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

Water-Quality Data for Selected Wells in New Jersey and New York, 1996-98

Open-File Report 01-378

Report Documentation Page

Form Approved
OMB No. 0704-0188

Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

1. REPORT DATE	2. REPORT TYPE	3. DATES COVERED
2003	**N/A**	**-**

4. TITLE AND SUBTITLE	5a. CONTRACT NUMBER
Water-Quality Data for Selected Wells in New Jersey and New York, 1996-98	5b. GRANT NUMBER
	5c. PROGRAM ELEMENT NUMBER
6. AUTHOR(S)	5d. PROJECT NUMBER
	5e. TASK NUMBER
	5f. WORK UNIT NUMBER
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) **U.S. Department of the Interior 1849 C. Street, NW Washington, DC 20240**	8. PERFORMING ORGANIZATION REPORT NUMBER
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)	10. SPONSOR/MONITOR'S ACRONYM(S)
	11. SPONSOR/MONITOR'S REPORT NUMBER(S)

12. DISTRIBUTION/AVAILABILITY STATEMENT
Approved for public release, distribution unlimited

13. SUPPLEMENTARY NOTES
The original document contains color images.

14. ABSTRACT

15. SUBJECT TERMS

16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT	b. ABSTRACT	c. THIS PAGE			
unclassified	**unclassified**	**unclassified**	**SAR**	**203**	

Standard Form 298 (Rev. 8-98)
Prescribed by ANSI Std Z39-18

Water-Quality Data for Selected Wells in New Jersey and New York, 1996-98

By Kathleen L. Hibbs, Paul E. Stackelberg, Leon J. Kauffman, and Mark A. Ayers

U.S. GEOLOGICAL SURVEY

Open-File Report 01-378

West Trenton, New Jersey

2003

USGS
science for a changing world

U.S. DEPARTMENT OF THE INTERIOR

GALE A. NORTON, *Secretary*

U.S. GEOLOGICAL SURVEY

Charles G. Groat, *Director*

The use of brand names in this report is for indentification purposes only and does not constitute endorsement by the U.S. Geological Survey.

For additional information
write to:

District Chief
U.S Geological Survey
Mountain View Office Park
810 Bear Tavern Road
West Trenton, NJ 08628

Copies of this report can be
purchased from:

U.S. Geological Survey
Branch of Information Services
Box 25286
Denver, CO 80225-0286

CONTENTS

Page

Abstract 1
Introduction 1
Description of study area 3
Hydrogeology 3
Coastal Plain Physiographic Province 3
Piedmont Physiographic Province 5
New England Physiographic Province 5
Methods of investigation 6
Ground-water surveys 6
Subunit surveys 6
Land-use surveys 7
Flow-path survey 8
Sample collection 9
Quality assurance 12
Blank samples 12
Replicate samples 13
Matrix spike samples 13
Surrogate samples 13
Ground-water-quality data 13
Blank samples 14
Replicate samples 15
Matrix spike samples 15
Surrogate samples 18
Summary 18
References cited 194

ILLUSTRATIONS

Figures

1-3. Maps showing:
1. Land use in Long Island, New York, and New Jersey, 1992-95 2
2. Physiographic provinces and urban land use in Long Island, New York, and New Jersey 4
3. Location of (a) domestic wells by subunit survey in New Jersey and part of New York and (b) observation and public-supply wells by land-use survey in the Glassboro study area, New Jersey 7

4-6. Box plots showing:
4. Distributions of schedule 2001 pesticide matrix spike recoveries in samples of ground water collected from selected domestic and observation wells in the Coastal Plain and New England Physiographic Provinces in New Jersey, 1996-98 16
5. Distributions of schedule 2050 pesticide matrix spike recoveries in samples of ground water collected from selected domestic and observation wells in the Coastal Plain and New England Physiographic Provinces in New Jersey, 1996-98 . 17
6. Distributions of selected volatile organic compound matrix spike recoveries in ground water collected from selected domestic and observation wells in the Coastal Plain and New England Physiographic Provinces of New Jersey, 1996-98 . 18

WATER-QUALITY DATA FOR SELECTED WELLS IN NEW JERSEY AND NEW YORK 1996-98

By Kathleen L. Hibbs, Paul E. Stackelberg, Leon J. Kauffman, and Mark A. Ayers

ABSTRACT

Water-quality data were collected during 1996-98 for 217 wells in New Jersey and 3 wells in New York as part of the U. S. Geological Survey's National Water Quality Assessment Program. Samples were collected for five ground-water surveys that were designed to assess water quality in major aquifer systems, with an emphasis on recently recharged (shallow) ground water associated with present and recent human activities. This report (1) summarizes the hydrogeologic framework in the areas of data collection; (2) describes the objectives and procedures for designing each ground-water survey; (3) summarizes the procedures and protocols for data collection, analysis, and quality control; and (4) lists the concentrations of inorganic constituents, volatile organic compounds, pesticides, nutrients, and trace elements present in the ground-water samples.

INTRODUCTION

About 7.5 million people living in New Jersey or on Long Island, New York, used ground water as their source of drinking water in 1990 (Ayers and others, 2000). The U.S. Environmental Protection Agency (USEPA) has designated the Long Island aquifer system as the sole source of potable water for the nearly 3 million residents of Nassau and Suffolk Counties, New York (Leamond and others, 1992). In the southern and northwestern parts of New Jersey, nearly all the population relies on ground water for drinking and everyday use (Clawges and others, 1999).

About 40 percent of the ground water withdrawn for domestic and community supplies in New Jersey and Long Island, New York, is obtained from surficial aquifer systems or aquifers that underlie and are in direct hydraulic connection with surficial aquifers (Ayers and others, 2000). Surficial aquifers, and those in direct hydraulic connection with them, are considered vulnerable to contamination introduced at or near land surface because their recharge is derived primarily from (1) rainfall that infiltrates sediments and moves to the water table, (2) recharge basins that collect rainfall and storm-sewer runoff, and (3) septic systems. The effects that development and land use have on the chemical quality of water that recharges surficial aquifers in New Jersey and on Long Island, New York, is, therefore, of concern.

In 1991, the U.S. Geological Survey (USGS) began the National Water Quality Assessment (NAWQA) program. The primary objectives of the NAWQA program are to provide an improved understanding of the spatial extent of water-quality conditions; how water quality changes with time; and how development, human activities, and natural factors affect water quality across the Nation (Gilliom and others, 1995). The NAWQA program focuses on water quality in more than 50 major river basins and aquifer systems across the Nation that, when taken together, include water resources in watersheds that cover about one-half of the land area of the conterminous United States (U.S. Geological Survey, 1999) and are available to more than 60 percent of the population. NAWQA began investigations in 20 areas (referred to as study units) in 1991 and phased in work in more than 30 additional areas by 1997. The Long Island–New Jersey Coastal Drainages (LINJ) study began in 1994. The study area discussed in this report includes about 6,000 square miles (mi^2) of the LINJ study unit plus an additional 3,300 mi^2 in western New Jersey (fig. 1). Data collected by the NAWQA program will improve the understanding of current water-quality conditions; trends in water-quality conditions; and the effects that development, human activities, and natural factors have on water quality. This improved understanding will allow water-resource managers and policy makers to better anticipate, prioritize, and manage water quality in various hydrogeologic and land-use settings and to consider natural processes and human activities when developing land-manage-

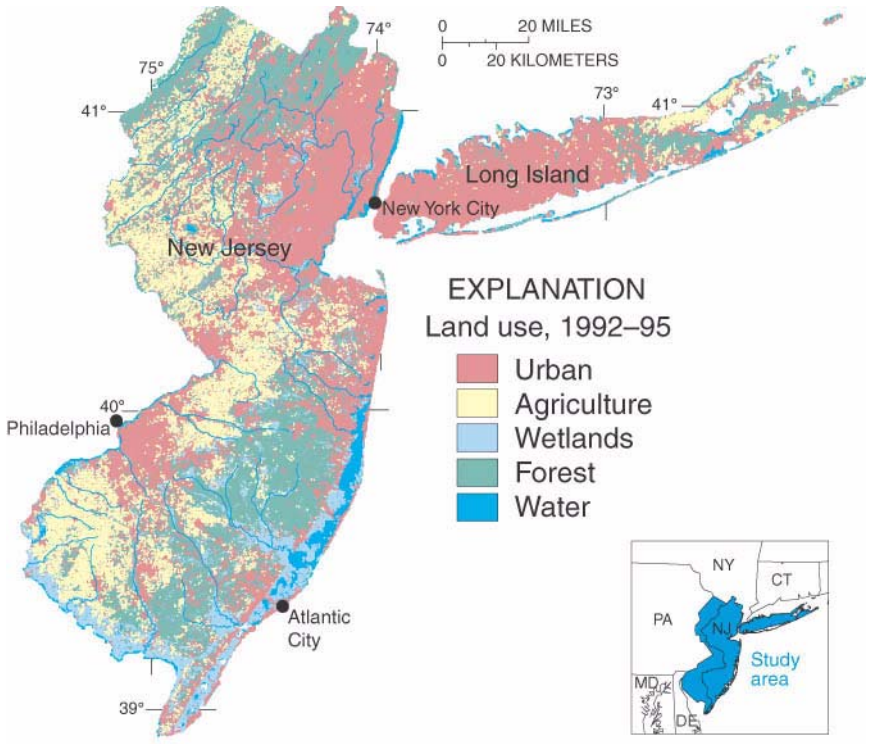

Figure 1. Land use in Long Island, New York, and New Jersey, 1992-95.

ment and water-management strategies designed to restore and protect water quality.

This report provides a brief description of the three types of ground-water surveys --subunit, land-use, and flow-path--conducted as part of the LINJ study during 1996–98. The quality-control methods used and the results of analyzes of ground-water samples collected during these surveys are presented. Data on inorganic constituents, volatile organic compounds, pesticides, nutrients, and trace elements in samples from 220 wells are presented in tables and figures.

Description of Study Area

The study area (fig. 1) has a population of about 15 million people (Ayers and others, 2000) and encompasses some of the most densely populated metropolitan areas in the Nation. For more than two centuries a prosperous commercial and industrial economy has been centered on the seaports of New York City and Philadelphia, Pa. In the early 1970s, 22 percent of the land was developed as urban residential, commercial, or industrial. By the mid-1990s (fig. 2), urban land use had grown to 33 percent, an 11 percent increase in urban land and a corresponding decrease in forest and agricultural land. Population growth in the study area for the same period was about 8 percent, but Long Island showed a slight decline (Ayers and others, 2000). The cost of land and tremendous pressure for development have resulted in diminished agricultural activities in the area. For example, agriculture made up nearly 60 percent of the land use in 1900. By the mid-1990s, agriculture accounted for only 14 percent of the land use. The more intensively cultivated areas remaining are located in eastern Long Island and in western and southern New Jersey (fig. 1). The remaining 53 percent of the area in the mid-1990s was undeveloped land, principally forest (31 percent), wetlands (16 percent), and water (6 percent). As demonstrated in the last two decades of the 1900s, however, agricultural and forested areas are rapidly becoming urban communities.

Hydrogeology

About two-thirds of the study area is in the Coastal Plain Physiographic Province which is characterized by flat to gently rolling topography and aquifers that comprise unconsolidated sands and gravels of sedimentary or glacial origins. The other one-third, north of the Fall Line in the New England and Piedmont provinces (fig. 2), is characterized by rolling to hilly topography and aquifers that comprise weathered and fractured bedrock or glacial deposits.

Coastal Plain Physiographic Province

The New Jersey Coastal Plain is a seaward dipping wedge of unconsolidated sediments that ranges in age from Cretaceous to Holocene and thickens seaward from a feather edge near the Fall Line to more than 6,500 ft at the southern tip of Cape May County. Nine major aquifers and six major confining units have been defined and described for the sediments of the New Jersey Coastal Plain (Zapecza 1989). The following discussion of hydrogeology in the New Jersey Coastal Plain is limited to the Kirkwood-Cohansey aquifer system because all wells sampled in the Coastal Plain during this study are screened in this unit. More detailed discussions of the geology and hydrogeology of the Kirkwood-Cohansey aquifer system are provided in Zapecza (1989), Nemickas and Carswell (1976), Isphording and Lodding (1969), Owens and others (1998), Carter (1978), and Owens and Minard (1979).

