4	mg/l	P00660	0.03
TOTAL P-PO4	mg/l	P00650	0.07
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	3.7
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	20.5
TOTAL CARBON	mg/l	P00690	11.1
TOT INORGANIC CARBON	mg/l	P00685	1.9
TOTAL ORGANIC CARBON	mg/l	P00680	9.2
TURBIDITY	JTU	P00076	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	10
TOTAL DISSOLVED SOLIDS	mg/l	P70300	130
TOTAL SOLIDS	mg/l	P00500	140
CHLORIDE	mg/l	P00940	45.4
FECAL COLIFORM	MF	P31613	100
TOTAL COLIFORM	MF	P31504	800
FECAL STREPT	MF	P31673	200

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY AT LAKE MISHE-MOKWA INLET B1,6

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	9	5.5	6.8	5.9	(6.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	9	51.2	232.0	174.3	54.9
ALKALINITY AS CaCO ₃	mg/l	9	2.6	15.4	8.4	4.1
NO ₂ +NO ₃ -N	mg/l	9	<.04	0.95	0.34	0.37
NH ₃ -N	mg/l	8	<.10	1.02	0.23	0.33
TOTAL KJELDAHL-N	mg/l	8	0.27	1.55	0.90	0.46
ORGANIC N	mg/l	8	0.17	1.55	0.66	0.43
TOTAL N	mg/l	8	0.54	1.84	1.27	0.44
TOTAL ORTHO P-PO ₄	mg/l	9	<.01	0.03	0.01	0.01
TOTAL P-PO ₄	mg/l	9	0.02	0.10	0.04	0.03
POLY PO ₄	mg/l	9	<.01	0.08	0.01	0.03
BOD 5-DAY	mg/l	5	<2.0	5.1	3.0	<2.0
BOD 7-DAY	mg/l	4	<2.0	6.6	3.6	3.0
COD-LOW	mg/l	9	1.0	32.8	19.2	12.6
TOTAL CARBON	mg/l	7	5.1	15.2	9.9	3.7
TOT INORGANIC CARBON	mg/l	7	0.7	4.5	2.2	1.2
TOTAL ORGANIC CARBON	mg/l	7	4.0	11.9	7.7	3.2
TURBIDITY	JTU	9	2.0	5.0	3.3	1.0
TOTAL SUSPENDED SOLIDS	mg/l	9	3	14	8	4
TOTAL DISSOLVED SOLIDS	mg/l	9	26	130	89	38
TOTAL SOLIDS	mg/l	9	29	140	97	40
CHLORIDE	mg/l	9	9.6	51.8	34.5	12.6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY AT LAKE MISHE-MOKWA INLET B1,7

STATION LOCATION: TUCKERTON ROAD (NEAR ALGONQUIN TRAIL INTERSECTION), MEDFORD TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			6
DAY			13
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	22.0
WATER TEMPERATURE	deg. C	P00010	16.0
pH-LAB	pH	P00403	6.1
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	88.9
ALKALINITY AS CaCO ₃	mg/l	P00410	4.9
NO ₂ +NO ₃ -N	mg/l	P00630	0.05
NH ₃ -N	mg/l	P00610	0.12
TOTAL KjELDAHL-N	mg/l	P00625	0.60
ORGANIC N	mg/l	P00605	0.48
TOTAL N	mg/l	P00600	0.65
TOTAL ORTHO P-PO ₄	mg/l	P00660	0.03
TOTAL P-PO ₄	mg/l	P00650	0.04
POLY PO ₄	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	13.0
TOTAL CARBON	mg/l	P00690	6.8
TOT INORGANIC CARBON	mg/l	P00685	0.8
TOTAL ORGANIC CARBON	mg/l	P00680	6.0
TURBIDITY	JTU	P00076	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	11
TOTAL DISSOLVED SOLIDS	mg/l	P70300	52
TOTAL SOLIDS	mg/l	P00500	63
CHLORIDE	mg/l	P00940	13.0
FECAL COLIFORM	MF	P31613	150
TOTAL COLIFORM	MF	P31504	600
FECAL STREPT	MF	P31673	200

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY AT LAKE MISHE-MOKWA INLET B1,7

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	5	5.6	6.5	5.9	(6.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	5	69.2	148.9	97.6	30.2
ALKALINITY AS CaCO ₃	mg/l	5	4.2	8.7	6.1	1.7
NO ₂ +NO ₃ -N	mg/l	5	<.04	0.31	0.10	0.13
NH ₃ -N	mg/l	5	<.10	0.66	0.23	0.26
TOTAL KJELDAHL-N	mg/l	5	0.51	1.30	0.77	0.34
ORGANIC N	mg/l	5	0.23	0.79	0.53	0.21
TOTAL N	mg/l	5	0.51	1.61	0.87	0.47
TOTAL ORTHO P-PO ₄	mg/l	5	<.01	0.03	0.01	0.01
TOTAL P-PO ₄	mg/l	5	0.02	0.08	0.04	0.03
POLY PO ₄	mg/l	5	<.01	0.03	0.01	0.01
BOD 5-DAY	mg/l	2	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	3	<2.0	3.8	2.4	2.1
CO ₂ -LOW	mg/l	4	13.0	26.0	17.8	5.7
TOTAL CARBON	mg/l	2	6.8	7.3	7.1	0.4
TOT INORGANIC CARBON	mg/l	2	0.8	2.4	1.6	1.1
TOTAL ORGANIC CARBON	mg/l	2	4.9	6.0	5.5	0.8
TURBIDITY	JTU	5	1.5	4.4	2.4	1.2
TOTAL SUSPENDED SOLIDS	mg/l	5	2	13	6	5
TOTAL DISSOLVED SOLIDS	mg/l	5	<1	90	52	33
TOTAL SOLIDS	mg/l	5	2	103	59	36
CHLORIDE	mg/l	5	10.8	20.8	14.8	3.8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY BELOW LAKE MISHE-MOKWA B1,2

STATION LOCATION: LENAPE TRAIL, MEDFORD TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			6
DAY			13
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	18.0
WATER TEMPERATURE	deg. C	P00010	21.0
pH-LAB	pH	P00403	6.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	104.0
ALKALINITY AS CaCO3	mg/l	P00410	9.2
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	0.12
TOTAL KJELDAHL-N	mg/l	P00625	0.90
ORGANIC N	mg/l	P00605	0.78
TOTAL N	mg/l	P00600	0.90
TOTAL ORTHO P-PO4	mg/l	P00660	0.02
TOTAL P-PO4	mg/l	P00650	0.03
POLY PO4	mg/l	P00655	0.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	20.5
TOTAL CARBON	mg/l	P00690	9.0
TOT INORGANIC CARBON	mg/l	P00685	0.7
TOTAL ORGANIC CARBON	mg/l	P00680	8.3
TURBIDITY	JTU	P00076	5.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	79
TOTAL SOLIDS	mg/l	P00500	81
CHLORIDE	mg/l	P00940	19.4
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	<200
FECAL STREPT	MF	P31673	100

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY BELOW LAKE MISHE-MOKWA B1,2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	5.1	6.8	5.7	(6.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	55.5	104.0	80.8	16.1
ALKALINITY AS CaCO3	mg/l	10	<0.5	9.2	5.6	2.7
NO2+NO3-N	mg/l	10	<.04	0.09	<.04	<.04
NH3-N	mg/l	9	<.10	0.29	0.15	0.11
TOTAL KJELDAHL-N	mg/l	9	0.38	1.32	0.66	0.30
ORGANIC N	mg/l	9	0.18	1.03	0.50	0.26
TOTAL N	mg/l	9	0.38	1.32	0.67	0.29
TOTAL ORTHO P-PO4	mg/l	10	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	10	0.02	0.07	0.04	0.02
POLY PO4	mg/l	10	<.01	0.05	0.01	0.02
BOD 5-DAY	mg/l	5	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	5	<2.0	3.8	<2.0	<2.0
COD-LOW	mg/l	10	2.0	26.0	17.8	7.7
TOTAL CARBON	mg/l	7	5.1	10.2	7.5	1.8
TOT INORGANIC CARBON	mg/l	7	0.7	2.5	1.5	0.7
TOTAL ORGANIC CARBON	mg/l	7	4.1	8.3	6.0	1.8
TURBIDITY	JTU	10	2.2	7.2	4.7	1.7
TOTAL SUSPENDED SOLIDS	mg/l	10	2	19	7	6
TOTAL DISSOLVED SOLIDS	mg/l	10	21	79	50	17
TOTAL SOLIDS	mg/l	10	29	81	57	17
CHLORIDE	mg/l	10	7.0	19.4	14.0	4.1

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY AT BIRCHWOOD LAKES OUTLET B1,8

STATION LOCATION: JACKSON ROAD (NEAR NORTH LAKESIDE DRIVE INTERSECTION), MEDFORD TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			6	12
DAY			13	10
YEAR			90	90
WEATHER	code	P00041	0	
AIR TEMPERATURE	deg. C	---	21.0	
WATER TEMPERATURE	deg. C	P00010	21.0	
pH-LAB	pH	P00403	6.2	6.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	106.0	106.0
ALKALINITY AS CaCO3	mg/l	P00410	4.2	7.0
NO2+NO3-N	mg/l	P00630	0.27	0.63
NH3-N	mg/l	P00610	0.56	0.88
TOTAL KJELDAHL-N	mg/l	P00625	1.50	0.88
ORGANIC N	mg/l	P00605	0.94	<.10
TOTAL N	mg/l	P00600	1.77	1.51
TOTAL ORTHO P-PO4	mg/l	P00660		0.02
TOTAL P-PO4	mg/l	P00650	0.05	0.02
POLY PO4	mg/l	P00655		<.01
BOD 5-DAY	mg/l	P00310	<2.0	
BOD 7-DAY	mg/l	P00315		<2.0
COD-LOW	mg/l	P00335	21.5	5.0
TOTAL CARBON	mg/l	P00690	10.1	6.1
TOT INORGANIC CARBON	mg/l	P00685	1.1	0.9
TOTAL ORGANIC CARBON	mg/l	P00680	9.0	5.3
TURBIDITY	JTU	P00076	3.0	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	5	1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	58	68
TOTAL SOLIDS	mg/l	P00500	63	69
CHLORIDE	mg/l	P00940	15.7	17.1
FECAL COLIFORM	MF	P31613	<50	<50
TOTAL COLIFORM	MF	P31504	600	<200
FECAL STREPT	MF	P31673	<100	100

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY AT BIRCHWOOD LAKES OUTLET B1,8

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	12	5.5	7.2	6.0	(6.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	12	73.6	175.9	115.0	27.6
ALKALINITY AS CaCO ₃	mg/l	12	3.7	14.1	6.8	2.8
NO ₂ +NO ₃ -N	mg/l	12	<.04	1.14	0.39	0.29
NH ₃ -N	mg/l	11	0.16	1.55	0.99	0.45
TOTAL KJELDAHL-N	mg/l	9	0.81	2.20	1.39	0.46
ORGANIC N	mg/l	9	<.10	0.98	0.46	0.38
TOTAL N	mg/l	9	0.81	2.60	1.72	0.56
TOTAL ORTHO P-PO ₄	mg/l	11	<.01	0.05	0.02	0.01
TOTAL P-PO ₄	mg/l	12	0.02	0.16	0.06	0.04
POLY PO ₄	mg/l	11	<.01	0.06	0.02	0.02
BOD 5-DAY	mg/l	6	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	6	<2.0	4.6	2.4	<2.0
COD-LOW	mg/l	11	4.3	33.5	16.8	10.5
TOTAL CARBON	mg/l	8	6.1	11.9	9.3	1.7
TOT INORGANIC CARBON	mg/l	8	0.9	3.7	2.5	1.3
TOTAL ORGANIC CARBON	mg/l	8	4.6	9.0	6.8	1.5
TURBIDITY	JTU	12	1.0	9.3	3.5	2.1
TOTAL SUSPENDED SOLIDS	mg/l	12	1	39	9	12
TOTAL DISSOLVED SOLIDS	mg/l	12	33	85	64	15
TOTAL SOLIDS	mg/l	12	42	101	73	15
CHLORIDE	mg/l	12	11.8	25.0	16.5	4.0

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY AT OAKWOOD LAKES B1,9

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	9	5.5	6.7	5.9	(6.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	9	70.3	146.8	109.1	25.3
ALKALINITY AS CaCO3	mg/l	9	2.5	10.2	5.8	2.8
NO2+NO3-N	mg/l	9	<.04	0.72	0.33	0.23
NH3-N	mg/l	8	0.12	1.60	0.63	0.47
TOTAL KJELDAHL-N	mg/l	6	0.29	1.68	0.95	0.56
ORGANIC N	mg/l	6	0.04	0.98	0.50	0.27
TOTAL N	mg/l	6	0.41	1.95	1.25	0.74
TOTAL ORTHO P-PO4	mg/l	9	<.01	0.04	0.02	0.01
TOTAL P-PO4	mg/l	9	0.04	0.07	0.06	0.01
POLY PO4	mg/l	9	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	4	<2.0	3.2	<2.0	<2.0
BOD 7-DAY	mg/l	5	<2.0	7.5	2.4	3.4
COD-LOW	mg/l	9	4.0	52.2	21.4	15.3
TOTAL CARBON	mg/l	7	6.1	14.4	9.9	2.9
TOT INORGANIC CARBON	mg/l	7	0.5	3.4	2.2	0.7
TOTAL ORGANIC CARBON	mg/l	7	4.5	11.7	7.7	2.7
TURBIDITY	JTU	9	2.0	17.0	5.4	5.0
TOTAL SUSPENDED SOLIDS	mg/l	9	<1	12	6	3
TOTAL DISSOLVED SOLIDS	mg/l	9	32	91	68	17
TOTAL SOLIDS	mg/l	9	39	94	74	17
CHLORIDE	mg/l	9	8.0	22.1	15.8	5.2

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK TRIBUTARY AT OAKWOOD LAKES B1,9

STATION LOCATION: RAMBLEWOOD DRIVE, MEDFORD TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			6	12
DAY			13	10
YEAR			90	90
WEATHER	code	P00041		
AIR TEMPERATURE	deg. C	---	22.0	
WATER TEMPERATURE	deg. C	P00010	21.0	
pH-LAB	pH	P00403	6.1	6.1
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	113.1	120.2
ALKALINITY AS CaCO3	mg/l	P00410	5.8	9.2
NO2+NO3-N	mg/l	P00630	0.35	0.63
NH3-N	mg/l	P00610	0.42	0.56
TOTAL KJELDAHL-N	mg/l	P00625	1.40	0.60
ORGANIC N	mg/l	P00605	0.98	0.04
TOTAL N	mg/l	P00600	1.75	1.23
TOTAL ORTHO P-PO4	mg/l	P00660	0.03	0.04
TOTAL P-PO4	mg/l	P00650	0.07	0.04
POLY PO4	mg/l	P00655	<.01	<.01
BOD 5-DAY	mg/l	P00310	3.2	
BOD 7-DAY	mg/l	P00315		2.0
COD-LOW	mg/l	P00335	22.0	12.5
TOTAL CARBON	mg/l	P00690	9.8	12.2
TOT INORGANIC CARBON	mg/l	P00685	0.5	2.1
TOTAL ORGANIC CARBON	mg/l	P00680	9.3	10.1
TURBIDITY	JTU	P00076	2.0	7.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	6	<1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	73	91
TOTAL SOLIDS	mg/l	P00500	79	91
CHLORIDE	mg/l	P00940	16.4	16.3
FECAL COLIFORM	MF	P31613	<50	1400
TOTAL COLIFORM	MF	P31504	<200	6000
FECAL STREPT	MF	P31673	<100	8000

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK B12,4

STATION LOCATION: HIMMELEIN ROAD (NEAR OLIPHANT'S MILL), MEDFORD TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			11
DAY			26
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	12.0
WATER TEMPERATURE	deg. C	P00010	6.0
pH-LAB	pH	P00403	6.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	81.1
ALKALINITY AS CaCO3	mg/l	P00410	3.8
NO2+NO3-N	mg/l	P00630	0.34
NH3-N	mg/l	P00610	0.26
TOTAL KjELDAHL-N	mg/l	P00625	0.58
ORGANIC N	mg/l	P00605	0.32
TOTAL N	mg/l	P00600	0.92
TOTAL ORTHO P-PO4	mg/l	P00660	0.02
TOTAL P-PO4	mg/l	P00650	0.05
POLY PO4	mg/l	P00655	0.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-HIGH	mg/l	P00340	
COD-LOW	mg/l	P00335	3.8
TOTAL CARBON	mg/l	P00690	5.9
TOT INORGANIC CARBON	mg/l	P00685	0.9
TOTAL ORGANIC CARBON	mg/l	P00680	5.0
TURBIDITY	JTU	P00076	2.3
TOTAL SUSPENDED SOLIDS	mg/l	P00530	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	57
TOTAL SOLIDS	mg/l	P00500	61
CHLORIDE	mg/l	P00940	12.6
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	400
FECAL STREPT	MF	P31673	100

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

HAYNES CREEK B12,4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	8	5.2	6.5	5.7	(6.0)
SPECIFIC CONDUCTIVITY-LAB	umhos	8	55.0	114.4	79.4	17.7
ALKALINITY AS CaCO ₃	mg/l	8	1.9	21.6	5.1	6.7
NO ₂ +NO ₃ -N	mg/l	7	0.16	0.42	0.27	0.10
NH ₃ -N	mg/l	8	0.23	0.49	0.31	0.09
TOTAL KJELDAHL-N	mg/l	8	0.40	6.80	1.60	2.13
ORGANIC N	mg/l	8	0.15	6.41	1.29	2.10
TOTAL N	mg/l	8	0.70	7.08	1.83	2.16
TOTAL ORTHO P-PO ₄	mg/l	8	0.01	0.04	0.02	0.01
TOTAL P-PO ₄	mg/l	8	0.03	0.08	0.05	0.02
POLY PO ₄	mg/l	7	<.01	0.04	0.01	0.01
BOD 5-DAY	mg/l	2	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	5	<2.0	2.2	<2.0	<2.0
COD-HIGH	mg/l	1	15.5	15.5	15.5	
COD-LOW	mg/l	6	3.8	24.0	14.7	7.5
TOTAL CARBON	mg/l	4	5.8	9.9	7.2	1.9
TOT INORGANIC CARBON	mg/l	4	0.6	4.0	1.7	1.5
TOTAL ORGANIC CARBON	mg/l	4	4.5	6.6	5.5	0.9
TURBIDITY	JTU	8	2.3	12.0	4.8	3.0
TOTAL SUSPENDED SOLIDS	mg/l	8	1	12	5	4
TOTAL DISSOLVED SOLIDS	mg/l	8	14	66	45	19
TOTAL SOLIDS	mg/l	8	25	68	49	17
CHLORIDE	mg/l	8	8.0	12.8	11.0	1.6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

SOUTHWEST BRANCH RANCOCAS CREEK B12,5

STATION LOCATION: MAIN STREET IN MEDFORD, MEDFORD TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			11
DAY			26
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	12.0
WATER TEMPERATURE	deg. C	P00010	6.0
pH-LAB	pH	P00403	7.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	144.1
ALKALINITY AS CaCO3	mg/l	P00410	26.1
NO2+NO3-N	mg/l	P00630	0.60
NH3-N	mg/l	P00610	0.79
TOTAL KJELDAHL-N	mg/l	P00625	0.95
ORGANIC N	mg/l	P00605	0.16
TOTAL N	mg/l	P00600	1.55
TOTAL ORTHO P-PO4	mg/l	P00660	
TOTAL P-PO4	mg/l	P00650	
POLY PO4	mg/l	P00655	
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	4.3
COD-HIGH	mg/l	P00340	
COD-LOW	mg/l	P00335	8.8
TOTAL CARBON	mg/l	P00690	10.4
TOT INORGANIC CARBON	mg/l	P00685	0.6
TOTAL ORGANIC CARBON	mg/l	P00680	9.9
TURBIDITY	JTU	P00076	3.2
TOTAL SUSPENDED SOLIDS	mg/l	P00530	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	85
TOTAL SOLIDS	mg/l	P00500	89
CHLORIDE	mg/l	P00940	13.4
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	1800
FECAL STREPT	MF	P31673	200

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

SOUTHWEST BRANCH RANCOCAS CREEK B12,5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	8	6.2	7.4	6.5	(6.6)
SPECIFIC CONDUCTIVITY-LAB	umhos	8	80.0	159.0	123.2	25.2
ALKALINITY AS CaCO3	mg/l	7	7.6	26.1	15.3	6.9
NO2+NO3-N	mg/l	7	0.37	1.15	0.68	0.24
NH3-N	mg/l	8	0.25	0.79	0.44	0.16
TOTAL KJELDAHL-N	mg/l	8	0.56	1.90	1.11	0.40
ORGANIC N	mg/l	8	0.16	1.49	0.67	0.45
TOTAL N	mg/l	7	1.26	2.58	1.75	0.46
TOTAL ORTHO P-PO4	mg/l	6	0.05	0.34	0.21	0.11
TOTAL P-PO4	mg/l	7	0.07	0.36	0.23	0.11
POLY PO4	mg/l	6	<.01	0.01	<.01	<.01
BOD 5-DAY	mg/l	2	<2.0	2.1	<2.0	<2.0
BOD 7-DAY	mg/l	5	<2.0	4.3	2.0	<2.0
COD-HIGH	mg/l	1	16.1	16.1	16.1	
COD-LOW	mg/l	6	8.3	40.0	20.6	12.1
TOTAL CARBON	mg/l	4	8.1	16.3	11.5	3.4
TOT INORGANIC CARBON	mg/l	4	0.6	9.9	4.4	4.0
TOTAL ORGANIC CARBON	mg/l	4	5.0	9.9	7.1	2.1
TURBIDITY	JTU	8	3.2	25.0	6.9	7.3
TOTAL SUSPENDED SOLIDS	mg/l	8	2	18	7	6
TOTAL DISSOLVED SOLIDS	mg/l	8	28	102	70	28
TOTAL SOLIDS	mg/l	8	36	117	78	27
CHLORIDE	mg/l	8	8.0	18.7	12.8	3.0

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

SHARPS RUN 812,6

STATION LOCATION: ROUTE 541 (NEAR THE MEDFORD CIRCLE), MEDFORD TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			11
DAY			26
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	12.0
WATER TEMPERATURE	deg. C	P00010	6.0
pH-LAB	pH	P00403	7.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	293.5
ALKALINITY AS CaCO3	mg/l	P00410	76.2
NO2+NO3-N	mg/l	P00630	0.09
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.86
ORGANIC N	mg/l	P00605	0.86
TOTAL N	mg/l	P00600	0.95
TOTAL ORTHO P-PO4	mg/l	P00660	0.11
TOTAL P-PO4	mg/l	P00650	0.13
POLY PO4	mg/l	P00655	0.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-HIGH	mg/l	P00340	
COD-LOW	mg/l	P00335	1.0
TOTAL CARBON	mg/l	P00690	24.0
TOT INORGANIC CARBON	mg/l	P00685	1.9
TOTAL ORGANIC CARBON	mg/l	P00680	22.2
TURBIDITY	JTU	P00076	7.2
TOTAL SUSPENDED SOLIDS	mg/l	P00530	5
TOTAL DISSOLVED SOLIDS	mg/l	P70300	209
TOTAL SOLIDS	mg/l	P00500	214
CHLORIDE	mg/l	P00940	14.0
FECAL COLIFORM	MF	P31613	200
TOTAL COLIFORM	MF	P31504	1000
FECAL STREPT	MF	P31673	300

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

SHARPS RUN B12,6

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	6	6.9	7.3	7.1	(7.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	6	118.0	293.5	230.0	84.4
ALKALINITY AS CaCO3	mg/l	6	31.6	82.8	60.9	21.4
NO2+NO3-N	mg/l	5	0.09	0.91	0.40	0.30
NH3-N	mg/l	6	<.10	0.43	0.17	0.16
TOTAL KJELDAHL-N	mg/l	6	0.58	1.50	0.99	0.31
ORGANIC N	mg/l	6	0.58	1.27	0.82	0.24
TOTAL N	mg/l	5	0.95	1.89	1.47	0.42
TOTAL ORTHO P-PO4	mg/l	6	0.06	0.56	0.19	0.19
TOTAL P-PO4	mg/l	6	0.07	0.87	0.25	0.30
POLY PO4	mg/l	6	<.01	0.12	0.02	0.05
BOD 5-DAY	mg/l	2	<2.0	2.0	<2.0	<2.0
BOD 7-DAY	mg/l	3	<2.0	3.7	<2.0	2.1
COD-HIGH	mg/l	1	12.8	12.8	12.8	
COD-LOW	mg/l	5	1.0	60.0	20.5	23.5
TOTAL CARBON	mg/l	3	24.0	34.2	28.3	5.3
TOT INORGANIC CARBON	mg/l	3	1.9	29.4	18.5	14.7
TOTAL ORGANIC CARBON	mg/l	3	2.4	22.2	9.8	10.8
TURBIDITY	JTU	6	6.5	90.0	21.7	33.6
TOTAL SUSPENDED SOLIDS	mg/l	6	4	86	20	33
TOTAL DISSOLVED SOLIDS	mg/l	6	14	209	147	72
TOTAL SOLIDS	mg/l	6	100	215	167	45
CHLORIDE	mg/l	6	7.0	14.0	12.2	2.7

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

SOUTHWEST BRANCH RANCOCAS CREEK B12,7

STATION LOCATION: ROUTE 616 (CHURCH ROAD) AT KIRBY'S MILL LAKE, MEDFORD TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			11
DAY			26
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	12.0
WATER TEMPERATURE	deg. C	P00010	
pH-LAB	pH	P00403	6.9
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	124.5
ALKALINITY AS CaCO3	mg/l	P00410	22.7
NO2+NO3-N	mg/l	P00630	0.61
NH3-N	mg/l	P00610	0.54
TOTAL KJELDAHL-N	mg/l	P00625	0.72
ORGANIC N	mg/l	P00605	0.18
TOTAL N	mg/l	P00600	1.33
TOTAL ORTHO P-PO4	mg/l	P00660	
TOTAL P-PO4	mg/l	P00650	
POLY PO4	mg/l	P00655	
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	2.9
COD-HIGH	mg/l	P00340	
COD-LOW	mg/l	P00335	2.0
TOTAL CARBON	mg/l	P00690	11.2
TOT INORGANIC CARBON	mg/l	P00685	1.2
TOTAL ORGANIC CARBON	mg/l	P00680	10.0
TURBIDITY	JTU	P00076	3.3
TOTAL SUSPENDED SOLIDS	mg/l	P00530	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	91
TOTAL SOLIDS	mg/l	P00500	95
CHLORIDE	mg/l	P00940	13.0
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	2000
FECAL STREPT	MF	P31673	200

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

SOUTHWEST BRANCH RANCOCAS CREEK B12,7

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	7	6.1	7.1	6.6	(6.8)
SPECIFIC CONDUCTIVITY-LAB	umhos	7	90.0	165.1	125.6	24.4
ALKALINITY AS CaCO3	mg/l	7	9.7	27.3	17.3	7.3
NO2+NO3-N	mg/l	7	0.36	0.90	0.64	0.20
NH3-N	mg/l	7	0.20	0.94	0.42	0.25
TOTAL KJELDAHL-N	mg/l	7	0.70	1.50	1.09	0.35
ORGANIC N	mg/l	7	0.18	1.19	0.67	0.34
TOTAL N	mg/l	7	1.16	2.33	1.73	0.51
TOTAL ORTHO P-PO4	mg/l	6	0.04	0.30	0.17	0.10
TOTAL P-PO4	mg/l	6	0.06	0.36	0.20	0.11
POLY PO4	mg/l	6	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	2	2.3	2.7	2.5	<2.0
BOD 7-DAY	mg/l	4	<2.0	3.0	<2.0	<2.0
COD-HIGH	mg/l	1	22.3	22.3	22.3	
COD-LOW	mg/l	6	2.0	35.0	20.0	11.3
TOTAL CARBON	mg/l	4	11.2	14.2	12.7	1.2
TOT INORGANIC CARBON	mg/l	4	1.2	7.9	4.2	2.8
TOTAL ORGANIC CARBON	mg/l	4	6.3	10.0	8.5	1.6
TURBIDITY	JTU	7	3.3	27.0	9.7	8.5
TOTAL SUSPENDED SOLIDS	mg/l	7	4	13	8	4
TOTAL DISSOLVED SOLIDS	mg/l	7	47	176	83	45
TOTAL SOLIDS	mg/l	7	54	180	91	43
CHLORIDE	mg/l	7	9.0	14.9	11.8	2.1

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

BEAR SWAMP PCSR7

STATION LOCATION: ROUTE 70, SOUTHAMPTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			4
DAY			24
YEAR			91
WEATHER	code	P00041	2
AIR TEMPERATURE	deg. C	---	13.5
WATER TEMPERATURE	deg. C	P00010	11.5
pH-LAB	pH	P00403	4.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	61.4
HARDNESS(exp)	mg/l	P00900	2.7
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.66
ORGANIC N	mg/l	P00605	0.66
TOTAL N	mg/l	P00600	0.66
TOTAL P-PO4	mg/l	P00650	0.02
BOD 5-DAY	mg/l	P00310	<2.0
COD-LOW	mg/l	P00335	71.5
TOTAL CARBON	mg/l	P00690	34.5
TURBIDITY	JTU	P00076	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	5
TOTAL DISSOLVED SOLIDS	mg/l	P70300	49
TOTAL SOLIDS	mg/l	P00500	54
TOTAL CALCIUM(exp)	mg/l	P00916	1.8
TOTAL MAGNESIUM(exp)	mg/l	P00927	0.9
CHLORIDE	mg/l	P00940	6.8

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

BEAR SWAMP PCSR7

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	1	4.2	4.2	4.2	(4.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	1	61.4	61.4	61.4	
HARDNESS(exp)	mg/l	1	2.7	2.7	2.7	
NO2+NO3-N	mg/l	1	<.04	<.04	<.04	
NH3-N	mg/l	1	<.10	<.10	<.10	
TOTAL KJELDAHL-N	mg/l	1	0.66	0.66	0.66	
ORGANIC N	mg/l	1	0.66	0.66	0.66	
TOTAL N	mg/l	1	0.66	0.66	0.66	
TOTAL P-PO4	mg/l	1	0.02	0.02	0.02	
BOD 5-DAY	mg/l	1	<2.0	<2.0	<2.0	
COD-LOW	mg/l	1	71.5	71.5	71.5	
TOTAL CARBON	mg/l	1	34.5	34.5	34.5	
TURBIDITY	JTU	1	1.0	1.0	1.0	
TOTAL SUSPENDED SOLIDS	mg/l	1	5	5	5	
TOTAL DISSOLVED SOLIDS	mg/l	1	49	49	49	
TOTAL SOLIDS	mg/l	1	54	54	54	
TOTAL CALCIUM(exp)	mg/l	1	1.8	1.8	1.8	
TOTAL MAGNESIUM(exp)	mg/l	1	0.9	0.9	0.9	
CHLORIDE	mg/l	1	6.8	6.8	6.8	

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

LITTLE CREEK B12,8

STATION LOCATION: ROUTE 616 (CHURCH ROAD), MEDFORD TWP AND SOUTHAMPTON TWP BORDER, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			11
DAY			26
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	12.0
WATER TEMPERATURE	deg. C	P00010	6.0
pH-LAB	pH	P00403	6.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	89.6
ALKALINITY AS CaCO3	mg/l	P00410	6.0
NO2+NO3-N	mg/l	P00630	0.16
NH3-N	mg/l	P00610	0.23
TOTAL KjELDAHL-N	mg/l	P00625	0.58
ORGANIC N	mg/l	P00605	0.35
TOTAL N	mg/l	P00600	0.74
TOTAL ORTHO P-PO4	mg/l	P00660	0.06
TOTAL P-PO4	mg/l	P00650	0.10
POLY PO4	mg/l	P00655	0.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-LOW	mg/l	P00335	25.0
TOTAL CARBON	mg/l	P00690	16.3
TOT INORGANIC CARBON	mg/l	P00685	1.4
TOTAL ORGANIC CARBON	mg/l	P00680	14.9
TURBIDITY	JTU	P00076	2.4
TOTAL SUSPENDED SOLIDS	mg/l	P00530	5
TOTAL DISSOLVED SOLIDS	mg/l	P70300	102
TOTAL SOLIDS	mg/l	P00500	107
CHLORIDE	mg/l	P00940	11.7
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	1600
FECAL STREPT	MF	P31673	<100

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

LITTLE CREEK B12,8

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	6	4.5	6.9	4.9	(5.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	6	72.7	170.0	98.0	36.1
ALKALINITY AS CaCO3	mg/l	4	<0.5	37.8	12.4	17.2
NO2+NO3-N	mg/l	6	0.12	0.48	0.25	0.14
NH3-N	mg/l	6	<.10	0.23	0.13	0.11
TOTAL KJELDAHL-N	mg/l	6	0.58	5.40	1.69	1.84
ORGANIC N	mg/l	6	0.35	5.40	1.56	1.90
TOTAL N	mg/l	6	0.74	5.52	1.94	1.79
TOTAL ORTHO P-PO4	mg/l	6	0.03	0.36	0.12	0.12
TOTAL P-PO4	mg/l	6	0.05	0.49	0.16	0.17
POLY PO4	mg/l	6	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	1	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	4	<2.0	4.0	<2.0	2.0
COD-LOW	mg/l	6	25.0	60.0	42.7	13.2
TOTAL CARBON	mg/l	4	16.3	28.5	21.3	5.2
TOT INORGANIC CARBON	mg/l	4	1.4	3.3	2.0	0.8
TOTAL ORGANIC CARBON	mg/l	4	14.9	25.2	19.2	4.3
TURBIDITY	JTU	6	1.9	12.0	6.4	4.7
TOTAL SUSPENDED SOLIDS	mg/l	6	<1	20	6	7
TOTAL DISSOLVED SOLIDS	mg/l	6	57	102	83	17
TOTAL SOLIDS	mg/l	6	57	107	89	17
CHLORIDE	mg/l	6	10.6	11.7	11.1	0.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANOCAS CREEK BASIN: SOUTHWEST BRANCH RANOCAS CREEK

LITTLE CREEK B12,10

STATION LOCATION: EAYRESTOWN ROAD NEAR GOLDEN PHEASANT COUNTRY CLUB, LUMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			11
DAY			26
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	12.0
WATER TEMPERATURE	deg. C	P00010	
pH-LAB	pH	P00403	6.8
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	119.4
ALKALINITY AS CaCO3	mg/l	P00410	14.5
NO2+NO3-N	mg/l	P00630	0.49
NH3-N	mg/l	P00610	0.29
TOTAL KJELDAHL-N	mg/l	P00625	0.59
ORGANIC N	mg/l	P00605	0.30
TOTAL N	mg/l	P00600	1.08
TOTAL ORTHO P-PO4	mg/l	P00660	0.09
TOTAL P-PO4	mg/l	P00650	0.12
POLY PO4	mg/l	P00655	0.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	<2.0
COD-HIGH	mg/l	P00340	
COD-LOW	mg/l	P00335	16.5
TOTAL CARBON	mg/l	P00690	16.7
TOT INORGANIC CARBON	mg/l	P00685	1.3
TOTAL ORGANIC CARBON	mg/l	P00680	15.4
TURBIDITY	JTU	P00076	2.6
TOTAL SUSPENDED SOLIDS	mg/l	P00530	5
TOTAL DISSOLVED SOLIDS	mg/l	P70300	101
TOTAL SOLIDS	mg/l	P00500	106
CHLORIDE	mg/l	P00940	12.8
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	1200
FECAL STREPT	MF	P31673	3200

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

LITTLE CREEK B12,10

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	7	5.7	6.9	6.2	(6.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	7	90.0	137.4	106.1	17.3
ALKALINITY AS CaCO ₃	mg/l	7	3.8	26.8	12.9	8.6
NO ₂ +NO ₃ -N	mg/l	7	0.35	1.13	0.65	0.33
NH ₃ -N	mg/l	7	<.10	0.47	0.18	0.17
TOTAL KJELDAHL-N	mg/l	7	0.59	1.70	1.02	0.38
ORGANIC N	mg/l	7	0.30	1.70	0.84	0.42
TOTAL N	mg/l	7	1.08	2.80	1.67	0.69
TOTAL ORTHO P-PO ₄	mg/l	7	0.03	0.38	0.14	0.13
TOTAL P-PO ₄	mg/l	7	0.04	0.63	0.20	0.21
POLY PO ₄	mg/l	7	<.01	0.14	0.02	0.05
BOD 5-DAY	mg/l	1	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	5	<2.0	4.6	<2.0	<2.0
COD-HIGH	mg/l	1	21.1	21.1	21.1	
COD-LOW	mg/l	6	16.5	48.0	36.8	11.6
TOTAL CARBON	mg/l	4	16.7	26.2	20.6	4.0
TOT INORGANIC CARBON	mg/l	4	1.3	6.5	3.3	2.3
TOTAL ORGANIC CARBON	mg/l	4	15.4	19.7	17.3	1.8
TURBIDITY	JTU	7	2.3	20.0	7.4	6.9
TOTAL SUSPENDED SOLIDS	mg/l	7	<1	25	7	8
TOTAL DISSOLVED SOLIDS	mg/l	7	66	150	94	28
TOTAL SOLIDS	mg/l	7	69	154	100	26
CHLORIDE	mg/l	7	9.0	12.8	11.4	1.2

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

SOUTHWEST BRANCH RANCOCAS CREEK B12,11

STATION LOCATION: ROUTE 612 (BELLA BRIDGE ROAD), LUMBERTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			11
DAY			26
YEAR			90
WEATHER	code	P00041	0
AIR TEMPERATURE	deg. C	---	12.0
WATER TEMPERATURE	deg. C	P00010	
pH-LAB	pH	P00403	6.8
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	157.0
ALKALINITY AS CaCO3	mg/l	P00410	25.9
NO2+NO3-N	mg/l	P00630	0.90
NH3-N	mg/l	P00610	0.70
TOTAL KjELDAHL-N	mg/l	P00625	0.88
ORGANIC N	mg/l	P00605	0.18
TOTAL N	mg/l	P00600	1.78
TOTAL ORTHO P-PO4	mg/l	P00660	0.27
TOTAL P-PO4	mg/l	P00650	0.34
POLY PO4	mg/l	P00655	0.01
BOD 5-DAY	mg/l	P00310	
BOD 7-DAY	mg/l	P00315	3.5
COD-HIGH	mg/l	P00340	
COD-LOW	mg/l	P00335	7.5
TOTAL CARBON	mg/l	P00690	13.7
TOT INORGANIC CARBON	mg/l	P00685	1.6
TOTAL ORGANIC CARBON	mg/l	P00680	12.1
TURBIDITY	JTU	P00076	3.3
TOTAL SUSPENDED SOLIDS	mg/l	P00530	6
TOTAL DISSOLVED SOLIDS	mg/l	P70300	109
TOTAL SOLIDS	mg/l	P00500	115
CHLORIDE	mg/l	P00940	5.6
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	1400
FECAL STREPT	MF	P31673	200

RANCOCAS CREEK BASIN: SOUTHWEST BRANCH RANCOCAS CREEK

SOUTHWEST BRANCH RANCOCAS CREEK B12,11

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	7	6.0	6.8	6.4	(6.5)
SPECIFIC CONDUCTIVITY-LAB	umhos	6	116.9	200.0	151.8	30.7
ALKALINITY AS CaCO ₃	mg/l	7	12.1	29.5	21.2	7.8
NO ₂ +NO ₃ -N	mg/l	7	0.52	1.96	1.00	0.57
NH ₃ -N	mg/l	7	0.15	1.25	0.62	0.42
TOTAL KJELDAHL-N	mg/l	7	0.68	2.20	1.47	0.65
ORGANIC N	mg/l	7	0.18	1.53	0.85	0.51
TOTAL N	mg/l	7	1.20	4.16	2.47	1.10
TOTAL ORTHO P-PO ₄	mg/l	7	0.11	0.49	0.29	0.14
TOTAL P-PO ₄	mg/l	7	0.14	0.60	0.35	0.17
POLY PO ₄	mg/l	7	<.01	0.04	0.01	0.02
BOD 5-DAY	mg/l	1	2.1	2.1	2.1	
BOD 7-DAY	mg/l	5	<2.0	5.1	2.3	2.3
COD-HIGH	mg/l	1	21.8	21.8	21.8	
COD-LOW	mg/l	6	7.5	28.0	21.2	7.6
TOTAL CARBON	mg/l	4	13.7	15.8	14.5	0.9
TOT INORGANIC CARBON	mg/l	4	1.6	7.4	4.1	2.4
TOTAL ORGANIC CARBON	mg/l	3	8.4	12.1	10.2	1.8
TURBIDITY	JTU	7	3.3	19.0	8.2	5.8
TOTAL SUSPENDED SOLIDS	mg/l	6	3	23	8	7
TOTAL DISSOLVED SOLIDS	mg/l	7	66	109	91	16
TOTAL SOLIDS	mg/l	6	73	115	99	14
CHLORIDE	mg/l	7	5.6	16.0	12.0	3.4

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

BURLINGTON COUNTY

RANCOCAS CREEK BASIN

SOUTH BRANCH RANCOCAS CREEK

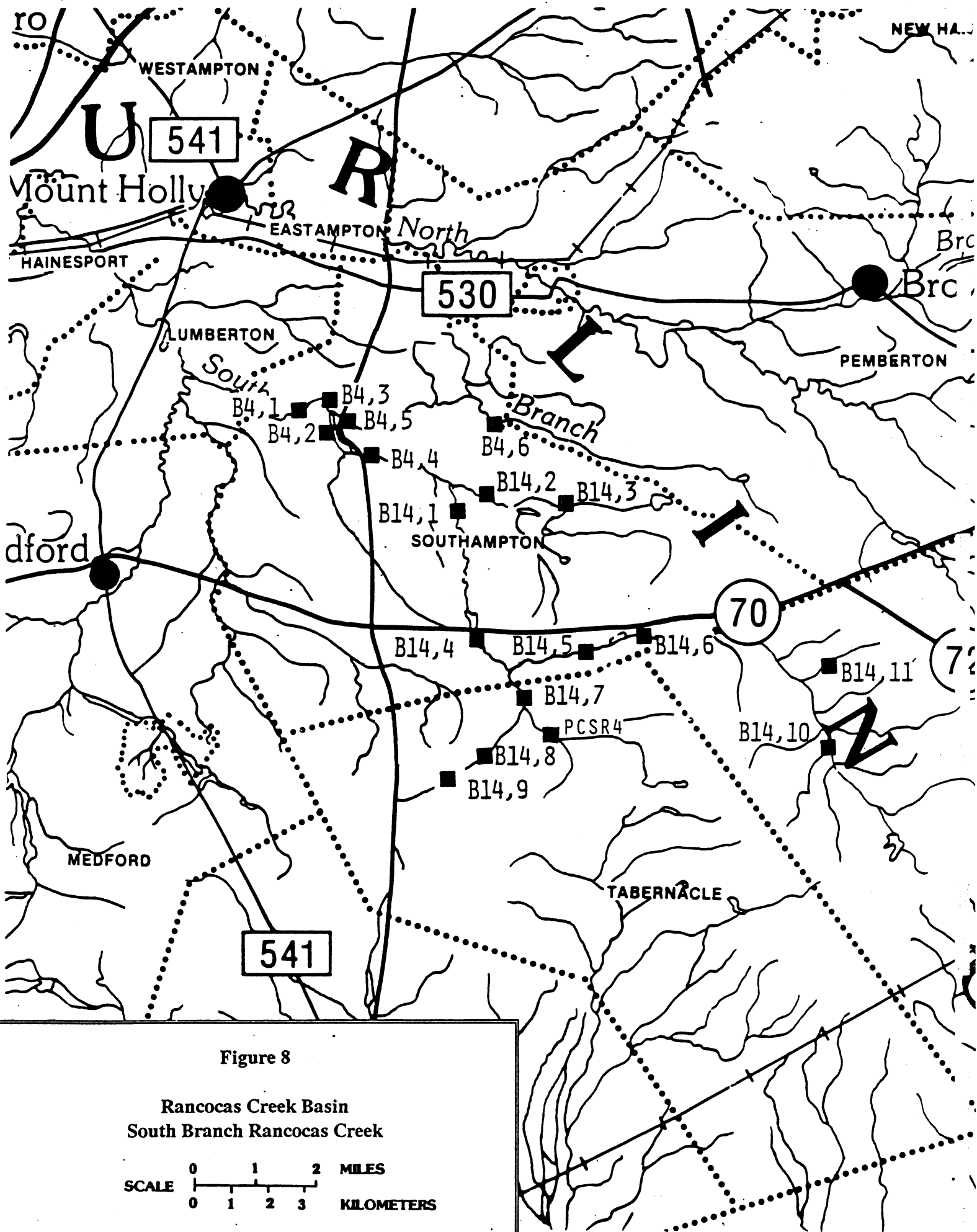


Figure 8

Rancocas Creek Basin
 South Branch Rancocas Creek

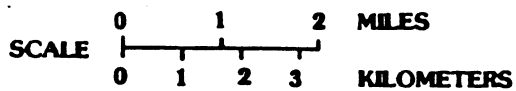


Table 16. Rancocas Creek Basin (South Branch Rancocas Creek), Burlington County, station names and locations

STATION NAME	STATION CODE	STATION LOCATION	CO(1) TWP(2) QUAD(3)		
SOUTH BRANCH RANCOCAS CREEK					
SOUTH BRANCH RANCOCAS CREEK	B14,3	BURRS MILL RD	BU	SA	7
SOUTH BRANCH RANCOCAS CREEK	B14,2	BED BUG HILL RD, RETREAT	BU	SA	7
FRIENDSHIP CREEK	PCSR4	CAMP INAWENDIWIN LAKE ABOVE BREAD & CHEESE RUN	BU	TA	15
BREAD AND CHEESE RUN (4)	B14,9	CARRANZA RD (RT 648)	BU	TA	15
BREAD AND CHEESE RUN	B14,8	NEW RD (VINCENTOWN RD)	BU	TA	15
FRIENDSHIP CREEK	B14,7	POWELL PLACE RD	BU	TA	15
BURRS MILL BROOK (SOUTH BRANCH)	B14,10	SOOY RD	BU	WO	16
GUM SPRING (4)	B14,11	BEHIND NEW LISBON STATE SCHOOL	BU	WO	8
BURRS MILL BROOK	B14,6	BURRS MILL RD	BU	SA	7
BURRS MILL BROOK	B14,5	VINCENTOWN-SOUTH PARK RD	BU	SA	7
FRIENDSHIP CREEK	B14,4	RT 70 AT LEISURETOWNE	BU	SA	7
FRIENDSHIP CREEK	B14,1	RETREAT RD	BU	SA	7
SOUTH BRANCH RANCOCAS CREEK	B4,4	RT 206	BU	SA	7
SOUTH BRANCH RANCOCAS CREEK	B4,2	MILL ST, VINCENTOWN	BU	SA	6
STOP THE JADE RUN	B4,6	RIDGE RD (RT 643), BUDDTOWN	BU	SA	7
STOP THE JADE RUN	B4,5	RT 206	BU	SA	7
STOP THE JADE RUN	B4,3	MAIN ST, VINCENTOWN	BU	SA	6
SOUTH BRANCH RANCOCAS CREEK	B4,1	RT 641	BU	SA	6

(1) Refer to Table 23 for county abbreviations.

(2) Refer to Table 22 for township abbreviations.

(3) Refer to Table 24 for quadrangle numbers.

(4) Site not sampled for this report. See New Jersey Surface Water Quality Data Report, December 1989 and/or December 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

SOUTH BRANCH RANCOCAS CREEK B14,3

STATION LOCATION: BURRS MILL ROAD, SOUTHAMPTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			8
YEAR			90
WEATHER	code	P00041	
AIR TEMPERATURE	deg. C	---	
WATER TEMPERATURE	deg. C	P00010	
pH-LAB	pH	P00403	3.9
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	58.8
NO2+NO3-N	mg/l	P00630	0.10
NH3-N	mg/l	P00610	0.20
TOTAL KJELDAHL-N	mg/l	P00625	0.68
ORGANIC N	mg/l	P00605	0.48
TOTAL N	mg/l	P00600	0.78
TOTAL ORTHO P-PO4	mg/l	P00660	0.05
TOTAL P-PO4	mg/l	P00650	0.05
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	2.1
COD-LOW	mg/l	P00335	82.5
TOTAL CARBON	mg/l	P00690	35.8
TOT INORGANIC CARBON	mg/l	P00685	4.5
TOTAL ORGANIC CARBON	mg/l	P00680	31.3
TURBIDITY	JTU	P00076	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	54
TOTAL SOLIDS	mg/l	P00500	55
CHLORIDE	mg/l	P00940	5.2
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	200
FECAL STREPT	MF	P31673	300

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

SOUTH BRANCH RANCOCAS CREEK B14,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	5	3.5	3.9	3.7	(3.9)
SPECIFIC CONDUCTIVITY-LAB	umhos	5	53.8	73.0	63.5	8.1
NO2+NO3-N	mg/l	5	<.04	0.10	<.04	0.04
NH3-N	mg/l	5	<.10	0.22	0.13	<.10
TOTAL KJELDAHL-N	mg/l	5	0.52	1.10	0.72	0.24
ORGANIC N	mg/l	5	0.33	0.98	0.59	0.28
TOTAL N	mg/l	5	0.52	1.10	0.74	0.24
TOTAL ORTHO P-PO4	mg/l	5	0.01	0.05	0.02	0.02
TOTAL P-PO4	mg/l	5	0.02	0.05	0.03	0.01
POLY PO4	mg/l	5	<.01	0.01	0.01	0.01
BOD 5-DAY	mg/l	4	<2.0	3.9	<2.0	<2.0
COD-LOW	mg/l	4	20.0	93.0	54.9	38.2
TOTAL CARBON	mg/l	3	13.1	44.9	31.3	16.4
TOT INORGANIC CARBON	mg/l	3	3.1	6.9	4.8	1.9
TOTAL ORGANIC CARBON	mg/l	3	10.0	38.0	26.4	14.6
TURBIDITY	JTU	5	<1.0	1.5	<1.0	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	5	<1	18	6	7
TOTAL DISSOLVED SOLIDS	mg/l	5	29	74	48	17
TOTAL SOLIDS	mg/l	5	34	92	54	22
CHLORIDE	mg/l	5	3.6	5.2	4.5	0.7

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

SOUTH BRANCH RANCOCAS CREEK B14,2

STATION LOCATION: BED BUG HILL ROAD NEAR RETREAT, SOUTHAMPTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			8	4
DAY			8	29
YEAR			90	91
WEATHER	code	P00041		2
AIR TEMPERATURE	deg. C	---		12.0
WATER TEMPERATURE	deg. C	P00010		14.5
pH-LAB	pH	P00403	4.2	4.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	65.3	54.1
HARDNESS(exp)	mg/l	P00900		2.8
NO2+NO3-N	mg/l	P00630	<.04	<.04
NH3-N	mg/l	P00610	0.18	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.66	0.94
ORGANIC N	mg/l	P00605	0.48	0.94
TOTAL N	mg/l	P00600	0.66	0.94
TOTAL ORTHO P-PO4	mg/l	P00660	0.13	0.09
TOTAL P-PO4	mg/l	P00650	0.13	0.11
POLY PO4	mg/l	P00655	<.01	0.03
BOD 5-DAY	mg/l	P00310	<2.0	
BOD 7-DAY	mg/l	P00315		<2.0
COD-LOW	mg/l	P00335	47.0	26.5
TOTAL CARBON	mg/l	P00690	22.2	19.1
TOT INORGANIC CARBON	mg/l	P00685	1.4	0.9
TOTAL ORGANIC CARBON	mg/l	P00680	20.8	18.1
TURBIDITY	JTU	P00076	1.0	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	2	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	68	61
TOTAL SOLIDS	mg/l	P00500	70	65
TOTAL CALCIUM(exp)	mg/l	P00916		1.1
TOTAL MAGNESIUM(exp)	mg/l	P00927		1.7
CHLORIDE	mg/l	P00940	6.4	4.9
FECAL COLIFORM	MF	P31613	100	<50
TOTAL COLIFORM	MF	P31504	1600	<200
FECAL STREPT	MF	P31673	500	200

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

SOUTH BRANCH RANCOCAS CREEK B14,2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	9	3.3	4.5	3.9	(4.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	9	52.1	172.0	74.3	37.4
HARDNESS(exp)	mg/l	1	2.8	2.8	2.8	
NO2+NO3-N	mg/l	9	<.04	0.43	0.09	0.14
NH3-N	mg/l	9	<.10	0.24	0.14	0.11
TOTAL KJELDAHL-N	mg/l	9	0.52	3.10	0.97	0.81
ORGANIC N	mg/l	9	0.34	2.87	0.83	0.79
TOTAL N	mg/l	9	0.58	3.10	1.06	0.78
TOTAL ORTHO P-PO4	mg/l	8	0.05	0.30	0.12	0.08
TOTAL P-PO4	mg/l	8	0.09	0.35	0.15	0.09
POLY PO4	mg/l	9	<.01	0.06	0.02	0.02
BOD 5-DAY	mg/l	6	<2.0	5.1	<2.0	2.1
BOD 7-DAY	mg/l	2	<2.0	<2.0	<2.0	
COD-LOW	mg/l	8	16.3	77.0	38.1	18.7
TOTAL CARBON	mg/l	5	14.0	37.3	21.8	9.2
TOT INORGANIC CARBON	mg/l	5	0.9	8.1	2.8	3.0
TOTAL ORGANIC CARBON	mg/l	5	12.9	29.2	19.0	6.5
TURBIDITY	JTU	9	1.0	6.0	2.4	1.5
TOTAL SUSPENDED SOLIDS	mg/l	9	2.0	396.0	48.1	131
TOTAL DISSOLVED SOLIDS	mg/l	9	14.0	93.0	55.0	22
TOTAL SOLIDS	mg/l	9	19.0	448.0	103.1	132
TOTAL CALCIUM(exp)	mg/l	1	1.1	1.1	1.1	
TOTAL MAGNESIUM(exp)	mg/l	1	1.7	1.7	1.7	
CHLORIDE	mg/l	9	4.9	8.0	6.6	1.1

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

FRIENDSHIP CREEK PCSR4

STATION LOCATION: CAMP INAWENDIWIN LAKE ABOVE BREAD & CHEESE RUN, TABERNACLE TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			4
DAY			24
YEAR			91
WEATHER	code	P00041	6
AIR TEMPERATURE	deg. C	---	16.5
WATER TEMPERATURE	deg. C	P00010	13.5
pH-LAB	pH	P00403	4.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	45.8
HARDNESS(exp)	mg/l	P00900	1.8
NO2+NO3-N	mg/l	P00630	0.11
NH3-N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.52
ORGANIC N	mg/l	P00605	0.52
TOTAL N	mg/l	P00600	0.63
TOTAL ORTHO P-PO4	mg/l	P00660	0.01
POLY PO4	mg/l	P00655	0.01
BOD 5-DAY	mg/l	P00310	<2.0
COD-LOW	mg/l	P00335	31.5
TOTAL CARBON	mg/l	P00690	18.4
TURBIDITY	JTU	P00076	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	5
TOTAL DISSOLVED SOLIDS	mg/l	P70300	22
TOTAL SOLIDS	mg/l	P00500	27
TOTAL CALCIUM(exp)	mg/l	P00916	1.1
TOTAL MAGNESIUM(exp)	mg/l	P00927	0.7
CHLORIDE	mg/l	P00940	3.5

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

FRIENDSHIP CREEK PCSR4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	1	4.3	4.3	4.3	(4.3)
SPECIFIC CONDUCTIVITY-LAB	umhos	1	45.8	45.8	45.8	
HARDNESS(exp)	mg/l	1	1.8	1.8	1.8	
NO2+NO3-N	mg/l	1	0.11	0.11	0.11	
NH3-N	mg/l	1	<.10	<.10	<.10	
TOTAL KJELDAHL-N	mg/l	1	0.52	0.52	0.52	
ORGANIC N	mg/l	1	0.52	0.52	0.52	
TOTAL N	mg/l	1	0.63	0.63	0.63	
TOTAL ORTHO P-PO4	mg/l	1	0.01	0.01	0.01	
POLY PO4	mg/l	1	0.01	0.01	0.01	
BOD 5-DAY	mg/l	1	<2.0	<2.0	<2.0	
COD-LOW	mg/l	1	31.5	31.5	31.5	
TOTAL CARBON	mg/l	1	18.4	18.4	18.4	
TURBIDITY	JTU	1	1.0	1.0	1.0	
TOTAL SUSPENDED SOLIDS	mg/l	1	5	5	5	
TOTAL DISSOLVED SOLIDS	mg/l	1	22	22	22	
TOTAL SOLIDS	mg/l	1	27	27	27	
TOTAL CALCIUM(exp)	mg/l	1	1.1	1.1	1.1	
TOTAL MAGNESIUM(exp)	mg/l	1	0.7	0.7	0.7	
CHLORIDE	mg/l	1	3.5	3.5	3.5	

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

BREAD AND CHEESE RUN B14,8

STATION LOCATION: NEW ROAD (VINCENTOWN ROAD), TABERNACLE TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			8	4
DAY			8	24
YEAR			90	91
WEATHER	code	P00041		2
AIR TEMPERATURE	deg. C	---		15.5
WATER TEMPERATURE	deg. C	P00010		12.5
pH-LAB	pH	P00403	5.8	6.0
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	149.5	135.9
ALKALINITY AS CaCO ₃	mg/l	P00410	8.4	8.1
HARDNESS(exp)	mg/l	P00900		11.3
NO ₂ +NO ₃ -N	mg/l	P00630	2.00	3.64
NH ₃ -N	mg/l	P00610	0.38	<.10
TOTAL KjELDAHL-N	mg/l	P00625	0.54	0.52
ORGANIC N	mg/l	P00605	0.16	0.52
TOTAL N	mg/l	P00600	2.54	4.16
TOTAL ORTHO P-PO ₄	mg/l	P00660	0.02	0.01
TOTAL P-PO ₄	mg/l	P00650	0.05	0.01
POLY PO ₄	mg/l	P00655	0.04	0.01
BOD 5-DAY	mg/l	P00310	<2.0	<2.0
COD-LOW	mg/l	P00335	15.5	12.5
TOTAL CARBON	mg/l	P00690	8.9	10.7
TOT INORGANIC CARBON	mg/l	P00685	2.4	
TOTAL ORGANIC CARBON	mg/l	P00680	6.5	
TURBIDITY	JTU	P00076	1.0	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	3	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	105	83
TOTAL SOLIDS	mg/l	P00500	108	87
TOTAL CALCIUM(exp)	mg/l	P00916		10.9
TOTAL MAGNESIUM(exp)	mg/l	P00927		0.5
CHLORIDE	mg/l	P00940	10.3	11.5
FECAL COLIFORM	MF	P31613	100	50
TOTAL COLIFORM	MF	P31504	1400	400
FECAL STREPT	MF	P31673	200	<100

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

BREAD AND CHEESE RUN B14,8

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	7	5.2	6.2	5.7	(5.9)
SPECIFIC CONDUCTIVITY-LAB	umhos	7	116.4	170.4	145.2	21.9
ALKALINITY AS CaCO3	mg/l	7	4.1	10.5	7.6	2.2
HARDNESS(exp)	mg/l	1	11.3	11.3	11.3	
NO2+NO3-N	mg/l	7	2.00	7.64	4.35	2.08
NH3-N	mg/l	7	<.10	0.38	<.10	0.16
TOTAL KJELDAHL-N	mg/l	6	0.26	0.54	0.43	0.11
ORGANIC N	mg/l	6	0.16	0.52	0.32	0.14
TOTAL N	mg/l	6	2.54	8.00	4.74	2.19
TOTAL ORTHO P-PO4	mg/l	6	<.01	0.02	0.01	0.01
TOTAL P-PO4	mg/l	6	0.01	0.06	0.03	0.02
POLY PO4	mg/l	6	<.01	0.04	0.02	0.02
BOD 5-DAY	mg/l	7	<2.0	2.2	<2.0	<2.0
COD-LOW	mg/l	6	1.0	30.5	17.0	10.2
TOTAL CARBON	mg/l	5	5.0	10.7	8.0	2.2
TOT INORGANIC CARBON	mg/l	4	2.4	5.3	3.6	1.5
TOTAL ORGANIC CARBON	mg/l	4	2.5	6.5	3.8	1.9
TURBIDITY	JTU	7	<1.0	11.0	2.8	3.6
TOTAL SUSPENDED SOLIDS	mg/l	7	1	23	5	8
TOTAL DISSOLVED SOLIDS	mg/l	7	83	132	108	16
TOTAL SOLIDS	mg/l	7	87	133	114	14
TOTAL CALCIUM(exp)	mg/l	1	10.9	10.9	10.9	
TOTAL MAGNESIUM(exp)	mg/l	1	0.5	0.5	0.5	
CHLORIDE	mg/l	7	7.5	13.7	11.7	2.2

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

FRIENDSHIP CREEK B14,7

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	6	4.3	4.7	4.5	(4.5)
SPECIFIC CONDUCTIVITY-LAB	umhos	6	48.0	85.3	62.7	12.8
ALKALINITY AS CaCO3	mg/l	2	0.5	0.7	0.6	<0.5
NO2+NO3-N	mg/l	6	0.09	1.50	0.78	0.56
NH3-N	mg/l	6	<.10	0.27	0.14	<.10
TOTAL KJELDAHL-N	mg/l	5	0.38	0.74	0.53	0.15
ORGANIC N	mg/l	5	0.25	0.60	0.39	0.14
TOTAL N	mg/l	5	0.63	1.88	1.24	0.50
TOTAL ORTHO P-PO4	mg/l	5	<.01	0.03	0.01	0.01
TOTAL P-PO4	mg/l	5	0.01	0.06	0.03	0.02
POLY PO4	mg/l	5	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	5	<2.0	3.4	<2.0	<2.0
BOD 7-DAY	mg/l	1	2.6	2.6	2.6	
COD-LOW	mg/l	5	10.0	48.2	25.4	17.0
TOTAL CARBON	mg/l	4	7.4	17.2	10.8	4.4
TOT INORGANIC CARBON	mg/l	4	1.3	4.0	2.2	1.2
TOTAL ORGANIC CARBON	mg/l	4	5.9	15.2	8.6	4.4
TURBIDITY	JTU	6	1.4	3.0	2.3	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	6	2	49	11	19
TOTAL DISSOLVED SOLIDS	mg/l	6	38	62	49	10
TOTAL SOLIDS	mg/l	6	41	87	60	16
CHLORIDE	mg/l	6	4.3	6.3	5.4	0.7

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

FRIENDSHIP CREEK B14,7

STATION LOCATION: POWELL PLACE ROAD, TABERNACLE TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			8
YEAR			90
WEATHER	code	P00041	
AIR TEMPERATURE	deg. C	---	
WATER TEMPERATURE	deg. C	P00010	
pH-LAB	pH	P00403	4.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	61.8
ALKALINITY AS CaCO3	mg/l	P00410	
NO2+NO3-N	mg/l	P00630	0.26
NH3-N	mg/l	P00610	0.15
TOTAL KJELDAHL-N	mg/l	P00625	0.60
ORGANIC N	mg/l	P00605	0.45
TOTAL N	mg/l	P00600	0.86
TOTAL ORTHO P-PO4	mg/l	P00660	0.03
TOTAL P-PO4	mg/l	P00650	0.04
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	48.2
TOTAL CARBON	mg/l	P00690	17.2
TOT INORGANIC CARBON	mg/l	P00685	1.9
TOTAL ORGANIC CARBON	mg/l	P00680	15.2
TURBIDITY	JTU	P00076	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	62
TOTAL SOLIDS	mg/l	P00500	66
CHLORIDE	mg/l	P00940	4.3
FECAL COLIFORM	MF	P31613	50
TOTAL COLIFORM	MF	P31504	2800
FECAL STREPT	MF	P31673	200

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

BURRS MILL BROOK B14,10

STATION LOCATION: SOOY ROAD, WOODLAND TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			8
YEAR			90
WEATHER	code	P00041	
AIR TEMPERATURE	deg. C	---	
WATER TEMPERATURE	deg. C	P00010	
pH-LAB	pH	P00403	3.8
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	76.4
NO2+NO3-N	mg/l	P00630	<.04
NH3-N	mg/l	P00610	0.39
TOTAL KJELDAHL-N	mg/l	P00625	1.00
ORGANIC N	mg/l	P00605	0.61
TOTAL N	mg/l	P00600	1.00
TOTAL ORTHO P-PO4	mg/l	P00660	0.05
TOTAL P-PO4	mg/l	P00650	0.05
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	81.5
TOTAL CARBON	mg/l	P00690	34.7
TOT INORGANIC CARBON	mg/l	P00685	3.6
TOTAL ORGANIC CARBON	mg/l	P00680	31.1
TURBIDITY	JTU	P00076	8.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	88
TOTAL SOLIDS	mg/l	P00500	90
CHLORIDE	mg/l	P00940	2.9
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	600
FECAL STREPT	MF	P31673	<100

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

BURRS MILL BROOK B14,10

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	4	3.6	4.4	3.8	(3.9)
SPECIFIC CONDUCTIVITY-LAB	umhos	4	50.0	76.4	58.1	12.4
NO2+NO3-N	mg/l	4	<.04	0.05	<.04	<.04
NH3-N	mg/l	4	<.10	0.39	0.13	0.18
TOTAL KJELDAHL-N	mg/l	4	0.58	1.00	0.70	0.20
ORGANIC N	mg/l	4	0.49	0.61	0.57	<.10
TOTAL N	mg/l	4	0.58	1.00	0.71	0.20
TOTAL ORTHO P-PO4	mg/l	4	0.01	0.05	0.03	0.02
TOTAL P-PO4	mg/l	4	0.02	0.06	0.04	0.01
POLY PO4	mg/l	4	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	3	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	1	<2.0	<2.0	<2.0	
COD-LOW	mg/l	3	32.1	81.5	50.3	27.1
TOTAL CARBON	mg/l	1	34.7	34.7	34.7	
TOT INORGANIC CARBON	mg/l	1	3.6	3.6	3.6	
TOTAL ORGANIC CARBON	mg/l	1	31.1	31.1	31.1	
TURBIDITY	JTU	4	1.0	8.0	3.0	3.4
TOTAL SUSPENDED SOLIDS	mg/l	4	2	5	4	1
TOTAL DISSOLVED SOLIDS	mg/l	4	7	88	51	34
TOTAL SOLIDS	mg/l	4	11	90	55	33
CHLORIDE	mg/l	4	2.9	14.7	6.6	5.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

BURRS MILL BROOK B14,6

STATION LOCATION: BURRS MILL ROAD, SOUTHAMPTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			8
YEAR			90
WEATHER	code	P00041	
AIR TEMPERATURE	deg. C	---	
WATER TEMPERATURE	deg. C	P00010	
pH-LAB	pH	P00403	4.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	56.7
NO2+NO3-N	mg/l	P00630	0.09
NH3-N	mg/l	P00610	0.19
TOTAL KJELDAHL-N	mg/l	P00625	0.48
ORGANIC N	mg/l	P00605	0.29
TOTAL N	mg/l	P00600	0.57
TOTAL ORTHO P-PO4	mg/l	P00660	0.04
TOTAL P-PO4	mg/l	P00650	0.05
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	38.0
TOTAL CARBON	mg/l	P00690	15.1
TOT INORGANIC CARBON	mg/l	P00685	2.7
TOTAL ORGANIC CARBON	mg/l	P00680	12.4
TURBIDITY	JTU	P00076	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	50
TOTAL SOLIDS	mg/l	P00500	51
CHLORIDE	mg/l	P00940	4.1
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	1400
FECAL STREPT	MF	P31673	900

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

BURRS MILL BROOK B14,6

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	6	3.7	4.4	4.0	(4.0)
SPECIFIC CONDUCTIVITY-LAB	umhos	6	45.0	70.1	52.6	9.5
NO2+NO3-N	mg/l	6	<.04	0.14	0.06	0.05
NH3-N	mg/l	6	<.10	0.27	0.13	<.10
TOTAL KJELDAHL-N	mg/l	6	0.38	0.62	0.51	0.11
ORGANIC N	mg/l	6	0.28	0.59	0.38	0.13
TOTAL N	mg/l	6	0.47	0.65	0.57	0.07
TOTAL ORTHO P-PO4	mg/l	6	0.01	0.08	0.04	0.03
TOTAL P-PO4	mg/l	6	0.03	0.15	0.06	0.04
POLY PO4	mg/l	6	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	5	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	1	2.6	2.6	2.6	
COD-LOW	mg/l	5	21.0	39.0	30.5	8.7
TOTAL CARBON	mg/l	4	12.3	19.8	15.1	3.3
TOT INORGANIC CARBON	mg/l	4	2.1	4.0	2.9	0.8
TOTAL ORGANIC CARBON	mg/l	4	9.4	15.8	12.2	2.7
TURBIDITY	JTU	6	<1.0	3.0	1.9	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	6	<1	6	3	2
TOTAL DISSOLVED SOLIDS	mg/l	6	12	50	40	14
TOTAL SOLIDS	mg/l	6	18	51	42	12
CHLORIDE	mg/l	6	4.0	5.3	4.6	0.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

BURRS MILL BROOK B14,5

STATION LOCATION: VINCENTOWN-SOUTH PARK ROAD, SOUTHAMPTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			8	4
DAY			8	24
YEAR			90	91
WEATHER	code	P00041		6
AIR TEMPERATURE	deg. C	---		15.0
WATER TEMPERATURE	deg. C	P00010		13.5
pH-LAB	pH	P00403	4.4	4.7
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	54.6	43.9
HARDNESS(exp)	mg/l	P00900		1.8
NO2+NO3-N	mg/l	P00630	<.04	<.04
NH3-N	mg/l	P00610	0.15	0.11
TOTAL KJELDAHL-N	mg/l	P00625	0.46	0.59
ORGANIC N	mg/l	P00605	0.31	0.48
TOTAL N	mg/l	P00600	0.46	0.59
TOTAL ORTHO P-PO4	mg/l	P00660	0.08	0.02
TOTAL P-PO4	mg/l	P00650	0.07	
POLY PO4	mg/l	P00655	<.01	0.01
BOD 5-DAY	mg/l	P00310	<2.0	<2.0
COD-LOW	mg/l	P00335	27.5	40.5
TOTAL CARBON	mg/l	P00690	12.4	19.8
TOT INORGANIC CARBON	mg/l	P00685	2.2	
TOTAL ORGANIC CARBON	mg/l	P00680	10.3	
TURBIDITY	JTU	P00076	2.0	1.4
TOTAL SUSPENDED SOLIDS	mg/l	P00530	2	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	49	20
TOTAL SOLIDS	mg/l	P00500	51	22
TOTAL CALCIUM(exp)	mg/l	P00916		1.1
TOTAL MAGNESIUM(exp)	mg/l	P00927		0.7
CHLORIDE	mg/l	P00940	4.8	4.0
FECAL COLIFORM	MF	P31613	150	50
TOTAL COLIFORM	MF	P31504	1600	200
FECAL STREPT	MF	P31673	800	<100

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

BURRS MILL BROOK B14,5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	6	3.8	4.7	4.1	(4.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	6	43.9	70.2	53.5	9.2
HARDNESS(exp)	mg/l	1	1.8	1.8	1.8	
NO2+NO3-N	mg/l	6	<.04	0.14	0.04	0.06
NH3-N	mg/l	6	<.10	0.23	0.12	<.10
TOTAL KJELDAHL-N	mg/l	6	0.38	0.74	0.54	0.14
ORGANIC N	mg/l	6	0.27	0.74	0.42	0.17
TOTAL N	mg/l	6	0.46	0.74	0.58	0.11
TOTAL ORTHO P-PO4	mg/l	6	0.01	0.08	0.04	0.03
TOTAL P-PO4	mg/l	5	0.03	0.08	0.05	0.02
POLY PO4	mg/l	6	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	6	<2.0	2.6	<2.0	<2.0
COD-LOW	mg/l	5	23.0	40.5	31.1	6.8
TOTAL CARBON	mg/l	5	9.6	19.8	14.5	4.1
TOT INORGANIC CARBON	mg/l	4	1.4	3.2	2.2	0.8
TOTAL ORGANIC CARBON	mg/l	4	8.2	14.4	11.0	2.6
TURBIDITY	JTU	6	1.4	3.0	2.2	0.6
TOTAL SUSPENDED SOLIDS	mg/l	6	1	13	4	4
TOTAL DISSOLVED SOLIDS	mg/l	6	20	54	43	13
TOTAL SOLIDS	mg/l	6	22	67	47	15
TOTAL CALCIUM(exp)	mg/l	1	1.1	1.1	1.1	
TOTAL MAGNESIUM(exp)	mg/l	1	0.7	0.7	0.7	
CHLORIDE	mg/l	6	4.0	6.2	5.0	0.8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

FRIENDSHIP CREEK B14,4

STATION LOCATION: ROUTE 70 AT LEISURETOWNE, SOUTHAMPTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			4
DAY			24
YEAR			91
WEATHER	code	P00041	2
AIR TEMPERATURE	deg. C	---	14.0
WATER TEMPERATURE	deg. C	P00010	13.0
pH-LAB	pH	P00403	4.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	48.4
ALKALINITY AS CaCO ₃	mg/l	P00410	
HARDNESS(exp)	mg/l	P00900	2.6
NO ₂ +NO ₃ -N	mg/l	P00630	0.18
NH ₃ -N	mg/l	P00610	<.10
TOTAL KJELDAHL-N	mg/l	P00625	0.54
ORGANIC N	mg/l	P00605	0.54
TOTAL N	mg/l	P00600	0.72
TOTAL ORTHO P-PO ₄	mg/l	P00660	0.01
TOTAL P-PO ₄	mg/l	P00650	0.01
POLY PO ₄	mg/l	P00655	0.01
BOD 5-DAY	mg/l	P00310	<2.0
BOD 7-DAY	mg/l	P00315	
COD-LOW	mg/l	P00335	32.5
TOTAL CARBON	mg/l	P00690	16.2
TOT INORGANIC CARBON	mg/l	P00685	
TOTAL ORGANIC CARBON	mg/l	P00680	
TURBIDITY	JTU	P00076	1.3
TOTAL SUSPENDED SOLIDS	mg/l	P00530	3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	21
TOTAL SOLIDS	mg/l	P00500	24
TOTAL CALCIUM(exp)	mg/l	P00916	1.6
TOTAL MAGNESIUM(exp)	mg/l	P00927	1.0
CHLORIDE	mg/l	P00940	4.8
FECAL COLIFORM	MF	P31613	<50
TOTAL COLIFORM	MF	P31504	800
FECAL STREPT	MF	P31673	<100

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

FRIENDSHIP CREEK B14,4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	7	4.1	4.7	4.3	(4.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	7	48.4	72.6	54.7	8.6
ALKALINITY AS CaCO3	mg/l	1	0.5	0.5	0.5	
HARDNESS(exp)	mg/l	1	2.6	2.6	2.6	
NO2+NO3-N	mg/l	7	<.04	0.47	0.27	0.18
NH3-N	mg/l	7	<.10	0.31	<.10	0.12
TOTAL KJELDAHL-N	mg/l	7	0.40	0.98	0.57	0.20
ORGANIC N	mg/l	7	0.29	0.98	0.50	0.23
TOTAL N	mg/l	7	0.62	1.42	0.84	0.27
TOTAL ORTHO P-PO4	mg/l	7	0.01	0.03	0.02	0.01
TOTAL P-PO4	mg/l	7	0.01	0.08	0.04	0.02
POLY PO4	mg/l	7	<.01	0.02	0.01	0.01
BOD 5-DAY	mg/l	5	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	2	<2.0	<2.0	<2.0	
COD-LOW	mg/l	6	16.8	64.5	32.7	17.0
TOTAL CARBON	mg/l	4	9.4	16.2	12.4	2.9
TOT INORGANIC CARBON	mg/l	3	0.8	1.9	1.5	0.6
TOTAL ORGANIC CARBON	mg/l	3	8.6	11.2	9.6	1.4
TURBIDITY	JTU	7	1.0	3.5	1.8	<1.0
TOTAL SUSPENDED SOLIDS	mg/l	7	<1	23	5	8
TOTAL DISSOLVED SOLIDS	mg/l	7	11	63	39	18
TOTAL SOLIDS	mg/l	7	11	67	44	21
TOTAL CALCIUM(exp)	mg/l	1	1.6	1.6	1.6	
TOTAL MAGNESIUM(exp)	mg/l	1	1.0	1.0	1.0	
CHLORIDE	mg/l	7	4.8	6.7	5.5	0.7

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

FRIENDSHIP CREEK B14,1

STATION LOCATION: RETREAT ROAD AT RETREAT, SOUTHAMPTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE
MONTH			8
DAY			8
YEAR			90
WEATHER	code	P00041	
AIR TEMPERATURE	deg. C	---	
WATER TEMPERATURE	deg. C	P00010	
pH-LAB	pH	P00403	4.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	70.4
NO2+NO3-N	mg/l	P00630	0.07
NH3-N	mg/l	P00610	0.16
TOTAL KJELDAHL-N	mg/l	P00625	0.56
ORGANIC N	mg/l	P00605	0.40
TOTAL N	mg/l	P00600	0.63
TOTAL ORTHO P-PO4	mg/l	P00660	0.07
TOTAL P-PO4	mg/l	P00650	0.07
POLY PO4	mg/l	P00655	<.01
BOD 5-DAY	mg/l	P00310	2.0
COD-LOW	mg/l	P00335	39.5
TOTAL CARBON	mg/l	P00690	11.4
TOT INORGANIC CARBON	mg/l	P00685	1.2
TOTAL ORGANIC CARBON	mg/l	P00680	10.2
TURBIDITY	JTU	P00076	5.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	10
TOTAL DISSOLVED SOLIDS	mg/l	P70300	62
TOTAL SOLIDS	mg/l	P00500	72
CHLORIDE	mg/l	P00940	5.7
FECAL COLIFORM	MF	P31613	50
TOTAL COLIFORM	MF	P31504	1200
FECAL STREPT	MF	P31673	100

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

FRIENDSHIP CREEK B14,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	7	3.4	4.5	3.9	(4.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	7	59.4	79.7	70.0	7.0
NO2+NO3-N	mg/l	7	<.04	0.55	0.23	0.19
NH3-N	mg/l	7	<.10	0.33	0.15	0.10
TOTAL KJELDAHL-N	mg/l	7	0.46	1.40	0.76	0.33
ORGANIC N	mg/l	7	0.29	1.28	0.61	0.38
TOTAL N	mg/l	7	0.62	1.57	1.00	0.37
TOTAL ORTHO P-PO4	mg/l	7	0.01	0.07	0.03	0.02
TOTAL P-PO4	mg/l	7	0.02	0.09	0.05	0.02
POLY PO4	mg/l	7	<.01	0.03	0.01	0.01
BOD 5-DAY	mg/l	6	<2.0	2.0	<2.0	<2.0
COD-LOW	mg/l	6	20.0	39.5	29.8	7.3
TOTAL CARBON	mg/l	4	8.8	13.0	11.1	1.7
TOT INORGANIC CARBON	mg/l	4	0.6	1.9	1.3	0.5
TOTAL ORGANIC CARBON	mg/l	4	8.2	11.7	9.8	1.5
TURBIDITY	JTU	7	1.7	5.7	3.7	1.5
TOTAL SUSPENDED SOLIDS	mg/l	7	<1	170	29	62
TOTAL DISSOLVED SOLIDS	mg/l	7	21	64	43	18
TOTAL SOLIDS	mg/l	7	24	196	72	58
CHLORIDE	mg/l	7	4.8	8.0	6.0	1.0

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

SOUTH BRANCH RANCOCAS CREEK B4,4

STATION LOCATION: ROUTE 206, SOUTHAMPTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE		
MONTH			6	7	2
DAY			25	11	25
YEAR			90	90	91
WEATHER	code	P00041	1	2	2
AIR TEMPERATURE	deg. C	---	26.0	25.0	10.0
WATER TEMPERATURE	deg. C	P00010	25.0	25.0	10.0
pH-LAB	pH	P00403	4.5	4.4	4.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	54.2	63.2	63.1
ALKALINITY AS CaCO3	mg/l	P00410			
NO2+NO3-N	mg/l	P00630	0.07	0.05	0.35
NH3-N	mg/l	P00610	0.34	0.14	
TOTAL KJELDAHL-N	mg/l	P00625	0.51	0.92	
ORGANIC N	mg/l	P00605	0.17	0.78	
TOTAL N	mg/l	P00600	0.58	0.97	
TOTAL ORTHO P-PO4	mg/l	P00660	0.12	0.13	
TOTAL P-PO4	mg/l	P00650	0.14	0.16	
POLY PO4	mg/l	P00655	0.01	0.02	
BOD 5-DAY	mg/l	P00310		<2.0	
BOD 7-DAY	mg/l	P00315	2.1		<2.0
COD-LOW	mg/l	P00335	53.0	40.5	4.0
TOTAL CARBON	mg/l	P00690	18.9	15.8	7.1
TOT INORGANIC CARBON	mg/l	P00685	1.1	0.9	0.7
TOTAL ORGANIC CARBON	mg/l	P00680	17.7	14.9	6.4
TURBIDITY	JTU	P00076	5.4	7.0	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	10	16	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	65	80	46
TOTAL SOLIDS	mg/l	P00500	75	96	48
CHLORIDE	mg/l	P00940	5.2	5.9	6.5
FECAL COLIFORM	MF	P31613	100	50	
TOTAL COLIFORM	MF	P31504	500	1000	
FECAL STREPT	MF	P31673	2000	<100	