The Kirkwood-Cohansey aquifer system is made up of the Grenloch Sand Member of the Kirkwood Formation, the Cohansey Sand, and, where present, the overlying Bridgeton Formation (Zapecza, 1989). The Grenloch Sand Member is generally composed of lignitic, clayey, fine-grained sands near the base with occasional lenses of fine gravel that grade upward into silty fine sands (Isphording and Lodding, 1969). The top of the unit is generally coarser and consists of intercalated, thin beds of silt and medium sand. The Cohansey Sand overlies the Grenloch Sand Member of the Kirkwood Formation and is generally distinguished from the Grenloch Sand Member by its coarser grained sands (Carter, 1978) composed predominantly of quartz and containing minor amounts of pebbly sand, fine- to coarse-grained sand, silty and clayey sand, and interbedded clay (Zapecza, 1989). The Bridgeton Formation, which overlies the Cohansey Sand in areas of higher elevation, is composed of coarse-grained sand and gravel (Zapecza, 1989; and Owens and Minard, 1979). Where present, this unit can add 30 to 50 ft of thickness to the Kirkwood-Cohansey aquifer system. Sediments from the Kirkwood-Cohansey aquifer system are generally highly

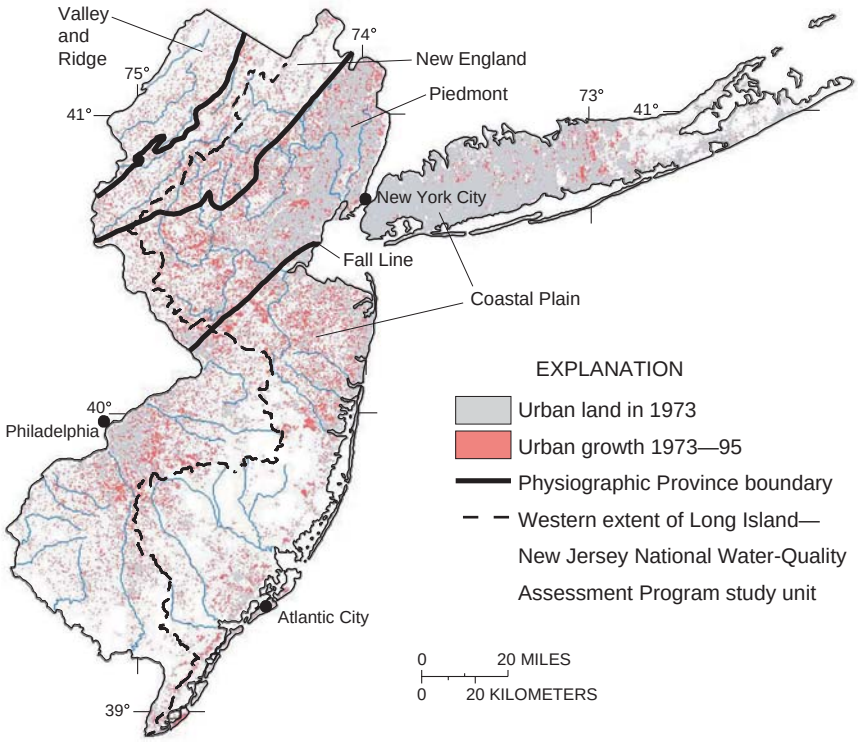

Figure 2. Physiographic provinces and urban land use in Long Island, New York, and New Jersey.

transmissive; however, local lenses of clay and clayey and silty sand are present and are naturally less transmissive. The Alloway Clay Member of the Kirkwood Formation underlies the Kirkwood-Cohansey aquifer system throughout the LINJ study unit and functions as a continuous and competent confining bed (Nemickas and Carswell, 1976).

Piedmont Physiographic Province

In New Jersey, the Piedmont Physiographic Province coincides with the Newark Basin (fig. 2). Detailed discussions of the geology and hydrogeology of the Newark Basin are provided in Szabo and others (1997), Sloto and Schreffler (1994), Serfes (1994), Kasabach (1966), and Michalski (1990).

The principal formations of the Newark Basin include from older to younger the Stockton Formation, the Lockatong Formation, and the Brunswick Group, which includes four sedimentary formations, three igneous formations, and diabase intrusives (Serfes, 1994). One of the Brunswick Group formations, the Passaic Formation, together with the Stockton and Lockatong Formations compose the predominant aquifers within the Newark Basin in New Jersey and account for 95 percent of the water withdrawn from bedrock (Serfes, 1994). Domestic wells sampled during the coarse of this investigaion are located in these formations and in several basaltic formations. The following discussion, therefore, is limited to these formations.

The Stockton Formation is composed of the oldest sediments in the Newark Basin (Szabo and others, 1997; Sloto and Schreffler, 1994). The Stockton Formation is lithologically diverse with beds commonly pinching out or grading into beds of different lithology and (or) texture both along strike and in the direction of dip. Lithologies, therefore, can differ greatly over small horizontal and vertical distances (Szabo and others, 1997; Kasabach, 1966). Medium- to coarse-grained sandstones and conglomerates predominate in the bottom half of the formation, whereas beds of fine-grained sandstone and shale predominate in the upper half of the formation and grade into the overlying Lockatong Formation (Kasabach, 1966). Most of the water in the Stockton Formation is within 500 ft of land surface as a result of weathering and abundant and interconnected fractures (Kasabach, 1966). Ground water in the Stockton Formation usually is present under water-table (unconfined) conditions, although semi-confined conditions occur locally in productive zones where interbedded shales and mudstones act as confining layers (Kasabach, 1966).

The Lockatong Formation interfingers with the upper beds of the Stockton Formation (Kasabach, 1966; Serfes, 1994). Because the Lockatong Formation generally has low permeability and porosity, virtually all ground water must be transmitted through fractures and joints, which in the Lockatong Formation are usually widely spaced and tight (Kasabach, 1966). Thus, the Lockatong is generally a poorer producer of water than either the Stockton or Passaic Formations.

The basal section of the Passaic Formation contains interbedded mudstones, siltstones, and shales that grade upward into siltstones and fine-grained sandstones in the middle and upper sections (Szabo and others, 1997; Kasabach, 1966). Passaic Formation strata generally have low primary permeability and porosity; however, unlike the Lockatong Formation, the Passaic Formation is highly fractured and has many closely spaced joints that result in relatively high secondary permeability (Kasabach, 1966). Ground water flows through the Passaic Formation in nearly horizontal fractures parallel to bedding and in nearly vertical fractures and joints. (Kasabach, 1966; Michalski, 1990). On the basis of substantial field evidence, Michalski (1990) conceptualizes the Passaic Formation as a multiunit aquifer system consisting of thin water-bearing units that lie parallel to bedding with much thicker, strata-bound, intervening confining units. In addition to horizontal fractures along bedding planes, several widely spaced, near-vertical fractures run across the sequence and impart a leaky character to the entire formation. Ground water in the Passaic Formation is present under both confined and unconfined conditions with high producing unconfined conditions prevailing to a maximum depth of about 250 ft below land surface, below which low producing confined and semiconfined water-bearing zones are present to a maximum depth of about 600 ft (Rima, 1955). Most domestic and public-supply wells are installed within the upper 250 ft where unconfined conditions predominate.

New England Physiographic Province

The New England Physiographic Province in New Jersey (fig. 2) is characterized by belts of northeast-southwest trending ridges seperated by broad valleys. The upland ridges are dominated by

igneous and metamorphic rocks of Precambrian age (Serfes, in press; Volkert, 1988; Gill and Vecchioli, 1965). The Precambrian age rocks are in fault and uncomformable contact with generally less resistant Paleozoic rocks that form the intervening valleys and consist primarily of complexly folded and faulted conglomerates, sandstones, shale, and limestone (Gill and Vecchioli, 1965). Many of the Paleozoic rocks are poor producers of water; however, locally the Kittatiny Limestone provides substantial amounts of water and is an important aquifer. North of the line of glaciation, unconsolidated surficial deposits mantle the bedrock surfaces in many areas. These deposits are of glacial, lacustrine, and fluvial origin and consist primarily of sand, clay, and gravel which form locally important aquifer systems.

METHODS OF INVESTIGATION

The overall objectives and procedures for designing ground-water surveys for the NAWQA program are described in Gilliom and others (1995) and are summarized here. Protocols and procedures for the selection and installation of wells and the collection of quality-control and environmental samples are described in Lapham and others (1995) and Koterba and others (1995), respectively, and are summarized here. These objectives, protocols, and procedures are designed to promote consistency and comparability of ground-water data among study units of the NAWQA program and to ensure the collection of samples that accurately represent the chemical quality of ground water.

Ground-Water Surveys

The NAWQA design for ground-water studies focuses on water-quality conditions in major aquifers, with emphasis on recently recharged (shallow) ground water associated with present and recent human activities (Gilliom and others, 1995). The three major components of NAWQA ground-water studies include (1) subunit surveys that assess the overall water quality of major aquifer systems, (2) land-use surveys that assess the quality of recently recharged ground water associated with major land uses and hydrogeologic settings, and (3) flow-path surveys that examine relations among land-use practices, ground-water flow patterns, and contaminant occurrence and transport in surficial aquifer systems.

Subunit Surveys

The primary objective of the subunit survey is to provide a broad assessment of the water quality in aquifers that represent important present and future ground-water resources in the study unit and in which water quality is not currently well documented (Gilliom and others, 1995). Many aquifers targeted for subunit surveys have large aerial and depth dimensions. In addition, many of these aquifers are composed of bedrock. These characteristics preclude the installation of wells for the purpose of sampling and, thus, subunit surveys generally rely on domestic wells in order to collect samples of water from these aquifers. Subunit surveys, therefore, provide data representative of the chemical quality of water from those parts of the aquifer systems used for domestic supplies.

Three subunit surveys were conducted as part of the LINJ NAWQA project during 1996-98. Two of these surveys were conducted in the fractured bedrock aquifers of the New England and Piedmont Physiographic Provinces of northern New Jersey, and the third was conducted in the Coastal Plain Physiographic Province of southern New Jersey (fig. 3a). The fractured bedrock aquifers of northern New Jersey are important sources of domestic drinking-water supplies. During 1991-92, an estimated 325,000 residents in the New England and Piedmont provinces were supplied by domestic wells (Nawyn, 1998). Because relatively few regional-scale ground-water-quality investigations have been conducted in the Piedmont and New England Physiographic Provinces in northern New Jersey, regional ground-water-quality conditions are generally not well documented. Domestic-well permits issued by the New Jersey Department of Environmental Protection (NJDEP) since 1990 indicate that most recently installed domestic wells in the northern part of the State were installed in bedrock aquifers in either the New England province or the southern part of the Piedmont province. (Data are on file at the USGS New Jersey District office, W. Trenton, N.J.) The northern part of the Piedmont province (northeastern New Jersey) is served primarily by public-supply purveyors. For these reasons, the subunit surveys conducted in northern New Jersey were focused on the New England province and the southern part of the Piedmont province.

The surficial aquifer system in the Coastal Plain of southern New Jersey is also an important source of domestic drinking-water supplies; an

estimated average of 44 Mgal/d was withdrawn in the Coastal Plain for domestic supply during 1991-92 (Nawyn, 1998). The Coastal Plain of New Jersey and Long Island, New York, has been the focus of numerous regional-scale water-quality investigations, including those conducted by the USGS's Toxic Substances Hydrology Program during the 1980's and early 1990's (Clawges and others, 1999; Eckhardt and others, 1989; Eckhardt and Stackelberg, 1995; Stackelberg and others, 1997; and Vowinkel and Battaglin, 1997). Although regional ground-water-quality conditions have been documented by these various investigations, there was a need to provide additional regional-scale water-quality data for the Coastal Plain of southern New Jersey to complement other NAWQA surveys in the Mid-Atlantic Coastal Plain region and to enhance regional and National interpretations of current water-quality conditions.

A random site-selection program (Scott, 1990) was used to select domestic wells for each subunit survey. Use of this program ensured the collection of data representative of overall ground-water quality for each survey and the statistical analysis of the water-quality data that would not be biased by the effects of spatial autocorrelation (Barringer and others, 1990). For each subunit survey, the targeted study area (New England, southern Piedmont, or Coastal Plain Physiographic Province) was subdivided into equal areas based on the number of wells to be sampled. The New England and Coastal Plain provinces were subdivided into 30 equal areas and the southern Piedmont into 22 equal areas. Within each area, the location of all domestic wells that met study design criteria were identified, and the site-selection program was used to randomly select one well. If permission to sample the randomly selected well could not be obtained, this process was repeated until each subarea had one well for which permission had been obtained to collect water-quality samples. Locations of the domestic wells sampled for these three subunit surveys are shown in figure 3a.

Land-Use Surveys

The primary objective of land-use surveys is to assess the chemical quality of recently recharged (shallow) ground water associated with the primary land uses and hydrogeologic conditions in the study area (Gilliom and others, 1995). These surveys are designed to allow direct assessments of relations between natural and human factors and shallow-ground-water quality. To meet these objectives, wells sampled for land-use surveys are (1) located in recharge areas, (2) screened near the

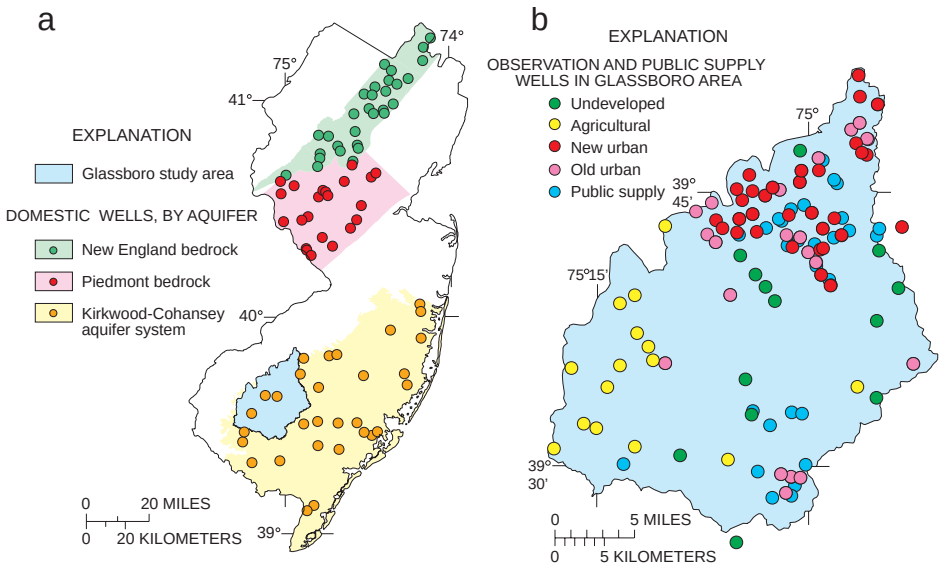

Figure 3. Location of (a) domestic wells by subunit survey in New Jersey and part of New York and (b) observation and public-supply wells by land-use survey in the Glassboro study area, New Jersey.

water table, and (3) located directly downgradient from the specific targeted land-use setting in areas where land use has been stable for several years (Gilliom and others, 1995). Moreover, wells sampled for land-use surveys should have short (ideally about 2 ft) open intervals located near the top of an unconfined aquifer and should not be heavily pumped. Most wells that meet these criteria are observation wells installed by NAWQA.