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

SOUTH BRANCH RANCOCAS CREEK B4,4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	3.6	4.6	4.2	(4.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	54.2	67.5	59.5	4.6
ALKALINITY AS CaCO ₃	mg/l	1	<0.5	<0.5	<0.5	
NO ₂ +NO ₃ -N	mg/l	10	<.04	0.39	0.15	0.13
NH ₃ -N	mg/l	9	<.10	0.34	0.18	0.11
TOTAL KJELDAHL-N	mg/l	8	0.50	1.20	0.75	0.25
ORGANIC N	mg/l	8	0.17	1.04	0.57	0.31
TOTAL N	mg/l	8	0.50	1.37	0.88	0.34
TOTAL ORTHO P-PO ₄	mg/l	9	0.04	0.13	0.08	0.04
TOTAL P-PO ₄	mg/l	9	0.05	0.16	0.11	0.04
POLY PO ₄	mg/l	9	<.01	0.03	0.01	0.01
BOD 5-DAY	mg/l	4	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	6	<2.0	2.7	<2.0	<2.0
COD-LOW	mg/l	10	4.0	68.0	35.7	19.8
TOTAL CARBON	mg/l	6	7.1	20.8	13.8	5.6
TOT INORGANIC CARBON	mg/l	6	0.7	2.0	1.1	0.5
TOTAL ORGANIC CARBON	mg/l	6	6.4	18.8	12.7	5.2
TURBIDITY	JTU	10	1.8	11.0	4.4	2.8
TOTAL SUSPENDED SOLIDS	mg/l	10	<1	24	9	9
TOTAL DISSOLVED SOLIDS	mg/l	10	12	80	54	19
TOTAL SOLIDS	mg/l	10	36	96	63	20
CHLORIDE	mg/l	10	5.2	16.0	7.3	3.2

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

SOUTH BRANCH RANCOCAS CREEK B4,2

STATION LOCATION: MILL STREET IN VINCENTOWN, SOUTHAMPTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE		
MONTH			6	7	2
DAY			25	11	25
YEAR			90	90	91
WEATHER	code	P00041	1	2	2
AIR TEMPERATURE	deg. C	---	26.0	25.0	8.0
WATER TEMPERATURE	deg. C	P00010	22.0	25.0	11.0
pH-LAB	pH	P00403	4.7	4.7	6.1
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	54.4	59.3	65.7
ALKALINITY AS CaCO3	mg/l	P00410	<0.5	<0.5	5.9
NO2+NO3-N	mg/l	P00630	0.11	<.04	0.36
NH3-N	mg/l	P00610	0.25	0.13	0.64
TOTAL KJELDAHL-N	mg/l	P00625	0.59	0.96	9.00
ORGANIC N	mg/l	P00605	0.34	0.83	8.36
TOTAL N	mg/l	P00600	0.70	0.96	9.36
TOTAL ORTHO P-PO4	mg/l	P00660	0.16	0.20	0.03
TOTAL P-PO4	mg/l	P00650	0.16	0.23	0.03
POLY PO4	mg/l	P00655	<.01	0.03	<.01
BOD 5-DAY	mg/l	P00310		<2.0	
BOD 7-DAY	mg/l	P00315	<2.0		2.4
COD-LOW	mg/l	P00335	51.0	37.5	14.2
TOTAL CARBON	mg/l	P00690	20.4	17.2	7.9
TOT INORGANIC CARBON	mg/l	P00685	1.1	1.3	1.0
TOTAL ORGANIC CARBON	mg/l	P00680	19.3	16.0	6.9
TURBIDITY	JTU	P00076	5.7	9.0	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	13	12	4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	54	64	61
TOTAL SOLIDS	mg/l	P00500	67	76	65
CHLORIDE	mg/l	P00940	5.3	5.8	6.5
FECAL COLIFORM	MF	P31613	200	150	<50
TOTAL COLIFORM	MF	P31504	1400	1000	200
FECAL STREPT	MF	P31673	1100	200	200

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

SOUTH BRANCH RANCOCAS CREEK B4,2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	3.9	7.0	4.4	(4.6)
SPECIFIC CONDUCTIVITY-LAB	umhos	11	50.1	120.0	64.2	19.4
ALKALINITY AS CaCO ₃	mg/l	7	<0.5	5.9	0.8	2.2
NO ₂ +NO ₃ -N	mg/l	11	<.04	0.90	0.22	0.26
NH ₃ -N	mg/l	11	<.10	0.64	0.24	0.18
TOTAL KJELDAHL-N	mg/l	10	0.52	9.00	1.63	2.60
ORGANIC N	mg/l	10	0.34	8.36	1.39	2.46
TOTAL N	mg/l	10	0.56	9.36	1.86	2.66
TOTAL ORTHO P-PO ₄	mg/l	11	0.03	0.20	0.09	0.06
TOTAL P-PO ₄	mg/l	11	0.03	0.23	0.11	0.06
POLY PO ₄	mg/l	11	<.01	0.03	0.01	0.01
BOD 5-DAY	mg/l	5	<2.0	4.0	<2.0	<2.0
BOD 7-DAY	mg/l	6	<2.0	2.4	<2.0	<2.0
COD-LOW	mg/l	11	14.2	74.0	35.2	17.7
TOTAL CARBON	mg/l	6	7.9	20.5	14.6	5.6
TOT INORGANIC CARBON	mg/l	6	0.7	1.8	1.1	0.4
TOTAL ORGANIC CARBON	mg/l	6	6.9	19.3	13.4	5.3
TURBIDITY	JTU	11	1.8	15.5	5.2	3.9
TOTAL SUSPENDED SOLIDS	mg/l	11	<1	30	9	10
TOTAL DISSOLVED SOLIDS	mg/l	11	34	70	55	11
TOTAL SOLIDS	mg/l	11	48	85	64	11
CHLORIDE	mg/l	11	5.3	18.0	7.6	3.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

STOP THE JADE RUN B4,6

STATION LOCATION: ROUTE 643 (RIDGE ROAD) IN BUDDTOWN, SOUTHAMPTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE		
			6	7	4
MONTH			6	7	4
DAY			25	11	29
YEAR			90	90	91
WEATHER	code	P00041	1	2	2
AIR TEMPERATURE	deg. C	---	28.0	25.0	12.0
WATER TEMPERATURE	deg. C	P00010	19.0	21.0	14.5
pH-LAB	pH	P00403	4.7	5.1	4.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	59.1	67.1	54.6
ALKALINITY AS CaCO3	mg/l	P00410	<0.5	<0.5	
HARDNESS(exp)	mg/l	P00900			2.8
NO2+NO3-N	mg/l	P00630	0.56	1.19	0.30
NH3-N	mg/l	P00610	0.35	0.42	0.18
TOTAL KJELDAHL-N	mg/l	P00625	0.70	1.70	0.96
ORGANIC N	mg/l	P00605	0.35	1.28	0.78
TOTAL N	mg/l	P00600	1.26	2.89	1.26
TOTAL ORTHO P-PO4	mg/l	P00660	0.11	0.24	0.04
TOTAL P-PO4	mg/l	P00650	0.14	0.29	0.07
POLY PO4	mg/l	P00655	0.02	0.04	0.01
BOD 5-DAY	mg/l	P00310		<2.0	
BOD 7-DAY	mg/l	P00315	<2.0		<2.0
COD-LOW	mg/l	P00335	59.0	71.0	14.5
TOTAL CARBON	mg/l	P00690	23.6	34.9	16.3
TOT INORGANIC CARBON	mg/l	P00685	0.4	1.3	0.8
TOTAL ORGANIC CARBON	mg/l	P00680	23.2	33.6	15.4
TURBIDITY	JTU	P00076	3.2	8.0	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	9	14	23
TOTAL DISSOLVED SOLIDS	mg/l	P70300	70	118	61
TOTAL SOLIDS	mg/l	P00500	79	132	84
TOTAL CALCIUM(exp)	mg/l	P00916			1.9
TOTAL MAGNESIUM(exp)	mg/l	P00927			0.9
CHLORIDE	mg/l	P00940	7.6	7.7	6.3
FECAL COLIFORM	MF	P31613	200	2200	50
TOTAL COLIFORM	MF	P31504	800	4800	400
FECAL STREPT	MF	P31673	1100	3600	100

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

STOP THE JADE RUN B4,6

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	4.2	5.5	4.5	(4.6)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	47.0	69.6	60.6	6.9
ALKALINITY AS CaCO3	mg/l	6	<0.5	3.8	0.8	1.5
HARDNESS(exp)	mg/l	1	2.8	2.8	2.8	
NO2+NO3-N	mg/l	10	0.13	1.19	0.41	0.31
NH3-N	mg/l	10	<.10	0.81	0.31	0.22
TOTAL KJELDAHL-N	mg/l	9	0.70	2.00	1.15	0.44
ORGANIC N	mg/l	9	0.35	1.28	0.83	0.30
TOTAL N	mg/l	9	1.22	2.89	1.59	0.56
TOTAL ORTHO P-PO4	mg/l	10	0.01	0.27	0.11	0.08
TOTAL P-PO4	mg/l	10	0.04	0.45	0.19	0.12
POLY PO4	mg/l	10	<.01	0.12	0.04	0.04
BOD 5-DAY	mg/l	4	<2.0	<2.0	<2.0	
BOD 7-DAY	mg/l	6	<2.0	3.6	<2.0	<2.0
COD-LOW	mg/l	10	12.0	130.0	50.9	35.8
TOTAL CARBON	mg/l	6	11.9	34.9	21.2	8.2
TOT INORGANIC CARBON	mg/l	6	0.4	2.1	1.2	0.6
TOTAL ORGANIC CARBON	mg/l	6	10.6	33.6	20.0	8.2
TURBIDITY	JTU	10	1.0	8.0	3.6	2.2
TOTAL SUSPENDED SOLIDS	mg/l	10	3	30	17	10
TOTAL DISSOLVED SOLIDS	mg/l	10	34	118	71	24
TOTAL SOLIDS	mg/l	10	50	132	87	27
TOTAL CALCIUM(exp)	mg/l	1	1.9	1.9	1.9	
TOTAL MAGNESIUM(exp)	mg/l	1	0.9	0.9	0.9	
CHLORIDE	mg/l	10	5.8	10.2	7.7	1.2

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

STOP THE JADE RUN B4,5

STATION LOCATION: ROUTE 206, SOUTHAMPTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE		
			6	7	2
MONTH			6	7	2
DAY			25	11	25
YEAR			90	90	91
WEATHER	code	P00041	1	2	2
AIR TEMPERATURE	deg. C	---	27.0	25.0	13.0
WATER TEMPERATURE	deg. C	P00010	20.0	22.0	10.0
pH-LAB	pH	P00403	6.4	6.3	6.1
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	92.8	109.4	123.2
ALKALINITY AS CaCO3	mg/l	P00410	10.3	14.9	14.5
NO2+NO3-N	mg/l	P00630	0.70	0.93	1.52
NH3-N	mg/l	P00610	0.26	0.10	0.55
TOTAL KJELDAHL-N	mg/l	P00625	0.63	1.20	0.72
ORGANIC N	mg/l	P00605	0.37	1.10	0.17
TOTAL N	mg/l	P00600	1.33	2.13	2.24
TOTAL ORTHO P-PO4	mg/l	P00660	0.22	0.45	0.01
TOTAL P-PO4	mg/l	P00650	0.25	0.52	0.07
POLY PO4	mg/l	P00655	<.01	0.04	0.05
BOD 5-DAY	mg/l	P00310		<2.0	
BOD 7-DAY	mg/l	P00315	<2.0		2.7
COD-LOW	mg/l	P00335	49.0	61.0	15.5
TOTAL CARBON	mg/l	P00690	21.2	29.5	11.1
TOT INORGANIC CARBON	mg/l	P00685	1.1	1.8	0.9
TOTAL ORGANIC CARBON	mg/l	P00680	20.2	27.7	10.3
TURBIDITY	JTU	P00076	5.9	11.0	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	8	10	2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	70	122	120
TOTAL SOLIDS	mg/l	P00500	78	132	122
CHLORIDE	mg/l	P00940	9.3	11.9	12.2
FECAL COLIFORM	MF	P31613	450	150	<50
TOTAL COLIFORM	MF	P31504	1200	1200	200
FECAL STREPT	MF	P31673	800	200	100

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

STOP THE JADE RUN B4,5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	10	6.0	6.7	6.3	(6.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	10	75.5	164.0	118.3	25.8
ALKALINITY AS CaCO3	mg/l	10	7.2	34.8	15.9	7.7
NO2+NO3-N	mg/l	10	0.33	1.52	0.84	0.42
NH3-N	mg/l	10	0.10	0.62	0.32	0.19
TOTAL KJELDAHL-N	mg/l	9	0.56	2.60	1.11	0.67
ORGANIC N	mg/l	9	0.17	1.98	0.77	0.57
TOTAL N	mg/l	9	1.17	3.42	1.97	0.85
TOTAL ORTHO P-PO4	mg/l	9	0.01	0.63	0.27	0.20
TOTAL P-PO4	mg/l	10	0.07	0.73	0.30	0.22
POLY PO4	mg/l	10	<.01	0.05	0.01	0.02
BOD 5-DAY	mg/l	5	<2.0	7.0	2.5	3.4
BOD 7-DAY	mg/l	5	<2.0	2.7	<2.0	<2.0
COD-LOW	mg/l	10	11.0	72.0	40.2	21.8
TOTAL CARBON	mg/l	6	11.1	29.5	19.8	7.2
TOT INORGANIC CARBON	mg/l	6	0.9	8.7	3.6	3.0
TOTAL ORGANIC CARBON	mg/l	6	8.0	27.7	16.2	7.7
TURBIDITY	JTU	10	2.0	26.0	7.5	7.1
TOTAL SUSPENDED SOLIDS	mg/l	10	1	21	10	8
TOTAL DISSOLVED SOLIDS	mg/l	10	70	122	103	17
TOTAL SOLIDS	mg/l	10	78	132	112	18
CHLORIDE	mg/l	10	7.8	19.0	12.6	3.0

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

STOP THE JADE RUN B4,3

STATION LOCATION: MAIN STREET IN VINCENTOWN, SOUTHAMPTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE		
MONTH			6	7	2
DAY			25	11	25
YEAR			90	90	91
WEATHER	code	P00041	1	2	2
AIR TEMPERATURE	deg. C	---	26.0	25.0	8.0
WATER TEMPERATURE	deg. C	P00010	25.0	25.0	10.0
pH-LAB	pH	P00403	4.6	4.5	4.7
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	54.9	60.4	63.1
ALKALINITY AS CaCO3	mg/l	P00410	<0.5		<0.5
NO2+NO3-N	mg/l	P00630	0.06	0.04	0.36
NH3-N	mg/l	P00610	0.20	0.21	0.18
TOTAL KjELDAHL-N	mg/l	P00625	0.59	1.10	0.50
ORGANIC N	mg/l	P00605	0.39	0.89	0.33
TOTAL N	mg/l	P00600	0.65	1.14	0.86
TOTAL ORTHO P-PO4	mg/l	P00660	0.14	0.19	0.03
TOTAL P-PO4	mg/l	P00650	0.16	0.22	0.03
POLY PO4	mg/l	P00655	0.02	0.04	<.01
BOD 5-DAY	mg/l	P00310		<2.0	
BOD 7-DAY	mg/l	P00315	<2.0		2.4
COD-LOW	mg/l	P00335	50.5	44.5	9.0
TOTAL CARBON	mg/l	P00690	20.6	17.3	7.7
TOT INORGANIC CARBON	mg/l	P00685	1.3	1.3	0.8
TOTAL ORGANIC CARBON	mg/l	P00680	19.3	16.1	6.9
TURBIDITY	JTU	P00076	5.7	9.0	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	12	14	1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	58	63	67
TOTAL SOLIDS	mg/l	P00500	70	77	68
CHLORIDE	mg/l	P00940	5.3	5.8	6.5
FECAL COLIFORM	MF	P31613	50	150	<50
TOTAL COLIFORM	MF	P31504	800	600	<200
FECAL STREPT	MF	P31673	1500	200	<100

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

STOP THE JADE RUN B4,3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	4.3	6.9	4.8	(5.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	11	54.1	209.5	117.9	55.3
ALKALINITY AS CaCO ₃	mg/l	8	<0.5	51.8	12.0	17.6
NO ₂ +NO ₃ -N	mg/l	11	<.04	1.40	0.66	0.49
NH ₃ -N	mg/l	11	<.10	0.63	0.28	0.17
TOTAL KJELDAHL-N	mg/l	10	0.44	2.70	1.07	0.74
ORGANIC N	mg/l	10	0.33	2.08	0.79	0.59
TOTAL N	mg/l	10	0.58	3.56	1.73	1.01
TOTAL ORTHO P-PO ₄	mg/l	11	0.03	0.65	0.22	0.19
TOTAL P-PO ₄	mg/l	11	0.03	0.73	0.28	0.23
POLY PO ₄	mg/l	11	<.01	0.11	0.02	0.04
BOD 5-DAY	mg/l	5	<2.0	5.4	2.1	2.9
BOD 7-DAY	mg/l	6	<2.0	6.7	<2.0	2.7
COD-LOW	mg/l	11	9.0	57.0	35.6	15.7
TOTAL CARBON	mg/l	6	7.7	25.9	15.7	6.9
TOT INORGANIC CARBON	mg/l	6	0.8	5.6	2.5	2.3
TOTAL ORGANIC CARBON	mg/l	6	6.9	20.3	13.2	6.1
TURBIDITY	JTU	11	2.0	31.0	9.4	9.9
TOTAL SUSPENDED SOLIDS	mg/l	11	1	38	13	11
TOTAL DISSOLVED SOLIDS	mg/l	11	40	162	90	39
TOTAL SOLIDS	mg/l	11	47	169	103	38
CHLORIDE	mg/l	11	5.3	20.0	11.1	4.7

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

SOUTH BRANCH RANCOCAS CREEK B4,1

STATION LOCATION: ROUTE 641, SOUTHAMPTON TOWNSHIP, BURLINGTON COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE		
			6	7	2
MONTH			6	7	2
DAY			25	11	25
YEAR			90	90	91
WEATHER	code	P00041	1	2	2
AIR TEMPERATURE	deg. C	---	25.0	22.0	11.0
WATER TEMPERATURE	deg. C	P00010	22.0	23.0	9.0
pH-LAB	pH	P00403	6.2	9.0	6.1
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	62.0	77.1	74.4
ALKALINITY AS CaCO3	mg/l	P00410	1.9	9.9	4.3
NO2+NO3-N	mg/l	P00630	0.24	0.53	0.59
NH3-N	mg/l	P00610	0.23	0.28	
TOTAL KJELDAHL-N	mg/l	P00625	0.90	1.30	
ORGANIC N	mg/l	P00605	0.67	1.02	
TOTAL N	mg/l	P00600	1.14	1.83	
TOTAL ORTHO P-PO4	mg/l	P00660	0.18	0.26	0.05
TOTAL P-PO4	mg/l	P00650	0.18	0.31	0.05
POLY PO4	mg/l	P00655	<.01	0.05	<.01
BOD 5-DAY	mg/l	P00310		<2.0	
BOD 7-DAY	mg/l	P00315	<2.0		2.1
COD-LOW	mg/l	P00335	49.5	39.5	6.8
TOTAL CARBON	mg/l	P00690	20.7	18.1	8.6
TOT INORGANIC CARBON	mg/l	P00685	1.7	1.0	1.1
TOTAL ORGANIC CARBON	mg/l	P00680	19.0	17.1	7.5
TURBIDITY	JTU	P00076	5.5	7.1	2.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530	10	9	1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	63	84	70
TOTAL SOLIDS	mg/l	P00500	73	93	71
CHLORIDE	mg/l	P00940	6.0	7.6	7.6
FECAL COLIFORM	MF	P31613	200	100	<50
TOTAL COLIFORM	MF	P31504	800	2000	<200
FECAL STREPT	MF	P31673	1600	900	200

RANCOCAS CREEK BASIN: SOUTH BRANCH RANCOCAS CREEK

SOUTH BRANCH RANCOCAS CREEK B4,1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
pH-LAB	pH	11	5.3	9.0	5.8	(6.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	11	59.3	130.0	76.7	19.3
ALKALINITY AS CaCO3	mg/l	11	1.9	9.9	4.5	2.3
NO2+NO3-N	mg/l	11	0.19	0.98	0.49	0.21
NH3-N	mg/l	10	<.10	0.62	0.28	0.17
TOTAL KJELDAHL-N	mg/l	9	0.48	1.70	1.02	0.40
ORGANIC N	mg/l	9	0.23	1.26	0.73	0.35
TOTAL N	mg/l	9	0.88	2.44	1.51	0.56
TOTAL ORTHO P-PO4	mg/l	11	0.05	0.32	0.16	0.10
TOTAL P-PO4	mg/l	11	0.05	0.36	0.20	0.11
POLY PO4	mg/l	11	<.01	0.05	0.01	0.02
BOD 5-DAY	mg/l	5	<2.0	3.40	<2.0	1.52
BOD 7-DAY	mg/l	6	<2.0	6.0	<2.0	2.4
COD-LOW	mg/l	11	6.8	60.0	31.2	15.6
TOTAL CARBON	mg/l	6	8.6	22.4	15.4	5.7
TOT INORGANIC CARBON	mg/l	6	1.0	3.3	1.7	0.8
TOTAL ORGANIC CARBON	mg/l	6	7.5	19.1	13.7	5.3
TURBIDITY	JTU	11	2.0	23.0	6.4	5.9
TOTAL SUSPENDED SOLIDS	mg/l	11	<1	38	10	11
TOTAL DISSOLVED SOLIDS	mg/l	11	45	89	69	15
TOTAL SOLIDS	mg/l	11	49	106	79	19
CHLORIDE	mg/l	11	6.0	19.0	9.1	3.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

CAPE MAY COUNTY
AND
ATLANTIC COUNTY

TUCKAHOE RIVER BASIN
AND
DELAWARE BAY BASINS

TUCKAHOE RIVER
WEST CREEK
EAST CREEK
DENNIS CREEK

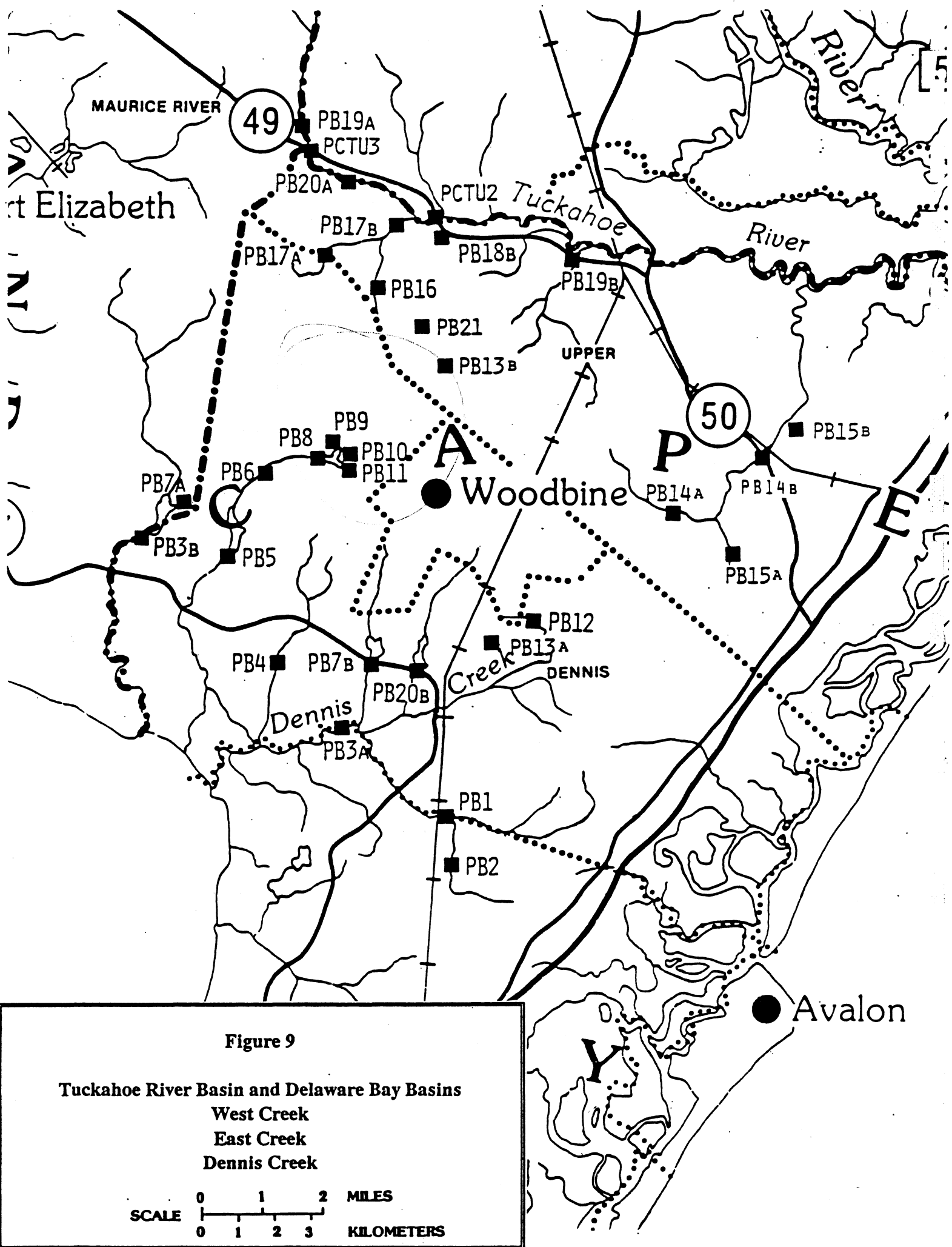


Table 17. Tuckahoe River Basin and Delaware Bay Basins, Cape May Co and Atlantic Co, station names and locations

STATION NAME	STATION CODE	STATION LOCATION	CO(1)	TWP(2)	QUAD(3)
DELAWARE BAY BASINS					
WEST CREEK					
WEST CREEK TRIBUTARY (4)	PB7a	ABOVE PICKLE FACTORY POND AT EAST CREEK MILL RD	CU	MR	47
WEST CREEK	PB3b	PICKLE FACTORY POND OUTLET AT PAPER MILL RD	CM	D	47
EAST CREEK					
SAVAGES RUN TRIBUTARY	PB9	WEST BRANCH LAKE NUMMY INLET	CM	D	48
SAVAGES RUN TRIBUTARY	PB10	MIDDLE BRANCH LAKE NUMMY INLET	CM	D	48
SAVAGES RUN TRIBUTARY	PB11	EAST BRANCH LAKE NUMMY INLET	CM	D	48
SAVAGES RUN	PB8	LAKE NUMMY OUTLET	CM	D	48
SAVAGES RUN	PB6	SUNSET RD	CM	D	47
EAST CREEK	PB5	EAST CREEK POND SPILLWAY AT EAST CREEK MILL RD	CM	D	47
DENNIS CREEK					
DENNIS CREEK TRIBUTARY 1	PB12	ROUTE 610 AFTER MILE MARKER 2	CM	D	48
DENNIS CREEK TRIBUTARY 2 (5)	PB13a	A POND AT ROUTE 610	CM	D	48
DENNIS CREEK TRIBUTARY 3	PB20b	JOHNSON POND (OR DENNISVILLE LK) OUTLET AT RT 4	CM	D	48
SLUICE CREEK TRIBUTARY	PB2	UNIMPROVED ROAD AT CLINTS MILL	CM	M	48
SLUICE CREEK	PB1	CLINTS MILL POND SPILLWAY	CM	M-D	48
DENNIS CREEK TRIBUTARY 4	PB7b	LUDLAMS POND (OR HOLLY LAKE) OUTLET AT RT 47	CM	D	48
DENNIS CREEK (4)	PB3a	JAKES LANDING	CM	M-D	48
OLD ROBBINS BRANCH	PB4	BEAVER CAUSEWAY RD (OR ROBBINS TRAIL)	CM	D	48

(1) Refer to Table 23 for county abbreviations.

(2) Refer to Table 22 for township abbreviations.

(3) Refer to Table 24 for quadrangle numbers.

(4) Site discontinued. See New Jersey Surface Water Quality Data Report, December 1989.

(5) Site discontinued. See New Jersey Surface Water Quality Data Report, December 1990.

(6) Site was previously known as PB18a.

(7) Atlantic County station.

Table 17 continued.

STATION NAME	STATION CODE	STATION LOCATION	CO(1)	TWP(2)	QUAD(3)

TUCKAHOE RIVER BASIN					

TUCKAHOE RIVER (4)	PB19a	NORTH OF ROUTE 49 AT HUNTERS MILL BOGS	CU-AT	MR-EM	43
TUCKAHOE RIVER (6,7)	PCTU3	HUNTERS MILL BOG OUTLET AT ROUTE 49	CM-CU-AT	U-MR-EM	43
TUCKAHOE RIVER (4)	PB20a	SOUTH OF ROUTE 49 AT HUNTERS MILL BOGS	CM-AT	U-EM	43
TARKILN BROOK (4)	PB17a	UPSTREAM FROM BOGS AT POWER LINE RIGHT-OF-WAY	CM	D-U	43
TARKILN BROOK TRIBUTARY	PB16	BELLEPLAIN RD (ROUTE 605)	CM	U	43
TARKILN BROOK	PB17b	BOG SPILLWAY AT ROUTE 548	CM	U	43
TUCKAHOE RIVER	PB18b	ROUTE 49 USGS SITE, SOUTH OF HEAD OF RIVER	CM-AT	U-EM	43
MCNEALS BRANCH (7)	PCTU2	ROUTE 649, IN HEAD OF RIVER (7)	AT	EM	43
PLUMMERS CREEK	PB21	NARROWS ROAD	CM	U	43
SOUTH BRANCH MILL CREEK	PB13b	BOG ROAD (STEELMANTOWN ROAD)	CM	U	43
MILL CREEK	PB19b	ROUTE 49	CM	U	43
WEST BRANCH CEDAR SWAMP CREEK (5)	PB14a	UNIMPROVED ROAD OFF OF ROUTE 610	CM	U	49
EAST BRANCH CEDAR SWAMP CREEK (5)	PB15a	UNIMPROVED ROAD OFF OF PEACH ORCHARD ROAD	CM	U	49
CEDAR SWAMP CREEK	PB14b	ROUTE 50	CM	U	49
CEDAR SWAMP CREEK TRIBUTARY	PB15b	ROUTE 616 (SOUTH OF SLUICE CREEK)	CM	U	49

(1) Refer to Table 23 for county abbreviations.

(2) Refer to Table 22 for township abbreviations.

(3) Refer to Table 24 for quadrangle numbers.

(4) Site discontinued. See New Jersey Surface Water Quality Data Report, December 1989.

(5) Site discontinued. See New Jersey Surface Water Quality Data Report, December 1990.

(6) Site was previously known as PB18a.

(7) Atlantic County station.

DELAWARE BAY DRAINAGE: WEST CREEK BASIN

PAPER MILL POND (ALSO CALLED PICKLE FACTORY POND) PB3b

STATION LOCATION: PAPER MILL ROAD (SPUR 550), DENNIS TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE		
			10	1	4
MONTH			10	1	4
DAY			31	15	23
YEAR			90	91	91
WEATHER	code	P00041	0	0	0
AIR TEMPERATURE	deg. C	---	17.0	3.0	17.0
WATER TEMPERATURE	deg. C	P00010	12.0	4.0	14.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	9.0	13.5	8.8
pH-FIELD	pH	P00400			5.3
pH-LAB	pH	P00403	5.0	5.9	4.5
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	30	40	40
ALKALINITY AS CaCO3	mg/l	P00410	2.11	<.10	0.53
HARDNESS	mg/l	P00900	<0.5	<0.5	<0.5
SULFATE(dis)	mg/l	---	3.5	5.3	4.1
NO2-N	mg/l	P00615			
NO2+NO3-N	mg/l	P00630	0.02	0.02	0.09
NH3-N	mg/l	P00610	0.07	0.04	0.06
TOTAL KJELDAHL-N	mg/l	P00625	0.55	0.41	0.41
ORGANIC N	mg/l	P00605	0.48	0.37	0.35
NO3-N	mg/l	P00620			
TOTAL N	mg/l	P00600	0.57	0.43	0.50
TOTAL ORTHO P as P	mg/l	P70507			
TOTAL P as P	mg/l	P00665	0.03	0.01	0.03
TOTAL DISSOLVED SOLIDS	mg/l	P70300	38	38	38
DIS. CA++	mg/l	P00915			
DIS. MG++	mg/l	P00925			
FECAL COLIFORM	MF	P31613	2	17	17

DELAWARE BAY DRAINAGE: WEST CREEK BASIN

PAPER MILL POND (ALSO CALLED PICKLE FACTORY POND) PB3b

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	10	6.8	13.5	9.3	2.2
pH-FIELD	pH	9	3.5	5.3	4.2	(4.5)
pH-LAB	pH	4	4.5	5.9	4.7	(4.7)
SPECIFIC CONDUCTIVITY-FIELD	umhos	11	28	68	41	11
ALKALINITY AS CaCO ₃	mg/l	11	<.10	2.11	0.58	0.80
HARDNESS	mg/l	11	<0.5	6.8	2.0	2.6
SULFATE(dis)	mg/l	11	2.8	14.4	6.9	3.9
NO ₂ -N	mg/l	4	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	11	<.01	0.49	0.15	0.14
NH ₃ -N	mg/l	11	0.04	0.12	0.07	0.03
TOTAL KjELDAHL-N	mg/l	11	0.41	0.78	0.62	0.14
ORGANIC N	mg/l	11	0.35	0.72	0.55	0.14
NO ₃ -N	mg/l	4	<.01	0.21	0.13	0.09
TOTAL N	mg/l	11	0.43	1.22	0.76	0.22
TOTAL ORTHO P as P	mg/l	4	<.01	0.02	0.01	0.01
TOTAL P as P	mg/l	11	<.01	0.05	0.02	0.01
TOTAL DISSOLVED SOLIDS	mg/l	11	28	58	42	8
DIS. Ca ⁺⁺	mg/l	3	2.0	6.1	3.4	2.4
DIS. Mg ⁺⁺	mg/l	3	<0.5	0.6	<0.5	<0.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

DELAWARE BAY DRAINAGE: EAST CREEK BASIN

SAVAGES RUN TRIBUTARY 1 PB9

STATION LOCATION: WEST INLET OF LAKE NUMMY, DENNIS TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			7	10	1	4
MONTH			7	10	1	4
DAY			31	31	15	24
YEAR			90	90	91	91
WEATHER	code	P00041	1	0	0	0
AIR TEMPERATURE	deg. C	---	27.0	17.0	6.0	18.0
WATER TEMPERATURE	deg. C	P00010	23.0	13.0	4.0	15.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	5.4	7.6	11.6	4.8
pH-FIELD	pH	P00400	7.4		4.4	4.8
pH-LAB	pH	P00403		4.5		4.1
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	48	50	50	50
ALKALINITY AS CaCO3	mg/l	P00410	0.53	<.10	<.10	<.10
HARDNESS	mg/l	P00900		<0.5	<0.5	<0.5
SULFATE(dis)	mg/l	---	<1.0	4.4	6.2	3.2
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	<.01	0.01	<.01	0.01
NH3-N	mg/l	P00610	0.06	0.03	0.04	0.04
TOTAL KJELDAHL-N	mg/l	P00625	0.36	0.11	0.31	0.75
ORGANIC N	mg/l	P00605	0.30	0.08	0.27	0.71
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.36	0.12	0.31	0.76
TOTAL ORTHO P as P	mg/l	P70507				
TOTAL P as P	mg/l	P00665	0.01	<.01	0.01	0.03
BOD 5-DAY	mg/l	P00310				
TOTAL SUSPENDED SOLIDS	mg/l	P00530				
TOTAL DISSOLVED SOLIDS	mg/l	P70300	52	52	44	38
DIS. CA++	mg/l	P00915				
DIS. MG++	mg/l	P00925				
FECAL COLIFORM	MF	P31613	80	13	4	14

DELAWARE BAY DRAINAGE: EAST CREEK BASIN

SAVAGES RUN TRIBUTARY 1 PB9

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	20	4.8	11.6	7.9	1.7
pH-FIELD	pH	20	3.8	7.4	4.3	(4.4)
pH-LAB	pH	2	4.1	4.5	4.2	(4.3)
SPECIFIC CONDUCTIVITY-FIELD	umhos	18	30	81	52	11
ALKALINITY AS CaCO ₃	mg/l	21	<.10	4.39	0.40	1.06
HARDNESS	mg/l	15	<0.5	7.8	3.3	3.1
SULFATE(dis)	mg/l	16	<1.0	15.6	7.4	4.9
NO ₂ -N	mg/l	9	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	16	<.01	0.22	0.03	0.05
NH ₃ -N	mg/l	16	<.03	0.07	0.04	<.03
TOTAL KJELDAHL-N	mg/l	16	0.11	0.84	0.46	0.18
ORGANIC N	mg/l	16	0.08	0.80	0.42	0.17
NO ₃ -N	mg/l	13	<.01	0.22	0.04	0.06
TOTAL N	mg/l	16	0.12	0.85	0.50	0.18
TOTAL ORTHO P as P	mg/l	8	<.01	0.03	0.01	0.01
TOTAL P as P	mg/l	20	<.01	0.13	0.02	0.03
BOD 5-DAY	mg/l	2	0.8	2.2	1.5	1.0
TOTAL SUSPENDED SOLIDS	mg/l	5	1	6	3	2
TOTAL DISSOLVED SOLIDS	mg/l	21	18	86	44	18
DIS. CA ⁺⁺	mg/l	8	<0.5	6.0	3.3	1.8
DIS. MG ⁺⁺	mg/l	8	<0.5	0.9	<0.5	<0.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

DELAWARE BAY DRAINAGE: EAST CREEK BASIN

SAVAGES RUN TRIBUTARY 2 PB10

STATION LOCATION: MIDDLE INLET OF LAKE NUMMY, DENNIS TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			1	4
DAY			15	24
YEAR			91	91
WEATHER	code	P00041	0	0
AIR TEMPERATURE	deg. C	---	6.0	18.0
WATER TEMPERATURE	deg. C	P00010	4.0	15.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	12.4	3.2
pH-FIELD	pH	P00400	4.2	5.2
pH-LAB	pH	P00403		4.2
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	60	40
ALKALINITY AS CaCO3	mg/l	P00410	<.10	<.10
HARDNESS	mg/l	P00900	<0.5	<0.5
SULFATE(dis)	mg/l	---	8.3	4.6
NO2-N	mg/l	P00615		
NO2+NO3-N	mg/l	P00630	<.01	0.01
NH3-N	mg/l	P00610	0.03	0.03
TOTAL KJELDAHL-N	mg/l	P00625	0.61	0.39
ORGANIC N	mg/l	P00605	0.58	0.36
NO3-N	mg/l	P00620		
TOTAL N	mg/l	P00600	0.61	0.40
TOTAL ORTHO P as P	mg/l	P70507		
TOTAL P as P	mg/l	P00665	0.01	0.02
BOD 5-DAY	mg/l	P00310		
TOTAL SUSPENDED SOLIDS	mg/l	P00530		
TOTAL DISSOLVED SOLIDS	mg/l	P70300	38	34
DIS. CA++	mg/l	P00915		
DIS. MG++	mg/l	P00925		
FECAL COLIFORM	MF	P31613	4	13

DELAWARE BAY DRAINAGE: EAST CREEK BASIN

SAVAGES RUN TRIBUTARY 2 PB10

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	15	3.2	12.4	7.8	2.3
pH-FIELD	pH	15	3.3	5.2	3.9	(4.2)
pH-LAB	pH	1	4.2	4.2	4.2	(4.2)
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	40	99	66	.19
ALKALINITY AS CaCO ₃	mg/l	15	<.10	0.61	<.10	0.16
HARDNESS	mg/l	11	<0.5	10.2	4.4	3.6
SULFATE(dis)	mg/l	11	<1.0	23.0	10.0	8.3
NO ₂ -N	mg/l	5	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	11	<.01	0.08	0.02	0.03
NH ₃ -N	mg/l	11	<.03	0.18	0.08	0.06
TOTAL KJELDAHL-N	mg/l	11	0.27	0.95	0.60	0.23
ORGANIC N	mg/l	11	0.09	0.86	0.53	0.24
NO ₃ -N	mg/l	9	<.01	0.08	0.03	0.03
TOTAL N	mg/l	11	0.28	0.97	0.62	0.24
TOTAL ORTHO P as P	mg/l	6	<.01	0.02	0.01	0.01
TOTAL P as P	mg/l	15	<.01	0.08	0.02	0.02
BOD 5-DAY	mg/l	1	0.4	0.4	0.4	
TOTAL SUSPENDED SOLIDS	mg/l	4	1	5	3	2
TOTAL DISSOLVED SOLIDS	mg/l	15	30	96	52	21
DIS. CA ⁺⁺	mg/l	5	2.0	8.0	5.2	2.3
DIS. MG ⁺⁺	mg/l	5	<0.5	1.5	<0.5	0.7

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

DELAWARE BAY DRAINAGE: EAST CREEK BASIN

SAVAGES RUN TRIBUTARY 3 PB11

STATION LOCATION: EAST INLET OF LAKE NUMMY, DENNIS TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE		
MONTH			7	1	4
DAY			31	15	23
YEAR			90	91	91
WEATHER	code	P00041	2	0	0
AIR TEMPERATURE	deg. C	---	27.0	8.0	17.0
WATER TEMPERATURE	deg. C	P00010	21.0	4.5	14.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	4.8	12.0	7.8
pH-FIELD	pH	P00400	7.0	5.0	5.4
pH-LAB	pH	P00403			4.6
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	42	60	45
ALKALINITY AS CaCO3	mg/l	P00410	3.17	<.10	0.53
HARDNESS	mg/l	P00900		<0.5	<0.5
SULFATE(dis)	mg/l	---	4.8	16.0	6.4
NO2-N	mg/l	P00615			
NO2+NO3-N	mg/l	P00630	0.11	0.02	0.24
NH3-N	mg/l	P00610	0.13	0.03	0.03
TOTAL KJELDAHL-N	mg/l	P00625	1.69	0.21	0.17
ORGANIC N	mg/l	P00605	1.56	0.18	0.14
NO3-N	mg/l	P00620			
TOTAL N	mg/l	P00600	1.80	0.23	0.41
TOTAL ORTHO P as P	mg/l	P70507			
TOTAL P as P	mg/l	P00665	0.12	0.01	0.02
BOD 5-DAY	mg/l	P00310			
TOTAL SUSPENDED SOLIDS	mg/l	P00530			
TOTAL DISSOLVED SOLIDS	mg/l	P70300	38	52	8
DIS. CA++	mg/l	P00915			
DIS. MG++	mg/l	P00925			
FECAL COLIFORM	MF	P31613	80	500	23

DELAWARE BAY DRAINAGE: EAST CREEK BASIN

SAVAGES RUN TRIBUTARY 3 PB11

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	14	4.8	12.0	7.8	2.0
pH-FIELD	pH	14	3.4	7.0	4.3	(4.8)
pH-LAB	pH	1	4.6	4.6	4.6	(4.6)
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	38	121	58	22
ALKALINITY AS CaCO ₃	mg/l	14	<.10	3.17	0.98	1.05
HARDNESS	mg/l	10	<0.5	15.5	6.5	4.7
SULFATE(dis)	mg/l	11	4.8	17.4	10.7	4.1
NO ₂ -N	mg/l	5	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	11	0.02	0.38	0.20	0.11
NH ₃ -N	mg/l	11	<.03	0.13	0.05	0.04
TOTAL KJELDAHL-N	mg/l	11	0.10	1.69	0.47	0.43
ORGANIC N	mg/l	11	0.01	1.56	0.42	0.41
NO ₃ -N	mg/l	7	0.11	0.28	0.18	0.06
TOTAL N	mg/l	11	0.21	1.80	0.66	0.42
TOTAL ORTHO P as P	mg/l	5	<.01	0.06	0.02	0.02
TOTAL P as P	mg/l	14	<.01	0.12	0.03	0.04
BOD 5-DAY	mg/l	1	0.5	0.5	0.5	
TOTAL SUSPENDED SOLIDS	mg/l	3	3	6	5	2
TOTAL DISSOLVED SOLIDS	mg/l	14	8	74	41	19
DIS. CA ⁺⁺	mg/l	5	2.0	12.0	6.4	3.8
DIS. MG ⁺⁺	mg/l	5	<0.5	1.0	0.5	0.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

DELAWARE BAY DRAINAGE: EAST CREEK BASIN

SAVAGES RUN PB8

STATION LOCATION: LAKE NUMMY OUTLET, DENNIS TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			7	10	1	4
MONTH			7	10	1	4
DAY			31	31	15	23
YEAR			90	90	91	91
WEATHER	code	P00041	1	0	0	0
AIR TEMPERATURE	deg. C	---	27.0	17.0	6.0	17.0
WATER TEMPERATURE	deg. C	P00010	27.0	13.0	4.8	14.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	6.2	7.4	12.0	7.7
pH-FIELD	pH	P00400	6.5		4.4	6.9
pH-LAB	pH	P00403		4.7		6.2
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	58	40	48	40
ALKALINITY AS CaCO3	mg/l	P00410	0.53	1.58	<.10	8.98
HARDNESS	mg/l	P00900		<0.5	<0.5	2.2
SULFATE(dis)	mg/l	---	3.3	5.8	6.8	2.9
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.01	0.04	0.02	0.02
NH3-N	mg/l	P00610	0.13	0.32	0.06	0.17
TOTAL KJELDAHL-N	mg/l	P00625	0.80	0.60	0.46	0.68
ORGANIC N	mg/l	P00605	0.67	0.28	0.40	0.51
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.81	0.64	0.48	0.70
TOTAL ORTHO P as P	mg/l	P70507				
TOTAL P as P	mg/l	P00665	0.03	0.02	0.04	0.04
BOD 5-DAY	mg/l	P00310				
TOTAL SUSPENDED SOLIDS	mg/l	P00530				
TOTAL DISSOLVED SOLIDS	mg/l	P70300	50	46	40	22
DIS. CA++	mg/l	P00915				
DIS. MG++	mg/l	P00925				
FECAL COLIFORM	MF	P31613	4	<2	17	70

DELAWARE BAY DRAINAGE: EAST CREEK BASIN

SAVAGES RUN PB8

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	21	6.2	12.0	8.7	1.8
pH-FIELD	pH	21	3.4	6.9	4.2	(4.4)
pH-LAB	pH	2	4.7	6.2	5.0	(5.0)
SPECIFIC CONDUCTIVITY-FIELD	umhos	18	36	80	56	14
ALKALINITY AS CaCO3	mg/l	22	<.10	8.98	0.72	2.04
HARDNESS	mg/l	16	<0.5	9.7	5.5	3.3
SULFATE(dis)	mg/l	17	2.9	19.0	8.1	4.5
NO2-N	mg/l	10	<.01	<.01	<.01	
NO2+NO3-N	mg/l	17	<.01	0.11	0.04	0.03
NH3-N	mg/l	17	<.03	0.32	0.10	0.08
TOTAL KJELDAHL-N	mg/l	17	0.18	2.07	0.67	0.40
ORGANIC N	mg/l	17	0.01	1.92	0.58	0.40
NO3-N	mg/l	14	<.01	0.09	0.04	0.02
TOTAL N	mg/l	17	0.21	2.13	0.71	0.41
TOTAL ORTHO P as P	mg/l	10	<.01	0.03	0.01	0.01
TOTAL P as P	mg/l	22	<.01	0.05	0.02	0.01
BOD 5-DAY	mg/l	2	1.0	2.1	1.6	0.8
TOTAL SUSPENDED SOLIDS	mg/l	5	2	2	2	<1
TOTAL DISSOLVED SOLIDS	mg/l	22	14	80	40	19
DIS. CA++	mg/l	9	4.0	8.0	5.4	1.7
DIS. MG++	mg/l	9	<0.5	1.0	<0.5	<0.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

DELAWARE BAY DRAINAGE: EAST CREEK BASIN

SAVAGES RUN PB6

STATION LOCATION: SUNSET ROAD, DENNIS TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			8	10	1	4
MONTH			8	10	1	4
DAY			7	31	15	23
YEAR			90	90	91	91
WEATHER	code	P00041	1	0	0	0
AIR TEMPERATURE	deg. C	---	26.0	17.0	5.0	17.0
WATER TEMPERATURE	deg. C	P00010	22.0	12.0	4.0	14.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	7.4	9.2	12.8	7.6
pH-FIELD	pH	P00400	5.8		4.6	5.2
pH-LAB	pH	P00403		5.0		4.4
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	48	40	45	40
ALKALINITY AS CaCO3	mg/l	P00410	1.59	1.58	<.10	<.10
HARDNESS	mg/l	P00900		<0.5	<0.5	<0.5
SULFATE(dis)	mg/l	---	3.5	3.8	7.0	4.5
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	1.13	1.58	0.37	0.37
NH3-N	mg/l	P00610	0.07	0.06	0.04	0.05
TOTAL KJELDAHL-N	mg/l	P00625	0.75	0.18	0.36	0.55
ORGANIC N	mg/l	P00605	0.68	0.12	0.32	0.50
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	1.88	1.76	0.73	0.92
TOTAL ORTHO P as P	mg/l	P70507				
TOTAL P as P	mg/l	P00665	0.04	<.01	0.01	0.04
BOD 5-DAY	mg/l	P00310				
TOTAL SUSPENDED SOLIDS	mg/l	P00530				
TOTAL DISSOLVED SOLIDS	mg/l	P70300	34	48	40	24
DIS. CA++	mg/l	P00915				
DIS. MG++	mg/l	P00925				
FECAL COLIFORM	MF	P31613	1600	17	50	80

DELAWARE BAY DRAINAGE: EAST CREEK BASIN

SAVAGES RUN PB6

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	22	6.7	12.8	8.8	1.4
pH-FIELD	pH	22	3.7	6.8	4.5	(5.0)
pH-LAB	pH	3	4.4	5.0	4.6	(4.7)
SPECIFIC CONDUCTIVITY-FIELD	umhos	19	32	75	48	10
ALKALINITY AS CaCO3	mg/l	23	<.10	4.49	1.14	1.22
HARDNESS	mg/l	17	<0.5	13.0	6.2	4.9
SULFATE(dis)	mg/l	18	2.8	11.7	5.7	2.3
NO2-N	mg/l	10	<.01	<.01	<.01	
NO2+NO3-N	mg/l	18	0.37	1.84	1.12	0.49
NH3-N	mg/l	18	<.03	0.13	0.06	0.03
TOTAL KJELDAHL-N	mg/l	18	0.14	0.77	0.52	0.18
ORGANIC N	mg/l	18	0.01	0.68	0.45	0.18
NO3-N	mg/l	14	0.63	1.84	1.20	0.46
TOTAL N	mg/l	18	0.73	2.25	1.63	0.46
TOTAL ORTHO P as P	mg/l	9	<.01	0.03	0.01	0.01
TOTAL P as P	mg/l	22	<.01	0.11	0.03	0.02
BOD 5-DAY	mg/l	2	0.7	2.1	1.4	1.0
TOTAL SUSPENDED SOLIDS	mg/l	5	2	4	3	1
TOTAL DISSOLVED SOLIDS	mg/l	23	8	100	42	18
DIS. CA++	mg/l	9	<0.5	8.2	5.6	3.1
DIS. MG++	mg/l	9	<0.5	2.8	0.7	0.9

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

DELAWARE BAY DRAINAGE: EAST CREEK BASIN

EAST CREEK PB5

STATION LOCATION: EAST CREEK POND SPILLWAY AT EAST CREEK MILL ROAD, DENNIS TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			7	10	1	4
MONTH			7	10	1	4
DAY			31	31	15	23
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	0	0
AIR TEMPERATURE	deg. C	---	28.0	15.0	5.0	17.0
WATER TEMPERATURE	deg. C	P00010	26.0	10.0	4.5	14.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	4.4	9.8	11.6	8.2
pH-FIELD	pH	P00400	7.1		4.8	5.5
pH-LAB	pH	P00403		5.4		4.6
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	48	32	39	38
ALKALINITY AS CaCO3	mg/l	P00410	2.11	2.64	<.10	0.53
HARDNESS	mg/l	P00900		<0.5	<0.5	<0.5
SULFATE(dis)	mg/l	---	3.4	4.5	6.1	4.0
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.07	0.13	0.19	0.28
NH3-N	mg/l	P00610	0.06	0.06	0.04	0.06
TOTAL KJELDAHL-N	mg/l	P00625	0.80	0.48	0.36	0.46
ORGANIC N	mg/l	P00605	0.74	0.42	0.32	0.40
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.87	0.61	0.55	0.74
TOTAL ORTHO P as P	mg/l	P70507				
TOTAL P as P	mg/l	P00665	0.03	<.01	0.01	0.03
BOD 5-DAY	mg/l	P00310				
TOTAL SUSPENDED SOLIDS	mg/l	P00530				
TOTAL DISSOLVED SOLIDS	mg/l	P70300	46	46	36	42
DIS. CA++	mg/l	P00915				
DIS. MG++	mg/l	P00925				
FECAL COLIFORM	MF	P31613	30	8	30	130

DELAWARE BAY-DRAINAGE: EAST CREEK BASIN

EAST CREEK PB5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	22	4.4	12.4	8.8	1.8
pH-FIELD	pH	22	3.9	7.5	4.5	(4.8)
pH-LAB	pH	3	4.5	5.4	4.7	(4.6)
SPECIFIC CONDUCTIVITY-FIELD	umhos	19	30	75	48	12
ALKALINITY AS CaCO3	mg/l	23	<.10	4.90	1.35	1.59
HARDNESS	mg/l	17	<0.5	12.2	5.2	4.2
SULFATE(dis)	mg/l	18	2.9	12.2	7.1	2.8
NO2-N	mg/l	10	<.01	<.01	<.01	
NO2+NO3-N	mg/l	18	<.01	0.52	0.27	0.14
NH3-N	mg/l	18	<.03	0.20	0.06	0.04
TOTAL KJELDAHL-N	mg/l	18	0.29	2.29	0.69	0.45
ORGANIC N	mg/l	18	0.24	2.20	0.62	0.44
NO3-N	mg/l	14	<.01	0.53	0.32	0.15
TOTAL N	mg/l	18	0.55	2.41	0.96	0.44
TOTAL ORTHO P as P	mg/l	9	<.01	0.03	0.01	0.01
TOTAL P as P	mg/l	22	<.01	0.12	0.02	0.03
BOD 5-DAY	mg/l	2	0.9	2.4	1.7	1.1
TOTAL SUSPENDED SOLIDS	mg/l	5	1	10	4	4
TOTAL DISSOLVED SOLIDS	mg/l	23	20	120	51	22
DIS. CA++	mg/l	9	4.0	8.0	5.0	1.4
DIS. MG++	mg/l	9	<0.5	1.5	0.6	0.6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

DELAWARE BAY DRAINAGE: DENNIS CREEK BASIN

DENNIS CREEK TRIBUTARY 1 PB12

STATION LOCATION: ROUTE 610 PAST MILE MARKER 2, DENNIS TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			7	10	1	4
MONTH			7	10	1	4
DAY			31	31	15	30
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	0	1
AIR TEMPERATURE	deg. C	---	26.0	12.0	8.0	18.0
WATER TEMPERATURE	deg. C	P00010	20.5	10.0	4.2	16.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	4.9	5.8	10.4	5.2
pH-FIELD	pH	P00400	6.8		4.6	4.7
pH-LAB	pH	P00403		4.9		4.2
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	60	40	40	60
ALKALINITY AS CaCO3	mg/l	P00410	0.53	2.11	<.10	<.10
HARDNESS	mg/l	P00900		<0.5	<0.5	<0.5
SULFATE(dis)	mg/l	---	2.4	5.9	7.1	7.6
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.05	0.02	0.13	0.04
NH3-N	mg/l	P00610	0.04	0.05	0.07	0.04
TOTAL KJELDAHL-N	mg/l	P00625	0.82	0.58	0.31	0.47
ORGANIC N	mg/l	P00605	0.78	0.53	0.24	0.43
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.87	0.60	0.44	0.51
TOTAL ORTHO P as P	mg/l	P70507				
TOTAL P as P	mg/l	P00665	0.55	0.02	0.01	0.04
BOD 5-DAY	mg/l	P00310				
TOTAL SUSPENDED SOLIDS	mg/l	P00530				
TOTAL DISSOLVED SOLIDS	mg/l	P70300	72	80	52	60
DIS. CA++	mg/l	P00915				
DIS. MG++	mg/l	P00925				
FECAL COLIFORM	MF	P31613	80	2	11	2

DELAWARE BAY DRAINAGE: DENNIS CREEK BASIN

DENNIS CREEK TRIBUTARY 1 PB12

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	22	2.7	10.4	5.9	2.3
pH-FIELD	pH	22	3.3	6.8	4.0	(4.3)
pH-LAB	pH	2	4.2	4.9	4.4	(4.4)
SPECIFIC CONDUCTIVITY-FIELD	umhos	20	32	170	61	29
ALKALINITY AS CaCO ₃	mg/l	23	<.10	2.52	0.32	0.73
HARDNESS	mg/l	17	<0.5	18.4	6.9	5.8
SULFATE(dis)	mg/l	18	<1.0	25.8	10.1	7.3
NO ₂ -N	mg/l	10	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	18	<.01	0.21	0.07	0.06
NH ₃ -N	mg/l	18	<.03	0.50	0.08	0.11
TOTAL KJELDAHL-N	mg/l	18	0.31	3.74	0.84	0.75
ORGANIC N	mg/l	18	0.24	3.24	0.76	0.65
NO ₃ -N	mg/l	14	<.01	0.21	0.07	0.07
TOTAL N	mg/l	18	0.44	3.74	0.91	0.73
TOTAL ORTHO P as P	mg/l	10	<.01	0.04	0.02	0.01
TOTAL P as P	mg/l	23	<.01	0.55	0.06	0.12
BOD 5-DAY	mg/l	2	2.3	2.7	2.5	0.3
TOTAL SUSPENDED SOLIDS	mg/l	5	1	7	3	2
TOTAL DISSOLVED SOLIDS	mg/l	23	28	356	81	76
DIS. CA ⁺⁺	mg/l	9	4.0	14.0	6.9	3.5
DIS. MG ⁺⁺	mg/l	9	<0.5	2.5	0.6	0.9

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

DELAWARE BAY DRAINAGE: DENNIS CREEK BASIN

DENNIS CREEK TRIBUTARY 3 PB20b

STATION LOCATION: JOHNSON POND (OR DENNISVILLE LAKE) OUTLET AT ROUTE 47, DENNIS TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			7	10	1	4
MONTH			7	10	1	4
DAY			31	31	15	23
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	0	0
AIR TEMPERATURE	deg. C	---	26.0	12.0	2.0	16.0
WATER TEMPERATURE	deg. C	P00010	25.5	10.0	4.0	14.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	6.2	10.8	13.0	9.2
pH-FIELD	pH	P00400	7.8		7.7	7.1
pH-LAB	pH	P00403		6.7		6.3
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	62	450	58	48
ALKALINITY AS CaCO3	mg/l	P00410	4.23	6.34	1.58	4.23
HARDNESS	mg/l	P00900		54.2	<0.5	<0.5
SULFATE(dis)	mg/l	---	5.9	18.0	6.1	5.5
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	<.01	<.01	0.24	0.10
NH3-N	mg/l	P00610	0.03	0.04	0.04	0.06
TOTAL KJELDAHL-N	mg/l	P00625	0.41	0.60	0.36	0.31
ORGANIC N	mg/l	P00605	0.38	0.56	0.32	0.25
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.41	0.60	0.60	0.41
TOTAL ORTHO P as P	mg/l	P70507				
TOTAL P as P	mg/l	P00665	0.38	0.03	0.02	0.03
TOTAL DISSOLVED SOLIDS	mg/l	P70300	46	256	32	12
DIS. CA++	mg/l	P00915				
DIS. MG++	mg/l	P00925				
FECAL COLIFORM	MF	P31613	2	13	30	80

DELAWARE BAY DRAINAGE: DENNIS CREEK BASIN

DENNIS CREEK TRIBUTARY 3 PB20b

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	16	6.0	13.0	9.4	2.1
pH-FIELD	pH	16	4.7	7.9	5.8	(6.5)
pH-LAB	pH	3	6.3	6.7	6.4	(6.4)
SPECIFIC CONDUCTIVITY-FIELD	umhos	17	30	450	86	102
ALKALINITY AS CaCO ₃	mg/l	17	<.10	14.50	4.76	3.28
HARDNESS	mg/l	16	<0.5	54.2	10.5	12.6
SULFATE(dis)	mg/l	17	5.5	18.0	9.9	2.9
NO ₂ -N	mg/l	9	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	17	<.01	0.46	0.15	0.14
NH ₃ -N	mg/l	17	<.03	0.08	0.04	<.03
TOTAL KJELDAHL-N	mg/l	17	0.31	2.23	0.77	0.59
ORGANIC N	mg/l	17	0.25	2.19	0.72	0.59
NO ₃ -N	mg/l	9	<.01	0.33	0.15	0.13
TOTAL N	mg/l	17	0.41	2.54	0.92	0.64
TOTAL ORTHO P as P	mg/l	8	<.01	0.05	0.03	0.02
TOTAL P as P	mg/l	16	<.01	0.38	0.07	0.09
TOTAL DISSOLVED SOLIDS	mg/l	17	12	256	56	54
DIS. CA ⁺⁺	mg/l	8	2.0	10.2	7.3	2.7
DIS. MG ⁺⁺	mg/l	8	<0.5	0.9	<0.5	<0.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

DELAWARE BAY DRAINAGE: DENNIS CREEK BASIN

SLUICE CREEK TRIBUTARY PB2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	18	3.3	7.8	4.8	1.2
pH-FIELD	pH	17	3.4	6.8	3.9	(4.0)
pH-LAB	pH	2	4.7	4.8	4.7	(4.8)
SPECIFIC CONDUCTIVITY-FIELD	umhos	15	50	120	77	23
ALKALINITY AS CaCO3	mg/l	18	<.10	2.11	0.41	0.76
HARDNESS	mg/l	12	<0.5	19.4	5.7	5.6
SULFATE(dis)	mg/l	13	<1.0	24.8	6.4	8.6
NO2-N	mg/l	7	<.01	0.01	<.01	<.01
NO2+NO3-N	mg/l	13	<.01	0.32	0.04	0.09
NH3-N	mg/l	13	0.03	0.20	0.07	0.04
TOTAL KJELDAHL-N	mg/l	13	0.63	4.40	1.48	0.99
ORGANIC N	mg/l	13	0.58	4.32	1.41	0.98
NO3-N	mg/l	11	<.01	0.32	0.06	0.09
TOTAL N	mg/l	13	0.64	4.44	1.52	1.01
TOTAL ORTHO P as P	mg/l	6	<.01	0.04	0.02	0.02
TOTAL P as P	mg/l	17	<.01	0.12	0.04	0.03
BOD 5-DAY	mg/l	2	0.9	1.3	1.1	0.3
TOTAL SUSPENDED SOLIDS	mg/l	5	<1	4	2	2
TOTAL DISSOLVED SOLIDS	mg/l	18	20	226	99	44
DIS. CA++	mg/l	6	<0.5	14.0	5.7	4.6
DIS. MG++	mg/l	6	<0.5	1.8	0.6	0.8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

DELAWARE BAY DRAINAGE: DENNIS CREEK BASIN

SLUICE CREEK TRIBUTARY PB2

STATION LOCATION: UNIMPROVED ROAD AT CLINTS MILL, MIDDLE TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			8	10	1	4
MONTH			8	10	1	4
DAY			1	31	30	23
YEAR			90	90	91	91
WEATHER	code	P00041	1	0	1	0
AIR TEMPERATURE	deg. C	---	25.0	15.0	12.0	16.0
WATER TEMPERATURE	deg. C	P00010	20.0	10.0	6.0	14.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	5.0	4.4	7.8	4.6
pH-FIELD	pH	P00400	5.5		6.8	6.2
pH-LAB	pH	P00403		4.8		4.7
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	90	60	120	62
ALKALINITY AS CaCO3	mg/l	P00410	2.11	2.11	1.06	1.58
HARDNESS	mg/l	P00900		4.3	<0.5	<0.5
SULFATE(dis)	mg/l	---	<1.0	2.5	<1.0	3.4
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	<.01	<.01	<.01	<.01
NH3-N	mg/l	P00610	0.20	0.08	0.03	0.07
TOTAL KJELDAHL-N	mg/l	P00625	1.81	1.23	0.65	0.80
ORGANIC N	mg/l	P00605	1.61	1.15	0.62	0.73
NO3-N	mg/l	P00620				
TOTAL* N	mg/l	P00600	1.81	1.23	0.65	0.80
TOTAL ORTHO P as P	mg/l	P70507				
TOTAL P as P	mg/l	P00665	0.10	0.03	0.03	0.03
BOD 5-DAY	mg/l	P00310				
TOTAL SUSPENDED SOLIDS	mg/l	P00530				
TOTAL DISSOLVED SOLIDS	mg/l	P70300	106	94	74	104
DIS. CA++	mg/l	P00915				
DIS. MG++	mg/l	P00925				
FECAL COLIFORM	MF	P31613	4	11	4	8

DELAWARE BAY DRAINAGE: DENNIS CREEK BASIN

SLUICE CREEK (TIDAL) PB1

STATION LOCATION: CLINTS MILL POND SPILLWAY, MIDDLE TWP AND DENNIS TWP BORDER, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			8	10	1	4
MONTH			8	10	1	4
DAY			1	31	16	23
YEAR			90	90	91	91
WEATHER	code	P00041	2	0	6	0
AIR TEMPERATURE	deg. C	---	25.0	15.0	8.0	16.0
WATER TEMPERATURE	deg. C	P00010	21.5	13.0	7.0	14.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	3.0	6.0	8.8	7.4
pH-FIELD	pH	P00400	5.9		4.4	5.7
pH-LAB	pH	P00403		5.7		4.6
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	190	190	58	58
ALKALINITY AS CaCO3	mg/l	P00410	8.98	7.40	<.10	1.06
HARDNESS	mg/l	P00900		10.8	<0.5	<0.5
SULFATE(dis)	mg/l	---	2.1	3.3	2.6	2.9
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	<.01	<.01	<.01	<.01
NH3-N	mg/l	P00610	0.56	0.44	0.05	0.06
TOTAL KJELDAHL-N	mg/l	P00625	2.22	1.67	0.68	1.18
ORGANIC N	mg/l	P00605	1.66	1.23	0.63	1.12
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	2.22	1.67	0.68	1.18
TOTAL ORTHO P as P	mg/l	P70507				
TOTAL P as P	mg/l	P00665	0.22	0.05	0.03	0.06
BOD 5-DAY	mg/l	P00310				
TOTAL SUSPENDED SOLIDS	mg/l	P00530				
TOTAL DISSOLVED SOLIDS	mg/l	P70300	170	200	56	70
DIS. CA++	mg/l	P00915				
DIS. MG++	mg/l	P00925				
FECAL COLIFORM	MF	P31613	30	2	13	13

DELAWARE BAY DRAINAGE: DENNIS CREEK BASIN

SLUICE CREEK PB1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	21	0.4	8.8	5.2	2.3
pH-FIELD	pH	20	3.6	6.3	4.3	(5.1)
pH-LAB	pH	2	4.6	5.7	4.9	(4.9)
SPECIFIC CONDUCTIVITY-FIELD	umhos	19	40	1904	226	416
ALKALINITY AS CaCO ₃	mg/l	22	<.10	24.20	4.42	6.59
HARDNESS	mg/l	16	<0.5	198.0	25.4	47.5
SULFATE(dis)	mg/l	17	<1.0	24.7	7.3	9.0
NO ₂ -N	mg/l	10	<.01	0.01	<.01	<.01
NO ₂ +NO ₃ -N	mg/l	17	<.01	0.10	0.02	0.03
NH ₃ -N	mg/l	17	0.04	2.80	0.34	0.66
TOTAL KJELDAHL-N	mg/l	17	0.68	4.91	1.71	1.12
ORGANIC N	mg/l	17	0.63	4.56	1.37	0.89
NO ₃ -N	mg/l	14	<.01	0.24	0.04	0.06
TOTAL N	mg/l	17	0.68	4.94	1.74	1.12
TOTAL ORTHO P as P	mg/l	10	<.01	0.22	0.04	0.07
TOTAL P as P	mg/l	22	0.02	0.41	0.09	0.09
BOD 5-DAY	mg/l	2	1.3	2.0	1.7	0.5
TOTAL SUSPENDED SOLIDS	mg/l	5	1	7	4	2
TOTAL DISSOLVED SOLIDS	mg/l	22	54	1770	263	413
DIS. CA ⁺⁺	mg/l	9	4.0	168.0	28.8	52.4
DIS. MG ⁺⁺	mg/l	9	<0.5	7.3	2.6	2.6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

DELAWARE BAY DRAINAGE: DENNIS CREEK BASIN

DENNIS CREEK TRIBUTARY 4 PB7b

STATION LOCATION: LUDLAMS POND (OR HOLLY LAKE) OUTLET AT ROUTE 47, DENNIS TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			7	10	1	4
MONTH			7	10	1	4
DAY			31	31	15	23
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	0	0
AIR TEMPERATURE	deg. C	---	27.0	15.0	2.0	17.0
WATER TEMPERATURE	deg. C	P00010	26.0	10.0	1.8	14.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	4.8	10.0	14.4	9.2
pH-FIELD	pH	P00400	7.1		7.3	6.2
pH-LAB	pH	P00403		4.8		4.8
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	58	40	42	32
ALKALINITY AS CaCO3	mg/l	P00410	1.06	1.06	1.58	1.06
HARDNESS	mg/l	P00900		<0.5	<0.5	<0.5
SULFATE(dis)	mg/l	---	5.9	6.1	7.2	5.3
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	<.01	0.01	0.10	0.01
NH3-N	mg/l	P00610	0.03	0.04	0.19	0.08
TOTAL KJELDAHL-N	mg/l	P00625	0.29	0.30	0.31	0.31
ORGANIC N	mg/l	P00605	0.26	0.26	0.12	0.23
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.29	0.31	0.41	0.32
TOTAL ORTHO P as P	mg/l	P70507				
TOTAL P as P	mg/l	P00665	0.21	<.01	0.01	0.03
TOTAL DISSOLVED SOLIDS	mg/l	P70300	40	36	42	20
DIS. CA++	mg/l	P00915				
DIS. MG++	mg/l	P00925				
FECAL COLIFORM	MF	P31613	<2	<2	2	8

DELAWARE BAY DRAINAGE: DENNIS CREEK BASIN

DENNIS CREEK TRIBUTARY 4 PB7b

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	16	4.8	14.4	8.9	2.5
pH-FIELD	pH	16	4.1	7.3	4.6	(4.7)
pH-LAB	pH	3	4.8	4.8	4.8	(4.8)
SPECIFIC CONDUCTIVITY-FIELD	umhos	17	32	78	50	12
ALKALINITY AS CaCO3	mg/l	17	<.10	4.28	0.97	1.07
HARDNESS	mg/l	16	<0.5	13.6	5.5	4.7
SULFATE(dis)	mg/l	17	5.3	14.1	8.6	2.4
NO2-N	mg/l	9	<.01	<.01	<.01	
NO2+NO3-N	mg/l	17	<.01	1.59	0.16	0.38
NH3-N	mg/l	17	<.03	0.19	0.05	0.04
TOTAL KJELDAHL-N	mg/l	17	0.25	2.05	0.60	0.45
ORGANIC N	mg/l	17	0.12	2.00	0.55	0.45
NO3-N	mg/l	9	<.01	1.59	0.23	0.51
TOTAL N	mg/l	17	0.28	2.66	0.77	0.67
TOTAL ORTHO P as P	mg/l	8	<.01	0.03	0.01	0.01
TOTAL P as P	mg/l	16	<.01	0.21	0.03	0.05
TOTAL DISSOLVED SOLIDS	mg/l	17	20	96	42	18
DIS. CA++	mg/l	8	4.0	10.0	6.0	1.9
DIS. MG++	mg/l	8	<0.5	2.3	0.5	0.9

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

DELAWARE BAY DRAINAGE: DENNIS CREEK BASIN

OLD ROBBINS BRANCH PB4

STATION LOCATION: BEAVER CAUSEWAY ROAD (OR ROBBINS TRAIL), DENNIS TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			7	10	1	4
MONTH			7	10	1	4
DAY			31	31	15	23
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	0	0
AIR TEMPERATURE	deg. C	---	27.0	15.0	2.0	16.0
WATER TEMPERATURE	deg. C	P00010	22.0	10.0	2.5	14.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	2.2	5.6	10.2	4.4
pH-FIELD	pH	P00400	6.8		5.4	5.6
pH-LAB	pH	P00403		4.5		4.3
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	65	50	50	36
ALKALINITY AS CaCO3	mg/l	P00410	0.53	<.10	<.10	<.10
HARDNESS	mg/l	P00900		<0.5	<0.5	<0.5
SULFATE(dis)	mg/l	---	<1.0	12.9	8.1	4.5
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	<.01	0.02	<.01	<.01
NH3-N	mg/l	P00610	0.42	0.09	0.03	0.04
TOTAL KJELDAHL-N	mg/l	P00625	1.59	0.37	0.36	0.41
ORGANIC N	mg/l	P00605	1.17	0.28	0.33	0.37
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	1.59	0.39	0.36	0.41
TOTAL ORTHO P as P	mg/l	P70507				
TOTAL P as P	mg/l	P00665	0.12	<.01	0.01	0.03
BOD 5-DAY	mg/l	P00310				
TOTAL SUSPENDED SOLIDS	mg/l	P00530				
TOTAL DISSOLVED SOLIDS	mg/l	P70300	126	82	56	38
DIS. CA++	mg/l	P00915				
DIS. MG++	mg/l	P00925				
FECAL COLIFORM	MF	P31613	130	49	8	70

DELAWARE BAY DRAINAGE: DENNIS CREEK BASIN

OLD ROBBINS BRANCH PB4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	22	1.1	10.2	5.6	2.5
pH-FIELD	pH	22	3.6	6.8	4.1	(4.2)
pH-LAB	pH	3	4.3	4.5	4.4	(4.4)
SPECIFIC CONDUCTIVITY-FIELD	umhos	20	20	498	104	118
ALKALINITY AS CaCO3	mg/l	23	<.10	2.04	0.20	0.48
HARDNESS	mg/l	17	<0.5	69.4	11.6	16.9
SULFATE(dis)	mg/l	18	<1.0	31.4	11.2	7.3
NO2-N	mg/l	10	<.01	0.01	<.01	<.01
NO2+NO3-N	mg/l	18	<.01	0.07	0.02	0.02
NH3-N	mg/l	18	0.03	0.42	0.10	0.09
TOTAL KJELDAHL-N	mg/l	18	0.22	1.76	0.75	0.42
ORGANIC N	mg/l	18	0.16	1.58	0.66	0.36
NO3-N	mg/l	14	<.01	0.14	0.03	0.04
TOTAL N	mg/l	18	0.29	1.77	0.77	0.42
TOTAL ORTHO P as P	mg/l	10	<.01	0.03	0.02	0.01
TOTAL P as P	mg/l	23	<.01	0.12	0.02	0.02
BOD 5-DAY	mg/l	2	1.4	3.0	2.2	1.1
TOTAL SUSPENDED SOLIDS	mg/l	5	1	5	3	2
TOTAL DISSOLVED SOLIDS	mg/l	23	12	354	82	70
DIS. CA++	mg/l	9	4.0	14.0	7.8	3.5
DIS. MG++	mg/l	9	<0.5	14.0	2.9	4.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

TUCKAHOE RIVER BASIN

TUCKAHOE RIVER PCTU3

STATION LOCATION: ROUTE 49 AT HUNTER'S MILL, ESTELL MANOR, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			18	8
YEAR			91	91
WEATHER	code	P00041	6	0
WATER TEMPERATURE	deg. C	P00010	8.0	17.0
DISSOLVED OXYGEN	mg/l	P00299	11.2	10.2
PH-FIELD	pH	P00400	4.4	4.6
PH-LAB	pH	P00403	4.6	4.8
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	25.0	25.0
ALKALINITY	mg/l	P00410	<0.2	
ACIDITY	mg/l	P00436		<0.5
HARDNESS	mg/l	P00900	5	5
SULFATE(tot)	mg/l	P00945	5.5	1.6
NO2-N	mg/l	P00615	<0.10	<0.10
NO2+NO3-N	mg/l	P00630	<0.10	<0.10
NH3-N	mg/l	P00610	<.01	<0.10
TOTAL KJELDAHL-N	mg/l	P00625	1.84	4.60
ORGANIC N	mg/l	P00605	1.84	4.60
NO3-N	mg/l	P00620	<0.10	<0.10
TOTAL N	mg/l	P00600	1.84	4.60
TOTAL ORTHO P AS P	mg/l	P70507	0.10	0.02
TOTAL P AS P	mg/l	P00665	0.15	0.06
TURBIDITY	JTU	P00076	1.4	1.1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	43	33

TUCKAHOE RIVER BASIN

TUCKAHOE RIVER PCTU3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	10.2	11.2	10.7	0.7
PH-FIELD	pH	2	4.4	4.6	4.5	(4.5)
PH-LAB	pH	2	4.6	4.8	4.7	(4.7)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	25.0	25.0	25.0	
ALKALINITY	mg/l	1	<0.2	<0.2	<0.2	
ACIDITY	mg/l	1	<0.5	<0.5	<0.5	
HARDNESS	mg/l	2	5	5	5	
SULFATE(tot)	mg/l	2	1.6	5.5	3.6	2.8
NO2-N	mg/l	2	<0.10	<0.10	<0.10	
NO2+NO3-N	mg/l	2	<0.10	<0.10	<0.10	
NH3+NH4-N	mg/l	2	<0.10	<0.10	<0.10	
TOTAL KJELDAHL-N	mg/l	2	1.84	4.60	3.22	1.95
ORGANIC N	mg/l	2	1.84	4.60	3.22	1.95
NO3-N	mg/l	2	<0.10	<0.10	<0.10	
TOTAL N	mg/l	2	1.84	4.60	3.22	1.95
TOTAL ORTHO P AS P	mg/l	2	0.02	0.10	0.06	0.06
TOTAL P AS P	mg/l	2	0.06	0.15	0.11	0.06
TURBIDITY	JTU	2	1.1	1.4	1.3	0.2
TOTAL DISSOLVED SOLIDS	mg/l	2	33	43	38	7

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

TARKILN BROOK TRIBUTARY PB16

STATION LOCATION: ROUTE 605 (BELLEPLAIN ROAD), UPPER TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			8	10	1	4
MONTH			8	10	1	4
DAY			7	31	16	24
YEAR			90	90	91	91
WEATHER	code	P00041	1	0	6	6
AIR TEMPERATURE	deg. C	---	26.0	12.0	12.0	18.0
WATER TEMPERATURE	deg. C	P00010	22.5	11.0	7.0	14.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	3.0	3.6	11.0	4.6
pH-FIELD	pH	P00400	4.7		4.3	4.8
pH-LAB	pH	P00403		5.7		4.2
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	78	75	48	40
ALKALINITY AS CaCO3	mg/l	P00410	0.53	8.46	2.11	<.10
HARDNESS	mg/l	P00900		6.5	<0.5	<0.5
SULFATE(dis)	mg/l	---	2.1	16.3	6.9	4.9
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.01	0.01	<.01	<.01
NH3-N	mg/l	P00610	0.26	0.26	0.03	0.04
TOTAL KJELDAHL-N	mg/l	P00625	3.25	0.67	0.38	0.29
ORGANIC N	mg/l	P00605	2.99	0.41	0.35	0.25
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	3.26	0.68	0.38	0.29
TOTAL ORTHO P as P	mg/l	P70507				
TOTAL P as P	mg/l	P00665	0.22	0.04	0.03	0.03
BOD 5-DAY	mg/l	P00310				
TOTAL SUSPENDED SOLIDS	mg/l	P00530				
TOTAL DISSOLVED SOLIDS	mg/l	P70300	56	94	62	10
DIS. CA++	mg/l	P00915				
DIS. MG++	mg/l	P00925				
FECAL COLIFORM	MF	P31613	>1600	5	<2	4

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

TARKILN BROOK TRIBUTARY PB16

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	22	3.0	11.0	6.2	2.5
pH-FIELD	pH	21	3.5	6.5	4.1	(4.3)
pH-LAB	pH	2	4.2	5.7	4.5	(4.5)
SPECIFIC CONDUCTIVITY-FIELD	umhos	19	30	505	84	103
ALKALINITY AS CaCO ₃	mg/l	22	<.10	8.46	1.24	2.48
HARDNESS	mg/l	16	<0.5	28.6	6.4	7.8
SULFATE(dis)	mg/l	17	1.2	42.4	13.9	12.1
NO ₂ -N	mg/l	9	<.01	0.01	<.01	<.01
NO ₂ +NO ₃ -N	mg/l	17	<.01	0.18	0.03	0.04
NH ₃ -N	mg/l	17	0.03	1.00	0.14	0.23
TOTAL KJELDAHL-N	mg/l	17	0.16	3.25	0.82	0.85
ORGANIC N	mg/l	17	0.12	2.99	0.68	0.70
NO ₃ -N	mg/l	13	<.01	0.10	0.03	0.03
TOTAL N	mg/l	17	0.17	3.26	0.84	0.85
TOTAL ORTHO P as P	mg/l	9	<.01	0.03	0.02	0.01
TOTAL P as P	mg/l	22	<.01	0.22	0.04	0.04
BOD 5-DAY	mg/l	2	1	3	2	1
TOTAL SUSPENDED SOLIDS	mg/l	5	2	5	3	1
TOTAL DISSOLVED SOLIDS	mg/l	22	10	328	84	88
DIS. CA ⁺⁺	mg/l	8	3.0	14.0	7.0	4.0
DIS. MG ⁺⁺	mg/l	8	<0.5	3.6	0.8	1.3