Four land-use surveys were conducted as part of the LINJ NAWQA project during 1996-98. These surveys were conducted in the Glassboro study area (fig. 3b) of southern New Jersey to improve the understanding of relations between natural and human factors and ground-water quality. The chemical quality of ground water is of particular concern in the Glassboro study area because ground water provides most of the public and domestic supply. This is one of the fastest growing regions in New Jersey. Its population was more than 250,000 in 1990 and is expected to increase as suburban development continues (N.J. Department of Environmental Protection, 1993). Residential and commercial developments built during 1970-2000 occupy large tracts of land that previously were undeveloped or used for orchard and row-crop farming.

The NJDEP has identified serious water-supply problems in the Glassboro study area (N.J. Department of Environmental Protection, 1993). Historically, this region has relied heavily on the confined Potomac-Raritan-Magothy aquifer system for public water supply. More recently, the NJDEP has restricted withdrawals from this aquifer system as a result of severe water-level declines (N.J. Department of Environmental Protection, 1996). Increased withdrawals from the surficial Kirkwood-Cohansey aquifer system is one alternative that would meet current and future water-supply demands. The aquifer system is vulnerable to contamination introduced at or near land surface because it is unconfined and consists of highly permeable unconsolidated sands and gravels. The effects of natural and human factors on ground-water quality in this region are of concern because of the increasing reliance on this aquifer for public and domestic supply.

To conduct the land-use surveys, the study region (Glassboro study area) was divided into four subareas on the basis of predominant land-use settings. The four subareas are (1) urban land developed for at least 5 but no more than 30 years (new urban), (2) urban land developed for 30 years or more (old urban), (3) agricultural, and (4) undeveloped. Within each land-use subarea, potential well sites were located using the random site-selection program (Scott, 1990) with a minimum separation distance of 1 km. Prior to well installation it was confirmed that the predominant land use within a 500-meter radius of each well site was the target land use (for example, agricultural) further ensuring that samples collected from the well network would be representative of the chemical quality of water that recharged each land-use setting.

In all, the land-use survey networks consist of 78 wells. The new urban subarea was represented by 30 wells, the old urban by 20 wells, the agricultural by 15 wells, and the undeveloped by 13 wells (fig. 3b). Wells were installed by hollow-stem auger and consist of threaded 2-inch-diameter polyvinyl chloride (PVC). Generally, wells were screened over a 2-ft interval about 10 ft below the water table. In some wells, longer screen intervals were used because aquifer materials did not provide sufficient yields; however, screens lengths at the 25^{th}, 50^{th}, and 75^{th} percentiles were all 2 ft. The median depth below the water table to the midpoint of the screen interval at the time of well installation was 10 ft; the depths to the midpoint at 25^{th} and 75^{th} percentiles were 9 ft and 11 ft, respectively. Well screens and casings below the water table were packed with sand that collapsed from the borehole. Commercially prepared and washed sand was added for a 3-ft interval above the water table, and the remaining annular space was grouted with bentonite slurry to within about 2 ft of land surface. The top 2 ft of the borehole was grouted with concrete to the land surface. Overpumping and mechanical surging were used to remove fine-grained sediments from around the screened interval of each well and to maximize the well yield. Additional information on the design and results of these land-use surveys are available in Stackelberg and others (1997).

Flow-Path Survey

The primary objectives of flow-path surveys are to characterize the spatial and temporal distribution of constituents in ground water in relation to ground-water flow patterns in surficial aquifer systems and to improve the understanding of the evolution of water-quality conditions along flow

paths (Gilliom and others, 1995). These studies provide a perspective on the potential significance of shallow ground-water quality to regional water supplies and streams.

One flow-path survey was conducted as part of the LINJ NAWQA project during 1996-98. This survey was conducted in the Glassboro study area of southern New Jersey and was accomplished by installing and sampling 30 observation wells and sampling 30 public-supply wells (fig. 3b). The 30 observation wells installed as part of the flow-path survey are co-located with the land-use survey wells in either the new- or old-urban setting. These wells were constructed as described for the land-use survey wells but are screened over a 2- to 2.5-ft interval about 30 to 40 ft below the water table. The 30 public-supply wells sampled as part of the flow-path survey were selected because of their proximity to the observation wells in the land-use and flow-path surveys. These 30 public-supply wells represent the majority of supply wells that existed in the Glassboro study area at the time of this investigation. Additional information on the design and results of this flow-path survey are available in Stackelberg and others (2000).

Sample Collection

At each domestic and public-supply well, Teflon discharge tubing was attached to the water line prior to any water-treatment equipment or water tanks. Flow was routed through an instrumented flow-through chamber and measurements of temperature, pH, and specific conductance were made every 3 to 5 minutes until such time that three or more successive measurements were within (plus or minus) the following values: 0.2 ^{o}C, 0.1 pH units, and 5 µS/cm for measurements of specific conductance less than or equal to 100 µS/cm or 10 µS/cm for measurements of specific conductance greater than 100 µS/cm. Once the field characteristics had stabilized, and prior to sample collection, dissolved-oxygen concentration was measured by using a field meter with Clark-type membrane-covered polarographic sensors with built-in thermistors for temperature measurement and compensation.

At each observation well, a water-level measurement was made prior to pumping to calculate the casing volume. A 2-inch-diameter, stainless steel submersible pump with 0.5-inch Teflon discharge tubing was used for well evacuation and sample collection. The pump was placed near the water table to begin well evacuation and subsequently was lowered in 2- to 3-ft increments during evacuation until it was about 1 ft above the screened interval. This ensured the removal of stagnant water from the well prior to sampling. A minimum of three casing volumes was evacuated prior to sampling. Towards the end of well evacuation, flow was routed through an instrumented flow-through chamber and measurements of temperature, pH, and specific conductance were allowed to stabilize. Dissolved oxygen concentration was measured as described for domestic and public-supply wells.

All water-quality samples were collected by routing flow to a sample-collection chamber; samples that require chemical preservation were opened, treated, and closed in a preservation chamber. The sample-collection and preservation chambers are designed to minimize the exposure of sample water to airborne contaminants.

Samples for analysis for the 86 VOCs listed in table 1 were collected in quadruplicate by filling 40-mL amber glass vials to overflowing and immediately capping. Subsequently, VOC samples were acidified with 2 drops of hydrochloric acid to obtain a pH of 2 or less. All pesticide samples were collected in baked, 1.0-liter amber glass bottles. In addition, samples for analysis for those pesticides listed in tables 2, 3, and 4 were filtered through a 142-mm diameter, 0.7-µm pore size, pre-baked, glass-fiber filter. Samples for analysis for dissolved organic carbon were pressure filtered with nitrogen gas through a 47-mm-diameter, 0.45-µm pore size silver filter. Samples for analysis for major inorganic ions were collected in triplicate; one sample was filtered through a 0.45-µm pore size capsule filter and acidified with 1 mL of nitric acid; one sample was similarly filtered but not acidified; and one sample was neither filtered nor acidified (Koterba and others, 1995). Samples for analysis for nutrients were filtered through a 0.45-µm pore size capsule filter. All samples were chilled on ice immediately following collection, if applicable, chemically preserved, and shipped to the NWQL within 24 hours. Following sample collection, alkalinity was determined on site by incremental equivalence titration (Koterba and others, 1995) unless field pH measurements were less than 4.5.

To remove contaminants from sampling equipment, all equipment used during the sampling process was subjected to the following decontami-

Table 1. Volatile organic compounds analyzed for in ground-water samples from the study area, New Jersey and New York

[CAS, chemical abstract number; MRL, method reporting level in micrograms per liter]

Compound	CAS	MRL
1,1,1,2-Tetrachloroethane	630-20-6	0.044
1,1,1-Trichloroethane	71-55-6	.32
1,1,2,2-Tetrachloroethane	79-34-5	.132
1,1,2-Trichloroethane	79-00-5	.064
1,1,2-Trichlorotrifluoro-ethane	76-13-1	.092
1,1-Dichloroethane	75-34-3	.066
1,1-Dichloroethylene	75-35-4	.044
1,1-Dichloropropene	563-58-6	.026
1,2,3,4-Tetramethyl-benzene	488-23-3	.23
1,2,3,5-Tetramethy-lbenzene	527-53-7	.24
1,2,3-Trichlorobenzene	87-61-6	.266
1,2,3-Trichloropropane	96-18-4	.07
1,2,3-Trimethylbenzene	526-73-8	.124
1,2,4-Trichlorobenzene	120-82-1	.188
1,2,4-Trimethylbenzene	95-63-6	.056
1,2-Dibromo-3-chloro-propane	96-12-8	.214
1,2-Dibromoethane	106-93-4	.036
1,2-Dichlorobenzene	95-50-1	.048
1,2-Dichloroethane	107-06-2	.134
1,2-Dichloropropane	78-87-5	.068
1,3,5-Trimethylbenzene	108-67-8	.044
Naphthalene	91-20-3	.250
1,3-Dichlorobenzene	541-73-1	.054
1,3-Dichloropropane	142-28-9	.116
1,4-Dichlorobenzene	106-46-7	.05
2,2-Dichloropropane	594-20-7	.078
2-Butanone	78-93-3	1.65
2-Chlorotoluene	95-49-8	.042
2-Hexanone	591-78-6	.746
3-Chloropropene	107-05-1	.196
4-Chlorotoluene	106-43-4	.056
4-Isopropyl-1-methylbenzene	99-87-6	.11
4-Methyl-2-pentanone	108-01-1	.374
Acetone	67-64-1	4.9
Acrolein	107-02-8	1.43
Acrylonitrile	107-13-1	1.23
Benzene	71-43-2	.032
Bromobenzene	108-86-1	.036
Bromochloromethane	74-97-5	.044
Bromodichloromethane	75-27-4	.048
Bromoform	75-25-2	.104
Bromomethane	74-83-9	.148
Butylbenzene	104-51-8	.186
Carbon disulfide	75-15-0	.08
Chlorobenzene	108-90-7	.028
Chloroethane	75-00-3	.12
Chloroform	67-66-3	.052
Chloromethane	74-87-3	.254
Dibromochloromethane	124-48-1	.182
Dibromomethane	74-95-3	.05
Dichlorodifluoromethane	75-71-8	.096
Dichloromethane	75-09-2	.382
Diethyl ether	60-29-7	.17
Diisopropyl ether	108-20-3	.098
Ethyl methacrylate	97-63-2	.278
Ethyl tert-butyl ether	637-92-3	0.054
Ethylbenzene	100-41-4	.03
Hexachlorobutadiene	87-68-3	.142
Hexachloroethane	67-72-1	.362
Isopropylbenzene	98-82-8	.032
Methyl acrylate	96-33-3	.612
Methyl acrylonitrile	126-98-7	.570
Methyl iodide	74-88-4	.076
Methyl methacrylate	80-62-6	.350
Propylbenzene	103-65-1	.042
Styrene	100-42-5	.042
Tetrachloroethylene	127-18-4	.038
Tetrachloromethane	56-23-5	.088
Tetrahydrofuran	109-99-9	1.150
Toluene	108-88-3	.038
Trichloroethylene	79-01-6	.038
Trichlorofluoromethane	75-69-4	.032
Vinyl bromide	593-60-2	.100
Vinyl chloride	75-01-4	.112
cis-1,2-Dichloroethylene	156-59-2	.038
cis-1,3-Dichloropropene	10061-01-5	.092
m- and p-Xylene	106-42-3 & 108-38-3	.064
o-Ethyl toluene	611-14-3	.100
o-Xylene	95-47-6	.064
sec-Butylbenzene	135-98-8	.048
tert-Butyl methyl ether	1634-04-4	.112
tert-Butylbenzene	98-06-6	.096
tert-Pentyl methyl ether	994-05-8	.112
trans-1,2-Dichloro-ethylene	156-60-5	.032
trans-1,3-Dichloro-propene	10061-02-6	.134
trans-1,4-Dichloro-2-butene	110-57-6	.692

Table 2. Pesticides analyzed for in ground-water samples from the study area, New Jersey and New York

[CAS, chemical abstract number; MRL, method reporting level in micrograms per liter]

Compound	CAS	MRL
Herbicides		
Acetochlor	34256-82-1	0.002
Alachlor	15972-60-8	.002
Atrazine	1912-24-9	.001
Benfluralin	1861-40-1	.002
Butylate	2008-41-5	.002
Cyanazine	21725-46-2	.004
Dacthal	1861-32-1	.002
EPTC	759-94-4	.002
Ethalfluralin	55283-68-6	.004
Linuron	330-55-2	.002
Metolachlor	51218-45-2	.002
Metribuzin	21087-64-9	.004
Molinate	2212-67-1	.004
Napropamide	15299-99-7	.003
Pebulate	1114-71-2	.004
Pendimethalin	40487-42-1	.004
Prometon	1610-18-0	.018
Pronamide	23950-58-5	.003
Propachlor	1918-16-7	.007
Propanil	709-98-8	.004
Simazine	122-34-9	.005
Tebuthiuron	34014-18-1	.010
Terbacil	5902-51-2	.007
Thiobencarb	28249-77-6	.002
Triallate	2303-17-5	.001
Trifluralin	1582-09-8	0.002
Insecticides		
Azinphos-methyl	86-50-0	.001
Carbaryl	63-25-2	.003
Carbofuran	1563-66-2	.003
Chlorpyrifos	2921-88-2	.004
Diazinon	333-41-5	.002
Dieldrin	60-57-1	.001
Disulfoton	298-04-4	.017
Ethoprophos	13194-48-4	.003
Fonofos	944-22-9	.003
Lindane	58-89-9	.004
Malathion	121-75-5	.005
Parathion	56-38-2	.004
Parathion-methyl	298-00-0	.006
cis-Permethrin	52774-45-7	.005
Phorate	298-02-2	.002
Propargite	2312-35-8	.013
Terbufos	13071-79-9	.013
Degradation products		
2,6-Diethylaniline	579-66-8	.003
Deethylatrazine	6190-65-4	.002
alpha-HCH	319-84-6	.002
p,p'-DDE	72-55-9	.006