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

TARKILN BROOK PB17b

STATION LOCATION: BOG SPILLWAY AT ROUTE 548, UPPER TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE		
MONTH			8	1	4
DAY			7	16	24
YEAR			90	91	91
WEATHER	code	P00041	1	6	6
AIR TEMPERATURE	deg. C	---	26.0	12.0	18.0
WATER TEMPERATURE	deg. C	P00010	26.0	6.0	16.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	5.6	11.8	6.8
pH-FIELD	pH	P00400	4.7	4.5	4.7
pH-LAB	pH	P00403			4.3
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	45	45	35
ALKALINITY AS CaCO3	mg/l	P00410	0.53	<.10	<.10
HARDNESS	mg/l	P00900		<0.5	<0.5
SULFATE(dis)	mg/l	---	4.1	8.0	4.4
NO2-N	mg/l	P00615			
NO2+NO3-N	mg/l	P00630	<.01	0.12	0.01
NH3-N	mg/l	P00610	0.04	0.05	0.03
TOTAL KJELDAHL-N	mg/l	P00625	0.51	0.33	0.43
ORGANIC N	mg/l	P00605	0.47	0.28	0.40
NO3-N	mg/l	P00620			
TOTAL N	mg/l	P00600	0.51	0.45	0.44
TOTAL ORTHO P as P	mg/l	P70507			
TOTAL P as P	mg/l	P00665	0.01	0.02	0.03
TOTAL DISSOLVED SOLIDS	mg/l	P70300	30	40	40
DIS. CA++	mg/l	P00915			
DIS. MG++	mg/l	P00925			
FECAL COLIFORM	MF	P31613	2	13	30

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

TARKILN BROOK PB17b

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	16	4.4	11.8	7.9	2.0
pH-FIELD	pH	17	3.8	5.3	4.2	(4.3)
pH-LAB	pH	2	4.3	4.4	4.4	(4.4)
SPECIFIC CONDUCTIVITY-FIELD	umhos	17	28	69	45	9.6
ALKALINITY AS CaCO ₃	mg/l	17	<.10	2.15	0.47	0.66
HARDNESS	mg/l	16	<0.5	16.3	5.4	4.7
SULFATE(dis)	mg/l	17	2.2	16.5	8.0	4.3
NO ₂ -N	mg/l	9	<.01	0.01	<.01	<.01
NO ₂ +NO ₃ -N	mg/l	17	<.01	0.46	0.13	0.13
NH ₃ -N	mg/l	17	0.03	0.23	0.06	0.05
TOTAL KJELDAHL-N	mg/l	17	0.33	2.61	0.71	0.54
ORGANIC N	mg/l	17	0.28	2.38	0.65	0.50
NO ₃ -N	mg/l	9	<.01	0.46	0.12	0.15
TOTAL N	mg/l	17	0.42	2.87	0.84	0.57
TOTAL ORTHO P as P	mg/l	8	<.01	0.04	0.02	0.01
TOTAL P as P	mg/l	16	<.01	0.07	0.02	0.02
TOTAL DISSOLVED SOLIDS	mg/l	17	10	56	38	12
DIS. CA ⁺⁺	mg/l	8	3.0	6.1	4.9	1.2
DIS. MG ⁺⁺	mg/l	8	<0.5	1.5	0.5	0.6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

TUCKAHOE RIVER PB18b

STATION LOCATION: ROUTE 49 USGS STATION, UPPER TWP & ESTELL MANOR TWP BORDER, CAPE MAY CO & ATLANTIC CO

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			8	10	1	4
MONTH			8	10	1	4
DAY			1	31	16	24
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	6	6
AIR TEMPERATURE	deg. C	---	27.0	12.0	12.0	18.0
WATER TEMPERATURE	deg. C	P00010	22.0	10.0	6.0	15.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	6.0	8.8	12.5	6.2
pH-FIELD	pH	P00400	7.5		4.5	4.8
pH-LAB	pH	P00403		5.3		4.4
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	40	25	40	35
ALKALINITY AS CaCO3	mg/l	P00410	2.64	2.11	<.10	<.10
HARDNESS	mg/l	P00900		<0.5	<0.5	<0.5
SULFATE(dis)	mg/l	---	2.6	3.0	5.5	3.7
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.02	0.06	0.07	0.01
NH3-N	mg/l	P00610	0.03	0.03	0.04	0.04
TOTAL KJELDAHL-N	mg/l	P00625	0.24	1.30	0.38	0.41
ORGANIC N	mg/l	P00605	0.21	1.27	0.34	0.37
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.26	1.36	0.45	0.42
TOTAL ORTHO P as P	mg/l	P70507				
TOTAL P as P	mg/l	P00665	0.03	0.15	0.01	0.03
TOTAL DISSOLVED SOLIDS	mg/l	P70300	16	20	52	24
DIS. CA++	mg/l	P00915				
DIS. MG++	mg/l	P00925				
FECAL COLIFORM	MF	P31613	80	33	30	11

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

TUCKAHOE RIVER PB18b

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	17	4.8	12.5	8.3	1.9
pH-FIELD	pH	17	4.0	7.5	4.5	(4.6)
pH-LAB	pH	3	4.4	5.3	4.6	(4.6)
SPECIFIC CONDUCTIVITY-FIELD	umhos	18	25	40	34	6
ALKALINITY AS CaCO ₃	mg/l	18	<.10	4.30	1.16	1.30
HARDNESS	mg/l	17	<0.5	11.4	3.8	3.4
SULFATE(dis)	mg/l	18	<1.0	10.6	4.9	2.7
NO ₂ -N	mg/l	9	<.01	0.01	<.01	<.01
NO ₂ +NO ₃ -N	mg/l	18	<.01	0.20	0.06	0.06
NH ₃ -N	mg/l	18	0.03	0.15	0.05	0.03
TOTAL KJELDAHL-N	mg/l	18	0.24	1.30	0.54	0.25
ORGANIC N	mg/l	18	0.21	1.27	0.49	0.25
NO ₃ -N	mg/l	9	<.01	0.17	0.05	0.06
TOTAL N	mg/l	18	0.26	1.36	0.60	0.26
TOTAL ORTHO P as P	mg/l	9	<.01	0.07	0.02	0.02
TOTAL P as P	mg/l	18	<.01	0.15	0.03	0.03
TOTAL DISSOLVED SOLIDS	mg/l	18	8	78	35	17
DIS. CA ⁺⁺	mg/l	8	3.0	8.2	4.8	1.8
DIS. MG ⁺⁺	mg/l	8	<0.5	0.9	<0.5	<0.5

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

TUCKAHOE RIVER BASIN

MCNEALS BASIN PCTU2

STATION LOCATION: ROUTE 649 IN HEAD OF RIVER, ESTELL MANOR, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			18	8
YEAR			91	91
WEATHER	code	P00041	6	0
WATER TEMPERATURE	deg. C	P00010	7.0	16.0
DISSOLVED OXYGEN	mg/l	P00299	10.5	8.4
PH-FIELD	pH	P00400	4.1	4.2
PH-LAB	pH	P00403	4.2	4.6
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	32.0	31.0
ALKALINITY	mg/l	P00410	<0.2	
ACIDITY	mg/l	P00436		<0.5
HARDNESS	mg/l	P00900	5	3
SULFATE(tot)	mg/l	P00945	5.2	1.0
NO2-N	mg/l	P00615	<0.10	<0.10
NO2+NO3-N	mg/l	P00630	<0.10	<0.10
NH3-N	mg/l	P00610	<.01	<0.10
TOTAL KJELDAHL-N	mg/l	P00625	1.84	4.00
ORGANIC N	mg/l	P00605	1.84	4.00
NO3-N	mg/l	P00620	<0.10	<0.10
TOTAL N	mg/l	P00600	1.84	4.00
TOTAL ORTHO P AS P	mg/l	P70507	<.01	0.02
TOTAL P AS P	mg/l	P00665	0.07	0.14
TURBIDITY	JTU	P00076	1.3	0.6
TOTAL DISSOLVED SOLIDS	mg/l	P70300	29	31

TUCKAHOE RIVER BASIN

MCNEALS BASIN PCTU2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	8.4	10.5	9.5	1.5
PH-FIELD	pH	2	4.1	4.2	4.2	(4.2)
PH-LAB	pH	2	4.2	4.6	4.4	(4.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	31.0	32.0	31.5	0.7
ALKALINITY	mg/l	1	<0.2	<0.2	<0.2	
ACIDITY	mg/l	1	<0.5	<0.5	<0.5	
HARDNESS	mg/l	2	3	5	4	1
SULFATE(tot)	mg/l	2	1.0	5.2	3.1	3.0
NO2-N	mg/l	2	<0.10	<0.10	<0.10	
NO2+NO3-N	mg/l	2	<0.10	<0.10	<0.10	
NH3+NH4-N	mg/l	2	<.01	<0.10		
TOTAL KJELDAHL-N	mg/l	2	1.84	4.00	2.92	1.53
ORGANIC N	mg/l	2	1.84	4.00	2.92	1.53
NO3-N	mg/l	2	<0.10	<0.10	<0.10	
TOTAL N	mg/l	2	1.84	4.00	2.92	1.53
TOTAL ORTHO P AS P	mg/l	2	<.01	0.02	0.01	0.01
TOTAL P AS P	mg/l	2	0.07	0.14	0.11	0.05
TURBIDITY	JTU	2	0.6	1.3	1.0	0.5
TOTAL DISSOLVED SOLIDS	mg/l	2	29	31	30	1

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

PLUMMERS CREEK PB21

STATION LOCATION: NARROWS ROAD, UPPER TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			8	10	1	4
MONTH			8	10	1	4
DAY			7	31	16	24
YEAR			90	90	91	91
WEATHER	code	P00041	1	0	6	6
AIR TEMPERATURE	deg. C	---	26.0	12.0	12.0	18.0
WATER TEMPERATURE	deg. C	P00010	22.0	11.0	5.0	15.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	2.2	3.8	11.2	2.8
pH-FIELD	pH	P00400	4.0		4.1	4.7
pH-LAB	pH	P00403		4.1		4.0
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	70	55	50	70
ALKALINITY AS CaCO3	mg/l	P00410	<.10	<.10	<.10	<.10
HARDNESS	mg/l	P00900		<0.5	<0.5	<0.5
SULFATE(dis)	mg/l	---	8.4	4.4	5.7	5.3
NO2+NO3-N	mg/l	P00630	<.01	<.01	<.01	<.01
NH3-N	mg/l	P00610	0.06	0.08	<.03	0.03
TOTAL KJELDAHL-N	mg/l	P00625	0.80	1.88	0.23	0.53
ORGANIC N	mg/l	P00605	0.74	1.80	0.23	0.50
TOTAL N	mg/l	P00600	0.80	1.88	0.23	0.53
TOTAL P as P	mg/l	P00665	0.03	0.17	0.02	0.02
TOTAL DISSOLVED SOLIDS	mg/l	P70300	36	40	48	34
FECAL COLIFORM	MF	P31613	170	17	13	17

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

PLUMMERS CREEK PB21

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	4	2.2	11.2	5.0	4.2
pH-FIELD	pH	3	4.0	4.7	4.2	(4.1)
pH-LAB	pH	2	4.0	4.1	4.0	(4.1)
SPECIFIC CONDUCTIVITY-FIELD	umhos	4	50	70	61	10
ALKALINITY AS CaCO ₃	mg/l	4	<.10	<.10	<.10	
HARDNESS	mg/l	3	<0.5	<0.5	<0.5	
SULFATE(dis)	mg/l	4	4.4	8.4	5.9	1.7
NO ₂ +NO ₃ -N	mg/l	4	<.01	<.01	<.01	
NH ₃ -N	mg/l	4	<.03	0.08	0.05	0.03
TOTAL KJELDAHL-N	mg/l	4	0.23	1.88	0.86	0.72
ORGANIC N	mg/l	4	0.21	1.80	0.81	0.69
TOTAL N	mg/l	4	0.23	1.88	0.86	0.72
TOTAL P as P	mg/l	4	0.02	0.17	0.06	0.07
TOTAL DISSOLVED SOLIDS	mg/l	4	34	48	40	6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

SOUTH BRANCH MILL CREEK PB13b

STATION LOCATION: BOG ROAD, UPPER TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE		
MONTH			10	1	4
DAY			31	16	24
YEAR			90	91	91
WEATHER	code	P00041	0	6	1
AIR TEMPERATURE	deg. C	---	12.0	13.0	18.0
WATER TEMPERATURE	deg. C	P00010	10.0	5.0	15.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	3.0	9.8	5.2
pH-FIELD	pH	P00400		4.2	5.1
pH-LAB	pH	P00403	4.1		4.2
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	60	72	110
ALKALINITY AS CaCO ₃	mg/l	P00410	<.10	<.10	<.10
HARDNESS	mg/l	P00900	<0.5	<0.5	<0.5
SULFATE(dis)	mg/l	---	6.0	10.6	5.0
NO ₂ +NO ₃ -N	mg/l	P00630	<.01	<.01	0.02
NH ₃ -N	mg/l	P00610	0.05	0.03	0.03
TOTAL KJELDAHL-N	mg/l	P00625	0.32	0.36	0.43
ORGANIC N	mg/l	P00605	0.27	0.33	0.40
TOTAL N	mg/l	P00600	0.32	0.36	0.45
TOTAL P as P	mg/l	P00665	<.01	0.02	0.02
TOTAL DISSOLVED SOLIDS	mg/l	P70300	58	64	10
FECAL COLIFORM	MF	P31613	5	17	80

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

SOUTH BRANCH MILL CREEK PB13b

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	3	3.0	9.8	6.0	3.5
pH-FIELD	pH	2	4.2	5.1	4.4	(4.5)
pH-LAB	pH	2	4.1	4.2	4.1	(4.2)
SPECIFIC CONDUCTIVITY-FIELD	umhos	3	60	110	81	26
ALKALINITY AS CaCO ₃	mg/l	3	<.10	<.10	<.10	
HARDNESS	mg/l	3	<0.5	<0.5	<0.5	
SULFATE(dis)	mg/l	3	5.0	10.6	7.2	3.0
NO ₂ +NO ₃ -N	mg/l	3	<.01	0.02	0.01	0.01
NH ₃ -N	mg/l	3	0.03	0.05	0.04	0.01
TOTAL KJELDAHL-N	mg/l	3	0.32	0.43	0.37	0.06
ORGANIC N	mg/l	3	0.27	0.40	0.33	0.07
TOTAL N	mg/l	3	0.32	0.45	0.38	0.07
TOTAL P as P	mg/l	3	<.01	0.02	0.01	0.01
TOTAL DISSOLVED SOLIDS	mg/l	3	10	64	44	30

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

MILL CREEK (TIDAL) PB19b

STATION LOCATION: ROUTE 49, UPPER TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			8	10	1	4
MONTH			8	10	1	4
DAY			1	31	16	24
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	6	6
AIR TEMPERATURE	deg. C	---	27.0	12.0	8.0	18.0
WATER TEMPERATURE	deg. C	P00010	26.5	10.0	5.5	15.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	3.8	7.8	11.6	5.6
pH-FIELD	pH	P00400	6.9		5.5	5.2
pH-LAB	pH	P00403		6.6		4.8
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	55000	3600	300	70
ALKALINITY AS CaCO3	mg/l	P00410	7.40	14.30	2.11	1.58
HARDNESS	mg/l	P00900		504.0	32.6	<0.5
SULFATE(dis)	mg/l	---	192.0	170.0	19.7	5.7
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.03	0.02	0.07	0.04
NH3-N	mg/l	P00610	0.04	0.05	0.05	0.04
TOTAL KJELDAHL-N	mg/l	P00625	0.53	0.53	0.54	0.68
ORGANIC N	mg/l	P00605	0.49	0.48	0.49	0.64
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.56	0.55	0.61	0.72
TOTAL ORTHO P as P	mg/l	P70507				
TOTAL P as P	mg/l	P00665	0.04	0.05	0.05	0.08
TOTAL DISSOLVED SOLIDS	mg/l	P70300	3078	2760	256	66
DIS. CA++	mg/l	P00915				
DIS. MG++	mg/l	P00925				
FECAL COLIFORM	MF	P31613	240	170	17	110

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

MILL CREEK PB19b

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	17	3.8	11.6	7.9	2.4
pH-FIELD	pH	17	3.9	7.2	4.9	(6.1)
pH-LAB	pH	3	4.4	6.6	4.7	(4.8)
SPECIFIC CONDUCTIVITY-FIELD	umhos	18	32	55000	4417	12804
ALKALINITY AS CaCO ₃	mg/l	18	<.10	21.90	7.29	6.51
HARDNESS	mg/l	17	<0.5	953.0	212.3	270.5
SULFATE(dis)	mg/l	18	2.1	330.0	90.3	100.4
NO ₂ -N	mg/l	9	<.01	0.01	<.01	<.01
NO ₂ +NO ₃ -N	mg/l	18	<.01	0.26	0.07	0.08
NH ₃ -N	mg/l	18	<.03	0.11	0.05	0.03
TOTAL KJELDAHL-N	mg/l	18	0.39	1.45	0.80	0.27
ORGANIC N	mg/l	18	0.29	1.41	0.75	0.28
NO ₃ -N	mg/l	9	<.01	0.25	0.08	0.09
TOTAL N	mg/l	18	0.47	1.46	0.87	0.29
TOTAL ORTHO P as P	mg/l	9	<.01	0.03	0.02	0.01
TOTAL P as P	mg/l	18	0.01	0.12	0.05	0.03
TOTAL DISSOLVED SOLIDS	mg/l	18	28	5520	1299	1552
DIS. CA ⁺⁺	mg/l	8	3.0	274.0	85.6	85.4
DIS. MG ⁺⁺	mg/l	8	<0.5	163.0	54.0	62.6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

CEDAR SWAMP CREEK PB14b (TIDAL)

STATION LOCATION: ROUTE 50, UPPER TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			8	10	1	4
MONTH			8	10	1	4
DAY			1	31	16	30
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	6	4
AIR TEMPERATURE	deg. C	---	27.0	12.0	8.0	18.0
WATER TEMPERATURE	deg. C	P00010	25.0	10.0	4.0	16.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	2.4	9.8	11.9	4.8
pH-FIELD	pH	P00400	6.7		6.9	6.6
pH-LAB	pH	P00403		7.1		6.2
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	120000	120000	1300	800
ALKALINITY AS CaCO ₃	mg/l	P00410	24.3	43.9	9.5	10.0
HARDNESS	mg/l	P00900		1953.0	187.0	69.4
SULFATE(dis)	mg/l	---	460.0	682.0	81.7	37.0
NO ₂ +NO ₃ -N	mg/l	P00630	<.01	0.01	0.03	0.10
NH ₃ -N	mg/l	P00610	0.03	0.05	0.05	0.06
TOTAL KJELDAHL-N	mg/l	P00625	0.53	0.53	0.64	0.84
ORGANIC N	mg/l	P00605	0.50	0.48	0.59	0.78
TOTAL N	mg/l	P00600	0.53	0.54	0.67	0.94
TOTAL P as P	mg/l	P00665	0.04	0.03	0.05	0.07
TOTAL DISSOLVED SOLIDS	mg/l	P70300	7570	10700	1070	610
FECAL COLIFORM	MF	P31613	240	350	50	500

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

CEDAR SWAMP CREEK PB14b (TIDAL)

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	4	2.4	11.9	7.2	4.4
pH-FIELD	pH	3	6.6	6.9	6.7	(6.7)
pH-LAB	pH	2	6.2	7.1	6.4	(6.5)
SPECIFIC CONDUCTIVITY-FIELD	umhos	4	800	120000	60525	68676
ALKALINITY AS CaCO ₃	mg/l	4	9.51	43.90	21.93	16.17
HARDNESS	mg/l	3	69.4	1953.0	736.5	1055.2
SULFATE(dis)	mg/l	4	37.0	682.0	315.2	309.5
NO ₂ +NO ₃ -N	mg/l	4	<.01	0.10	0.04	0.05
NH ₃ -N	mg/l	4	0.03	0.06	0.05	0.01
TOTAL KJELDAHL-N	mg/l	4	0.53	0.84	0.64	0.15
ORGANIC N	mg/l	4	0.48	0.78	0.59	0.14
TOTAL N	mg/l	4	0.53	0.94	0.67	0.19
TOTAL P as P	mg/l	4	0.03	0.07	0.05	0.02
TOTAL DISSOLVED SOLIDS	mg/l	4	610	10700	4988	4960

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

TRIBUTARY OF CEDAR SWAMP CREEK PB15b (TIDAL)

STATION LOCATION: ROUTE 616 (SOUTH OF SLUICE CREEK), UPPER TOWNSHIP, CAPE MAY COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			8	10	1	4
MONTH			8	10	1	4
DAY			1	31	16	30
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	6	4
AIR TEMPERATURE	deg. C	---	27.0	12.0	8.0	18.0
WATER TEMPERATURE	deg. C	P00010	24.0	10.0	7.5	15.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	3.7	8.6	10.0	5.8
pH-FIELD	pH	P00400	7.0		5.4	6.8
pH-LAB	pH	P00403		6.7		5.8
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	4800	75000	165	120
ALKALINITY AS CaCO3	mg/l	P00410	31.2	29.6	2.1	5.8
HARDNESS	mg/l	P00900		1194.0	2.2	<0.5
SULFATE(dis)	mg/l	---	125.0	372.0	14.8	5.7
NO2+NO3-N	mg/l	P00630	<.01	0.03	0.02	<.01
NH3-N	mg/l	P00610	0.32	0.07	0.05	0.06
TOTAL KJELDAHL-N	mg/l	P00625	0.87	0.41	0.38	0.62
ORGANIC N	mg/l	P00605	0.55	0.34	0.33	0.56
TOTAL N	mg/l	P00600	0.87	0.44	0.40	0.62
TOTAL P as P	mg/l	P00665	0.03	0.03	0.02	0.05
TOTAL DISSOLVED SOLIDS	mg/l	P70300	3014	6350	108	116
FECAL COLIFORM	MF	P31613	>1600	540	50	50

ATLANTIC OCEAN DRAINAGE: TUCKAHOE RIVER BASIN

TRIBUTARY OF CEDAR SWAMP CREEK PB15b (TIDAL)

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	4	3.7	10.0	7.0	2.8
pH-FIELD	pH	3	5.4	7.0	5.8	(6.8)
pH-LAB	pH	2	5.8	6.7	6.0	(6.1)
SPECIFIC CONDUCTIVITY-FIELD	umhos	4	120	75000	20021	36718
ALKALINITY AS CaCO ₃	mg/l	4	2.11	31.20	17.18	15.35
HARDNESS	mg/l	3	<0.5	1194.0	398.7	688.7
SULFATE(dis)	mg/l	4	5.7	372.0	129.4	170.6
NO ₂ +NO ₃ -N	mg/l	4	<.01	0.03	0.01	0.01
NH ₃ -N	mg/l	4	0.05	0.32	0.13	0.13
TOTAL KJELDAHL-N	mg/l	4	0.38	0.87	0.57	0.23
ORGANIC N	mg/l	4	0.33	0.56	0.45	0.13
TOTAL N	mg/l	4	0.40	0.87	0.58	0.21
TOTAL P as P	mg/l	4	0.02	0.05	0.03	0.01
TOTAL DISSOLVED SOLIDS	mg/l	4	108	6350	2397	2969

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

OCEAN COUNTY

CROSSWICKS CREEK BASIN

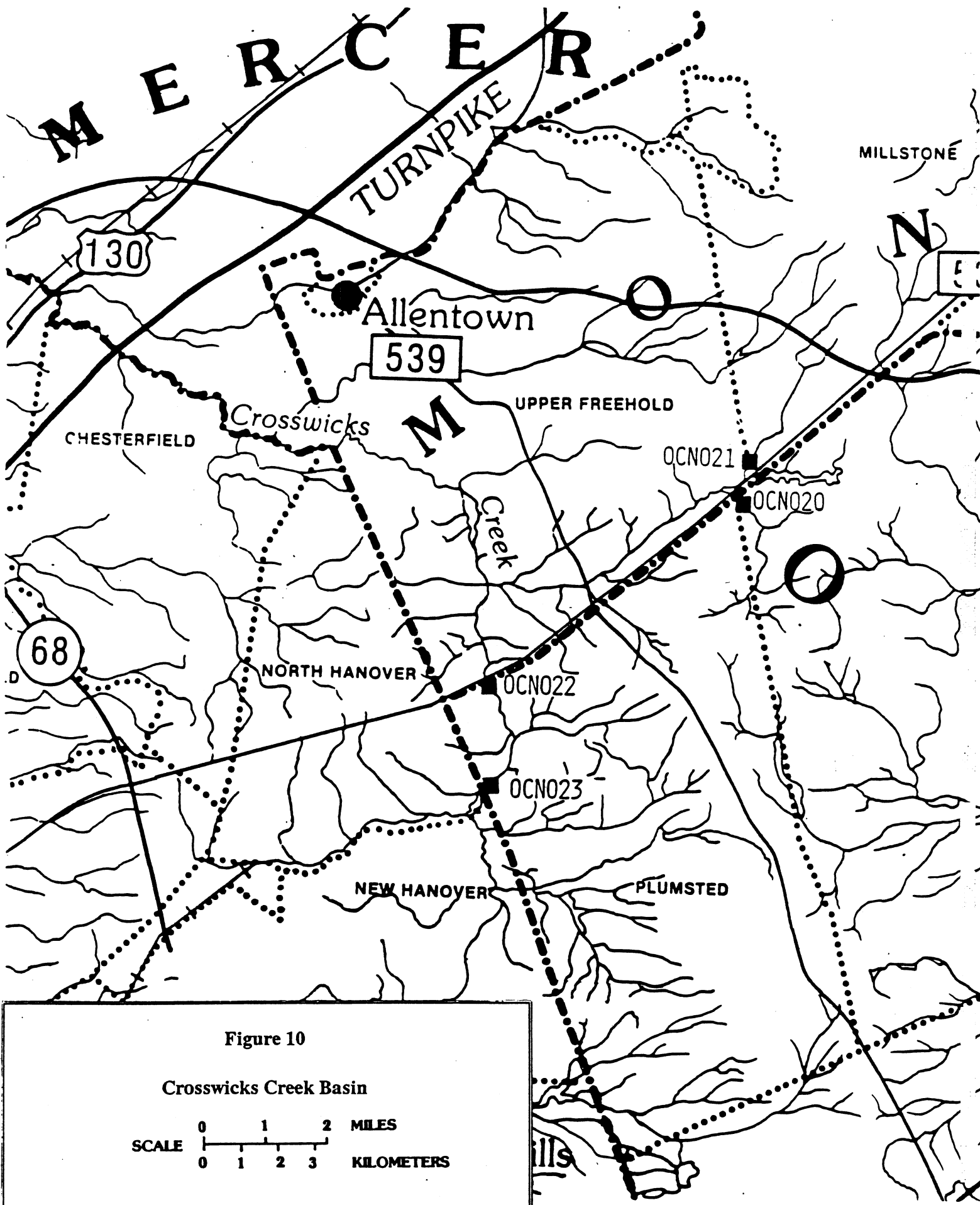


Figure 10

Crosswicks Creek Basin

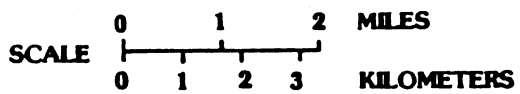


Table 18. Crosswicks Creek Basin, Ocean County, station names and locations

STATION NAME	STATION CODE	STATION LOCATION	CO(1)	TWP(2)	QUAD(3)
CROSSWICKS CREEK					
CROSSWICKS CREEK (4)	OCN023	OAK AVE	OC	PL	2
CROSSWICKS CREEK (4)	OCN022	RT 537	OC	PL	2
LAHAWAY CREEK (4)	OCN021	RT 537, PROSPERTOWN LAKE	OC	JA	Roosevelt*
LAHAWAY CREEK (4)	OCN020	RT 537	OC	JA	Roosevelt*

- (1) Refer to Table 23 for county abbreviations.
- (2) Refer to Table 22 for township abbreviations.
- (3) Refer to Table 24 for quadrangle numbers.
- (4) Site discontinued. See New Jersey Surface Water Quality Data Report, December 1989.

* not a Pinelands quadrangle

OCEAN COUNTY

TOMS RIVER BASIN

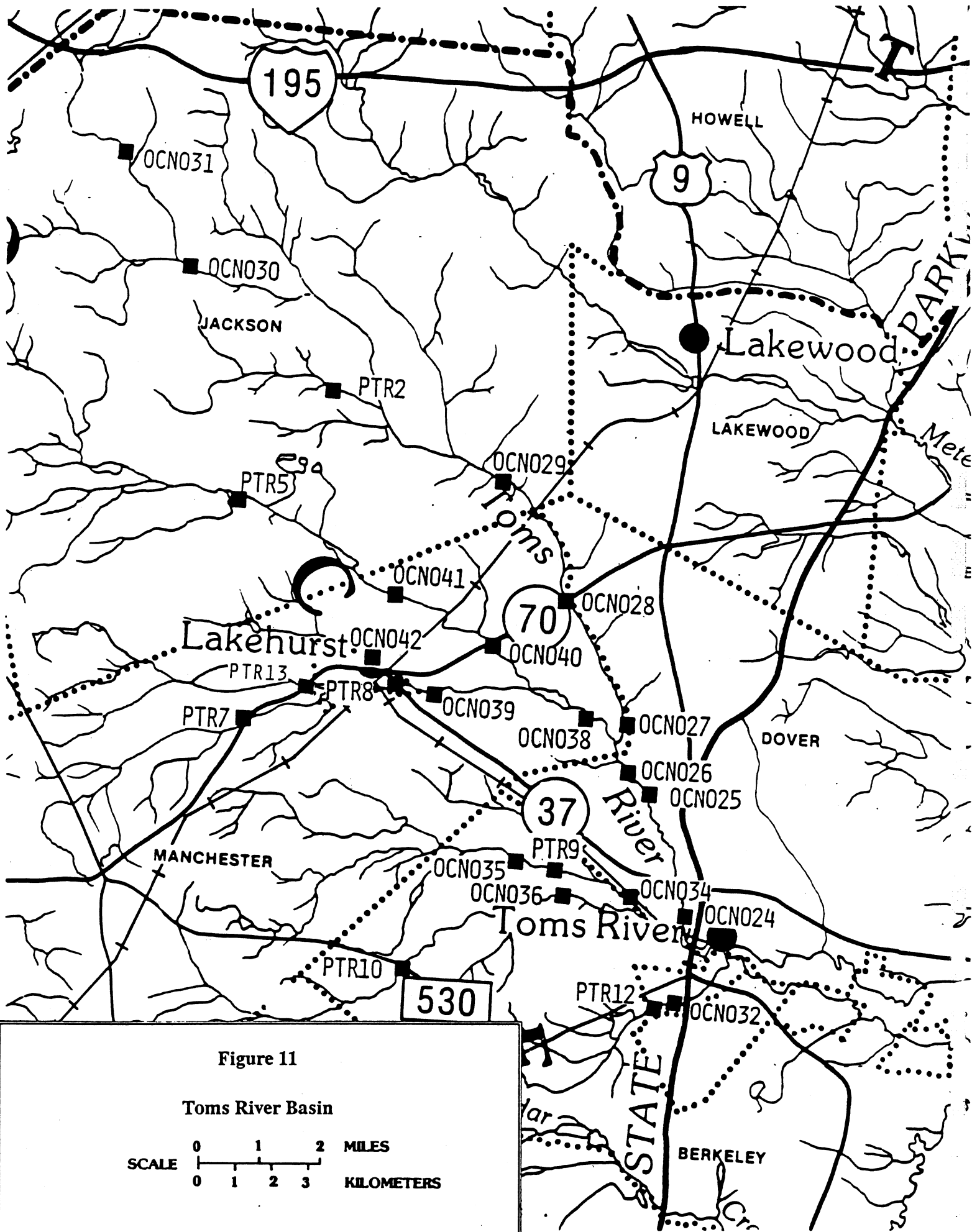


Figure 11

Toms River Basin

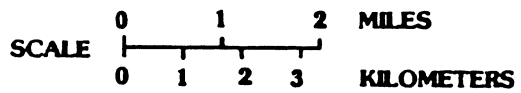


Table 19. Toms River Basin, Ocean County, station names and locations

STATION NAME	STATION CODE	STATION LOCATION	CO(1)	TWP(2)	QUAD(3)
TOMS RIVER					
TOMS RIVER (4)	OCN031	REED RD, NEAR FRANCIS MILLS	OC	JA	Roosevelt*
TOMS RIVER	OCN030	RT 528, NEAR CASSVILLE	OC	JA	4
MAPLE ROOT BRANCH	PTR2	BOWMAN RD	OC	JA	4
TOMS RIVER	OCN029	RT 547	OC	JA	4
TOMS RIVER	OCN028	RT 70 (MILE POST 48)	OC	MN	4
TOMS RIVER (4)	OCN027	RT 571	OC	DO	Lakewood*
BLACKS BRANCH	PTR13	RT 70	OC	MN	4
OLD HURRICANE BROOK	PTR7	RT 70	OC	MN	10
MANPAQUA BROOK (4)	OCN042	RIDGEWAY BLVD	OC	MN	4
UNION BRANCH	PTR8	RT 37	OC	MN	4
UNION BRANCH (4)	OCN039	COLONIAL DRIVE	OC	MN	4
RIDGEWAY BRANCH	PTR5	EASTERN BOUNDARY COLLIERS MILLS	OC	JA	4
RIDGEWAY BRANCH (4)	OCN041	RT 547, NEAR NAVAL AIR STATION	OC	MN	4
RIDGEWAY BRANCH	OCN040	RT 70	OC	MN	4
UNION BRANCH (4)	OCN038	7TH-10TH AVE IN MANCHESTER	OC	MN	Lakewood*
TOMS RIVER (4)	OCN026	CAMP ALBACONDO, NEAR OAKRIDGE PARKWAY	OC	DO	11
TOMS RIVER (4)	OCN025	OAK RIDGE PARKWAY	OC	DO	11
TOMS RIVER (4)	OCN024	RT 527, LAKEHURST RD	OC	DO	11
WRANGLE BROOK (4)	OCN035	END OF GUADELUPE DR, HOLIDAY CITY	OC	BEY	11
WRANGLE BROOK	PTR9	JAMAICA BLVD, HOLIDAY CITY	OC	BEY	11
WRANGLE BROOK (4)	OCN034	S. HAMPTON DR, HOLIDAY CITY	OC	BEY	11
DAVENPORT BRANCH	PTR10	RT 530	OC	BEY	10
DAVENPORT BRANCH	OCN036	MULE RD, HOLIDAY CITY	OC	BEY	11
JAKES BRANCH (5)	PTR12	LAKE INFLOW, END OF CORNELL RD	OC	BEY	11
JAKES BRANCH	OCN032	RT 619 (DOUBLE TROUBLE RD)	OC	BEY	11

(1) Refer to Table 23 for county abbreviations.

(2) Refer to Table 22 for township abbreviations.

(3) Refer to Table 24 for quadrangle numbers.

(4) Site discontinued. See New Jersey Surface Water Quality Data Report, December 1989.

(5) Site discontinued. Only sampled on two quarters for this reporting period.