Table 3. Pesticide compounds analyzed for in samples collected from observation and domestic wells in the Coastal Plain and New England Physiographic Provinces, New Jersey and New York

[CAS, chemical abstract number; MRL, minimum reporting level in micrograms per liter; NA, not applicable; Watstore, water storage and retrieval system]

Watstore	CAS	Constituents	MRL
49295	90-15-3	1-Naphthol	0.007
39742	93-76-5	2,4,5-T	.035
39732	94-75-7	2,4-D	.035
38746	94-82-6	2,4-DB	.035
39762	93-72-1	2-(2,4,5-Trichloro-phenoxy) propionic acid	.021
49308	16655-82-6	3-Hydroxycarbo-furan	.014
49299	534-52-1	4,6-Dinitro-2-methylphenol	.035
49315	50594-66-6	Acifluorfen	.035
49312	116-06-3	Aldicarb	NA
49313	1646-88-4	Aldicarb sulfone	.016
49314	1646-87-3	Aldicarb sulfoxide	.021
38711	25057-89-0	Bentazon	.014
04029	314-40-9	Bromacil	.035
49311	1689-84-5	Bromoxynil	.035
49310	63-25-2	Carbaryl	.008
49309	1563-66-2	Carbofuran	.028
49307	133-90-4	Chloramben	.011
49306	1897-45-6	Chlorothalonil	.035
49305	1702-17-6	Clopyralid	.05
49304	887-54-7	Dacthal monoacid	.017
38442	1918-00-9	Dicamba	.035
49303	1194-65-6	Dichlobenil	.020
49302	120-36-5	Dichlorprop	.032
49301	88-85-7	Dinoseb	.035
49300	330-54-1	Diuron	.020
49298	66230-04-4	Esfenvalerate	.019
49297	101-42-8	Fenuron	.013
38811	2164-17-2	Fluometuron	.035
38478	330-55-2	Linuron	.018
38482	94-74-6	MCPA	.05
38487	94-81-5	MCPB	.035
38501	2032-65-7	Methiocarb	.026
49296	16752-77-5	Methomyl	.017
49294	555-37-3	Neburon	.015
49293	27314-13-2	Norflurazon	.024
49292	19044-88-3	Oryzalin	.019
38866	23135-22-0	Oxamyl	.018
49291	1918-02-1	Picloram	.05
49236	122-42-9	Propham	.035
38538	114-26-1	Propoxur	.035
49235	55335-06-3	Triclopyr	.05

Table 4. Pesticide compounds, polychlorinated biphenyls, and polychlorinated naphthalene analyzed for in samples collected from observation wells for the land-use survey, Glassboro study area, N.J.

[CAS, chemical abstract number; MRL, minimum reporting limit in micrograms per liter]

Constituents	CAS	MRL
2,4,5-T	93-76-5	0.010
2,4-D	94-75-7	.010
2-(2,4,5-Trichlorophenoxy) propionic acid	93-72-1	.010
Dicamba	1918-00-9	.010
Dichlorprop	120-36-5	.010
Picloram	1918-02-1	.010
Aldrin	309-00-2	.01
Lindane	58-89-9	.01
Chlordane	12789-03-6	.10
p,p'-DDD	72-54-8	.01
p,p'-DDE	3547-04-4	.01
p,p'-DDT	50-29-3	.01
Dieldrin	60-57-1	.01
Endrin	72-20-8	.01
Toxaphene	8001-35-2	1.0
Heptachlor	76-44-8	.01
Heptachlor epoxide	1024-57-3	.01
Mirex	2385-85-5	.01
Silvex	93-72-1	.01
2,4-DP	120-36-5	.01
Perthane	72-56-0	.1
Methoxychlor	72-43-5	.01
Endosulfan	115-29-7	.01
Polychlorinated biphenyls		.1
Polychlorinated naphthalene		.1

nation procedures immediately after completion of sampling at each field-sampling site. All sampling equipment was disassembled, cleaned in a non-phosphate detergent solution, and rinsed with tap water. This procedure was repeated with a deionized-water rinse. In addition, pesticide filter units were rinsed with methanol, air dried, and wrapped in aluminum foil. The sampling pump and pump tubing were flushed with tap water. A non-phosphate detergent and tap water solution was then circulated for about 10 minutes. This solution was flushed with deionized water. A 0.5-liter of methanol was added to the deionized water, and this solution was circulated for about 10 minutes. Finally, the methanol and deionized water solution was flushed with deionized water, the pump was wrapped in aluminum foil, and the pump tubing reel was covered with a plastic bag.

Quality Assurance

To ensure the accuracy and reproducibility of water-quality data, the NAWQA program has developed stringent quality-assurance protocols (Koterba and others, 1995). This section describes the purposes for the various types of quality-control samples collected during this study. Because these data have not been reported previously, a brief summary of findings is provided in the Ground-water-quality data section.

Blank Samples

Blanks are solutions that initially are free of the constituents of interest (source solutions) and subsequently are processed in a manner designed to determine whether the sampling, shipping, or analytical processes introduced contaminants (bias) into the samples (Christenson and Rea, 1993). Three types of blanks were used during the course of this study: field, trip, and source-solution blanks. Field blanks consist of water that is run through sampling equipment and collected under ambient field conditions. Field blanks are especially useful for determining whether sampling procedures, sampling equipment, or field conditions have introduced contaminants to environmental samples. Trip blanks consist of VOC vials of source-solution water prepared in the NWQL, shipped to the study unit, carried into the field, and shipped back to the NWQL with environmental samples. Trip blanks are especially useful for determining whether sample vials or diffusion during shipping and storage are a source of VOC contamination of environmental samples. In addition, source-solution blanks were obtained by pouring laboratory supplied source-solution water directly into a VOC vial in the field. Source-solution blank samples are useful for determining the source of VOC contaminants identified in field blanks.

The NWQL provided source-solution water used for field-blank samples; however, the methods used to prepare source-solution water at NWQL were changed during the course of this study. Prior to August 1997, the NWQL ensured the integrity of source-solution water for use as field-blank samples by performing quality-assurance tests (lot analyzes) on each shipment of source-solution water received from the manufacturer. VOC blank water was received from the manufacturer in cases of four 1-gallon containers. Samples of source-solution water were taken from

randomly selected 1-gallon containers from each shipment and analyzed for VOCs by using the same analytical procedures used for environmental samples (Conner and others, 1998). When one or more VOCs were detected in source-solution water at or above the laboratory reporting level, the shipments were rejected. Random sampling of the source-solution water was performed periodically to ensure that VOCs were not diffusing into sample containers during storage at the NWQL. Subsequent to August 1997, source-solution water to be used for analysis for VOCs was further processed at NWQL by purging each 1 gallon container of source-solution water with about 20 pounds per square inch nitrogen for a 2-hour period to drive off low-level VOCs (C.G. Reed-Parker, U. S. Geological Survey, oral comm., 1997). In addition, subsequent to August 1997, source-solution blanks were generally collected in the field and analyzed at the NWQL if the associated field-blank sample contained one or more VOCs.

One trip-blank sample was submitted for VOC analysis as part of this study. Nitrogen-purged source-solution water was used to prepare the trip blank prior to shipment to the study area (M.C. Noriega, U. S. Geological Survey, oral comm., 1997).

Replicate Samples

Replicate samples consist of two or more samples collected from the same source, one immediately after the other, that are analyzed in exactly the same manner. Replicate samples were used to measure the variability caused by sampling methods, measure changes in chemistry of ground water during sampling, and test the accuracy of analytical procedures (Christenson and Rea, 1993).

Matrix Spike Samples

Matrix spikes are environmental samples to which known concentrations of specific constituents are added either in the field during sample collection or at the laboratory prior to sample analysis. Matrix spikes provide information on the potential degradation of constituents from the time of sample collection until laboratory analysis. Matrix spikes were used to measure the effects of the chemical composition of the sample on the spiked compounds (matrix effect) and to assess the recovery bias and variability during laboratory analysis (Christenson and Rea, 1993).

Surrogate Samples

Finally, in addition to the aforementioned field quality-control samples, the NWQL routinely prepares and analyzes laboratory quality-control samples to calibrate analytical instruments, validate analytical data, and assess overall laboratory performance. Laboratory quality-control samples discussed in this report include surrogates which are known quantities of specific compounds added to samples in the laboratory immediately prior to extraction and which provide a means of assessing analytical recovery for each analysis.

GROUND-WATER-QUALITY DATA

Samples from each well (table 5) were analyzed at the USGS National Water Quality Laboratory (NWQL) in Denver, Colorado. A summary of major water-quality findings from these samples is provided in Ayers and others (2000). Specific results from each sample are provided in tables 6-40 and are organized by type of ground-water survey. Field measurements are presented in tables 6 to 11. Methods described in Fishman and Friedman (1989) and Brenton and Arnett (1993) were used to analyze samples for nutrients and filtered organic carbon, respectively; results are presented in tables 12 to 17. Methods described in Fishman and Friedman (1989) were used to analyze samples for major ions and trace elements; the results are presented in tables 18 to 23. Trace elements were analyzed for using the methods described in Faires (1993); results are presented in table 24. Pesticides listed in table 2 were analyzed for using methods described in Zaugg and others (1995); results are presented in tables 25 to 30. Pesticides listed in table 3 were analyzed for using the methods described in Werner and others (1996); results are presented in tables 31 to 33. Pesticides listed in table 4 were analyzed for using methods described in Wershaw and others (1987); results are presented in table 34. VOCs were analyzed for using methods described in Connor and others (1998); results are presented in tables 35 to 40.

The use of methods for the analyzes of pesticides and VOCs described in Zaugg and others (1995), Werner and others (1996), and Connor and others (1998) result in information that allows for the determination of low-level concentrations of these constituents in environmental samples. A long-term method detection level (LT-MDL) is calculated for each constituent in the aforementioned

schedules (Childress and others, 1999). At the LT-MDL concentration, the risk of a false positive detection (analyte reported as present when it is not in the sample) is no more than 1 percent (Childress and others, 1999). The LT-MDL differs by compound and is dependent on other compounds in the sample, instrument performance, and other sources of variation. Analytical results are not censored at the LT-MDL for these methods. If a constituent meets the detection criteria (Zaugg and others, 1995; Werner and others, 1996; Connor and others, 1998) but its concentration is less than the LT-MDL, the concentration is reported as estimated and given an E prefix (for example, E0.01 µg/L). If a compound is not positively identified, it is reported as less than the laboratory reporting limit (Childress and others, 1999).

Blank Samples

Results of analyses of blank samples are presented in tables 40-45. Overall, the results of analyses of field-blank samples indicated that sample collection procedures, sampling equipment, field conditions, and laboratory procedures did not systematically introduce nutrients, major ions and trace elements, or pesticides into environmental samples. Those nutrient and inorganic species that were detected in blank samples (tables 40 and 41) were either infrequently detected in enviromnental samples or were detected at concentrations far less than those in the majority of environmental samples. For example, nitrate plus nitrite nitrogen, the most frequently detected nutrient species, was detected in 5 of 21 field blanks at concentrations ranging from 0.05 to 0.09 mg/L. In general, only samples from shallow observation wells in undeveloped (forested) areas had nitrate plus nitrite concentrations in the range reported in the five field-blank samples. Concentrations of nitrate plus nitrite nitrogen in samples from other wells (tables 12-17) averaged 4 times higher than the highest concentration reported for a field blank.

Thirty-nine field-blank samples were submitted for analysis for the more than 90 pesticide compounds investigated during this study (tables 42-44). With the exception of dieldrin, pesticides were not detected in any of these samples (tables 42-44). Although dieldrin was detected in one field-blank sample at a concentration of 0.0064 µg/L, it was not detected in the associated environmental sample (table 26). This lone detection is, thus, attributed to a spurious event and is not indicative of systematic contamination that is due to field procedures, sampling equipment, or laboratory procedures.

Twenty-six field-blank samples were submitted for VOC analysis during this investigation; the results are shown in table 45. Field-blank samples collected with non-nitrogen-purged source-solution water (prior to August, 1997) were generally contaminated with one or more VOCs. Field-blank samples collected with nitrogen-purged source-solution water (after August 1997) were generally free of VOCs with the exception of three detections of toluene and naphthalene at estimated concentrations ranging from 0.012 to 0.071 µg/L, one detection of acetone at an estimated concentration of 5.9 µg/L, and two detections of chloroform at estimated concentrations of 0.0099 and 0.017 µg/L (table 46). Toluene, naphthalene, and acetone were infrequently detected in environmental samples as part of this investigation. Chloroform, however, was frequently detected in environmental water and is discussed in further detail below. The general absence, however, of VOCs in field-blank samples collected with nitrogen-purged source-solution water indicates that sampling procedures, sampling equipment, and ambient field conditions did not introduce VOC contamination into environmental samples and that the presence of VOCs in field-blank samples collected with non-nitrogen purged source-solution water is due to their presence in the source-solution water.