* not a Pinelands quadrangle

TOMS RIVER BASIN

TOMS RIVER OCN030

STATION LOCATION: ROUTE 528, NEAR CASSVILLE, JACKSON TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	11	3	4
MONTH			9	11	3	4
DAY			25	13	19	23
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	1	0
WATER TEMPERATURE	deg. C	P00010	13.5	6.0	8.5	12.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	9.5	11.5	11.0	10.3
pH-FIELD	pH	P00400	5.5	5.0	5.1	4.7
pH-LAB	pH	P00403	5.3	5.4		5.5
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	52	48	45	45
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1	<1		
ACIDITY	mg/l	P00435		7		14
HARDNESS	mg/l	P00900	16	15	13	14
SULFATE(tot)	mg/l	P00945	15	16	23	7
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.30	0.15	0.50	0.21
NH3-N	mg/l	P00610	0.11		<.05	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.62		0.29	0.25
ORGANIC N	mg/l	P00605	0.51		0.29	0.25
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.92		0.79	0.46
TOTAL ORTHO P AS P	mg/l	P70507		0.01	<.01	<.01
TOTAL P AS P	mg/l	P00665	<.01	<.01	0.02	0.31
TOTAL ORGANIC CARBON	mg/l	P00680				
TURBIDITY	JTU	P00076	2.4	2.4	3.0	2.2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	63	43	59	57
TOTAL SOLIDS	mg/l	P00500				
TOTAL CALCIUM	mg/l	P00916	4.35	2.52		
TOTAL MAGNESIUM	mg/l	P00927	1.41	1.35		

TOMS RIVER BASIN

TOMS RIVER OCN030

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	17	6.8	13.6	10.4	2.1
pH-FIELD	pH	13	4.7	6.5	5.3	(5.3)
pH-LAB	pH	16	4.6	6.6	5.2	(5.5)
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	45	75	51	8
SPECIFIC CONDUCTIVITY-LAB	umhos	5	57	75	62	8
ALKALINITY AS CaCO ₃	mg/l	4	<1	3	1	2
ACIDITY	mg/l	13	1	46	12	12
HARDNESS	mg/l	15	4	55	19	11
SULFATE(tot)	mg/l	17	<1	23	12	5
NO ₂ -N	mg/l	8	<.01	0.01	<.01	<.01
NO ₂ +NO ₃ -N	mg/l	17	0.09	0.65	0.34	0.17
NH ₃ -N	mg/l	12	<.05	0.19	0.07	0.08
TOTAL KJELDAHL-N	mg/l	11	0.25	3.70	0.90	0.96
ORGANIC N	mg/l	11	0.25	3.53	0.84	0.93
NO ₃ -N	mg/l	8	0.09	0.48	0.32	0.17
TOTAL N	mg/l	11	0.46	3.79	1.21	0.89
TOTAL ORTHO P AS P	mg/l	16	<.01	0.07	0.03	0.02
TOTAL P AS P	mg/l	15	<.01	0.31	0.06	0.08
TOTAL ORGANIC CARBON	mg/l	1	6.6	6.6	6.6	
TURBIDITY	JTU	15	0.3	20.0	6.2	5.6
TOTAL DISSOLVED SOLIDS	mg/l	14	42	69	57	9
TOTAL SOLIDS	mg/l	2	54	58	56	3
TOTAL CALCIUM	mg/l	12	1.80	6.24	3.57	1.50
TOTAL MAGNESIUM	mg/l	12	1.22	2.41	1.63	0.32

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

TOMS RIVER BASIN

MAPLE ROOT BRANCH PTR2

STATION LOCATION: BOWMAN ROAD, JACKSON TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	11	3	4
MONTH			9	11	3	4
DAY			25	13	19	23
YEAR			90	90	91	91
WEATHER	code	P00041	0	1	2	0
WATER TEMPERATURE	deg. C	P00010	12.0	6.0	7.5	12.5
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	6.9	8.5	9.8	8.7
pH-FIELD	pH	P00400	3.9	4.0	3.9	4.0
pH-LAB	pH	P00403	3.4	3.8		4.6
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	55	55	39	41
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1	<1		
ACIDITY	mg/l	P00435		23		23
HARDNESS	mg/l	P00900	7	6	6	4
SULFATE(tot)	mg/l	P00945	<1	<1	3	<1
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	<.01	0.01	0.01	0.02
NH3-N	mg/l	P00610	0.18		<.05	0.07
TOTAL KJELDAHL-N	mg/l	P00625	0.60		0.34	0.93
ORGANIC N	mg/l	P00605	0.42		0.34	0.86
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.60		0.35	0.95
TOTAL ORTHO P AS P	mg/l	P70507	0.01	<.01	<.01	<.01
TOTAL P AS P	mg/l	P00665	<.01	<.01	0.01	0.03
TURBIDITY	JTU	P00076	0.8	0.5	2.4	0.7
TOTAL DISSOLVED SOLIDS	mg/l	P70300	53	40	38	44
TOTAL CALCIUM	mg/l	P00916	0.84	1.09		
TOTAL MAGNESIUM	mg/l	P00927	0.61	0.76		

TOMS RIVER BASIN

MAPLE ROOT BRANCH PTR2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	13	4.8	12.9	8.2	2.4
pH-FIELD	pH	12	3.8	4.1	3.9	(4.0)
pH-LAB	pH	12	3.4	4.6	3.8	(3.8)
SPECIFIC CONDUCTIVITY-FIELD	umhos	11	39	60	51	7
SPECIFIC CONDUCTIVITY-LAB	umhos	2	52	57	55	4
ALKALINITY AS CaCO ₃	mg/l	4	<1	<1	<1	
ACIDITY	mg/l	9	1	50	27	13
HARDNESS	mg/l	13	4	19	7	4
SULFATE(tot)	mg/l	13	<1	17	8	7
NO ₂ -N	mg/l	6	<.01	0.01	<.01	<.01
NO ₂ +NO ₃ -N	mg/l	13	<.01	0.08	0.02	0.02
NH ₃ -N	mg/l	10	<.05	0.18	0.05	0.07
TOTAL KJELDAHL-N	mg/l	10	0.34	0.96	0.61	0.20
ORGANIC N	mg/l	10	0.29	0.96	0.56	0.22
NO ₃ -N	mg/l	6	<.01	0.05	0.02	0.02
TOTAL N	mg/l	10	0.35	1.01	0.63	0.21
TOTAL ORTHO P AS P	mg/l	13	<.01	0.02	0.01	0.01
TOTAL P AS P	mg/l	13	<.01	0.04	0.01	0.01
TURBIDITY	JTU	12	0.1	13.5	2.3	3.6
TOTAL DISSOLVED SOLIDS	mg/l	13	21	61	43	11
TOTAL CALCIUM	mg/l	11	0.49	2.33	1.02	0.50
TOTAL MAGNESIUM	mg/l	11	0.46	1.22	0.80	0.26

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

TOMS RIVER BASIN

TOMS RIVER 0CNO29

STATION LOCATION: ROUTE 547, JACKSON TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
MONTH			9	11	3	4
DAY			25	13	19	23
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	1	0
WATER TEMPERATURE	deg. C	P00010	13.0	6.0	9.0	12.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	8.9	9.7	10.9	10.0
pH-FIELD	pH	P00400	4.5	4.6	4.7	4.5
pH-LAB	pH	P00403	4.0	4.6		5.0
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	52	45	42	40
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1	<1		
ACIDITY	mg/l	P00435		15		13
HARDNESS	mg/l	P00900	12	17	14	10
SULFATE(tot)	mg/l	P00945	16	7	22	<1
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.14	0.07	0.29	0.05
NH3-N	mg/l	P00610	0.08		<.05	0.05
TOTAL KJELDAHL-N	mg/l	P00625	0.54		0.31	0.60
ORGANIC N	mg/l	P00605	0.46		0.31	0.55
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.68		0.60	0.65
TOTAL ORTHO P AS P	mg/l	P70507			<.01	<.01
TOTAL P AS P	mg/l	P00665	<.01	<.01	0.02	0.02
TOTAL ORGANIC CARBON	mg/l	P00680				
TURBIDITY	JTU	P00076	1.4	1.3	2.4	1.5
TOTAL DISSOLVED SOLIDS	mg/l	P70300	65	58	53	40
TOTAL SOLIDS	mg/l	P00500				
TOTAL CALCIUM	mg/l	P00916	3.35	1.88		
TOTAL MAGNESIUM	mg/l	P00927	1.12	1.26		

TOMS RIVER BASIN

TOMS RIVER OCN029

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	15	7.0	13.2	10.1	1.9
pH-FIELD	pH	13	4.5	6.0	4.8	(4.7)
pH-LAB	pH	15	4.0	6.2	4.7	(4.9)
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	38	65	49	8
SPECIFIC CONDUCTIVITY-LAB	umhos	4	54	83	64	13
ALKALINITY AS CaCO ₃	mg/l	4	<1	<1	<1	
ACIDITY	mg/l	12	3	50	15	13
HARDNESS	mg/l	15	2	21	14	5
SULFATE(tot)	mg/l	16	<1	22	11	6
NO ₂ -N	mg/l	9	<.01	0.01	<.01	<.01
NO ₂ +NO ₃ -N	mg/l	16	0.02	0.59	0.29	0.18
NH ₃ -N	mg/l	12	<.05	0.19	0.05	0.07
TOTAL KJELDAHL-N	mg/l	11	0.31	1.00	0.64	0.19
ORGANIC N	mg/l	11	0.31	1.00	0.60	0.21
NO ₃ -N	mg/l	9	0.02	0.59	0.37	0.18
TOTAL N	mg/l	11	0.60	1.59	0.90	0.30
TOTAL ORTHO P AS P	mg/l	13	<.01	0.04	0.02	0.01
TOTAL P AS P	mg/l	14	<.01	0.06	0.03	0.02
TOTAL ORGANIC CARBON	mg/l	1	9.5	9.5	9.5	
TURBIDITY	JTU	14	0.3	17.0	4.1	4.2
TOTAL DISSOLVED SOLIDS	mg/l	14	40	71	55	10
TOTAL SOLIDS	mg/l	1	53	53	53	
TOTAL CALCIUM	mg/l	12	1.88	4.91	3.37	1.08
TOTAL MAGNESIUM	mg/l	12	1.05	2.37	1.46	0.41

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

TOMS RIVER BASIN

TOMS RIVER OCN028

STATION LOCATION: ROUTE 70 AT MILE MARKER 48, MANCHESTER TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	11	3	4
MONTH			9	11	3	4
DAY			25	13	19	23
YEAR			90	90	91	91
WEATHER	code	P00041	0	1	1	0
WATER TEMPERATURE	deg. C	P00010	13.5	6.0	8.5	12.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	9.3	10.3	10.7	9.8
pH-FIELD	pH	P00400	4.6	4.8	5.0	4.5
pH-LAB	pH	P00403	4.2	4.9		5.2
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	55	48	42	40
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO ₃	mg/l	P00410	<1	<1		
ACIDITY	mg/l	P00435		17		17
HARDNESS	mg/l	P00900	14	16	16	7
SULFATE(tot)	mg/l	P00945	18	3	21	<1
NO ₂ -N	mg/l	P00615				
NO ₂ +NO ₃ -N	mg/l	P00630	0.18	0.14	0.40	0.09
NH ₃ -N	mg/l	P00610	0.19		0.16	0.07
TOTAL KJELDAHL-N	mg/l	P00625	0.53		0.45	0.51
ORGANIC N	mg/l	P00605	0.34		0.29	0.44
NO ₃ -N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.71		0.85	0.60
TOTAL ORTHO P AS P	mg/l	P70507	0.01	0.01	<.01	<.01
TOTAL P AS P	mg/l	P00665	<.01	0.02	0.02	0.10
TOTAL ORGANIC CARBON	mg/l	P00680				
TURBIDITY	JTU	P00076	1.1	1.4	2.1	1.7
TOTAL DISSOLVED SOLIDS	mg/l	P70300	61	59	50	40
TOTAL SOLIDS	mg/l	P00500				
TOTAL CALCIUM	mg/l	P00916	3.15	1.98		
TOTAL MAGNESIUM	mg/l	P00927	1.10	1.52		

TOMS RIVER BASIN

TOMS RIVER OCN028

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	17	7.8	13.2	10.5	1.8
pH-FIELD	pH	13	4.5	6.2	4.8	(4.9)
pH-LAB	pH	16	4.1	6.1	4.7	(5.2)
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	32	79	53	12
SPECIFIC CONDUCTIVITY-LAB	umhos	5	56	68	64	5
ALKALINITY AS CaCO ₃	mg/l	4	<1	1	<1	<1
ACIDITY	mg/l	13	3	35	13	10
HARDNESS	mg/l	15	3	22	14	5
SULFATE(tot)	mg/l	17	<1	21	11	6
NO ₂ -N	mg/l	8	<.01	0.04	0.01	0.01
NO ₂ +NO ₃ -N	mg/l	17	0.04	0.84	0.39	0.23
NH ₃ -N	mg/l	12	<.05	0.41	0.17	0.11
TOTAL KJELDAHL-N	mg/l	11	0.45	2.12	0.87	0.47
ORGANIC N	mg/l	11	0.29	2.02	0.70	0.49
NO ₃ -N	mg/l	8	0.04	0.80	0.42	0.25
TOTAL N	mg/l	11	0.60	2.96	1.22	0.68
TOTAL ORTHO P AS P	mg/l	16	<.01	0.06	0.02	0.02
TOTAL P AS P	mg/l	14	<.01	0.10	0.03	0.03
TOTAL ORGANIC CARBON	mg/l	1	8.3	8.3	8.3	
TURBIDITY	JTU	15	0.3	13.6	3.6	3.4
TOTAL DISSOLVED SOLIDS	mg/l	14	40	72	56	9
TOTAL SOLIDS	mg/l	2	53	57	55	3
TOTAL CALCIUM	mg/l	12	1.81	4.18	3.00	0.76
TOTAL MAGNESIUM	mg/l	12	0.73	3.38	1.56	0.66

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

TOMS RIVER BASIN

BLACKS BRANCH PTR13

STATION LOCATION: ROUTE 70, MANCHESTER TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			2	4
DAY			26	23
YEAR			91	91
WEATHER	code	P00041	7	0
WATER TEMPERATURE	deg. C	P00010	5.0	9.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	10.6	8.8
pH-FIELD	pH	P00400	4.4	4.2
pH-LAB	pH	P00403	4.3	5.0
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	28	32
ACIDITY	mg/l	P00435	8	21
HARDNESS	mg/l	P00900	6	5
SULFATE(tot)	mg/l	P00945	7	<1
NO2+NO3-N	mg/l	P00630	0.16	0.02
NH3-N	mg/l	P00610		0.05
TOTAL KJELDAHL-N	mg/l	P00625		0.28
ORGANIC N	mg/l	P00605		0.23
TOTAL N	mg/l	P00600		0.30
TOTAL ORTHO P AS P	mg/l	P70507	0.01	
TOTAL P AS P	mg/l	P00665	0.02	<.01
TURBIDITY	JTU	P00076	1.4	0.7
TOTAL DISSOLVED SOLIDS	mg/l	P70300	25	24

TOMS RIVER BASIN

BLACKS BRANCH PTR13

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	2	8.8	10.6	9.7	1.3
pH-FIELD	pH	2	4.2	4.4	4.3	(4.3)
pH-LAB	pH	2	4.3	5.0	4.5	(4.5)
SPECIFIC CONDUCTIVITY-FIELD	umhos	2	28	32	30	3
ACIDITY	mg/l	2	8	21	15	9
HARDNESS	mg/l	2	5	6	6	1
SULFATE(tot)	mg/l	2	<1	7	4	5
NO2+NO3-N	mg/l	2	0.02	0.16	0.09	0.10
NH3-N	mg/l	1	0.05	0.05	0.05	
TOTAL KJELDAHL-N	mg/l	1	0.28	0.28	0.28	
ORGANIC N	mg/l	1	0.23	0.23	0.23	
TOTAL N	mg/l	1	0.30	0.30	0.30	
TOTAL ORTHO P AS P	mg/l	1	0.01	0.01	0.01	
TOTAL P AS P	mg/l	2	<.01	0.02	0.01	0.01
TURBIDITY	JTU	2	0.7	1.4	1.1	0.5
TOTAL DISSOLVED SOLIDS	mg/l	2	24	25	25	1

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

TOMS RIVER BASIN

OLD HURRICANE BROOK PTR7

STATION LOCATION: ROUTE 70, MANCHESTER TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	11	2	4
MONTH			9	11	2	4
DAY			25	13	26	23
YEAR			90	90	91	91
WEATHER	code	P00041	0	1	7	0
WATER TEMPERATURE	deg. C	P00010	12.5	6.0	4.5	10.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	6.8	8.5	10.7	8.5
pH-FIELD	pH	P00400	4.1	4.3	4.2	4.0
pH-LAB	pH	P00403	3.6	3.9	4.0	4.6
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	50	41	40	49
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1	<1		
ACIDITY	mg/l	P00435		15	13	
HARDNESS	mg/l	P00900	4	11	7	7
SULFATE(tot)	mg/l	P00945	<1	<1	<1	<1
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.02	0.01	0.11	0.02
NH3-N	mg/l	P00610	0.10		0.07	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.48			0.24
ORGANIC N	mg/l	P00605	0.38			0.24
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.50			0.26
TOTAL ORTHO P AS P	mg/l	P70507		<.01	0.01	0.01
TOTAL P AS P	mg/l	P00665	<.01	<.01	0.01	0.01
TURBIDITY	JTU	P00076	0.5	0.6	1.7	0.7
TOTAL DISSOLVED SOLIDS	mg/l	P70300	43	61	31	30
TOTAL CALCIUM	mg/l	P00916	0.78	0.68		
TOTAL MAGNESIUM	mg/l	P00927	0.52	0.71		

TOMS RIVER BASIN

OLD HURRICANE BROOK PTR7

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	14	6.2	12.8	9.5	2.1
pH-FIELD	pH	13	4.0	4.3	4.1	(4.1)
pH-LAB	pH	14	3.5	4.6	3.9	(4.0)
SPECIFIC CONDUCTIVITY-FIELD	umhos	11	40	70	48	9
SPECIFIC CONDUCTIVITY-LAB	umhos	2	47	66	57	13
ALKALINITY AS CaCO ₃	mg/l	4	<1	<1	<1	
ACIDITY	mg/l	10	5	83	22	22
HARDNESS	mg/l	14	3	12	7	3
SULFATE(tot)	mg/l	14	<1	10	5	4
NO ₂ -N	mg/l	6	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	14	<.01	0.11	0.04	0.03
NH ₃ -N	mg/l	11	<.05	0.10	<.05	<.05
TOTAL KJELDAHL-N	mg/l	10	0.15	0.84	0.44	0.25
ORGANIC N	mg/l	10	0.15	0.84	0.43	0.25
NO ₃ -N	mg/l	6	0.01	0.07	0.04	0.03
TOTAL N	mg/l	10	0.18	0.88	0.48	0.25
TOTAL ORTHO P AS P	mg/l	12	<.01	0.01	<.01	<.01
TOTAL P AS P	mg/l	13	<.01	0.02	0.01	0.01
TURBIDITY	JTU	13	0.5	3.5	1.5	0.9
TOTAL DISSOLVED SOLIDS	mg/l	14	26	61	40	9
TOTAL CALCIUM	mg/l	12	0.50	1.39	0.78	0.23
TOTAL MAGNESIUM	mg/l	12	0.43	1.12	0.68	0.19

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

TOMS RIVER BASIN

UNION BRANCH PTR8

STATION LOCATION: ROUTE 37, MANCHESTER TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	11	2	4
MONTH			9	11	2	4
DAY			18	13	26	23
YEAR			90	90	91	91
WEATHER	code	P00041	0	1	7	0
WATER TEMPERATURE	deg. C	P00010	18.0	6.0	5.0	10.5
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	7.6	11.6	11.8	10.3
pH-FIELD	pH	P00400	4.3	4.4	4.3	4.1
pH-LAB	pH	P00403	4.0	4.3	4.1	4.8
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	40	40	35	45
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1	<1		
ACIDITY	mg/l	P00435		12	11	13
HARDNESS	mg/l	P00900	9	12	7	5
SULFATE(tot)	mg/l	P00945	10	12	10	12
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.05	0.04	0.14	0.03
NH3-N	mg/l	P00610	0.08		0.07	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.58		0.06	0.22
ORGANIC N	mg/l	P00605	0.50		<.05	0.22
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.63		0.20	0.25
TOTAL ORTHO P AS P	mg/l	P70507	0.02	0.01	0.01	<.01
TOTAL P AS P	mg/l	P00665	0.02	<.01	0.02	<.01
TURBIDITY	JTU	P00076	2.5	1.1	1.3	0.9
TOTAL DISSOLVED SOLIDS	mg/l	P70300	56	38	27	25
TOTAL CALCIUM	mg/l	P00916	0.86	0.83		
TOTAL MAGNESIUM	mg/l	P00927	0.49	0.63		

TOMS RIVER BASIN

UNION BRANCH PTRB

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	14	6.4	13.2	10.2	2.4
pH-FIELD	pH	13	4.1	4.5	4.2	(4.3)
pH-LAB	pH	13	3.7	4.8	4.1	(4.1)
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	35	55	44	7
SPECIFIC CONDUCTIVITY-LAB	umhos	2	49	67	58	13
ALKALINITY AS CaCO3	mg/l	4	<1	<1	<1	
ACIDITY	mg/l	10	6	62	20	16
HARDNESS	mg/l	14	5	12	7	2
SULFATE(tot)	mg/l	14	7	17	11	3
NO2-N	mg/l	6	<.01	<.01	<.01	
NO2+NO3-N	mg/l	14	0.02	0.14	0.06	0.03
NH3-N	mg/l	11	<.05	0.08	<.05	<.05
TOTAL KJELDAHL-N	mg/l	11	0.06	1.02	0.43	0.30
ORGANIC N	mg/l	11	<.05	1.02	0.42	0.30
NO3-N	mg/l	6	0.02	0.10	0.07	0.03
TOTAL N	mg/l	11	0.19	1.10	0.50	0.30
TOTAL ORTHO P AS P	mg/l	14	<.01	0.02	<.01	0.01
TOTAL P AS P	mg/l	14	<.01	0.05	0.01	0.02
TURBIDITY	JTU	13	0.9	4.0	2.1	1.1
TOTAL DISSOLVED SOLIDS	mg/l	14	21	56	38	9
TOTAL CALCIUM	mg/l	12	0.58	1.49	0.98	0.25
TOTAL MAGNESIUM	mg/l	12	0.49	1.18	0.73	0.20

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

TOMS RIVER BASIN

RIDGEWAY BRANCH PTR5

STATION LOCATION: EASTERN BOUNDARY OF COLLIERS MILLS, JACKSON TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	11	3	4
MONTH			9	11	3	4
DAY			25	13	19	23
YEAR			90	90	91	91
WEATHER	code	P00041	0	1	2	0
WATER TEMPERATURE	deg. C	P00010	13.0	5.5	8.0	10.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	7.5	9.5	10.0	9.8
pH-FIELD	pH	P00400	4.1	4.1	4.1	4.1
pH-LAB	pH	P00403	3.7	4.0		4.6
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	43	40	40	40
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1	<1		
ACIDITY	mg/l	P00435		20		20
HARDNESS	mg/l	P00900	11	21	5	6
SULFATE(tot)	mg/l	P00945	<1	<1	5	<1
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.02	0.03	0.04	0.02
NH3-N	mg/l	P00610	0.13		<.05	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.69		0.29	0.36
ORGANIC N	mg/l	P00605	0.56		0.29	0.36
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.71		0.33	0.38
TOTAL ORTHO P AS P	mg/l	P70507		<.01	<.01	
TOTAL P AS P	mg/l	P00665	<.01	<.01	0.01	0.05
TURBIDITY	JTU	P00076	1.2	1.2	1.3	0.9
TOTAL DISSOLVED SOLIDS	mg/l	P70300	51	42	34	44
TOTAL CALCIUM	mg/l	P00916	1.20	1.99		
TOTAL MAGNESIUM	mg/l	P00927	0.61	0.87		

TOMS RIVER BASIN

RIDGWAY BRANCH PTR5

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	14	6.3	12.6	9.2	2.3
pH-FIELD	pH	13	3.9	4.2	4.1	(4.1)
pH-LAB	pH	13	3.7	4.6	3.9	(3.9)
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	35	53	46	6
SPECIFIC CONDUCTIVITY-LAB	umhos	2	48	56	52	5
ALKALINITY AS CaCO ₃	mg/l	4	<1	<1	<1	
ACIDITY	mg/l	10	10	47	25	11
HARDNESS	mg/l	14	4	21	11	6
SULFATE(tot)	mg/l	14	<1	22	9	7
NO ₂ -N	mg/l	6	<.01	0.01	<.01	<.01
NO ₂ +NO ₃ -N	mg/l	14	<.01	0.08	0.03	0.03
NH ₃ -N	mg/l	11	<.05	0.16	0.05	0.06
TOTAL KJELDAHL-N	mg/l	11	0.29	1.00	0.59	0.22
ORGANIC N	mg/l	11	0.24	1.00	0.54	0.23
NO ₃ -N	mg/l	6	<.01	0.08	0.03	0.03
TOTAL N	mg/l	11	0.33	1.08	0.63	0.22
TOTAL ORTHO P AS P	mg/l	11	<.01	0.04	0.01	0.01
TOTAL P AS P	mg/l	13	<.01	0.05	0.02	0.02
TURBIDITY	JTU	13	0.1	10.4	2.4	2.5
TOTAL DISSOLVED SOLIDS	mg/l	14	24	65	45	11
TOTAL CALCIUM	mg/l	12	0.89	2.95	1.80	0.70
TOTAL MAGNESIUM	mg/l	12	0.57	1.33	0.96	0.27

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

TOMS RIVER BASIN

RIDGEWAY BRANCH OCN040

STATION LOCATION: ROUTE 70, MANCHESTER TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	11	3	4
MONTH			9	11	3	4
DAY			18	13	19	23
YEAR			90	90	91	91
WEATHER	code	P00041	0	1	1	0
WATER TEMPERATURE	deg. C	P00010	16.0	6.0	8.5	12.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	8.8	10.4	10.7	9.9
pH-FIELD	pH	P00400	4.5	4.3	4.2	4.2
pH-LAB	pH	P00403	4.2	4.7		4.9
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	40	38	39	40
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO ₃	mg/l	P00410	<1	<1		
ACIDITY	mg/l	P00435		13		21
HARDNESS	mg/l	P00900	16	14	5	8
SULFATE(tot)	mg/l	P00945	<1	2	15	<1
NO ₂ -N	mg/l	P00615				
NO ₂ +NO ₃ -N	mg/l	P00630	0.17	0.05	0.17	0.03
NH ₃ -N	mg/l	P00610	0.10		<.05	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.81		0.26	0.32
ORGANIC N	mg/l	P00605	0.71		0.26	0.32
NO ₃ -N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.98		0.43	0.35
TOTAL ORTHO P AS P	mg/l	P70507	0.03	<.01	<.01	<.01
TOTAL P AS P	mg/l	P00665	0.12	<.01	0.01	<.01
TOTAL ORGANIC CARBON	mg/l	P00680				
TURBIDITY	JTU	P00076	2.1	1.9	1.4	1.3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	67	44	45	25
TOTAL SOLIDS	mg/l	P00500				
TOTAL CALCIUM	mg/l	P00916	1.68	1.02		
TOTAL MAGNESIUM	mg/l	P00927	0.74	0.76		

TOMS RIVER BASIN

RIDGEWAY BRANCH OCN040

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	17	7.3	13.4	10.2	2.0
pH-FIELD	pH	12	4.0	4.5	4.3	(4.3)
pH-LAB	pH	16	3.9	5.3	4.2	(4.3)
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	38	50	44	5
SPECIFIC CONDUCTIVITY-LAB	umhos	5	48	62	53	5
ALKALINITY AS CaCO ₃	mg/l	4	<1	<1	<1	
ACIDITY	mg/l	13	4	41	18	10
HARDNESS	mg/l	15	2	16	10	3
SULFATE(tot)	mg/l	17	<1	20	9	6
NO ₂ -N	mg/l	8	<.01	0.01	<.01	<.01
NO ₂ +NO ₃ -N	mg/l	17	0.03	0.73	0.21	0.19
NH ₃ -N	mg/l	12	<.05	0.26	0.07	0.08
TOTAL KJELDAHL-N	mg/l	11	0.26	1.02	0.58	0.24
ORGANIC N	mg/l	11	0.25	0.93	0.52	0.21
NO ₃ -N	mg/l	8	0.04	0.50	0.18	0.16
TOTAL N	mg/l	11	0.35	1.31	0.75	0.28
TOTAL ORTHO P AS P	mg/l	16	<.01	0.11	0.02	0.03
TOTAL P AS P	mg/l	14	<.01	0.12	0.03	0.03
TOTAL ORGANIC CARBON	mg/l	1	11.9	11.9	11.9	
TURBIDITY	JTU	15	0.1	14.6	3.3	3.5
TOTAL DISSOLVED SOLIDS	mg/l	14	25	106	52	20
TOTAL SOLIDS	mg/l	2	47	54	51	5
TOTAL CALCIUM	mg/l	12	1.02	8.00	2.26	1.86
TOTAL MAGNESIUM	mg/l	12	0.74	1.90	1.12	0.34

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

TOMS RIVER BASIN

WRANGLE BROOK PTR9

STATION LOCATION: JAMAICA BLVD IN HOLIDAY CITY, BERKLEY TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
MONTH			9	11	2	4
DAY			25	27	26	23
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	7	0
WATER TEMPERATURE	deg. C	P00010	13.5	11.0	7.0	10.5
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	9.2	9.8	10.6	9.9
pH-FIELD	pH	P00400	4.7	4.7	4.6	4.4
pH-LAB	pH	P00403	4.1	4.6	4.5	5.0
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	40	41	35	40
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1			
ACIDITY	mg/l	P00435		7	9	15
HARDNESS	mg/l	P00900	8	11	8	8
SULFATE(tot)	mg/l	P00945	13	10	8	<1
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.49	0.72	0.77	0.28
NH3-N	mg/l	P00610	0.07	0.05	<.05	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.49		0.08	0.31
ORGANIC N	mg/l	P00605	0.42		0.08	0.31
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.98		0.85	0.59
TOTAL ORTHO P AS P	mg/l	P70507	0.01	<.01	0.01	0.01
TOTAL P AS P	mg/l	P00665	<.01	0.01	0.02	0.02
TURBIDITY	JTU	P00076	1.2	0.9	1.8	1.3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	37	23	34	32
TOTAL CALCIUM	mg/l	P00916	1.98	1.47		
TOTAL MAGNESIUM	mg/l	P00927	0.85	0.89		

TOMS RIVER BASIN

WRANGLE BROOK PTR9

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	14	8.2	11.5	10.0	1.1
pH-FIELD	pH	13	4.4	4.8	4.6	(4.6)
pH-LAB	pH	13	4.0	5.0	4.3	(4.5)
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	35	55	42	7
SPECIFIC CONDUCTIVITY-LAB	umhos	2	42	58	50	12
ALKALINITY AS CaCO ₃	mg/l	3	<1	<1	<1	
ACIDITY	mg/l	10	3	50	15	13
HARDNESS	mg/l	14	6	13	9	2
SULFATE(tot)	mg/l	14	<1	16	9	4
NO ₂ -N	mg/l	6	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	14	0.28	0.82	0.57	0.17
NH ₃ -N	mg/l	12	<.05	0.10	<.05	<.05
TOTAL KJELDAHL-N	mg/l	11	0.05	0.86	0.38	0.28
ORGANIC N	mg/l	11	0.05	0.86	0.36	0.26
NO ₃ -N	mg/l	6	0.52	0.75	0.62	0.09
TOTAL N	mg/l	11	0.44	1.52	0.97	0.34
TOTAL ORTHO P AS P	mg/l	13	<.01	0.02	0.01	0.01
TOTAL P AS P	mg/l	13	<.01	0.03	0.01	0.01
TURBIDITY	JTU	13	0.9	3.4	2.0	0.7
TOTAL DISSOLVED SOLIDS	mg/l	14	23	51	37	8
TOTAL CALCIUM	mg/l	12	1.10	4.00	1.96	0.84
TOTAL MAGNESIUM	mg/l	12	0.70	1.36	0.93	0.17

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

TOMS RIVER BASIN

DAVENPORT BRANCH PTR10

STATION LOCATION: ROUTE 530, BERKLEY TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
MONTH			9	11	2	4
DAY			18	27	29	30
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	7	2
WATER TEMPERATURE	deg. C	P00010	17.5	10	4.5	14.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	6.7	10.2	11.0	8.5
pH-FIELD	pH	P00400	4.5	4.7	4.4	4.4
pH-LAB	pH	P00403	4.1	4.5	4.2	3.9
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	33	40	31	40
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1			
ACIDITY	mg/l	P00435		8	10	14
HARDNESS	mg/l	P00900	11	5	6	4
SULFATE(tot)	mg/l	P00945	10	10	8	<1
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.03	0.05	0.20	0.02
NH3-N	mg/l	P00610	0.08	<.05	0.06	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.56		0.05	0.24
ORGANIC N	mg/l	P00605	0.48		<.05	0.24
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.59		0.25	0.26
TOTAL ORTHO P AS P	mg/l	P70507	0.01	<.01	0.01	<.01
TOTAL P AS P	mg/l	P00665	<.01	0.04	0.01	<.01
TURBIDITY	JTU	P00076	1.2	0.8	1.8	1.8
TOTAL DISSOLVED SOLIDS	mg/l	P70300	45	28	29	29
TOTAL CALCIUM	mg/l	P00916	0.63	2.37		
TOTAL MAGNESIUM	mg/l	P00927	0.57	0.90		

TOMS RIVER BASIN

DAVENPORT BRANCH PTR10

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	14	5.6	12.9	9.4	2.4
pH-FIELD	pH	13	4.3	4.7	4.4	(4.4)
pH-LAB	pH	13	3.6	4.6	4.1	(4.2)
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	28	50	36	7
SPECIFIC CONDUCTIVITY-LAB	umhos	2	35	57	46	15
ALKALINITY AS CaCO ₃	mg/l	3	<1	<1	<1	
ACIDITY	mg/l	10	4	50	16	13
HARDNESS	mg/l	14	3	11	6	2
SULFATE(tot)	mg/l	14	<1	14	7	4
NO ₂ -N	mg/l	6	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	14	<.01	0.20	0.06	0.07
NH ₃ -N	mg/l	12	<.05	0.40	0.06	0.12
TOTAL KJELDAHL-N	mg/l	11	0.05	0.86	0.42	0.27
ORGANIC N	mg/l	11	<.05	0.86	0.36	0.30
NO ₃ -N	mg/l	6	<.01	0.12	0.06	0.05
TOTAL N	mg/l	11	0.20	0.90	0.49	0.25
TOTAL ORTHO P AS P	mg/l	14	<.01	0.02	<.01	0.01
TOTAL P AS P	mg/l	14	<.01	0.04	0.01	0.01
TURBIDITY	JTU	13	0.8	3.0	1.5	0.6
TOTAL DISSOLVED SOLIDS	mg/l	14	20	45	32	7
TOTAL CALCIUM	mg/l	12	0.50	3.68	1.28	0.95
TOTAL MAGNESIUM	mg/l	12	0.57	1.29	0.80	0.23

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

TOMS RIVER BASIN

DAVENPORT BRANCH OCN036

STATION LOCATION: MULE ROAD IN HOLIDAY CITY, BERKLEY TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	11	2	4
MONTH			9	11	2	4
DAY			25	27	26	30
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	7	2
WATER TEMPERATURE	deg. C	P00010	14.0	12.0	6.5	15.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	10.4	10.9	11.8	10.4
pH-FIELD	pH	P00400	4.6	4.7	4.6	4.6
pH-LAB	pH	P00403	4.3	4.5	4.4	4.2
GAGE HEIGHT	ft	P00065				
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	31	31	28	32
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1			
ACIDITY	mg/l	P00435		6	8	9
HARDNESS	mg/l	P00900	5	5	7	5
SULFATE(tot)	mg/l	P00945	8	9	5	9
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.21	0.32	0.40	0.21
NH3-N	mg/l	P00610	<.05	<.05	0.05	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.42		0.05	0.25
ORGANIC N	mg/l	P00605	0.42		<.05	0.25
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.63		0.45	0.46
TOTAL ORTHO P AS P	mg/l	P70507		<.01	<.01	<.01
TOTAL P AS P	mg/l	P00665	<.01	<.01	0.01	<.01
TOTAL ORGANIC CARBON	mg/l	P00680				
TURBIDITY	JTU	P00076	0.8	0.6	1.2	2.8
TOTAL DISSOLVED SOLIDS	mg/l	P70300	27	25	28	45
TOTAL SOLIDS	mg/l	P00500				
TOTAL CALCIUM	mg/l	P00916	0.97	0.89		
TOTAL MAGNESIUM	mg/l	P00927	0.69	0.71		

TOMS RIVER BASIN

DAVENPORT BRANCH OCN036

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	16	9.0	12.5	10.9	1.0
pH-FIELD	pH	13	4.5	5.3	4.6	(4.6)
pH-LAB	pH	16	3.9	5.2	4.3	(4.4)
GAGE HEIGHT	ft	1	0.5	0.5	0.5	
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	22	45	31	7
SPECIFIC CONDUCTIVITY-LAB	umhos	5	30	49	37	8
ALKALINITY AS CaCO ₃	mg/l	3	<1	<1	<1	
ACIDITY	mg/l	13	5	44	12	10
HARDNESS	mg/l	16	3	13	6	3
SULFATE(tot)	mg/l	17	3	9	6	2
NO ₂ -N	mg/l	9	<.01	0.01	<.01	<.01
NO ₂ +NO ₃ -N	mg/l	17	0.10	0.40	0.21	0.08
NH ₃ -N	mg/l	13	<.05	0.09	<.05	<.05
TOTAL KJELDAHL-N	mg/l	11	<.05	0.74	0.36	0.27
ORGANIC N	mg/l	11	<.05	0.74	0.34	0.29
NO ₃ -N	mg/l	8	0.13	0.26	0.20	0.04
TOTAL N	mg/l	11	0.26	0.98	0.57	0.26
TOTAL ORTHO P AS P	mg/l	16	<.01	0.02	<.01	0.01
TOTAL P AS P	mg/l	16	<.01	0.02	<.01	0.01
TOTAL ORGANIC CARBON	mg/l	1	4.3	4.3	4.3	
TURBIDITY	JTU	15	0.6	6.0	2.3	1.6
TOTAL DISSOLVED SOLIDS	mg/l	14	17	45	30	9
TOTAL SOLIDS	mg/l	2	20	24	22	3
TOTAL CALCIUM	mg/l	12	0.80	2.32	1.12	0.46
TOTAL MAGNESIUM	mg/l	12	0.36	1.14	0.72	0.19

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

TOMS RIVER BASIN

JAKES BRANCH PTR12

STATION LOCATION: LAKE INFLOW AT THE END OF CORNELL ROAD IN SOUTH TOMS RIVER, BERKLEY TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			9	11
DAY			18	27
YEAR			90	90
WEATHER	code	P00041	0	0
WATER TEMPERATURE	deg. C	P00010	14.5	11.0
DISSOLVED OXYGEN (WINKLER)	mg/l	P00300		
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	6.3	7.7
pH-FIELD	pH	P00400	4.4	4.5
pH-LAB	pH	P00403	3.9	4.2
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	30	31
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095		
ALKALINITY AS CaCO ₃	mg/l	P00410	<1	
ACIDITY	mg/l	P00435		11
HARDNESS	mg/l	P00900	7	6
SULFATE(tot)	mg/l	P00945	6	8
NO ₂ -N	mg/l	P00615		
NO ₂ +NO ₃ -N	mg/l	P00630	0.01	0.02
NH ₃ -N	mg/l	P00610	0.08	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.53	
ORGANIC N	mg/l	P00605	0.45	
NO ₃ -N	mg/l	P00620		
TOTAL N	mg/l	P00600	0.54	
TOTAL ORTHO P AS P	mg/l	P70507	0.02	<.01
TOTAL P AS P	mg/l	P00665	<.01	0.01
TURBIDITY	JTU	P00076	2.4	1.8
TOTAL DISSOLVED SOLIDS	mg/l	P70300	37	25
TOTAL CALCIUM	mg/l	P00916	0.61	6.63
TOTAL MAGNESIUM	mg/l	P00927	0.42	1.52

TOMS RIVER BASIN

JAKES BRANCH PTR12

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (WINKLER)	mg/l	4	4.9	10.2	7.7	2.7
DISSOLVED OXYGEN (PROBE)	mg/l	12	5.0	12.2	8.2	2.3
pH-FIELD	pH	11	4.2	4.5	4.4	(4.4)
pH-LAB	pH	11	3.7	4.4	4.0	(4.2)
SPECIFIC CONDUCTIVITY-FIELD	umhos	10	28	128	43	31
SPECIFIC CONDUCTIVITY-LAB	umhos	2	34	58	46	17
ALKALINITY AS CaCO ₃	mg/l	3	<1	<1	<1	
ACIDITY	mg/l	8	5	56	19	16
HARDNESS	mg/l	12	3	16	7	4
SULFATE(tot)	mg/l	12	1	17	7	4
NO ₂ -N	mg/l	6	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	12	<.01	0.07	0.03	0.02
NH ₃ -N	mg/l	10	<.05	0.08	<.05	<.05
TOTAL KJELDAHL-N	mg/l	9	0.09	1.17	0.55	0.33
ORGANIC N	mg/l	9	0.09	1.17	0.53	0.34
NO ₃ -N	mg/l	6	0.01	0.07	0.04	0.02
TOTAL N	mg/l	9	0.13	1.24	0.58	0.35
TOTAL ORTHO P AS P	mg/l	11	<.01	0.02	<.01	0.01
TOTAL P AS P	mg/l	11	<.01	0.03	0.01	0.01
TURBIDITY	JTU	11	1.4	3.9	2.2	0.8
TOTAL DISSOLVED SOLIDS	mg/l	12	22	44	33	8
TOTAL CALCIUM	mg/l	12	0.47	6.63	1.33	1.73
TOTAL MAGNESIUM	mg/l	12	0.42	1.52	0.68	0.32

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

TOMS RIVER BASIN

JAKES BRANCH OCN032

STATION LOCATION: ROUTE 619 (DOUBLE TROUBLE ROAD), BERKLEY TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
MONTH			9	11	2	4
DAY			18	27	26	30
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	7	2
WATER TEMPERATURE	deg. C	P00010	14.0	10.0	5.5	13.5
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	7.0	8.5	9.3	6.4
pH-FIELD	pH	P00400	4.4	4.4	4.3	4.3
pH-LAB	pH	P00403	3.9	4.2	4.2	3.8
GAGE HEIGHT	ft	P00065				
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	30	32	29	35
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY	mg/l	P00410	<1			
ACIDITY	mg/l	P00435		9	9	15
HARDNESS	mg/l	P00900	4	4	6	5
SULFATE(tot)	mg/l	P00945	9	9	6	<1
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.03	0.02	0.07	0.01
NH3-N	mg/l	P00610	<.05	<.05	0.06	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.72		0.11	0.23
ORGANIC N	mg/l	P00605	0.72		0.05	0.23
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.75		0.18	0.24
TOTAL ORTHO P AS P	mg/l	P70507	0.01	<.01	0.01	<.01
TOTAL P AS P	mg/l	P00665	0.02	<.01	0.01	0.01
TOTAL ORGANIC CARBON	mg/l	P00680				
TURBIDITY	JTU	P00076	2.7	1.2	1.1	2.6
TOTAL DISSOLVED SOLIDS	mg/l	P70300	43	22	26	30
TOTAL SOLIDS	mg/l	P00500				
TOTAL CALCIUM	mg/l	P00916	0.52	1.80		
TOTAL MAGNESIUM	mg/l	P00927	0.40	0.72		

TOMS RIVER BASIN

JAKES BRANCH OCN032

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	16	4.8	11.6	7.9	2.3
pH-FIELD	pH	13	4.1	4.6	4.3	(4.3)
pH-LAB	pH	16	3.7	4.5	4.0	(4.2)
GAGE HEIGHT	ft	1	1	1	1	
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	29	88	37	16
SPECIFIC CONDUCTIVITY-LAB	umhos	5	34	56	44	9
ALKALINITY	mg/l	3	<1	<1	<1	
ACIDITY	mg/l	13	4	56	17	14
HARDNESS	mg/l	15	3	14	6	3
SULFATE(tot)	mg/l	17	<1	15	6	4
NO2-N	mg/l	6	<.01	<.01	<.01	
NO2+NO3-N	mg/l	17	<.01	0.07	0.03	0.02
NH3-N	mg/l	13	<.05	0.27	0.05	0.09
TOTAL KJELDAHL-N	mg/l	11	0.11	0.86	0.45	0.27
ORGANIC N	mg/l	11	0.05	0.82	0.41	0.29
NO3-N	mg/l	6	<.01	0.06	0.03	0.02
TOTAL N	mg/l	11	0.18	0.89	0.48	0.27
TOTAL ORTHO P AS P	mg/l	17	<.01	0.02	<.01	0.01
TOTAL P AS P	mg/l	15	<.01	0.04	0.01	0.01
TOTAL ORGANIC CARBON	mg/l	1	10.5	10.5	10.5	
TURBIDITY	JTU	15	1.1	8.3	3.0	1.7
TOTAL DISSOLVED SOLIDS	mg/l	14	22	43	32	7
TOTAL SOLIDS	mg/l	2	20	28	24	6
TOTAL CALCIUM	mg/l	12	0.47	1.80	0.76	0.45
TOTAL MAGNESIUM	mg/l	12	0.40	1.04	0.60	0.18

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

OCEAN COUNTY

MINOR ATLANTIC BASINS

CEDAR CREEK

FORKED RIVER

OYSTER CREEK

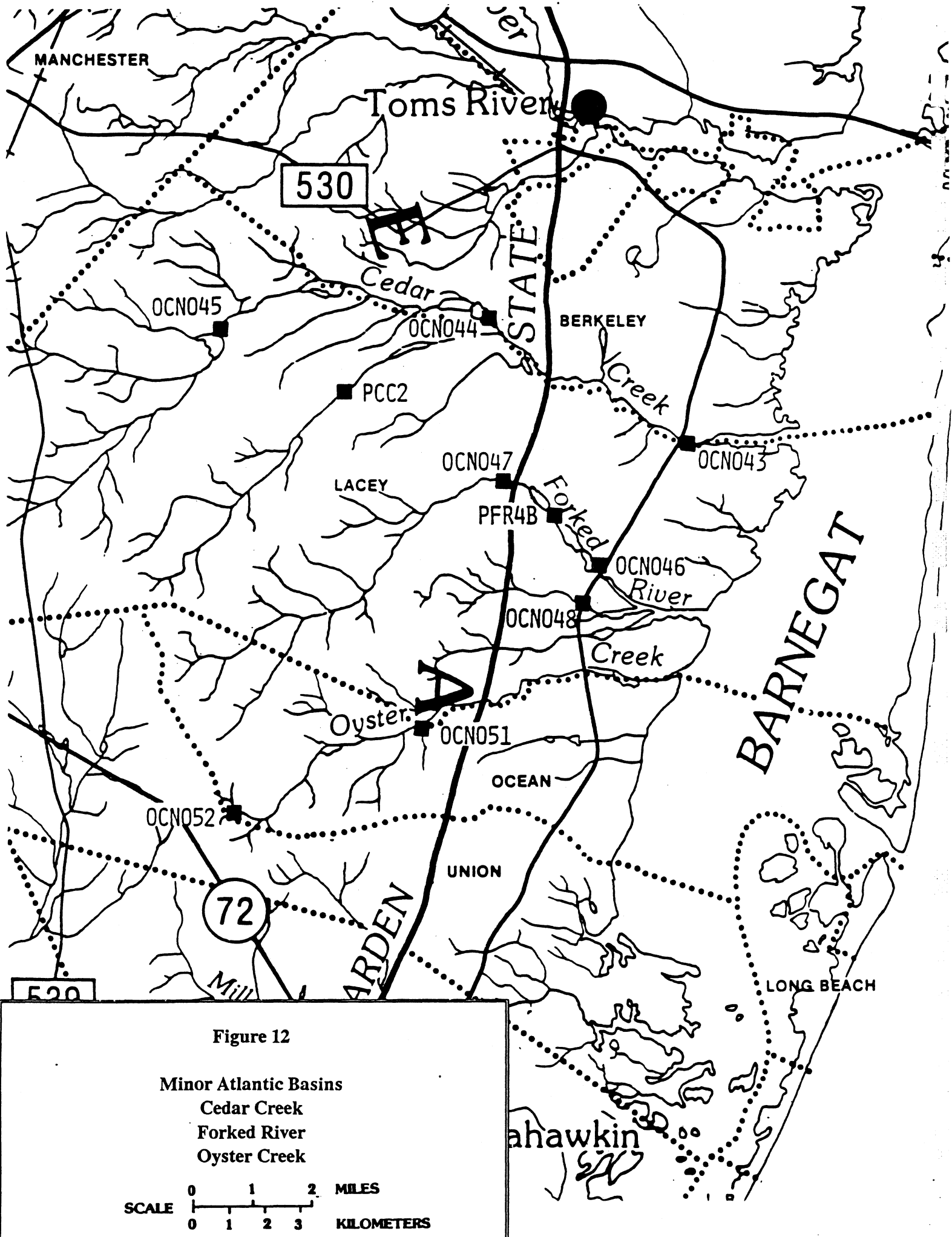


Figure 12

Minor Atlantic Basins

Cedar Creek

Forked River

Oyster Creek

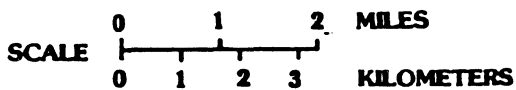


Table 20. Minor Atlantic Basins (Cedar Creek, Forked River, Oyster Creek), Ocean County, station names and locations

STATION NAME	STATION CODE	STATION LOCATION	CO(1)	TWP(2)	QUAD(3)

CEDAR CREEK					
CEDAR CREEK	OCN045	RT 614 (WHITING-LACEY RD), BAMBER LAKE	OC	LA	10
FACTORY BRANCH	PCC2	RT 614 (WHITING-LACEY RD)	OC	LA	10
CEDAR CREEK	OCN044	DOUBLE TROUBLE PARK	OC	BEY-LA	11
CEDAR CREEK (4)	OCN043	RT 9, LANOKA HARBOR	OC	BEY-LA	19
FORKED RIVER					
NORTH BRANCH FORKED RIVER (6)	OCN047	WEST OF PARKWAY, JCP&L POWER LINES	OC	LA	19
NORTH BRANCH FORKED RIVER (5)	PFR4B	OUTLET OF DEERHEAD LAKE, FORKED RIVER	OC	LA	19
NORTH BRANCH FORKED RIVER (4)	OCN046	PARKER AVE, FORKED RIVER	OC	LA	19
MIDDLE BRANCH FORKED RIVER (4)	OCN048	RT 9	OC	LA	19
OYSTER CREEK					
OYSTER CREEK (4)	OCN052	BROOKVILLE BOY SCOUT CAMP	OC	OC	18
OYSTER CREEK	OCN051	RT 532	OC	LA-OC	18

(1) Refer to Table 23 for county abbreviations.