Chloroform was detected in the NWQL lot analysis of non-nitrogen-purged source-solution water, in each field-blank sample collected by using the non-nitrogen-purged source-solution water, in two field-blank samples collected by using nitrogen-purged source-solution water (table 46), and in the majority of environmental samples (tables 35-40). The estimated concentration of chloroform reported in the NWQL lot analysis of the non-nitrogen-purged source-solution water (0.039 µg/L) is in the same range as estimated concentrations reported in field-blank samples collected by using non-nitrogen-purged source-solution water (0.03-0.07 µg/L) (table 46). In addition, the range of estimated concentrations of chloroform in field-blank samples was less than one order of magnitude (0.03 to 0.07 mg/L), whereas the range of estimated concentrations in environmental samples was more than three orders of magnitude (0.005 to 5.6 mg/L) (tables 35-40). Finally, no pattern of chloroform concentrations

related to sampling sequence was apparent that would indicate systematic contamination due to field procedures. In fact, 10 environmental samples with detectable concentrations of chloroform were collected immediately before environmental samples without detectable concentrations of chloroform, and at three sites where chloroform was not detected in the environmental sample, chloroform was detected in the associated field-blank sample. Thus, the evidence indicates that the presence of chloroform in field-blank samples is likely derived from the source-solution water and is not reflective of systematic contamination that is due to field or laboratory procedures.

Carbon disulfide with an estimated concentration of 0.009 µg/L was the only VOC detected in the trip-blank sample. For twenty-eight percent of the detections of carbon disulfide in environmental samples, concentrations were less than the concentration of carbon disulfide in the trip blank. Carbon disulfide was not detected in any of the 10 field-blank samples collected using nitrogen-purged source-solution water and was detected in only two of the field-blank samples collected by using non-nitrogen-purged source-solution water. Thus, the low-level detection of carbon disulfide in this trip-blank sample is likely due to a spurious contamination event and is not reflective of systematic diffusion of carbon disulfide into environmental samples during sample shipment and storage prior to analysis.

Replicate Samples

Results of analyses of replicate samples are presented in tables 46 to 51. Comparison of the analytical results indicates good agreement between measured concentrations for all constituents. The absolute relative deviation in analyte concentration between environmental and replicate samples was generally less than 10 percent and, thus, variability in analytical results due to sampling or analytical procedures, or changes in chemistry of the ground water during sampling, were negligible.

Matrix Spike Samples

Results from the analyses of matrix spike samples for the pesticides listed on tables 2 and 3 are shown in figures 4 to 6. Acceptable recovery values for pesticides typically range from 80 to 120 percent (Zaugg and others, 1995 and Werner and others, 1996). Median percent recoveries from field and laboratory spikes for pesticides listed in table 2 were generally within the acceptable range (fig. 4). The relative standard deviation for recoveries ranged from 4 to 70 percent with a median relative standard deviation of 12 percent. Six pesticides that were detected in two or more environmental samples had median percent recovery rates from field and laboratory spike samples that were outside the acceptable range; these pesticides also accounted for the highest relative standard deviation values. Three of these pesticides had median percent recovery rates greater than the acceptable range: carbofuran (154 percent), carbaryl (224 percent), and tebuthiuron (139 percent) (fig 4). Zaugg and others (1995) demonstrate that carbofuran and carbaryl exhibit variable recovery rates with this analytical procedure; thus, these pesticides are reported with an E code to qualify the result and caution the user that concentrations are estimated and need to be interpreted in this context (Zaugg and others, 1995). Each recovery rate for carbaryl and 17 of 21 (81 percent) recovery rates for carbofuran were greater than the acceptable range; therefore, concentrations of these compounds may be biased high.

Three pesticides that were detected in two or more environmental samples had median percent recovery rates less than the acceptable range: dieldrin (79 percent), p,p'-DDE (61 percent), and deethylatrazine (42 percent) (fig. 4). Zaugg and others (1995) demonstrate that this analytical procedure results in consistently poor recovery rates for deethylatrazine as a result of poor retention of this compound on the C-18 phase; thus, this compound is reported with an E code to qualify the result and caution the user that concentrations are estimated and need to be interpreted in this context. Every recovery rate for deethylatrazine in field- and laboratory-spiked samples submitted as part of this investigation was less than the acceptable range. The poor recovery rates for deethylatrazine, one of the most frequently detected pesticide compounds in environmental samples likely indicates a low bias for reported concentrations and results in a higher than normal rate of false negatives (compound is reported as not present in sample when, in fact, it is present).

Only 15 pesticides listed in table 3 had median percent recoveries for field and laboratory spikes within the acceptable range; 24 pesticides had median percent recoveries for field and laboratory spikes that were less than 80 percent (fig. 5). The relative standard deviation for recoveries

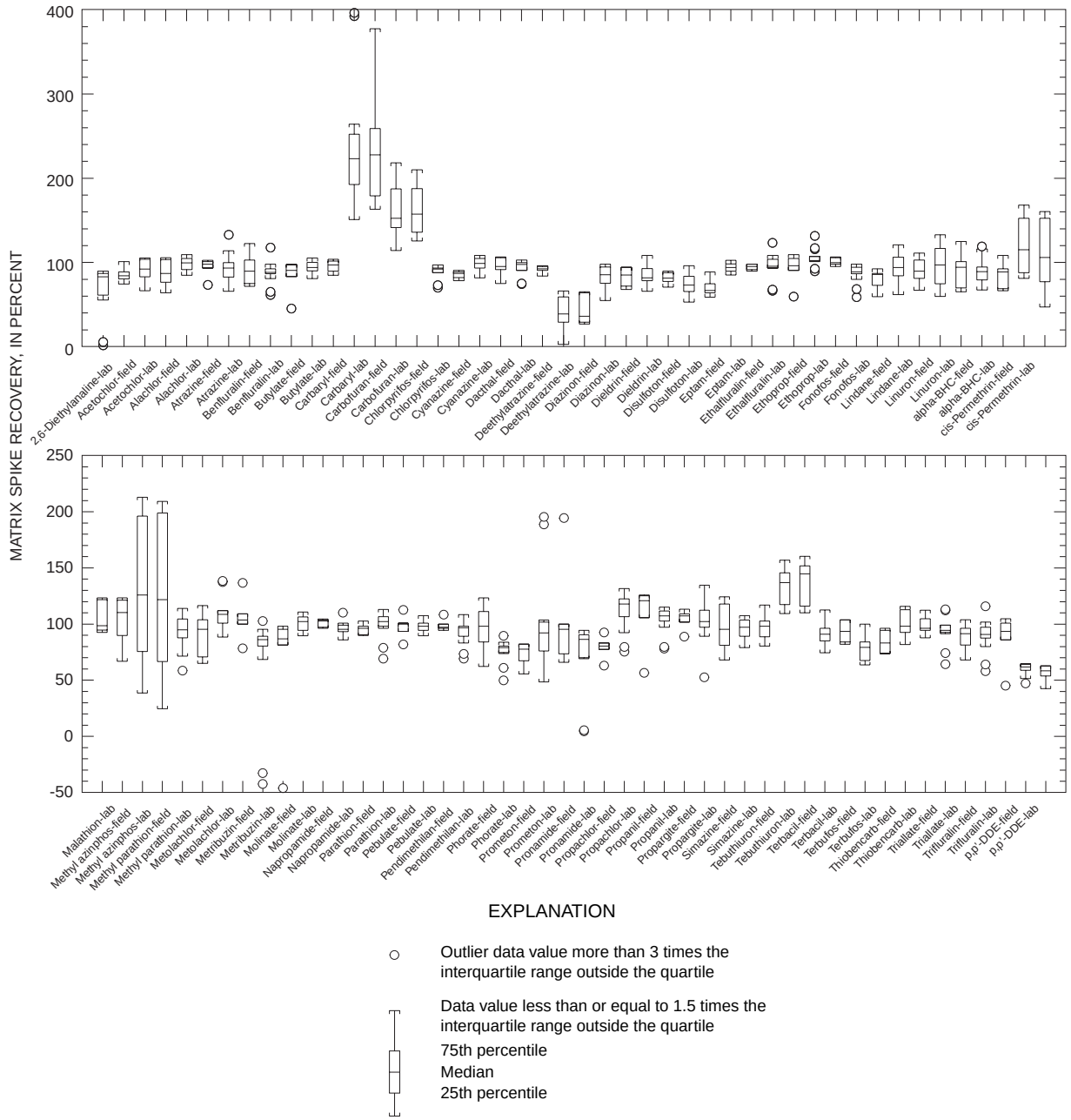

Figure 4. Distributions of schedule 2001 pesticide matrix spike recoveries in samples of ground water collected from selected domestic and observation wells in the Coastal Plain and New England Physiographic Provinces in New Jersey, 1996-98. (lab is laboratory)

ranged from 3.8 to 29 percent with a median of 8.5 percent. A performance review of this method demonstrated lower-than-average recovery and method precision (Werner and others, 1996). Low recovery rates likely result in a low bias for (1) reported concentrations, and (2) detection frequencies as a result of a higher than expected rate of false negatives.

Fourteen VOC field-spiked samples and 7 laboratory-spiked samples were analyzed as part of this study. The results are shown in figure 6. Acceptable recovery ranges for VOCs are typically from 70 to 130 percent (Connor and others, 1998). Thirteen VOCs were included in field and laboratory spike mixtures; median percent recoveries for these compounds were in the acceptable recovery

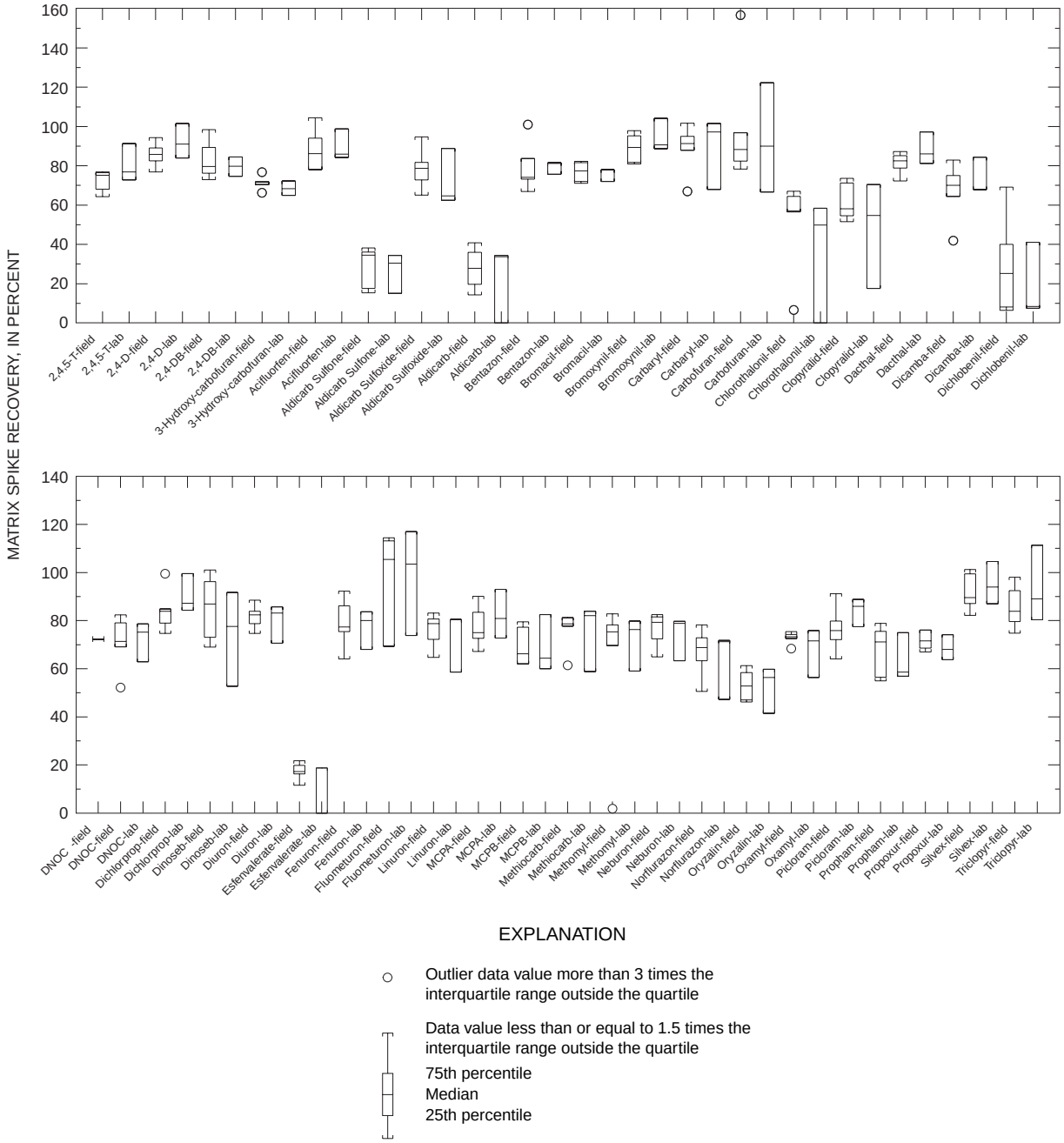

Figure 5. Distributions of schedule 2050 pesticide matrix spike recoveries in samples of ground water collected from selected domestic and observation wells in the Coastal Plain and New England Physiographic Provinces in New Jersey, 1996-98. (lab is laboratory)

range (fig. 6). One spiked sample yielded poor recoveries for methyl-tert-butyl ether (MTBE). Menheer and Brigham (1997) report that spike recoveries are more accurate if the analyte of interest is present at low concentrations in the environmental sample. If the concentration in the environmental sample exceeds the amount added to spiked sample, the spike recovery tends to be masked by uncertainty (imprecision) in the data (Menheer and Brigham, 1997). MTBE was measured at 16.7 mg/L in this environmental sample, which greatly exceeds the spiked concen-

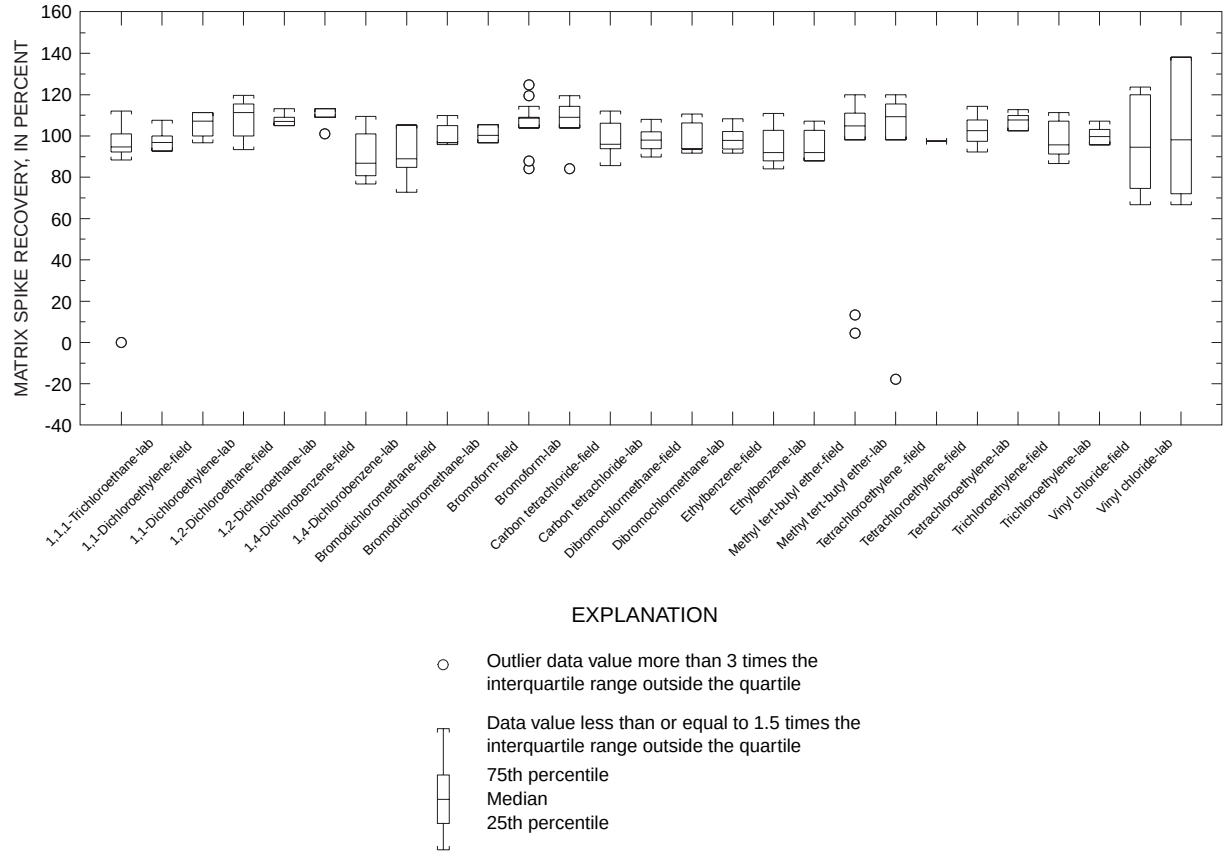

Figure 6. Distributions of selected volatile organic compound matrix spike recoveries in ground water collected from selected domestic and observation wells in the Coastal Plain and New England Physiographic Provinces of New Jersey, 1996-98. (lab is laboratory)

tration; thus, poor MTBE recoveries for this sample are attributed to high concentrations of MTBE in the environmental sample rather than to analytical performance. Median percent recoveries for compounds spiked in the laboratory were generally equal to, or slightly higher than, compounds spiked in the field. Differences in recovery rates for field and laboratory spikes were not statistically significant, and thus, compound degradation prior to laboratory analysis is considered to be negligible.

Surrogate Samples

Results for surrogate recovery rates are presented in tables 35 to 52. Surrogate recovery rates were within acceptable ranges for all constituent groups and indicate that laboratory analytical methods were consistent and accurate during the course of this investigation.

SUMMARY

Water-quality data from 220 wells were used to assess the chemical quality of major aquifer systems across New Jersey and southern New York and recently recharged ground water associated with major land-use settings in the Coastal Plain of southern New Jersey. The data are presented in tables along with (1) specific objectives and procedures for designing each ground-water survey, (2) procedures and protocols for data collection, analysis, and quality control, and (3) a summary of the hydrogeologic framework in area of data collection.

Table 5. Site information, well-construction data, and water levels for wells in the Long Island-New Jersey Coastal Drainages National Water Quality Assessment program study unit, 1996-98
[P, polyvinyl chloride; S, steel; U, coated steel; NAD27, North American Datum of 1927; NAD83, North American Datum of 1983; 121CKKD, Cohansey Sand-Kirkwood Formation; 400PCMB, Precambrian Erathem; 344 CRNL, Cornwall Shale; 344ESPS, Esopus Formation; 112SFDF, Stratified Drift; 351LNGD, Longwood Shale; 231LCKG, Lockatong Formation; 227PSSC, Passaic Formation; 227Diabase, Diabase; 227PRKS, Preakness Basalt; --, municipality not identified; -, no data]

Local identifier	New Jersey well identification number	County	Municipality	Latitude (degrees)	Longitude (degrees)	Latitude/ longitude datum	Depth of well below land surface (feet)	Depth to top of open interval below land surface (feet)
AG01	151207	Gloucester	FRANKLIN TWP	393415.4	745635.1	NAD83	24	22
AG02	151208	Gloucester	HARRISON TWP	394302.6	751012.4	NAD83	33	31
AG03	330817	Salem	UPPER PITTSGROVE TWP	393915.5	751220.9	NAD83	22	20
AG04	330816	Salem	UPPER PITTSGROVE TWP	393627.0	751122.3	NAD83	20	18
AG05	330680	Salem	UPPER PITTSGROVE TWP	393848.2	751323.7	NAD83	32	27
AG06	110692	Cumberland	UPPER DEERFIELD TWP	393058.5	751219.1	NAD83	38	33
AG07	330821	Salem	UPPER PITTSGROVE TWP	393515.8	751648.5	NAD83	61	59
AG08	330822	Salem	UPPER PITTSGROVE TWP	393524.9	751323.2	NAD83	31	29
AG09	330820	Salem	UPPER PITTSGROVE TWP	393710.9	751209.8	NAD83	19	17
AG10	330818	Salem	UPPER PITTSGROVE TWP	393413.2	751416.5	NAD83	32	30
AG11	330819	Salem	UPPER PITTSGROVE TWP	393541.7	751102.9	NAD83	22	20
AG12	110889	Cumberland	UPPER DEERFIELD TWP	393158.9	751502.2	NAD83	39	37
AG13	330834	Salem	ALLOWAY TWP	393213.1	751556.2	NAD83	22	20
AG14	330832	Salem	ALLOWAY TWP	393051.7	751801.0	NAD83	34	32
AG15	330836	Salem	PITTSGROVE TWP	393016.9	750544.0	NAD83	29	27
NU01	151209	Gloucester	WASHINGTON TWP	394326.7	750457.4	NAD83	40	38
NU02	151210	Gloucester	WASHINGTON TWP	394342.6	750400.6	NAD83	19.5	17.5
NU03	151211	Gloucester	WASHINGTON TWP	394428.4	750444.1	NAD83	32	30
NU04	151212	Gloucester	WASHINGTON TWP	394458.0	750400.3	NAD83	22	16
NU05	151221	Gloucester	WASHINGTON TWP	394504.3	750508.5	NAD83	17	15
NU06	070841	Camden	GLOUCESTER TWP	394527.1	750039.5	NAD83	54	52
NU07	070837	Camden	GLOUCESTER TWP	394605.3	745918.2	NAD83	34	32
NU08	151220	Gloucester	WASHINGTON TWP	394338.9	750126.3	NAD83	30.5	28.5
NU09	151219	Gloucester	MONROE TWP	394022.5	745909.1	NAD83	31	29
NU10	151218	Gloucester	MONROE TWP	393948.8	745828.4	NAD83	17	15
NU11	070836	Camden	GLOUCESTER TWP	394604.5	750033.5	NAD83	37	30
NU12	070838	Camden	BERLIN BORO	394734.5	745641.2	NAD83	18	16
NU13	070844	Camden	WINSLOW TWP	394346.7	745949.7	NAD83	34	32
NU14	070839	Camden	VORHEES TWP	395007.7	745624.2	NAD83	44	34
NU15	070840	Camden	WINSLOW TWP	394259.7	745326.1	NAD83	29	27
NU16	070843	Camden	WINSLOW TWP	394232.4	745742.4	NAD83	22	20
NU17	151246	Gloucester	GLASSBORO BORO	394321.6	750636.3	NAD83	19	17
NU18	151244	Gloucester	GLASSBORO BORO	394255.5	750609.0	NAD83	39	33
NU19	070888	Camden	WINSLOW TWP	394254.5	745903.0	NAD83	29	23
NU20	151261	Gloucester	WASHINGTON TWP	394551.2	750414.7	NAD83	23	17
NU21	070864	Camden	VORHEES TWP	395117.4	745629.9	NAD83	71	69
NU22	151250	Gloucester	MONROE TWP	394145.5	745913.3	NAD83	22	20
NU23	151252	Gloucester	MONROE TWP	394154.0	750111.4	NAD83	19	13
NU24	151234	Gloucester	WASHINGTON TWP	394241.4	750506.2	NAD83	25	23
NU25	151256	Gloucester	WASHINGTON TWP	394243.4	750342.8	NAD83	22.5	20.5

Table 5. Site information, well-construction data, and water levels for wells in the Long Island-New Jersey Coastal Drainages National Water Quality Assessment program study unit, 1996-98--Continued

Local identifier	Depth to bottom of open interval below land surface (feet)	Diameter of open interval (in.)	Casing material	Aquifer code	Lithology code	Water-level date	Water level below land surface (feet)
AG01	24	2	P	121CKKD	Sand	08-06-1996	14.69
AG02	33	2	P	121CKKD	Sand	08-02-1996	22.59
AG03	22	2	P	121CKKD	Sand, some clay	08-02-1996	10.76
AG04	20	2	P	121CKKD	Sand, some clay	08-06-1996	12.75
AG05	32	2	P	121CKKD	Sand	05-16-1990	14.50
AG06	38	2	P	121CKKD	Sand	09-28-1990	24.90
AG07	61	2	P	121CKKD	Sand and clay	09-10-1996	45.28
AG08	31	2	P	121CKKD	Sand	09-11-1996	23.78
AG09	19	2	P	121CKKD	Sand, some clay	09-11-1996	6.60
AG10	32	2	P	121CKKD	Sand, some clay	09-12-1996	21.00
AG11	22	2	P	121CKKD	Sand	09-12-1996	8.92
AG12	39	2	P	121CKKD	Sand, some clay	09-17-1996	28.47
AG13	22	2	P	121CKKD	Sand, some clay	09-17-1996	11.10
AG14	34	2	P	121CKKD	Sand and clay	09-20-1996	25.00
AG15	29	2	P	121CKKD	Sand	10-08-1996	18.96
NU01	40	2	P	121CKKD	Sand	08-16-1996	27.90
NU02	19.5	2	P	121CKKD	Sand	08-16-1996	7.48
NU03	32	2	P	121CKKD	Sand	08-15-1996	12.00
NU04	22	2	P	121CKKD	Sand	08-19-1996	6.33
NU05	17	2	P	121CKKD	Sand	08-20-1996	7.45
NU06	54	2	P	121CKKD	Sand	08-20-1996	43.00
NU07	34	2	P	121CKKD	Sand	08-21-1996	24.00
NU08	30.5	2	P	121CKKD	Sand	08-21-1996	20.50
NU09	31	2	P	121CKKD	Sand	08-22-1996	20.00
NU10	17	2	P	121CKKD	Sand	08-26-1996	8.00
NU11	37	2	P	121CKKD	Sand	08-26-1996	22.00
NU12	18	2	P	121CKKD	Sand	08-27-1996	8.15
NU13	34	2	P	121CKKD	Sand	09-04-1996	23.98
NU14	44	2	P	121CKKD	Sand, some clay	09-04-1996	33.00
NU15	29	2	P	121CKKD	Sand	09-05-1996	19.00
NU16	22	2	P	121CKKD	Sand	09-05-1996	11.00
NU17	19	2	P	121CKKD	Sand	09-23-1996	9.05
NU18	39	2	P	121CKKD	Sand, some clay	09-23-1996	24.80
NU19	29	2	P	121CKKD	Sand, some clay	11-05-1996	12.08
NU20	23	2	P	121CKKD	Sand and silt	10-28-1996	1.98
NU21	71	2	P	121CKKD	Sand, some clay	10-30-1996	59.34
NU22	22	2	P	121CKKD	Sand, some clay	11-14-1996	9.92
NU23	19	2	P	121CKKD	Sand	10-18-1996	4.84
NU24	25	2	P	121CKKD	Sand, some clay	09-24-1996	15.50
NU25	22.5	2	P	121CKKD	Sand	09-24-1996	10.50