(2) Refer to Table 22 for township abbreviations.

(3) Refer to Table 24 for quadrangle numbers.

(4) Site discontinued. See New Jersey Surface Water Quality Data Report, December 1989.

(5) Site discontinued. Only sampled on two quarters for this reporting period.

(6) OCN047 is the same as PFR4A in the New Jersey Surface Water Quality Data Report, December 1990.

CEDAR CREEK BASIN

CEDAR CREEK OCN045

STATION LOCATION: ROUTE 614 (WHITING-LACEY ROAD) NEAR BAMBER LAKE, LACEY TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	11	2	4
MONTH			9	11	2	4
DAY			18	27	26	30
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	7	2
WATER TEMPERATURE	deg. C	P00010	17.0	11.0	5.5	14.5
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	8.9	11.2	11.0	9.6
pH-FIELD	pH	P00400	4.7	4.9	4.8	4.5
pH-LAB	pH	P00403	4.2	4.6	4.7	4.0
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	20	22	18	23
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1			
ACIDITY	mg/l	P00435		6	10	12
HARDNESS	mg/l	P00900	4	4	5	3
SULFATE(tot)	mg/l	P00945	6	10	<1	<1
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.04	0.02	0.05	0.04
NH3-N	mg/l	P00610	0.07	0.05	0.07	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.34		0.20	0.30
ORGANIC N	mg/l	P00605	0.27		0.13	0.30
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.38		0.25	0.34
TOTAL ORTHO P AS P	mg/l	P70507		<.01	<.01	<.01
TOTAL P AS P	mg/l	P00665	<.01	<.01	0.03	0.09
TOTAL ORGANIC CARBON	mg/l	P00680				
TURBIDITY	JTU	P00076	0.6	0.9	2.1	2.0
TOTAL DISSOLVED SOLIDS	mg/l	P70300	32	23	24	18
TOTAL SOLIDS	mg/l	P00500				
TOTAL CALCIUM	mg/l	P00916	0.47	1.40		
TOTAL MAGNESIUM	mg/l	P00927	0.39	0.55		

CEDAR CREEK BASIN

CEDAR CREEK OCN045

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	16	7.3	12.8	10.2	1.8
pH-FIELD	pH	13	4.4	5.1	4.7	(4.7)
pH-LAB	pH	17	4.0	5.5	4.4	(4.5)
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	15	29	22	4
SPECIFIC CONDUCTIVITY-LAB	umhos	4	20	37	29	8
ALKALINITY AS CaCO ₃	mg/l	4	<1	<1	<1	
ACIDITY	mg/l	14	1	50	12	12
HARDNESS	mg/l	15	3	10	5	2
SULFATE(tot)	mg/l	17	<1	13	5	4
NO ₂ -N	mg/l	5	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	17	<.01	0.08	0.02	0.02
NH ₃ -N	mg/l	13	<.05	0.25	<.05	0.07
TOTAL KJELDAHL-N	mg/l	11	<.05	0.69	0.28	0.22
ORGANIC N	mg/l	11	<.05	0.69	0.25	0.22
NO ₃ -N	mg/l	5	<.01	0.05	0.03	0.02
TOTAL N	mg/l	11	<.01	0.77	0.31	0.23
TOTAL ORTHO P AS P	mg/l	16	<.01	0.02	<.01	0.01
TOTAL P AS P	mg/l	15	<.01	0.09	0.02	0.02
TOTAL ORGANIC CARBON	mg/l	1	6.2	6.2	6.2	
TURBIDITY	JTU	15	0.6	6.0	1.9	1.4
TOTAL DISSOLVED SOLIDS	mg/l	14	4	33	24	7
TOTAL SOLIDS	mg/l	2	18	27	23	6
TOTAL CALCIUM	mg/l	12	0.47	1.70	0.89	0.36
TOTAL MAGNESIUM	mg/l	12	0.35	1.10	0.56	0.20

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

CEDAR CREEK BASIN

FACTORY BRANCH PCC2

STATION LOCATION: ROUTE 614 (WHITING-LACEY ROAD), LACEY TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
MONTH			9	12	2	4
DAY			18	11	19	30
YEAR			90	90	91	91
WEATHER	code	P00041	0	2	6	2
WATER TEMPERATURE	deg. C	P00010	14.0	5.0	5.0	13.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	6.4	10.4	11.3	7.8
pH-FIELD	pH	P00400	4.5	4.2	4.2	4.1
pH-LAB	pH	P00403	3.8	3.8	4.2	3.7
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	27	30	31	35
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1			
ACIDITY	mg/l	P00435		14	13	15
HARDNESS	mg/l	P00900	5	5	4	5
SULFATE(tot)	mg/l	P00945	2	14	4	<1
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.01	0.02	0.06	0.02
NH3-N	mg/l	P00610	0.08	<.05	<.05	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.38	0.23	0.08	0.12
ORGANIC N	mg/l	P00605	0.30	0.23	0.08	0.12
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.39	0.25	0.14	0.14
TOTAL ORTHO P AS P	mg/l	P70507	0.01	0.01	<.01	<.01
TOTAL P AS P	mg/l	P00665	<.01	<.01	0.02	<.01
TURBIDITY	JTU	P00076	0.4	3.4	0.8	1.3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	42	37	35	46
TOTAL CALCIUM	mg/l	P00916	0.35	0.49		
TOTAL MAGNESIUM	mg/l	P00927	0.35	0.67		

CEDAR CREEK BASIN

FACTORY BRANCH PCC2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	14	6.4	13.2	9.8	2.2
pH-FIELD	pH	13	4.1	4.5	4.2	(4.2)
pH-LAB	pH	14	3.7	4.2	4.0	(4.1)
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	27	48	35	6
SPECIFIC CONDUCTIVITY-LAB	umhos	1	54	54	54	
ALKALINITY AS CaCO ₃	mg/l	4	<1	<1	<1	
ACIDITY	mg/l	11	5	50	17	12
HARDNESS	mg/l	14	3	15	6	3
SULFATE(tot)	mg/l	14	<1	14	6	4
NO ₂ -N	mg/l	5	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	14	<.01	0.10	0.02	0.03
NH ₃ -N	mg/l	12	<.05	0.12	<.05	<.05
TOTAL KJELDAHL-N	mg/l	12	<.05	0.72	0.29	0.23
ORGANIC N	mg/l	12	<.05	0.72	0.27	0.22
NO ₃ -N	mg/l	5	<.01	0.06	0.02	0.02
TOTAL N	mg/l	12	0.03	0.82	0.32	0.23
TOTAL ORTHO P AS P	mg/l	13	<.01	0.01	<.01	<.01
TOTAL P AS P	mg/l	13	<.01	0.02	<.01	0.01
TURBIDITY	JTU	13	0.4	6.5	1.7	1.6
TOTAL DISSOLVED SOLIDS	mg/l	14	4	46	32	11
TOTAL CALCIUM	mg/l	12	0.25	2.10	0.67	0.48
TOTAL MAGNESIUM	mg/l	12	0.35	1.13	0.62	0.25

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

CEDAR CREEK BASIN

CEDAR CREEK OCN044

STATION LOCATION: DOUBLE TROUBLE PARK, BERKLEY TWP AND LACEY TWP BORDER, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	11	2	4
MONTH			9	11	2	4
DAY			18	27	26	30
YEAR			90	90	91	91
WEATHER	code	P00041	0	0	7	2
WATER TEMPERATURE	deg. C	P00010	16.0	11.0	5.0	14.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	9.7	11.0	11.3	9.4
pH-FIELD	pH	P00400	4.9	4.8	4.5	4.4
pH-LAB	pH	P00403	4.6	4.4	4.2	3.9
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	22	30	25	29
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1			
ACIDITY	mg/l	P00435		7	11	15
HARDNESS	mg/l	P00900	3	3	6	5
SULFATE(tot)	mg/l	P00945	8	10	<1	<1
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	<.01	0.02	0.07	0.02
NH3-N	mg/l	P00610	0.10	<.05	<.05	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.42		0.08	0.20
ORGANIC N	mg/l	P00605	0.32		0.08	0.20
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.42		0.15	0.22
TOTAL ORTHO P AS P	mg/l	P70507	<.01	<.01		<.01
TOTAL P AS P	mg/l	P00665	0.02	0.01		<.01
TOTAL ORGANIC CARBON	mg/l	P00680				
TURBIDITY	JTU	P00076	0.8	0.6	1.4	1.4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	38	22	30	35
TOTAL SOLIDS	mg/l	P00500				
TOTAL CALCIUM	mg/l	P00916	0.71	1.63		
TOTAL MAGNESIUM	mg/l	P00927	0.42	0.54		

CEDAR CREEK BASIN

CEDAR CREEK OCN044

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	16	7.8	13.2	10.3	1.9
pH-FIELD	pH	13	4.2	5.0	4.6	(4.6)
pH-LAB	pH	17	3.8	5.1	4.3	(4.4)
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	18	35	26	5
SPECIFIC CONDUCTIVITY-LAB	umhos	4	26	63	42	17
ALKALINITY AS CaCO ₃	mg/l	4	<1	<1	<1	
ACIDITY	mg/l	14	3	35	13	8
HARDNESS	mg/l	15	3	11	6	2
SULFATE(tot)	mg/l	17	<1	15	5	4
NO ₂ -N	mg/l	5	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	17	<.01	0.13	0.02	0.03
NH ₃ -N	mg/l	12	<.05	0.11	<.05	0.05
TOTAL KJELDAHL-N	mg/l	11	<.05	0.72	0.30	0.25
ORGANIC N	mg/l	10	<.05	0.72	0.27	0.25
NO ₃ -N	mg/l	5	<.01	0.06	0.03	0.03
TOTAL N	mg/l	11	0.01	0.80	0.33	0.26
TOTAL ORTHO P AS P	mg/l	16	<.01	0.02	<.01	0.01
TOTAL P AS P	mg/l	14	<.01	0.02	0.01	0.01
TOTAL ORGANIC CARBON	mg/l	1	10.5	10.5	10.5	
TURBIDITY	JTU	15	0.6	4.4	2.0	1.1
TOTAL DISSOLVED SOLIDS	mg/l	14	5	38	26	8
TOTAL SOLIDS	mg/l	2	22	24	23	1
TOTAL CALCIUM	mg/l	12	0.50	2.87	1.15	0.70
TOTAL MAGNESIUM	mg/l	12	0.42	0.97	0.57	0.14

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

FORKED RIVER BASIN

NORTH BRANCH FORKED RIVER PFR4A (also OCN047)

STATION LOCATION: JUST WEST OF THE PARKWAY BRIDGE, LACEY TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	12	2	4
MONTH			9	12	2	4
DAY			18	11	19	30
YEAR			90	90	91	91
WEATHER	code	P00041	0	2	6	2
WATER TEMPERATURE	deg. C	P00010	13.0	6.0	7.0	13.5
DISSOLVED OXYGEN (WINKLER)	mg/l	P00300	9.4			
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	9.4	11.4	11.7	10.1
pH-FIELD	pH	P00400	4.4	4.4	4.2	4.2
pH-LAB	pH	P00403	4.0	3.9	4.3	3.8
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	25	28	35	35
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1			
ACIDITY	mg/l	P00435		11	13	14
HARDNESS	mg/l	P00900	3	7	6	2
SULFATE(tot)	mg/l	P00945	<1	3	<1	<1
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.03	0.04	0.09	0.03
NH3-N	mg/l	P00610	0.06	<.05	<.05	0.11
TOTAL KJELDAHL-N	mg/l	P00625	0.31	0.46	0.09	0.17
ORGANIC N	mg/l	P00605	0.25	0.46	0.09	0.06
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.34	0.50	0.18	0.20
TOTAL ORTHO P AS P	mg/l	P70507		<.01	0.01	<.01
TOTAL P AS P	mg/l	P00665	<.01	<.01	0.02	<.01
TOTAL ORGANIC CARBON	mg/l	P00680				
TURBIDITY	JTU	P00076	0.5	2.6	0.9	2.1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	38	33	32	19
TOTAL SOLIDS	mg/l	P00500				
TOTAL CALCIUM	mg/l	P00916	0.32	0.45		
TOTAL MAGNESIUM	mg/l	P00927	0.49	0.71		

FORKED RIVER BASIN

NORTH BRANCH FORKED RIVER PFR4A (also OCN047)

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (WINKLER)	mg/l	2	9.4	10.2	9.8	0.6
DISSOLVED OXYGEN (PROBE)	mg/l	15	6.6	12.6	10.5	1.7
pH-FIELD	pH	13	4.1	4.5	4.3	(4.3)
pH-LAB	pH	16	3.8	4.6	4.1	(4.2)
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	25	48	34	7
SPECIFIC CONDUCTIVITY-LAB	umhos	3	32	57	47	13
ALKALINITY AS CaCO ₃	mg/l	4	<1	<1	<1	
ACIDITY	mg/l	13	4	22	13	5
HARDNESS	mg/l	15	2	9	5	2
SULFATE(tot)	mg/l	16	<1	14	5	4
NO ₂ -N	mg/l	5	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	16	<.01	0.10	0.04	0.03
NH ₃ -N	mg/l	13	<.05	0.13	<.05	0.05
TOTAL KJELDAHL-N	mg/l	12	<.05	0.69	0.29	0.23
ORGANIC N	mg/l	12	<.05	0.69	0.27	0.23
NO ₃ -N	mg/l	5	<.01	0.08	0.05	0.03
TOTAL N	mg/l	12	0.03	0.79	0.34	0.23
TOTAL ORTHO P AS P	mg/l	14	<.01	0.01	<.01	0.01
TOTAL P AS P	mg/l	14	<.01	0.03	0.01	0.01
TOTAL ORGANIC CARBON	mg/l	1	7.8	7.8	7.8	
TURBIDITY	JTU	14	0.5	3.7	1.5	0.9
TOTAL DISSOLVED SOLIDS	mg/l	14	8	40	29	9
TOTAL SOLIDS	mg/l	1	22	22	22	
TOTAL CALCIUM	mg/l	12	0.32	1.12	0.61	0.23
TOTAL MAGNESIUM	mg/l	12	0.47	0.93	0.67	0.16

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

FORKED RIVER BASIN

NORTH BRANCH FORKED RIVER AT DEERHEAD LAKE OUTLET PFR4B

STATION LOCATION: DEERHEAD LAKE DRIVE IN FORKED RIVER, LACEY TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			9	12
DAY			18	11
YEAR			90	90
WEATHER	code	P00041	0	2
WATER TEMPERATURE	deg. C	P00010	17.0	4.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	8.6	12.6
pH-FIELD	pH	P00400	4.5	4.4
pH-LAB	pH	P00403	4.0	4.0
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	33	30
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095		
ALKALINITY AS CaCO ₃	mg/l	P00410	<1	
ACIDITY	mg/l	P00435		12
HARDNESS	mg/l	P00900	4	8
SULFATE(tot)	mg/l	P00945	2	3
NO ₂ -N	mg/l	P00615		
NO ₂ +NO ₃ -N	mg/l	P00630	0.02	0.03
NH ₃ -N	mg/l	P00610	0.08	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.45	0.58
ORGANIC N	mg/l	P00605	0.37	0.58
NO ₃ -N	mg/l	P00620		
TOTAL N	mg/l	P00600	0.47	0.61
TOTAL ORTHO P AS P	mg/l	P70507	0.01	
TOTAL P AS P	mg/l	P00665	<.01	<.01
TURBIDITY	JTU	P00076	0.9	3.3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	37	34
TOTAL CALCIUM	mg/l	P00916	0.38	0.61
TOTAL MAGNESIUM	mg/l	P00927	0.51	0.77

FORKED RIVER BASIN

NORTH BRANCH FORKED RIVER AT DEERHEAD LAKE OUTLET PFR4B

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	12	7.0	13.4	11.0	2.3
pH-FIELD	pH	11	4.1	4.6	4.3	(4.3)
pH-LAB	pH	12	3.8	4.4	4.1	(4.2)
SPECIFIC CONDUCTIVITY-FIELD	umhos	10	28	55	39	8
SPECIFIC CONDUCTIVITY-LAB	umhos	1	54	54	54	
ALKALINITY AS CaCO ₃	mg/l	4	<1	<1	<1	
ACIDITY	mg/l	9	4	74	20	21
HARDNESS	mg/l	12	4	17	7	4
SULFATE(tot)	mg/l	12	1	16	6	4
NO ₂ -N	mg/l	5	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	12	<.01	0.11	0.04	0.04
NH ₃ -N	mg/l	10	<.05	0.43	0.06	0.14
TOTAL KJELDAHL-N	mg/l	10	<.05	0.76	0.39	0.24
ORGANIC N	mg/l	10	<.05	0.76	0.33	0.27
NO ₃ -N	mg/l	5	<.01	0.11	0.05	0.05
TOTAL N	mg/l	10	0.03	0.76	0.42	0.24
TOTAL ORTHO P AS P	mg/l	10	<.01	0.02	0.01	0.01
TOTAL P AS P	mg/l	11	<.01	0.06	0.02	0.02
TURBIDITY	JTU	11	0.9	6.4	3.1	2.0
TOTAL DISSOLVED SOLIDS	mg/l	12	12	41	34	8
TOTAL CALCIUM	mg/l	12	0.38	1.70	0.75	0.34
TOTAL MAGNESIUM	mg/l	12	0.51	1.17	0.75	0.21

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

OYSTER CREEK BASIN

OYSTER CREEK OCN051

STATION LOCATION: ROUTE 532, LACEY TWP AND OCEAN TWP BORDER, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
MONTH			9	12	2	4
DAY			18	11	19	30
YEAR			90	90	91	91
WEATHER	code	P00041	0	2	6	2
WATER TEMPERATURE	deg. C	P00010	14.5	5.5	7.0	15.0
DISSOLVED OXYGEN (WINKLER)	mg/l	P00300				
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	7.6	10.5	10.4	8.9
pH-FIELD	pH	P00400	4.5	4.5	4.4	4.5
pH-LAB	pH	P00403	4.3	4.0	4.7	3.9
GAGE HEIGHT	ft	P00065				
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	28	28	38	32
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1			
ACIDITY	mg/l	P00435		11	12	12
HARDNESS	mg/l	P00900	4	6	7	3
SULFATE(tot)	mg/l	P00945	8	11	7	6
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.04	0.04	0.09	0.03
NH3-N	mg/l	P00610	0.12	0.08	<.05	<.05
TOTAL KjELDAHL-N	mg/l	P00625	0.40	0.35	<.05	0.15
ORGANIC N	mg/l	P00605	0.28	0.27	<.05	0.15
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.44	0.39	0.09	0.18
TOTAL ORTHO P AS P	mg/l	P70507		0.01	0.02	<.01
TOTAL P AS P	mg/l	P00665	<.01	<.01	0.01	0.08
TOTAL ORGANIC CARBON	mg/l	P00680				
TURBIDITY	JTU	P00076	0.6	2.8	1.2	1.6
TOTAL DISSOLVED SOLIDS	mg/l	P70300	35	34	38	20
TOTAL SOLIDS	mg/l	P00500				
TOTAL CALCIUM	mg/l	P00916	0.54	0.83		
TOTAL MAGNESIUM	mg/l	P00927	0.58	0.69		

OYSTER CREEK BASIN

OYSTER CREEK OCN051

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (WINKLER)	mg/l	1	7.0	7.0	7.0	
DISSOLVED OXYGEN (PROBE)	mg/l	16	5.8	12.0	9.3	2.0
pH-FIELD	pH	13	4.3	4.6	4.5	(4.5)
pH-LAB	pH	17	3.9	5.0	4.3	(4.4)
GAGE HEIGHT	ft	1	2.9	2.9	2.9	
SPECIFIC CONDUCTIVITY-FIELD	umhos	12	25	40	32	5
SPECIFIC CONDUCTIVITY-LAB	umhos	4	34	48	43	7
ALKALINITY AS CaCO ₃	mg/l	4	<1	<1	<1	
ACIDITY	mg/l	14	2	23	13	6
HARDNESS	mg/l	15	3	10	6	2
SULFATE(tot)	mg/l	17	1	11	6	2
NO ₂ -N	mg/l	6	<.01	0.01	<.01	<.01
NO ₂ +NO ₃ -N	mg/l	17	<.01	0.12	0.04	0.03
NH ₃ -N	mg/l	13	<.05	0.14	<.05	0.06
TOTAL KJELDAHL-N	mg/l	12	<.05	0.70	0.31	0.24
ORGANIC N	mg/l	12	<.05	0.64	0.27	0.22
NO ₃ -N	mg/l	6	<.01	0.10	0.04	0.04
TOTAL N	mg/l	12	0.03	0.71	0.35	0.24
TOTAL ORTHO P AS P	mg/l	15	<.01	0.18	0.02	0.05
TOTAL P AS P	mg/l	14	<.01	0.34	0.04	0.09
TOTAL ORGANIC CARBON	mg/l	1	7.0	7.0	7.0	
TURBIDITY	JTU	15	0.6	3.0	1.5	0.8
TOTAL DISSOLVED SOLIDS	mg/l	14	12	38	28	8
TOTAL SOLIDS	mg/l	1	20	20	20	
TOTAL CALCIUM	mg/l	12	0.50	1.25	0.78	0.26
TOTAL MAGNESIUM	mg/l	12	0.45	0.89	0.63	0.12

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

OCEAN COUNTY

MINOR ATLANTIC BASINS

MILL CREEK

CEDAR RUN

WESTECUNK CREEK

TUCKERTON CREEK

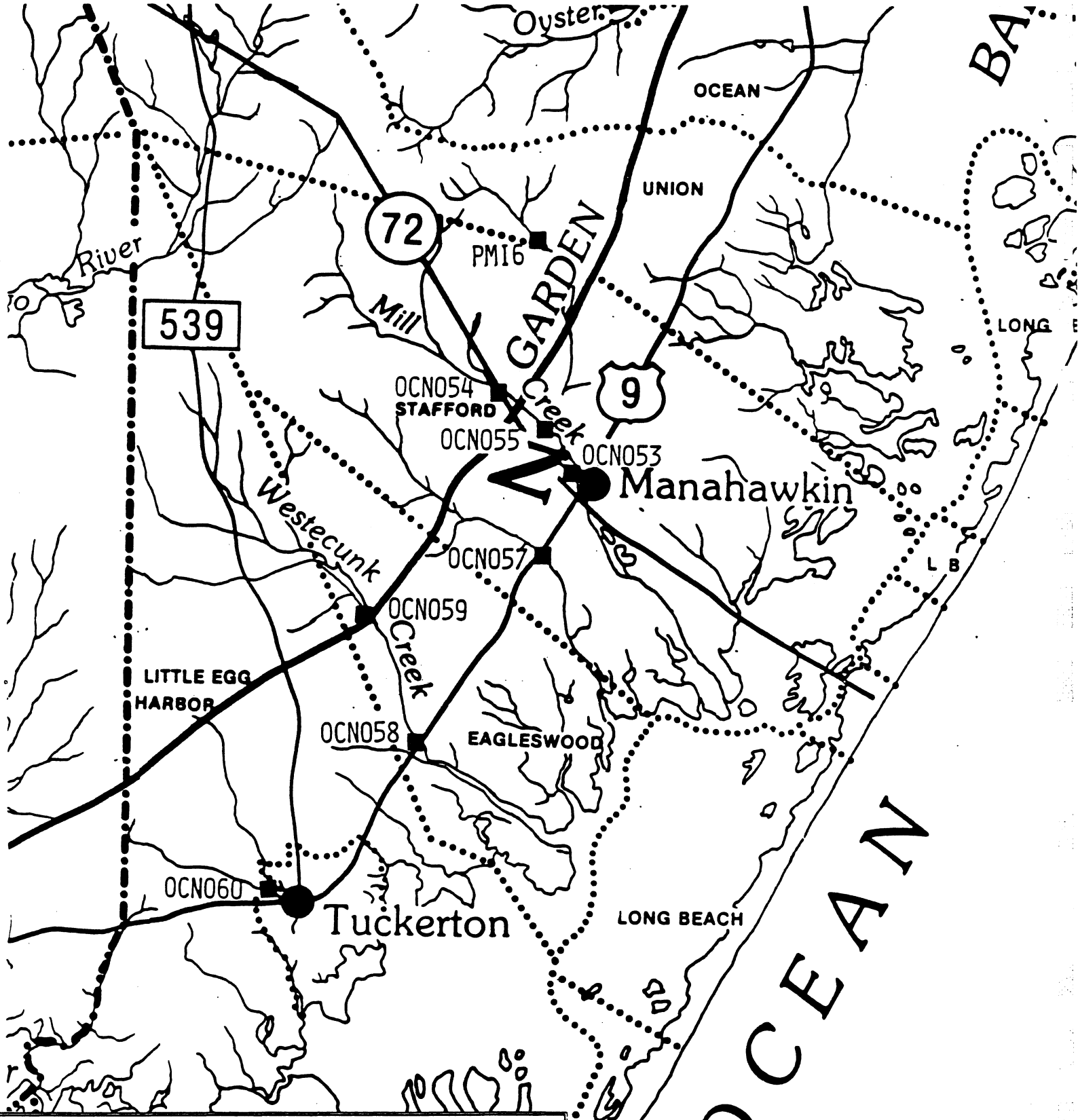


Figure 13

Minor Atlantic Basins
 Mill Creek, Westecunk Creek,
 Cedar Run, and Tuckerton Creek

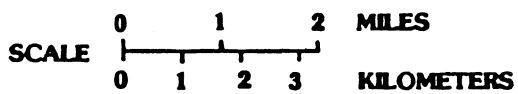


Table 21. Minor Atlantic Basins (Mill Creek, Cedar Run, Westecunk Creek, Tuckerton Creek), Ocean County, station names and locations

STATION NAME	STATION CODE	STATION LOCATION	CO(1)	TWP(2)	QUAD(3)
MILL CREEK					
MILL CREEK	OCN054	RT 72, NEAR OCEAN ACRES	OC	ST	27
MILL CREEK (4)	OCN055	OXYCOCCUS RD	OC	ST	27
FOUR MILE BRANCH	PM16	LIGHTHOUSE DR, UPSTREAM FROM PARKWAY	OC	BA-ST	27
MILL CREEK (4)	OCN053	RT 180, MANAHAWKIN SPILLWAY	OC	ST	27
CEDAR RUN					
CEDAR RUN (4)	OCN057	RT 9	OC	ST	27
WESTECUNK CREEK					
WESTECUNK CREEK	OCN059	STAFFORD FORGE, LAKE SPILLWAY	OC	EAG	27
WESTECUNK CREEK (4)	OCN058	RT 9	OC	EAG	27
TUCKERTON CREEK					
TUCKERTON CREEK (4)	OCN060	RT 9, LAKE POHATCONG SPILLWAY	OC	LEH	35

(1) Refer to Table 23 for county abbreviations.

(2) Refer to Table 22 for township abbreviations.

(3) Refer to Table 24 for quadrangle numbers.

(4) Site discontinued. See New Jersey Surface Water Quality Data Report, December 1989.

MILL CREEK BASIN

MILL CREEK OCN054

STATION LOCATION: ROUTE 72 NEAR OCEAN ACRES, STAFFORD TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	12	2	4
MONTH			9	12	2	4
DAY			18	11	19	30
YEAR			90	90	91	91
WEATHER	code	P00041	0	2	6	1
WATER TEMPERATURE	deg. C	P00010	11.0	7.5	9.0	14.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	9.1	10.3	10.0	9.5
pH-FIELD	pH	P00400	5.7	5.8	5.6	5.7
pH-LAB	pH	P00403	5.6	5.2	5.6	5.4
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	37	39	49	39
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO ₃	mg/l	P00410	<1			
ACIDITY	mg/l	P00435		4	9	6
HARDNESS	mg/l	P00900	6	12	10	6
SULFATE(tot)	mg/l	P00945	6	9	18	5
NO ₂ -N	mg/l	P00615				
NO ₂ +NO ₃ -N	mg/l	P00630	0.09	0.09	0.12	0.10
NH ₃ -N	mg/l	P00610	0.45	0.47	0.30	0.44
TOTAL KJELDAHL-N	mg/l	P00625	0.93	0.90	0.52	0.52
ORGANIC N	mg/l	P00605	0.48	0.43	0.22	0.08
NO ₃ -N	mg/l	P00620				
TOTAL N	mg/l	P00600	1.02	0.99	0.64	0.62
TOTAL ORTHO P AS P	mg/l	P70507		<.01	<.01	<.01
TOTAL P AS P	mg/l	P00665	<.01	<.01	0.02	<.01
TOTAL ORGANIC CARBON	mg/l	P00680				
TURBIDITY	JTU	P00076	1.3	3.0	1.8	2.2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	41	38	54	30
TOTAL SOLIDS	mg/l	P00500				
TOTAL CALCIUM	mg/l	P00916	1.15	1.00		
TOTAL MAGNESIUM	mg/l	P00927	0.93	0.98		

MILL CREEK BASIN

MILL CREEK OCN054

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	15	8.0	12.0	9.9	1.3
pH-FIELD	pH	13	4.2	6.0	5.2	(5.8)
pH-LAB	pH	17	4.7	6.0	5.4	(5.6)
SPECIFIC CONDUCTIVITY-FIELD	umhos	13	30	58	40	8
SPECIFIC CONDUCTIVITY-LAB	umhos	4	40	71	49	15
ALKALINITY AS CaCO ₃	mg/l	4	<1	8	3	3
ACIDITY	mg/l	14	<1	23	8	6
HARDNESS	mg/l	15	6	12	8	2
SULFATE(tot)	mg/l	17	1	18	6	4
NO ₂ -N	mg/l	5	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	17	<.01	0.19	0.09	0.04
NH ₃ -N	mg/l	13	0.05	0.49	0.30	0.14
TOTAL KJELDAHL-N	mg/l	11	0.43	1.00	0.70	0.21
ORGANIC N	mg/l	11	0.08	0.73	0.39	0.19
NO ₃ -N	mg/l	5	<.01	0.14	0.08	0.05
TOTAL N	mg/l	11	0.52	1.02	0.79	0.20
TOTAL ORTHO P AS P	mg/l	15	<.01	0.01	<.01	<.01
TOTAL P AS P	mg/l	14	<.01	0.16	0.02	0.04
TOTAL ORGANIC CARBON	mg/l	1	6.2	6.2	6.2	
TURBIDITY	JTU	15	0.8	5.9	2.5	1.3
TOTAL DISSOLVED SOLIDS	mg/l	14	19	54	36	10
TOTAL SOLIDS	mg/l	2	18	33	26	11
TOTAL CALCIUM	mg/l	12	0.62	1.61	1.06	0.29
TOTAL MAGNESIUM	mg/l	12	0.82	2.11	1.03	0.35

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

MILL CREEK BASIN

FOUR MILE BRANCH PMI6

STATION LOCATION: LIGHTHOUSE DRIVE IN OCEAN ACRES, BARNEGAT TWP AND STAFFORD TWP BORDER, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
MONTH			9	12	2	4
DAY			18	11	19	30
YEAR			90	90	91	91
WEATHER	code	P00041	0	2	6	2
WATER TEMPERATURE	deg. C	P00010	13.0	8.0	8.0	15.0
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	7.7	9.6	10.6	9.3
pH-FIELD	pH	P00400	4.5	5.1	4.8	4.9
pH-LAB	pH	P00403	4.1	4.7	4.6	4.7
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	40	30	42	33
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1			
ACIDITY	mg/l	P00435		2	10	8
HARDNESS	mg/l	P00900	10	9	6	6
SULFATE(tot)	mg/l	P00945	11	8	9	7
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.05	0.36	0.24	0.27
NH3-N	mg/l	P00610	0.14	0.10	<.05	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.57	0.46	0.18	0.33
ORGANIC N	mg/l	P00605	0.43	0.36	0.18	0.33
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.62	0.82	0.42	0.60
TOTAL ORTHO P AS P	mg/l	P70507		<.01	<.01	<.01
TOTAL P AS P	mg/l	P00665	<.01	<.01	0.02	0.08
TURBIDITY	JTU	P00076	4.4	3.5	0.7	2.3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	53	33	43	30
TOTAL CALCIUM	mg/l	P00916	0.93	0.61		
TOTAL MAGNESIUM	mg/l	P00927	1.21	1.11		

MILL CREEK BASIN

FOUR MILE BRANCH PM16

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	14	7.5	11.4	9.6	1.3
pH-FIELD	pH	13	4.5	5.2	4.9	(4.9)
pH-LAB	pH	14	4.1	5.2	4.7	(4.9)
SPECIFIC CONDUCTIVITY-FIELD	umhos	13	28	55	37	7
SPECIFIC CONDUCTIVITY-LAB	umhos	1	58	58	58	
ALKALINITY AS CaCO ₃	mg/l	4	<1	1	<1	<1
ACIDITY	mg/l	11	<1	86	16	24
HARDNESS	mg/l	14	4	17	8	4
SULFATE(tot)	mg/l	14	4	12	7	3
NO ₂ -N	mg/l	5	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	14	0.04	0.45	0.22	0.12
NH ₃ -N	mg/l	12	<.05	0.14	<.05	0.06
TOTAL KJELDAHL-N	mg/l	12	<.05	0.94	0.44	0.27
ORGANIC N	mg/l	12	<.05	0.89	0.39	0.25
NO ₃ -N	mg/l	5	0.04	0.45	0.23	0.17
TOTAL N	mg/l	12	0.25	1.06	0.64	0.26
TOTAL ORTHO P AS P	mg/l	12	<.01	0.01	<.01	<.01
TOTAL P AS P	mg/l	13	<.01	0.08	0.02	0.02
TURBIDITY	JTU	13	0.7	60.0	7.4	15.9
TOTAL DISSOLVED SOLIDS	mg/l	14	<1	53	31	14
TOTAL CALCIUM	mg/l	12	0.40	1.07	0.70	0.20
TOTAL MAGNESIUM	mg/l	12	0.65	1.54	1.11	0.23

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

WESTECUNK CREEK BASIN

WESTECUNK CREEK OCN059

STATION LOCATION: STAFFORD FORGE LAKE OUTLET, EAGLESWOOD TOWNSHIP, OCEAN COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE			
			9	12	3	4
MONTH			9	12	3	4
DAY			18	11	19	30
YEAR			90	90	91	91
WEATHER	code	P00041	0	2	2	1
WATER TEMPERATURE	deg. C	P00010	13.5	4.0	8.0	17.5
DISSOLVED OXYGEN (PROBE)	mg/l	P00299	8.6	12.4	11.0	9.2
pH-FIELD	pH	P00400	4.9	4.9	4.6	4.8
pH-LAB	pH	P00403	4.7	4.4		4.2
SPECIFIC CONDUCTIVITY-FIELD	umhos	P00094	20	19	20	28
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095				
ALKALINITY AS CaCO3	mg/l	P00410	<1			
ACIDITY	mg/l	P00435		9		11
HARDNESS	mg/l	P00900	5	6	6	3
SULFATE(tot)	mg/l	P00945	8	9	13	7
NO2-N	mg/l	P00615				
NO2+NO3-N	mg/l	P00630	0.03	0.03	0.01	0.05
NH3-N	mg/l	P00610	0.09	<.05	<.05	<.05
TOTAL KJELDAHL-N	mg/l	P00625	0.38	0.39	0.14	0.28
ORGANIC N	mg/l	P00605	0.29	0.39	0.14	0.28
NO3-N	mg/l	P00620				
TOTAL N	mg/l	P00600	0.41	0.42	0.15	0.33
TOTAL ORTHO P AS P	mg/l	P70507			0.01	<.01
TOTAL P AS P	mg/l	P00665	0.02	<.01	0.01	<.01
TOTAL ORGANIC CARBON	mg/l	P00680				
TURBIDITY	JTU	P00076	0.8	4.9	2.0	2.2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	40	29	29	21
TOTAL SOLIDS	mg/l	P00500				
TOTAL CALCIUM	mg/l	P00916	0.49	0.62		
TOTAL MAGNESIUM	mg/l	P00927	0.49	0.59		