Table 5. Site information, well-construction data, and water levels for wells in the Long Island-New Jersey Coastal Drainages National Water Quality Assessment program study unit, 1996-98--Continued

Local identifier	New Jersey well identification number	County	Municipality	Latitude (degrees)	Longitude (degrees)	Latitude/ longitude datum	Depth of well below land surface (feet)	Depth to top of open interval below land surface (feet)
NU26	070857	Camden	BERLIN BORO	394656.7	745554.6	NAD83	20	18
NU27	070862	Camden	VORHEES TWP	394942.0	745508.8	NAD83	14	12
NU28	070865	Camden	WINSLOW TWP	394328.8	745812.6	NAD83	19	13
NU29	151258	Gloucester	WASHINGTON TWP	394442.9	750307.4	NAD83	19	17
NU30	151260	Gloucester	WASHINGTON TWP	394508.9	750235.0	NAD83	52	50
OU01	330830	Salem	ELMER BORO	393532.4	751011.1	NAD83	15	13
OU02	110931	Cumberland	VINELAND CITY	392919.8	750116.7	NAD83	51	49
OU03	151217	Gloucester	MONROE TWP	394233.3	750136.2	NAD83	28	26
OU04	151214	Gloucester	CLAYTON BORO	393917.1	750535.2	NAD83	27	25
OU05	011240	Atlantic	BUENA VISTA TWP	393530.3	745237.8	NAD83	19	17
OU06	151248	Gloucester	MONROE TWP	394104.1	745930.4	NAD83	21.5	19.5
OU07	110932	Cumberland	VINELAND CITY	392929.2	750159.1	NAD83	22	20
OU08	070845	Camden	BERLIN BORO	394747.9	745549.1	NAD83	19	17
OU09	151240	Gloucester	GLASSBORO BORO	394209.9	750637.4	NAD83	24	22
OU10	110927	Cumberland	VINELAND CITY	392917.7	750036.7	NAD83	32	30
OU11	151232	Gloucester	PITMAN BORO	394351.0	750801.0	NAD83	19	17
OU12	151254	Gloucester	PITMAN BORO	394419.0	750653.8	NAD83	17	15
OU13	151242	Gloucester	GLASSBORO BORO	394234.9	750713.4	NAD83	17	15
OU14	070859	Camden	PINE HILL BORO	394645.5	745919.8	NAD83	19	17
OU15	110939	Cumberland	VINELAND CITY	392827.8	750138.3	NAD83	37	35
OU16	151269	Gloucester	WASHINGTON TWP	394501.8	750204.7	NAD83	44	42
OU17	070881	Camden	BERLIN BORO	394819.8	745701.7	NAD83	39	37
OU18	070883	Camden	BERLIN TWP	394841.6	745625.1	NAD83	36	34
OU19	151278	Gloucester	MONROE TWP	394137.2	750004.0	NAD83	27	25
OU20	151281	Gloucester	MONROE TWP	394225.5	750038.8	NAD83	24	20
UN01	070835	Camden	WINSLOW TWP	394141.8	745503.7	NAD83	31.6	29.6
UN02	110925	Cumberland	MILLVILLE CITY	392544.9	750507.7	NAD83	26	24
UN03	151215	Gloucester	CLAYTON BORO	394023.3	750347.7	NAD83	19	15
UN04	151216	Gloucester	GLASSBORO BORO	394126.6	750452.1	NAD83	18.5	16.5
UN05	151237	Gloucester	CLAYTON BORO	393943.3	750304.9	NAD83	22	16
UN06	151213	Gloucester	MONROE TWP	393751.8	745512.6	NAD83	15	13
UN07	330837	Salem	PITTSGROVE TWP	393029.7	750907.3	NAD83	20	18
UN08	011242	Atlantic	BUENA VISTA TWP	393339.4	745514.5	NAD83	17	15
UN09	070842	Camden	WINSLOW TWP	393939.3	745341.5	NAD83	14	12
UN10	151239	Gloucester	FRANKLIN TWP	393856.8	750225.3	NAD83	9	7
UN11	070860	Camden	PINE HILL BORO	394710	750040	NAD27	23	21
UN12	330839	Salem	PITTSGROVE TWP	393439.4	750431.0	NAD83	15	13
UN13	110929	Cumberland	VINELAND CITY	393244.4	750404.0	NAD83	12	10
NU01-TEN	151266	Gloucester	WASHINGTON TWP	394326.7	750457.2	NAD83	58	55.5
NU02-TEN	151267	Gloucester	WASHINGTON TWP	394342.6	750400.7	NAD83	43	40.5

Table 5. Site information, well-construction data, and water levels for wells in the Long Island-New Jersey Coastal Drainages National Water Quality Assessment program study unit, 1996-98--Continued

Local identifier	Depth to bottom of open interval below land surface (feet)	Diameter of open interval (in.)	Casing material	Aquifer code	Lithology code	Water-level date	Water level below land surface (feet)
NU26	20	2	P	121CKKD	Sand	11-14-1996	10.50
NU27	14	2	P	121CKKD	Sand, some clay	11-13-1996	4.23
NU28	19	2	P	121CKKD	Sand and clay	11-14-1996	2.81
NU29	19	2	P	121CKKD	Sand	11-06-1996	7.94
NU30	52	2	P	121CKKD	Sand, some clay	11-02-1996	39.02
OU01	15	2	P	121CKKD	Sand, gravel, clay	09-12-1996	4.80
OU02	51	2	P	121CKKD	Sand, some clay	09-24-1996	40.50
OU03	28	2	P	121CKKD	Sand, some clay	10-02-1996	17.60
OU04	27	2	P	121CKKD	Sand, some clay	10-02-1996	15.35
OU05	19	2	P	121CKKD	Sand	10-03-1996	9.25
OU06	21.5	2	P	121CKKD	Sand, some clay	11-05-1996	11.34
OU07	22	2	P	121CKKD	Sand and clay	11-21-1996	16.04
OU08	19	2	P	121CKKD	Sand, gravel, clay	10-07-1996	6.80
OU09	24	2	P	121CKKD	Sand	10-31-1996	11.58
OU10	32	2	P	121CKKD	Sand, some clay	11-19-1996	20.97
OU11	19	2	P	121CKKD	Sand, some clay	10-31-1996	9.10
OU12	17	2	P	121CKKD	Sand and clay	11-05-1996	6.34
OU13	17	2	P	121CKKD	Sand	10-31-1996	6.93
OU14	19	2	P	121CKKD	Sand	11-15-1996	10.02
OU15	37	2	P	121CKKD	Sand and clay	09-16-1997	26.43
OU16	44	2	P	121CKKD	Sand, some clay	08-04-1997	37.91
OU17	39	2	P	121CKKD	Sand, some clay	09-18-1997	28.92
OU18	36	2	P	121CKKD	Sand	09-19-1997	24.94
OU19	27	2	P	121CKKD	Sand, some clay	09-19-1997	15.66
OU20	24	2	P	121CKKD	Sand and clay	10-01-1997	9.87
UN01	31.6	2	P	121CKKD	Sand, some clay	08-06-1996	25.48
UN02	26	2	P	121CKKD	Sand	09-13-1996	14.00
UN03	19	2	P	121CKKD	Sand, some clay	09-18-1996	6.52
UN04	18.5	2	P	121CKKD	Sand, gravel, clay	10-02-1996	8.18
UN05	22	2	P	121CKKD	Sand, some clay	10-03-1996	8.19
UN06	15	2	P	121CKKD	Sand and clay	10-03-1996	5.62
UN07	20	2	P	121CKKD	Sand and clay	11-27-1996	15.23
UN08	17	2	P	121CKKD	Sand and clay	10-03-1996	7.38
UN09	14	2	P	121CKKD	Sand	10-03-1996	3.59
UN10	9	2	P	121CKKD	Sand	11-04-1996	1.93
UN11	23	2	P	121CKKD	Sand, some clay	11-15-1996	15.27
UN12	15	2	P	121CKKD	Sand	11-04-1996	4.82
UN13	12	2	P	121CKKD	Sand, some clay	11-04-1996	3.24
NU01-TEN	58	2	P	121CKKD	Sand	07-30-1997	28.52
NU02-TEN	43	2	P	121CKKD	Sand	07-30-1997	8.21

Table 5. Site information, well-construction data, and water levels for wells in the Long Island-New Jersey Coastal Drainages National Water Quality Assessment program study unit, 1996-98--Continued

Local identifier	New Jersey well identification number	County	Municipality	Latitude (degrees)	Longitude (degrees)	Latitude/ longitude datum	Depth of well below land surface (feet)	Depth to top of open interval below land surface (feet)
NU06-TEN	070867	Camden	GLOUCESTER TWP	394527.1	750039.5	NAD83	80	77.5
NU09-TEN	151264	Gloucester	MONROE TWP	394022.4	745909.3	NAD83	53	50.5
NU10-TEN	151277	Gloucester	MONROE TWP	393948.2	745828.8	NAD83	49	47
NU11-TEN	070868	Camden	GLOUCESTER TWP	394604.4	750033.4	NAD83	70	67.5
NU13-TEN	070870	Camden	WINSLOW TWP	394346.7	745949.6	NAD83	55	52.5
NU16-TEN	070869	Camden	WINSLOW TWP	394233.8	745742.4	NAD83	48	45.5
NU19-TEN	070887	Camden	WINSLOW TWP	394254.5	745903.0	NAD83	52	49.5
NU22-TEN	151280	Gloucester	MONROE TWP	394150.2	745900.8	NAD83	45	43
NU26-TEN	070879	Camden	BERLIN BORO	394704.0	745616.2	NAD83	41	38.5
NU27-TEN	070886	Camden	VOORHEES TWP	394942.0	745508.8	NAD83	35.5	33.5
NU29-TEN	151268	Gloucester	WASHINGTON TWP	394442.9	750307.4	NAD83	35	32.5
NU30-TEN	151271	Gloucester	WASHINGTON TWP	394508.9	750234.9	NAD83	67	64.5
OU01-TEN	330844	Salem	ELMER BORO	393532.5	751011.0	NAD83	39.5	37
OU02-TEN	110937	Cumberland	VINELAND CITY	392919.9	750116.8	NAD83	69.5	67
OU04-TEN	151262	Gloucester	CLAYTON BORO	393916.9	750535.3	NAD83	49.5	47
OU05-TEN	011243	Atlantic	BUENA VISTA TWP	393530.3	745237.8	NAD83	40	37.5
OU06-TEN	151265	Gloucester	MONROE TWP	394104.1	745930.6	NAD83	48.5	46
OU07-TEN	110938	Cumberland	VINELAND CITY	392929.3	750159.0	NAD83	55.5	53
OU08-TEN	070880	Camden	BERLIN BORO	394749.3	745553.8	NAD83	40	37.5
OU09-TEN	151263	Gloucester	GLASSBORO BORO	394209.9	750637.5	NAD83	42.5	40
OU10-TEN	110936	Cumberland	VINELAND CITY	392917.6	750036.9	NAD83	50	47.5
OU14-TEN	070885	Camden	PINE HILL BORO	394645.7	745919.9	NAD83	47	44.5
OU15-TEN	110935	Cumberland	VINELAND CITY	392827.8	750138.4	NAD83	70	67.5
OU16-TEN	151270	Gloucester	WASHINGTON TWP	394501.7	750204.7	NAD83	69.5	67.5
OU17-TEN	070882	Camden	BERLIN BORO	394819.9	745701.7	NAD83	70	68
OU18-TEN	070884	Camden	BERLIN TWP	394841.6	745625.1	NAD83	69	67
OU19-TEN	151279	Gloucester	MONROE TWP	394137.3	750004.0	NAD83	61.5	59.5
OU20-TEN	151282	Gloucester	MONROE TWP	394225.5	750038.9	NAD83	52	50
PS01	150201	Gloucester	MONROE TWP	394053.0	745929.7	NAD83	160	127.00
PS02	150365	Gloucester	MONROE TWP	394203.3	745937.3	NAD83	144	109.00
PS03	150375	Gloucester	MONROE TWP	394006.8	745834.3	NAD83	147	118.00
PS04	151048	Gloucester	MONROE TWP	394215.2	750046.2	NAD83	144	100.50
PS05	151354	Gloucester	MONROE TWP	394201.6	750126.8	NAD83	145	102
PS06	151355	Gloucester	MONROE TWP	394159.8	750132.8	NAD83	135	95
PS07	070490	Camden	WINSLOW TWP	394247.8	745710.3	NAD83	113	72
PS08	070497	Camden	WINSLOW TWP	394329.7	745740.3	NAD83	101	64.00
PS09	070736	Camden	WINSLOW TWP	394231.0	745513.5	NAD83	96.92	80.92
PS10	070481	Camden	WINSLOW TWP	394225.3	745815.7	NAD83	107	74.00
PS11	070900	Camden	WINSLOW TWP	394523.7	745802.0	NAD83	90	50.83
PS12	070901	Camden	WINSLOW TWP	394254.2	745501.3	NAD83	149.6	103.3

Table 5. Site information, well-construction data, and water levels for wells in the Long Island-New Jersey Coastal Drainages National Water Quality Assessment program study unit, 1996-98--Continued