WESTECUNK CREEK BASIN

WESTECUNK CREEK OCN059

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN (PROBE)	mg/l	16	6.0	13.1	10.1	2.4
pH-FIELD	pH	13	4.6	5.3	4.8	(4.9)
pH-LAB	pH	16	4.1	5.3	4.5	(4.7)
SPECIFIC CONDUCTIVITY-FIELD	umhos	13	18	61	28	12
SPECIFIC CONDUCTIVITY-LAB	umhos	4	26	43	33	8
ALKALINITY AS CaCO ₃	mg/l	3	<1	<1	<1	
ACIDITY	mg/l	13	2	146	21	38
HARDNESS	mg/l	15	3	12	6	2
SULFATE(tot)	mg/l	17	<1	13	6	3
NO ₂ -N	mg/l	5	<.01	<.01	<.01	
NO ₂ +NO ₃ -N	mg/l	17	<.01	0.10	0.03	0.03
NH ₃ -N	mg/l	13	<.05	0.41	0.10	0.14
TOTAL KJELDAHL-N	mg/l	12	<.05	0.74	0.40	0.25
ORGANIC N	mg/l	12	<.05	0.74	0.31	0.26
NO ₃ -N	mg/l	5	<.01	0.10	0.03	0.04
TOTAL N	mg/l	12	<.01	0.81	0.44	0.26
TOTAL ORTHO P AS P	mg/l	15	<.01	0.05	0.01	0.01
TOTAL P AS P	mg/l	15	<.01	0.14	0.02	0.04
TOTAL ORGANIC CARBON	mg/l	1	8.8	8.8	8.8	
TURBIDITY	JTU	15	0.6	5.0	2.6	1.2
TOTAL DISSOLVED SOLIDS	mg/l	14	6	40	25	8
TOTAL SOLIDS	mg/l	2	25	26	26	1
TOTAL CALCIUM	mg/l	12	0.47	1.93	0.99	0.53
TOTAL MAGNESIUM	mg/l	12	0.48	1.40	0.70	0.27

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

ATLANTIC COUNTY

GREAT EGG HARBOR RIVER BASIN

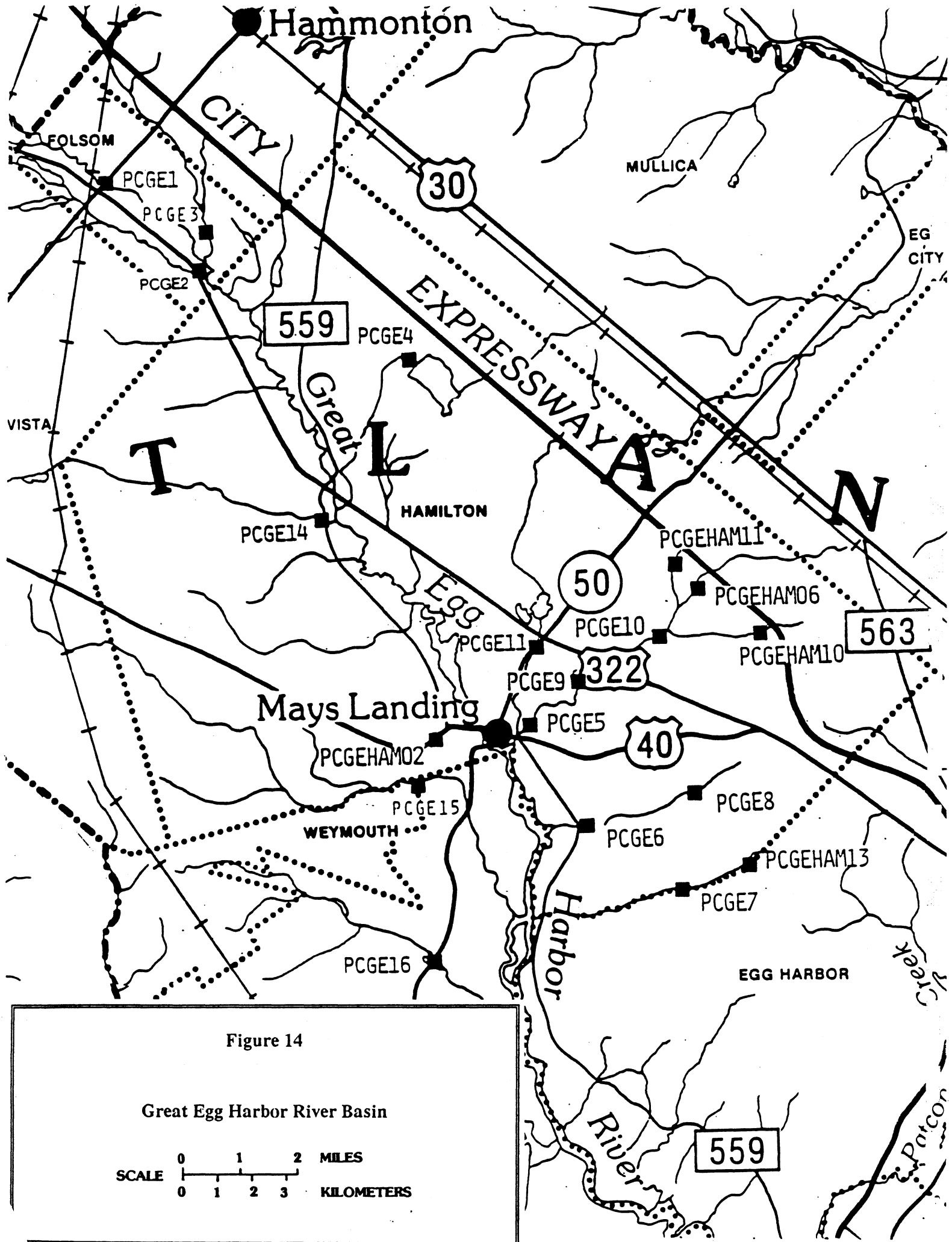


Figure 14

Great Egg Harbor River Basin

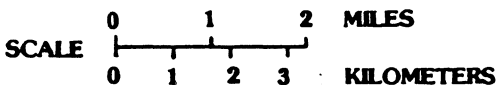


Table 22. Great Egg Harbor River Basin, Atlantic County, station names and locations

STATION NAME	STATION CODE	STATION LOCATION	CO(1)	TWP(2)	QUAD(3)
GREAT EGG HARBOR RIVER BASIN					
GREAT EGG HARBOR RIVER	PCGE1	RT 54	AT	FO	31
PENNYPOT STREAM	PCGE3	EIGHTH ST	AT	FO	31
HOSPITALITY BRANCH	PCGE2	RT 322 (BLACK HORSE PK)	AT	FO	31
MAKEPEACE STREAM	PCGE4	RT 623	AT	HA	31
DEEP RUN	PCGE14	RT 559	AT	HA	31
BABCOCK CREEK (4)	PCGEHAM06	HOLLY ST	AT	HA	38
MANKILLER BRANCH (4)	PCGEHAM11	HOLLY ST	AT	HA	38
JACK PUDDING BRANCH (4)	PCGEHAM10	COLOGNE AV	AT	HA	38
BABCOCK CREEK (4)	PCGE10	PINE ST	AT	HA	38
BABCOCK CREEK	PCGE9	RT 322 (BLACK HORSE PK)	AT	HA	38
BABCOCK CREEK (4)	PCGE5	OLD EGG HARBOR RD	AT	HA	38
WATERING RACE BRANCH	PCGE11	RT 50	AT	HA	38
GRAVELLY RUN (4)	PCGE8	NEW YORK AV	AT	HA	38
GRAVELLY RUN	PCGE6	RT 559	AT	HA	38
MIRY RUN (4)	PCGEHAM13	PINE AV	AT	HA	38
MIRY RUN (4)	PCGE7	ALT 559	AT	HA	38
SOUTH RIVER	PCGE15	RT 668 (WIRE RD)	AT	HA	37
CEDAR BROOK AT HARDING LKS OUTLET (4)	PCGEHAM02	HARDING HWY	AT	HA	38
STEPHENS CREEK	PCGE16	RT 50	AT	EM	38

(1) Refer to Table 23 for county abbreviations.

(2) Refer to Table 22 for township abbreviations.

(3) Refer to Table 24 for quadrangle numbers.

(4) Site discontinued. See New Jersey Surface Water Quality Report, December 1990.

GREAT EGG HARBOR RIVER BASIN

GREAT EGG HARBOR RIVER PCGE1

STATION LOCATION: ROUTE 54, FOLSOM, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			12	7
YEAR			91	91
WEATHER	code	P00041	0	0
WATER TEMPERATURE	deg. C	P00010	4.5	15.5
DISSOLVED OXYGEN	mg/l	P00299	11.5	8.3
PH-FIELD	pH	P00400	5.3	5.2
PH-LAB	pH	P00403	5.5	6.1
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	37.0	39.0
ALKALINITY	mg/l	P00410	2.4	
ACIDITY	mg/l	P00436		2.4
HARDNESS	mg/l	P00900	13	14
SULFATE(tot)	mg/l	P00945	6.8	2.3
NO2-N	mg/l	P00615	<.05	<.10
NO2+NO3-N	mg/l	P00630	0.56	<.10
NH3-N	mg/l	P00610	0.02	0.35
TOTAL KJELDAHL-N	mg/l	P00625	1.58	3.30
ORGANIC N	mg/l	P00605	1.56	2.95
NO3-N	mg/l	P00620	0.56	<.10
TOTAL N	mg/l	P00600	2.14	3.30
TOTAL ORTHO P AS P	mg/l	P70507	<.01	0.06
TOTAL P AS P	mg/l	P00665	0.06	0.08
TURBIDITY	JTU	P00076	2.3	3.3
TOTAL DISSOLVED SOLIDS	mg/l	P70300	74	79

GREAT EGG HARBOR RIVER BASIN

GREAT EGG HARBOR RIVER PCGE1

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	8.3	11.5	9.9	2.3
PH-FIELD	pH	2	5.2	5.3	5.2	(5.2)
PH-LAB	pH	2	5.5	6.1	5.7	(5.7)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	37.0	39.0	38.0	1.4
ALKALINITY	mg/l	1	2.4	2.4	2.4	
ACIDITY	mg/l	1	2.4	2.4	2.4	
HARDNESS	mg/l	2	13	14	14	1
SULFATE(tot)	mg/l	2	2.3	6.8	4.6	3.2
NO2-N	mg/l	2	<.05	<.10		
NO2+NO3-N	mg/l	2	<.10	0.56	0.28	0.40
NH3+NH4-N	mg/l	2	0.02	0.35	0.19	0.23
TOTAL KJELDAHL-N	mg/l	2	1.58	3.30	2.44	1.22
ORGANIC N	mg/l	2	1.56	2.95	2.26	0.98
NO3-N	mg/l	2	<.10	0.56	0.28	0.40
TOTAL N	mg/l	2	2.14	3.30	2.72	0.82
TOTAL ORTHO P AS P	mg/l	2	<.01	0.06	0.03	0.04
TOTAL P AS P	mg/l	2	0.06	0.08	0.07	0.01
TURBIDITY	JTU	2	2.3	3.3	2.8	0.7
TOTAL DISSOLVED SOLIDS	mg/l	2	74	79	77	4

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

GREAT EGG HARBOR RIVER BASIN

PENNYPOT STREAM PCGE3

STATION LOCATION: EIGHTH STREET, FOLSOM, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			12	7
YEAR			91	91
WEATHER	code	P00041	0	0
WATER TEMPERATURE	deg. C	P00010	4.0	16.0
DISSOLVED OXYGEN	mg/l	P00299	11.9	8.3
PH-FIELD	pH	P00400	5.4	5.5
PH-LAB	pH	P00403	5.5	5.8
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	53.0	72.0
ALKALINITY	mg/l	P00410	3.1	
ACIDITY	mg/l	P00436		4.3
HARDNESS	mg/l	P00900	10	19
SULFATE(tot)	mg/l	P00945	8.5	8.2
NO2-N	mg/l	P00615	<.05	<.10
NO2+NO3-N	mg/l	P00630	1.26	0.12
NH3-N	mg/l	P00610	0.02	0.81
TOTAL KJELDAHL-N	mg/l	P00625	2.09	1.90
ORGANIC N	mg/l	P00605	2.07	1.09
NO3-N	mg/l	P00620	1.26	0.12
TOTAL N	mg/l	P00600	3.35	2.02
TOTAL ORTHO P AS P	mg/l	P70507	<.01	0.05
TOTAL P AS P	mg/l	P00665	0.06	0.08
TURBIDITY	JTU	P00076	2.1	7.0
TOTAL DISSOLVED SOLIDS	mg/l	P70300	91	83

GREAT EGG HARBOR RIVER BASIN

PENNYPOT STREAM PCGE3

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	8.3	11.9	10.1	2.5
PH-FIELD	pH	2	5.4	5.5	5.4	(5.4)
PH-LAB	pH	2	5.5	5.8	5.6	(5.6)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	53.0	72.0	62.5	13.4
ALKALINITY	mg/l	1	3.1	3.1	3.1	
ACIDITY	mg/l	1	4.3	4.3	4.3	
HARDNESS	mg/l	2	10	19	15	6
SULFATE(tot)	mg/l	2	8.2	8.5	8.4	0.2
NO2-N	mg/l	2	<.05	<.10		
NO2+NO3-N	mg/l	2	0.12	1.26	0.69	0.81
NH3+NH4-N	mg/l	2	0.02	0.81	0.42	0.56
TOTAL KJELDAHL-N	mg/l	2	1.90	2.09	2.00	0.13
ORGANIC N	mg/l	2	1.09	2.07	1.58	0.69
NO3-N	mg/l	2	0.12	1.26	0.69	0.81
TOTAL N	mg/l	2	2.02	3.35	2.69	0.94
TOTAL ORTHO P AS P	mg/l	2	<.01	0.05	0.03	0.04
TOTAL P AS P	mg/l	2	0.06	0.08	0.07	0.01
TURBIDITY	JTU	2	2.1	7.0	4.6	3.5
TOTAL DISSOLVED SOLIDS	mg/l	2	83	91	87	6

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

GREAT EGG HARBOR RIVER BASIN

HOSPITALITY BRANCH PCGE2

STATION LOCATION: ROUTE 322, FOLSOM, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			12	7
YEAR			91	91
WEATHER	code	P00041	0	0
WATER TEMPERATURE	deg. C	P00010	5.0	18.0
DISSOLVED OXYGEN	mg/l	P00299	11.0	7.3
PH-FIELD	pH	P00400	5.2	5.7
PH-LAB	pH	P00403	5.5	6.0
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	29.0	39.0
ALKALINITY	mg/l	P00410	2.4	
ACIDITY	mg/l	P00436		2.6
HARDNESS	mg/l	P00900	10	11
SULFATE(tot)	mg/l	P00945	6.2	4.3
NO2-N	mg/l	P00615	<.05	<.10
NO2+NO3-N	mg/l	P00630	0.35	<.10
NH3-N	mg/l	P00610	<.10	0.20
TOTAL KJELDAHL-N	mg/l	P00625	1.58	2.70
ORGANIC N	mg/l	P00605	1.58	2.50
NO3-N	mg/l	P00620	0.35	<.10
TOTAL N	mg/l	P00600	1.93	2.70
TOTAL ORTHO P AS P	mg/l	P70507	<.01	0.04
TOTAL P AS P	mg/l	P00665	0.04	0.06
TURBIDITY	JTU	P00076	2.5	3.0
TOTAL DISSOLVED SOLIDS	mg/l	P70300	80	44

GREAT EGG HARBOR RIVER BASIN

HOSPITALITY BRANCH PCGE2

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	7.3	11.0	9.2	2.6
PH-FIELD	pH	2	5.2	5.7	5.4	(5.4)
PH-LAB	pH	2	5.5	6.0	5.7	(5.7)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	29.0	39.0	34.0	7.1
ALKALINITY	mg/l	1	2.4	2.4	2.4	
ACIDITY	mg/l	1	2.6	2.6	2.6	
HARDNESS	mg/l	2	10	11	11	1
SULFATE(tot)	mg/l	2	4.3	6.2	5.3	1.3
NO2-N	mg/l	2	<.05	<.10		
NO2+NO3-N	mg/l	2	<.10	0.35	0.18	0.25
NH3+NH4-N	mg/l	2	<.10	0.20	0.11	0.13
TOTAL KJELDAHL-N	mg/l	2	1.58	2.70	2.14	0.79
ORGANIC N	mg/l	2	1.56	2.50	2.03	0.66
NO3-N	mg/l	2	<.10	0.35	0.18	0.25
TOTAL N	mg/l	2	1.93	2.70	2.32	0.54
TOTAL ORTHO P AS P	mg/l	2	<.01	0.04	0.02	0.03
TOTAL P AS P	mg/l	2	0.04	0.06	0.05	0.01
TURBIDITY	JTU	2	2.5	3.0	2.8	0.4
TOTAL DISSOLVED SOLIDS	mg/l	2	44	80	62	25

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

GREAT EGG HARBOR RIVER BASIN

MAKEPEACE STREAM PCGE4

STATION LOCATION: ROUTE 623, HAMILTON, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			12	7
YEAR			91	91
WEATHER	code	P00041	0	0
WATER TEMPERATURE	deg. C	P00010	5.5	21.0
DISSOLVED OXYGEN	mg/l	P00299	13.0	9.1
PH-FIELD	pH	P00400	4.0	4.0
PH-LAB	pH	P00403	4.1	4.2
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	52.0	59.0
ALKALINITY	mg/l	P00410	<0.2	
ACIDITY	mg/l	P00436		<0.5
HARDNESS	mg/l	P00900	6	6
SULFATE(tot)	mg/l	P00945	8.8	5.6
NO2-N	mg/l	P00615	<.05	<.10
NO2+NO3-N	mg/l	P00630	<.10	<.10
NH3-N	mg/l	P00610	<.10	<.10
TOTAL KJELDAHL-N	mg/l	P00625	2.59	2.50
ORGANIC N	mg/l	P00605	2.59	2.50
NO3-N	mg/l	P00620	<.10	<.10
TOTAL N	mg/l	P00600	2.59	2.50
TOTAL ORTHO P AS P	mg/l	P70507	<.01	0.04
TOTAL P AS P	mg/l	P00665	0.05	0.09
TURBIDITY	JTU	P00076	3.8	1.1
TOTAL DISSOLVED SOLIDS	mg/l	P70300	66	49

GREAT EGG HARBOR RIVER BASIN

MAKEPEACE STREAM PCGE4

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	9.1	13.0	11.1	2.8
PH-FIELD	pH	2	4.0	4.0	4.0	(4.0)
PH-LAB	pH	2	4.1	4.2	4.1	(4.1)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	52.0	59.0	55.5	4.9
ALKALINITY	mg/l	1	<0.2	<0.2	<0.2	
ACIDITY	mg/l	1	<0.5	<0.5	<0.5	
HARDNESS	mg/l	2	6	6	6	
SULFATE(tot)	mg/l	2	5.6	8.8	7.2	2.3
NO2-N	mg/l	2	<.05	<.10		
NO2+NO3-N	mg/l	2	<.10	<.10	<.10	
NH3+NH4-N	mg/l	2	<.10	<.10	<.10	
TOTAL KJELDAHL-N	mg/l	2	2.50	2.59	2.55	0.06
ORGANIC N	mg/l	2	2.50	2.57	2.54	0.05
NO3-N	mg/l	2	<.10	<.10	<.10	
TOTAL N	mg/l	2	2.50	2.59	2.55	0.06
TOTAL ORTHO P AS P	mg/l	2	<.01	0.04	0.02	0.03
TOTAL P AS P	mg/l	2	0.05	0.09	0.07	0.03
TURBIDITY	JTU	2	1.1	3.8	2.5	1.9
TOTAL DISSOLVED SOLIDS	mg/l	2	49	66	58	12

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

GREAT EGG HARBOR RIVER BASIN

DEEP RUN PCGE14

STATION LOCATION: ROUTE 559, HAMILTON, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			18	7
YEAR			91	91
WEATHER	code	P00041	6	0
WATER TEMPERATURE	deg. C	P00010	8.0	16.0
DISSOLVED OXYGEN	mg/l	P00299	11.0	8.6
PH-FIELD	pH	P00400	4.2	4.3
PH-LAB	pH	P00403	4.4	4.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	41.0	43.0
ALKALINITY	mg/l	P00410	<0.2	
ACIDITY	mg/l	P00436		<0.5
HARDNESS	mg/l	P00900	9	9
SULFATE(tot)	mg/l	P00945	9.1	2.4
NO2-N	mg/l	P00615	<0.10	<0.10
NO2+NO3-N	mg/l	P00630	0.51	<0.10
NH3-N	mg/l	P00610	<.01	0.20
TOTAL KJELDAHL-N	mg/l	P00625	0.94	5.40
ORGANIC N	mg/l	P00605	0.94	5.20
NO3-N	mg/l	P00620	0.51	<0.10
TOTAL N	mg/l	P00600	1.45	5.40
TOTAL ORTHO P AS P	mg/l	P70507	<.01	0.04
TOTAL P AS P	mg/l	P00665	0.05	0.09
TURBIDITY	JTU	P00076	1.0	2.2
TOTAL DISSOLVED SOLIDS	mg/l	P70300	57	68

GREAT EGG HARBOR RIVER BASIN

DEEP RUN PCGE14

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	8.6	11.0	9.8	1.7
PH-FIELD	pH	2	4.2	4.3	4.2	(4.2)
PH-LAB	pH	2	4.4	4.5	4.4	(4.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	41.0	43.0	42.0	1.4
ALKALINITY	mg/l	1	<0.2	<0.2	<0.2	
ACIDITY	mg/l	1	<0.5	<0.5	<0.5	
HARDNESS	mg/l	2	9	9	9	
SULFATE(tot)	mg/l	2	2.4	9.1	5.8	4.8
NO2-N	mg/l	2	<0.10	<0.10	<0.10	
NO2+NO3-N	mg/l	2	<0.10	0.51	0.26	0.36
NH3+NH4-N	mg/l	2	<.01	0.20	0.10	0.14
TOTAL KJELDAHL-N	mg/l	2	0.94	5.40	3.17	3.15
ORGANIC N	mg/l	2	0.94	5.20	3.07	3.01
NO3-N	mg/l	2	<0.10	0.51	0.26	0.36
TOTAL N	mg/l	2	1.45	5.40	3.43	2.79
TOTAL ORTHO P AS P	mg/l	2	<.01	0.04	0.02	0.03
TOTAL P AS P	mg/l	2	0.05	0.09	0.07	0.03
TURBIDITY	JTU	2	1.0	2.2	1.6	0.9
TOTAL DISSOLVED SOLIDS	mg/l	2	57	68	63	8

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

GREAT EGG HARBOR RIVER BASIN

BABCOCK CREEK PCGE9

STATION LOCATION: ROUTE 322 (BLACK HORSE PIKE), HAMILTON TOWNSHIP, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			18	8
YEAR			91	91
WEATHER	code	P00041	6	0
WATER TEMPERATURE	deg. C	P00010	7.5	13.0
DISSOLVED OXYGEN	mg/l	P00299	10.2	9.2
PH-FIELD	pH	P00400	4.1	4.4
PH-LAB	pH	P00403	4.2	4.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	50.0	45.0
ALKALINITY	mg/l	P00410	<0.2	
ACIDITY	mg/l	P00436		<0.5
HARDNESS	mg/l	P00900	9	7
SULFATE(tot)	mg/l	P00945	8.9	4.7
NO2-N	mg/l	P00615	<0.10	<0.10
NO2+NO3-N	mg/l	P00630	0.18	0.20
NH3+NH4-N	mg/l	P00610	<.01	<0.10
TOTAL KJELDAHL-N	mg/l	P00625	0.42	2.60
ORGANIC N	mg/l	P00605	0.42	2.60
NO3-N	mg/l	P00620	0.18	0.20
TOTAL N	mg/l	P00600	0.60	2.80
TOTAL ORTHO P AS P	mg/l	P70507	<.01	0.02
TOTAL P AS P	mg/l	P00665	0.05	0.08
TURBIDITY	JTU	P00076	1.5	1.1
TOTAL SUSPENDED SOLIDS	mg/l	P00530		
TOTAL DISSOLVED SOLIDS	mg/l	P70300	54	38

GREAT EGG HARBOR RIVER BASIN

BABCOCK CREEK PCGE9

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	9	6.9	10.4	8.5	1.2
PH-FIELD	pH	8	4.1	5.6	4.5	(4.5)
PH-LAB	pH	8	4.2	5.8	4.5	(4.6)
SPECIFIC CONDUCTIVITY-LAB	umhos	9	33.4	98.4	56.2	19.5
ALKALINITY	mg/l	6	<0.2	11.0	3.5	3.9
ACIDITY	mg/l	3	<0.5	114.0	52.7	57.5
HARDNESS	mg/l	2	7	9	8	1
SULFATE(tot)	mg/l	2	4.7	8.9	6.8	3.0
NO2-N	mg/l	9	<0.10	<0.10	<0.10	
NO2+NO3-N	mg/l	9	0.18	0.51	0.37	0.12
NH3+NH4-N	mg/l	9	<.01	0.11	0.04	0.04
TOTAL KJELDAHL-N	mg/l	9	0.16	2.60	0.62	0.77
ORGANIC N	mg/l	9	0.10	2.60	0.57	0.78
NO3-N	mg/l	9	0.18	0.51	0.37	0.11
TOTAL N	mg/l	9	0.52	2.80	0.99	0.72
TOTAL ORTHO P AS P	mg/l	8	<.01	0.07	0.02	0.02
TOTAL P AS P	mg/l	9	<.02	0.28	0.06	0.09
TURBIDITY	JTU	2	1.1	1.5	1.3	0.3
TOTAL SUSPENDED SOLIDS	mg/l	7	<1	16	6	7
TOTAL DISSOLVED SOLIDS	mg/l	9	3	88	48	24

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

GREAT EGG HARBOR RIVER BASIN

WATERING RACE BRANCH PCGE11

STATION LOCATION: ROUTE 50, HAMILTON, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			18	8
YEAR			91	91
WEATHER	code	P00041	6	0
WATER TEMPERATURE	deg. C	P00010	8.0	16.5
DISSOLVED OXYGEN	mg/l	P00299	10.0	7.4
PH-FIELD	pH	P00400	4.0	4.1
PH-LAB	pH	P00403	4.2	4.3
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	49.0	40.0
ALKALINITY	mg/l	P00410	<0.2	
ACIDITY	mg/l	P00436		20.5
HARDNESS	mg/l	P00900	4	8
SULFATE(tot)	mg/l	P00945	1.6	1.6
NO2-N	mg/l	P00615	<0.10	<0.10
NO2+NO3-N	mg/l	P00630	<0.10	<0.10
NH3-N	mg/l	P00610	<.01	<0.10
TOTAL KJELDAHL-N	mg/l	P00625	1.32	3.90
ORGANIC N	mg/l	P00605	1.32	3.90
NO3-N	mg/l	P00620	<0.10	<0.10
TOTAL N	mg/l	P00600	1.32	3.90
TOTAL ORTHO P AS P	mg/l	P70507	<.01	0.02
TOTAL P AS P	mg/l	P00665	0.04	0.06
TURBIDITY	JTU	P00076	1.0	1.5
TOTAL DISSOLVED SOLIDS	mg/l	P70300	50	50

GREAT EGG HARBOR RIVER BASIN

WATERING RACE BRANCH PCGE11

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	7.4	10.0	8.7	1.8
PH-FIELD	pH	2	4.0	4.1	4.1	(4.1)
PH-LAB	pH	2	4.2	4.3	4.2	(4.2)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	40.0	49.0	44.5	6.4
ALKALINITY	mg/l	1	<0.2	<0.2	<0.2	
ACIDITY	mg/l	1	20.5	20.5	20.5	
HARDNESS	mg/l	2	4	8	6	3
SULFATE(tot)	mg/l	2	1.6	1.6	1.6	
NO2-N	mg/l	2	<0.10	<0.10	<0.10	
NO2+NO3-N	mg/l	2	<0.10	<0.10	<0.10	
NH3+NH4-N	mg/l	2	<.01	<0.10		
TOTAL KJELDAHL-N	mg/l	2	1.32	3.90	2.61	1.82
ORGANIC N	mg/l	2	1.32	3.90	2.61	1.82
NO3-N	mg/l	2	<0.10	<0.10	<0.10	
TOTAL N	mg/l	2	1.32	3.90	2.61	1.82
TOTAL ORTHO P AS P	mg/l	2	<.01	0.02	0.01	0.01
TOTAL P AS P	mg/l	2	0.04	0.06	0.05	0.01
TURBIDITY	JTU	2	1.0	1.5	1.3	0.3
TOTAL DISSOLVED SOLIDS	mg/l	2	50	50	50	

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

GREAT EGG HARBOR RIVER BASIN

GRAVELLY RUN PCGE6

STATION LOCATION: ROUTE 559, HAMILTON TOWNSHIP, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			12	8
YEAR			91	91
WEATHER	code	P00041	0	0
WATER TEMPERATURE	deg. C	P00010	7.0	13.5
DISSOLVED OXYGEN	mg/l	P00299	10.9	10.1
PH-FIELD	pH	P00400	4.1	4.1
PH-LAB	pH	P00403	4.1	4.4
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	40.0	40.0
ALKALINITY	mg/l	P00410	<0.2	
ACIDITY	mg/l	P00436		<0.5
HARDNESS	mg/l	P00900	5	9
SULFATE(tot)	mg/l	P00945	6.0	1.7
NO2-N	mg/l	P00615	<.05	<.10
NO2+NO3-N	mg/l	P00630	0.15	<.10
NH3+NH4-N	mg/l	P00610	0.02	<.10
TOTAL KJELDAHL-N	mg/l	P00625	2.35	2.90
ORGANIC N	mg/l	P00605	2.33	2.90
NO3-N	mg/l	P00620	0.15	<.10
TOTAL N	mg/l	P00600	2.50	2.90
TOTAL ORTHO P AS P	mg/l	P70507	<.01	0.04
TOTAL P AS P	mg/l	P00665	0.06	0.08
TURBIDITY	JTU	P00076	1.1	1.0
TOTAL SUSPENDED SOLIDS	mg/l	P00530		
TOTAL DISSOLVED SOLIDS	mg/l	P70300	56	54

GREAT EGG HARBOR RIVER BASIN

GRAVELLY RUN PCGE6

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	9	8.6	11.0	9.6	0.9
PH-FIELD	pH	9	4.1	4.9	4.3	(4.2)
PH-LAB	pH	8	4.1	5.2	4.4	(4.4)
SPECIFIC CONDUCTIVITY-LAB	umhos	9	38.6	89.1	54.1	17.0
ALKALINITY	mg/l	4	<0.2	2.0	1.3	1.0
ACIDITY	mg/l	5	<0.5	56.0	36.8	22.1
HARDNESS	mg/l	2	5	9	7	3
SULFATE(tot)	mg/l	2	1.7	6.0	3.9	3.0
NO2-N	mg/l	9	<.05	<.10		
NO2+NO3-N	mg/l	9	<.10	0.34	0.17	0.10
NH3+NH4-N	mg/l	9	<.10	0.13	<.10	<.10
TOTAL KJELDÁHL-N	mg/l	9	0.11	2.90	0.76	1.07
ORGANIC N	mg/l	9	0.11	2.90	0.73	1.08
NO3-N	mg/l	9	<.10	0.34	0.17	0.10
TOTAL N	mg/l	9	0.24	2.90	0.94	1.02
TOTAL ORTHO P AS P	mg/l	9	<.01	0.04	0.01	0.01
TOTAL P AS P	mg/l	9	<.02	0.08	0.03	0.03
TURBIDITY	JTU	2	1.0	1.1	1.1	0.1
TOTAL SUSPENDED SOLIDS	mg/l	7	1	6	3	2
TOTAL DISSOLVED SOLIDS	mg/l	8	25	67	47	13

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

GREAT EGG HARBOR RIVER BASIN

SOUTH RIVER PCGE15

STATION LOCATION: ROUTE 668 (WIRE ROAD), HAMILTON, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			18	8
YEAR			91	91
WEATHER	code	P00041	6	0
WATER TEMPERATURE	deg. C	P00010	8.0	15.0
DISSOLVED OXYGEN	mg/l	P00299	11.0	9.6
PH-FIELD	pH	P00400	4.6	4.9
PH-LAB	pH	P00403	4.7	5.0
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	32.0	32.0
ALKALINITY	mg/l	P00410	<0.2	
ACIDITY	mg/l	P00436		1.9
HARDNESS	mg/l	P00900	9	8
SULFATE(tot)	mg/l	P00945	5.3	2.2
NO2-N	mg/l	P00615	<0.10	<0.10
NO2+NO3-N	mg/l	P00630	0.67	0.40
NH3-N	mg/l	P00610	<.01	<0.10
TOTAL KJELDAHL-N	mg/l	P00625	1.71	3.50
ORGANIC N	mg/l	P00605	1.71	3.50
NO3-N	mg/l	P00620	0.67	0.40
TOTAL N	mg/l	P00600	2.38	3.90
TOTAL ORTHO P AS P	mg/l	P70507	<.01	0.02
TOTAL P AS P	mg/l	P00665	0.07	0.08
TURBIDITY	JTU	P00076	1.1	1.4
TOTAL DISSOLVED SOLIDS	mg/l	P70300	49	35

GREAT EGG HARBOR RIVER BASIN

SOUTH RIVER PCGE15

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	9.6	11.0	10.3	1.0
PH-FIELD	pH	2	4.6	4.9	4.7	(4.7)
PH-LAB	pH	2	4.7	5.0	4.8	(4.8)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	32.0	32.0	32.0	
ALKALINITY	mg/l	1	<0.2	<0.2	<0.2	
ACIDITY	mg/l	1	1.9	1.9	1.9	
HARDNESS	mg/l	2	8	9	9	1
SULFATE(tot)	mg/l	2	2.2	5.3	3.8	2.2
NO2-N	mg/l	2	<0.10	<0.10	<0.10	
NO2+NO3-N	mg/l	2	0.40	0.67	0.54	0.19
NH3+NH4-N	mg/l	2	<.01	<0.10		
TOTAL KJELDAHL-N	mg/l	2	1.71	3.50	2.61	1.27
ORGANIC N	mg/l	2	1.71	3.50	2.61	1.27
NO3-N	mg/l	2	0.40	0.67	0.54	0.19
TOTAL N	mg/l	2	2.38	3.90	3.14	1.07
TOTAL ORTHO P AS P	mg/l	2	<.01	0.02	0.01	0.01
TOTAL P AS P	mg/l	2	0.07	0.08	0.08	0.01
TURBIDITY	JTU	2	1.1	1.4	1.3	0.2
TOTAL DISSOLVED SOLIDS	mg/l	2	35	49	42	9.9

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

GREAT EGG HARBOR RIVER BASIN

STEPHENS CREEK PCGE16

STATION LOCATION: ROUTE 50 (STEPHENS LAKE OUTLET), ESTELL MANOR, ATLANTIC COUNTY

PARAMETER	UNIT	STORET CODE	SAMPLING DATE	
MONTH			3	5
DAY			18	8
YEAR			91	91
WEATHER	code.	P00041	6	0
WATER TEMPERATURE	deg. C	P00010	8.5	19.5
DISSOLVED OXYGEN	mg/l	P00299	11.2	8.7
PH-FIELD	pH	P00400	4.9	5.4
PH-LAB	pH	P00403	5.2	5.5
SPECIFIC CONDUCTIVITY-LAB	umhos	P00095	22.0	28.0
ALKALINITY	mg/l	P00410	2.9	
ACIDITY	mg/l	P00436		3.3
HARDNESS	mg/l	P00900	8	9
SULFATE(tot)	mg/l	P00945	2.5	1.3
NO2-N	mg/l	P00615	<0.10	<0.10
NO2+NO3-N	mg/l	P00630	0.46	0.40
NH3-N	mg/l	P00610	<.01	<0.10
TOTAL KJELDAHL-N	mg/l	P00625	1.32	2.40
ORGANIC N	mg/l	P00605	1.32	2.40
NO3-N	mg/l	P00620	0.46	0.40
TOTAL N	mg/l	P00600	1.78	2.80
TOTAL ORTHO P AS P	mg/l	P70507	0.09	0.04
TOTAL P AS P	mg/l	P00665	0.23	0.26
TURBIDITY	JTU	P00076	0.6	1.0
TOTAL DISSOLVED SOLIDS	mg/l	P70300	38	23

GREAT EGG HARBOR RIVER BASIN

STEPHENS CREEK PCGE16

SUMMARY STATISTICS **

PARAMETER	UNIT	N	MIN	MAX	MEAN	STD
DISSOLVED OXYGEN	mg/l	2	8.7	11.2	10.0	1.8
PH-FIELD	pH	2	4.9	5.4	5.1	(5.1)
PH-LAB	pH	2	5.2	5.5	5.3	(5.3)
SPECIFIC CONDUCTIVITY-LAB	umhos	2	22.0	28.0	25.0	4.2
ALKALINITY	mg/l	1	2.9	2.9	2.9	
ACIDITY	mg/l	1	3.3	3.3	3.3	
HARDNESS	mg/l	2	8	9	9	1
SULFATE(tot)	mg/l	2	1.3	2.5	1.9	0.9
NO2-N	mg/l	2	<0.10	<0.10	<0.10	
NO2+NO3-N	mg/l	2	0.40	0.46	0.43	<0.10
NH3+NH4-N	mg/l	2	<.01	<0.10		
TOTAL KJELDAHL-N	mg/l	2	1.32	2.40	1.86	0.76
ORGANIC N	mg/l	2	1.32	2.40	1.86	0.76
NO3-N	mg/l	2	0.40	0.46	0.43	<0.10
TOTAL N	mg/l	2	1.78	2.80	2.29	0.72
TOTAL ORTHO P AS P	mg/l	2	0.04	0.09	0.07	0.04
TOTAL P AS P	mg/l	2	0.23	0.26	0.25	0.02
TURBIDITY	JTU	2	0.6	1.0	0.8	0.3
TOTAL DISSOLVED SOLIDS	mg/l	2	23	38	31	11

** Summary statistics were calculated using the data presented in this report and the two previous Pinelands Commission reports published in 1989 and 1990.

Table 23. Township abbreviations

Township	Abbreviation
Barneгат	BA
Bass River	BR
Berkley	BEY
Berlin	BE
Dennis	D
Dover	DO
Eagleswood	EAG
Eastampton	EA
Egg Harbor City	EHC
Estell Manor	EM
Evesham	EV
Folsom	FO
Hamilton	HA
Hammonton	HM
Jackson	JA
Lacey	LA
Little Egg Harbor	LEH
Lumberton	LU
Manchester	MN
Maurice River	MR
Medford	ME
Middle	M
Mullica	MU
New Hanover	NH
Ocean	OC
Pemberton	P
Plumsted	PL
Shamong	SH
Southampton	SA
Stafford	ST
Tabernacle	TA
Upper	U
Washington	WA
Waterford	WT
Woodland	WO

Table 24. County abbreviations

County	Abbreviation
Atlantic	AT
Burlington	BU
Camden	CA
Cape May	CM
Cumberland	CU
Ocean	OC

Table 25. Index to Pinelands U.S.G.S. quadrangle maps

Quadrangle Number	Quadrangle Name	Quadrangle Number	Quadrangle Name
1	Columbus	26	Oswego Lake
2	New Egypt	27	West Creek
3	Cassville	28	Ship Bottom
4	Lakehurst	29	Newfield
5	Moorestown	30	Buena
6	Mt. Holly	31	Newtonville
7	Pemberton	32	Egg Harbor City
8	Browns Mills	33	Green Bank
9	Whiting	34	New Gretna
10	Keswick Grove	35	Tuckerton
11	Toms River	36	Five Points
12	Seaside Park	37	Dorothy
13	Clementon	38	Mays Landing
14	Medford Lakes	39	Pleasantville
15	Indian Mills	40	Oceanville
16	Chatsworth	41	Brigantine Inlet
17	Woodmansie	42	Port Elizabeth
18	Brookville	43	Tuckahoe
19	Forked River	44	Marmora
20	Barnegat Light	45	Ocean City
21	Pitman East	46	Port Norris
22	Williamstown	47	Heislerville
23	Hammonton	48	Woodbine
24	Atsion	49	Sea Isle City
25	Jenkins	50	Stone Harbor

References

APHA-AWWA-WPCF. 1980. Standard Methods for the Examination of Water and Wastewater. 15th edition.

APHA-AWWA-WPCF. 1985. Standard Methods for the Examination of Water and Wastewater. 16th edition.

Burlington County Health Department Laboratory Standard Operating Procedures.

EPA Methods for Chemical Analysis of Water and Wastes. 1974. EPA-625-/6-74-003.

EPA Methods for Chemical Analysis of Water and Wastes. March 1983. EPA-60014-79-020.

Federal Registrar. October 26, 1984. Volume 49. Number 209.

Hach Handbook of Water Analysis. 1979. Hach Chemical Company, Loveland, Colorado.

N.J. Department of Environmental Protection. 1987. Field Procedures Manual for Water-Data Acquisition. Division of Water Resources, Trenton.

N.J. Department of Environmental Protection. 1987. Mullica River Basin surface water quality monitoring project. New Jersey Department of Environmental Protection, Division of Water Resources, Bureau of Monitoring Management, Trenton.

U.S. Geological Survey. 1979. Methods for Analysis of Inorganic Substances in Water and Fluvial Sediments.

U.S. Geological Survey Water Data Report NJ-89-1.

Wetzel, R.G. 1983. Limnology. 2nd edition. Saunders College Publ., Philadelphia.

Windisch, M.A. 1990. New Jersey Surface Water Quality Data 1988-1990. New Jersey Pinelands Commission, New Lisbon.

Windisch, M.A. and R.A. Zampella. 1989. New Jersey Surface Water Quality Data 1983-1988. New Jersey Pinelands Commission, New Lisbon.