Local identifier	Depth to bottom of open interval below land surface (feet)	Diameter of open interval (in.)	Casing material	Aquifer code	Lithology code	Water-level date	Water level below land surface (feet)
NU06-TEN	80	2	P	121CKKD	Sand	08-07-1997	43.97
NU09-TEN	53	2	P	121CKKD	Sand	08-06-1997	18.99
NU10-TEN	49	2	P	121CKKD	Sand, some clay	09-30-1997	9.62
NU11-TEN	70	2	P	121CKKD	Sand and silt	08-05-1997	24.50
NU13-TEN	55	2	P	121CKKD	Sand	06-23-1997	22.90
NU16-TEN	48	2	P	121CKKD	Sand	08-06-1997	11.04
NU19-TEN	52	2	P	121CKKD	Sand and clay	08-07-1997	21.63
NU22-TEN	45	2	P	121CKKD	Sand, some clay	09-30-1997	8.45
NU26-TEN	41	2	P	121CKKD	Sand, some clay	07-29-1997	3.71
NU27-TEN	35.5	2	P	121CKKD	Sand, some clay	09-19-1997	5.15
NU29-TEN	35	2	P	121CKKD	Sand	07-30-1997	8.77
NU30-TEN	67	2	P	121CKKD	Sand, some clay	06-24-1997	37.01
OU01-TEN	39.5	2	P	121CKKD	Sand, gravel, clay	06-20-1997	4.85
OU02-TEN	69.5	2	P	121CKKD	Sand, some clay	07-31-1997	39.60
OU04-TEN	49.5	2	P	121CKKD	Sand, some clay	06-20-1997	15.15
OU05-TEN	40	2	P	121CKKD	Sand	08-01-1997	9.42
OU06-TEN	48.5	2	P	121CKKD	Sand, some clay	08-06-1997	10.36
OU07-TEN	55.5	2	P	121CKKD	Sand, some clay	06-18-1997	19.33
OU08-TEN	40	2	P	121CKKD	Sand, some clay	06-25-1997	5.29
OU09-TEN	42.5	2	P	121CKKD	Sand	06-24-1997	11.93
OU10-TEN	50	2	P	121CKKD	Sand, some clay	06-21-1997	18.64
OU14-TEN	47	2	P	121CKKD	Sand, some clay	06-25-1997	9.70
OU15-TEN	70	2	P	121CKKD	Sand and clay	07-31-1997	26.31
OU16-TEN	69.5	2	P	121CKKD	Sand, some clay	08-04-1997	33.88
OU17-TEN	70	2	P	121CKKD	Sand, some clay	09-18-1997	28.95
OU18-TEN	69	2	P	121CKKD	Sand	09-19-1997	24.68
OU19-TEN	61.5	2	P	121CKKD	Sand, some clay	09-19-1997	15.90
OU20-TEN	52	2	P	121CKKD	Sand, some clay	10-01-1997	10.14
PS01	160.00	8	S	121CKKD	Sand and clay	01-18-1967	36.00
PS02	143.25	8	S	121CKKD	Sand, gravel, clay	01-29-1970	15.83
PS03	147.00	12	S	121CKKD	Sand, gravel, clay	02-16-1979	33.75
PS04	141	12	S	121CKKD	Sand and clay	08-30-1988	14.33
PS05	142	12	S	121CKKD	Sand, gravel, clay	02-05-1998	25.00
PS06	135	12	S	121CKKD	Sand, gravel, clay	02-05-1998	15.00
PS07	103	16	S	121CKKD	Sand, gravel, clay	12-20-1970	5.00
PS08	90.00	16	S	121CKKD	Sand, gravel, clay	01-00-1971	4.00
PS09	95.92	6	S	121CKKD	Sand, gravel, clay	01-27-1971	6.00
PS10	107.00	16	S	121CKKD	Sand, gravel, clay	03-23-1973	12.00
PS11	71	12	S	121CKKD	Sand, gravel, clay	12-01-1995	6.67
PS12	144.6	16	S	121CKKD	Sand, gravel, clay	07-25-1994	32.70

Table 5. Site information, well-construction data, and water levels for wells in the Long Island-New Jersey Coastal Drainages National Water Quality Assessment program study unit, 1996-98--Continued

Local identifier	New Jersey well identification number	County	Municipality	Latitude (degrees)	Longitude (degrees)	Latitude/ longitude datum	Depth of well below land surface (feet)	Depth to top of open interval below land surface (feet)
PS13	070899	Camden	WINSLOW TWP	394535.4	745814.8	NAD83	80	50
PS14	151087	Gloucester	WASHINGTON TWP	394319.6	750159.4	NAD83	103	82.5
PS15	151065	Gloucester	WASHINGTON TWP	394326.2	750208.9	NAD83	85	59.25
PS16	151366	Gloucester	WASHINGTON TWP	394233.8	750458.5	NAD83	92	52
PS17	151361	Gloucester	WASHINGTON TWP	394257.1	750302.8	NAD83	93	60.2
PS18	070603	Camden	GLOUCESTER TWP	394412.2	750022.0	NAD83	120	100.00
PS19	070898	Camden	GLOUCESTER TWP	394357.8	750117.7	NAD83	71	50.33
PS20	070989	Camden	PINE HILL BORO	394638.8	745901.7	NAD83	80	50
PS21	110230	Cumberland	VINELAND CITY	392851.9	750059.7	NAD83	177	137.00
PS22	110226	Cumberland	VINELAND CITY	392959.2	750015.0	NAD83	162	132.00
PS23	110252	Cumberland	VINELAND CITY	392817.5	750115.8	NAD83	175	145.00
PS24	110255	Cumberland	VINELAND CITY	392937.5	750338.4	NAD83	174	140.00
PS25	110225	Cumberland	VINELAND CITY	392810.9	750235.6	NAD83	181	151.00
PS26	110254	Cumberland	VINELAND CITY	393209.5	750245.3	NAD83	160	130.00
PS27	111000	Cumberland	VINELAND CITY	393255.9	750358.8	NAD83	148.5	105
PS28	150209	Gloucester	NEWFIELD BORO	393251.7	750113.9	NAD83	162	132.00
PS29	151071	Gloucester	NEWFIELD BORO	393247.4	750029.7	NAD83	140	--
PS30	110186	Cumberland	UPPER DEERFIELD TWP	393001.0	751306.5	NAD83	172	147.00
NE01	310145	Passaic	WEST MILFORD TWP	410931.5	742358.9	NAD83	222	50
NE02	310146	Passaic	WEST MILFORD TWP	410746.0	742130.6	NAD83	202	160
NE03	310144	Passaic	RINGWOOD BORO	410532.8	741528.2	NAD83	223	80
NE04	310143	Passaic	WEST MILFORD TWP	410505.1	742225.2	NAD83	250	92
NE05	310141	Passaic	WEST MILFORD TWP	410319.5	742734.6	NAD83	152	50
NE06	310142	Passaic	BLOOMINGDALE BORO	410402.6	741934.0	NAD83	173	70
NE07	271856	Morris	JEFFERSON TWP	410117.9	743129.7	NAD83	200	109.5
NE08	271853	Morris	ROCKAWAY TWP	410102.9	742837.6	NAD83	152	146
NE09	271858	Morris	KINNELON BORO	405833.4	742056.4	NAD83	200	50
NE10	271852	Morris	ROCKAWAY TWP	405718.4	742946.4	NAD83	200	80
NE11	271859	Morris	BOONTON TWP	405653.3	742430.0	NAD83	173	60
NE12	271863	Morris	ROCKAWAY TWP	405557.0	742808.4	NAD83	250	55

Table 5. Site information, well-construction data, and water levels for wells in the Long Island-New Jersey Coastal Drainages National Water Quality Assessment program study unit, 1996-98--Continued

Local identifier	Depth to bottom of open interval below land surface (feet)	Diameter of open interval (in.)	Casing material	Aquifer code	Lithology code	Water-level date	Water level below land surface (feet)
PS13	72	12	S	121CKKD	Sand, gravel, clay	12-05-1995	17.20
PS14	103	24	S	121CKKD	Sand, gravel, clay	09-11-1987	21.00
PS15	85	24	S	121CKKD	Sand, gravel, clay	01-18-1989	13.58
PS16	92	18	S	121CKKD	Sand, gravel, clay	03-25-1994	21.00
PS17	90	12	S	121CKKD	Sand, gravel, clay	11-01-1993	11.86
PS18	120.00	12	S	121CKKD	Sand, gravel, clay	04-25-1980	25.08
PS19	66	18	S	121CKKD	Sand, gravel, clay	02-05-1990	15.41
PS20	80	--	S	121CKKD	Sand, gravel, clay	03-09-1998	15.00
PS21	177.00	16	S	121CKKD	Sand, some clay	01-17-1950	38.00
PS22	162.00	16	S	121CKKD	Sand, gravel, clay	03-27-1958	17.00
PS23	175.00	16	S	121CKKD	Sand, gravel, clay	03-27-1957	18.00
PS24	170.00	16	S	121CKKD	Sand, gravel, clay	02-03-1965	18.00
PS25	181.00	16	S	121CKKD	Sand, gravel, clay	05-20-1968	11.00
PS26	160.00	16	S	121CKKD	Sand, gravel, clay	06-18-1968	15.00
PS27	145	16	S	121CKKD	Sand, gravel, clay	07-14-1993	5.00
PS28	162.00	8	S	121CKKD	Sand, gravel, clay	07-02-1963	27.00
PS29	--	--	-	121CKKD	Sand, gravel, clay	11-20-1998	30.00
PS30	172.00	12	S	121CKKD	Sand, gravel, clay	12-09-1998	30.00
NE01	222	6	S	400PCMB	Granite	04-21-1995	35.00
NE02	202	6	S	400PCMB	Granite	01-20-1995	30.00
NE03	223	6	S	400PCMB	Granite	09-10-1993	23.00
NE04	250	6	S	400PCMB	Granite	08-02-1991	46.00
NE05	152	6	S	344CRNL	Shale	08-26-1992	28.00
NE06	173	6	S	400PCMB	Granite	06-28-1991	66.00
NE07	200	6	S	344ESPS	Granite	03-10-1995	38.00
NE08	152	6	S	112SFDF	Gravel	06-28-1994	12.00
NE09	200	6	S	400PCMB	Granite	09-30-1993	60.00
NE10	200	6	S	400PCMB	Granite	09-27-1991	50.00
NE11	173	6	S	400PCMB	Granite	06-06-1990	38.00
NE12	250	6	S	400PCMB	Gneiss	05-21-1993	20.00

Table 5. Site information, well-construction data, and water levels for wells in the Long Island-New Jersey Coastal Drainages National Water Quality Assessment program study unit, 1996-98--Continued

Local identifier	New Jersey well identification number	County	Municipality	Latitude (degrees)	Longitude (degrees)	Latitude/ longitude datum	Depth of well below land surface (feet)	Depth to top of open interval below land surface (feet)
NE13	271854	Morris	JEFFERSON TWP	405554.1	743515.1	NAD83	205	60
NE14	271862	Morris	RANDOLPH TWP	405103.0	743446.8	NAD83	225	50
NE15	271851	Morris	WASHINGTON TWP	405003.5	744805.1	NAD83	248	48.5
NE16	271857	Morris	MOUNT OLIVE TWP	404946.0	744428.3	NAD83	173	48.5
NE17	271850	Morris	MENDHAM TWP	404717.9	743401.4	NAD83	155	60
NE18	271855	Morris	CHESTER BORO	404701.0	744110.3	NAD83	200	60
NE19	271861	Morris	MENDHAM TWP	404626.7	743343.8	NAD83	248	58.5
NE20	271860	Morris	CHESTER TWP	404540.3	744013.0	NAD83	205	89
NE21	271864	Morris	WASHINGTON TWP	404453.9	744733.5	NAD83	173	58.5
NE22	190351	Hunterdon	TEWKSBURY TWP	404346.8	744739.6	NAD83	240	50
NE23	350093	Somerset	BERNARDSVILLE BORO	404252.2	743538.1	NAD83	210	50
NE24	190350	Hunterdon	TEWKSBURY TWP	404127.0	744823.9	NAD83	250	63
NE25	190352	Hunterdon	BETHLEHEM TWP	403901.9	745952.8	NAD83	200	81
NE26	271865	Morris	BOONTON TWP	405602.6	742411.9	NAD83	200	50
NE27	310147	Passaic	WEST MILFORD TWP	410205.6	742334.2	NAD83	150	106
NE28	N07101	Rockland Co., NY	--	411635.4	740712.4	NAD83	153	8
NE29	N07102	Rockland Co., NY	--	411025.6	741005.6	NAD83	300	62
NE30	N07103	Rockland Co., NY	--	411405.3	740950.9	NAD83	274	11
PD01	190361	Hunterdon	DELAWARE TWP	402614.4	750048.9	NAD83	200	50
PD02	190368	Hunterdon	UNION TWP	403611.7	745659.6	NAD83	200	102
PD03	210558	Mercer	HOPEWELL TWP	401852.5	745236.2	NAD83	200	50
PD04	210557	Mercer	HOPEWELL TWP	401825.5	745226.1	NAD83	230	30
PD05	190363	Hunterdon	RARITAN TWP	402735.7	745153.4	NAD83	175	50
PD06	210556	Mercer	EWING TWP	401658.4	745048.8	NAD83	125	22
PD07	190364	Hunterdon	READINGTON TWP	403303.2	744804.7	NAD83	240	50
PD08	210559	Mercer	HOPEWELL TWP	402153.5	744648.2	NAD83	200	50
PD09	190367	Hunterdon	READINGTON TWP	403453.5	744632.2	NAD83	175	49
PD10	190366	Hunterdon	READINGTON TWP	403424.4	744533.7	NAD83	200	50
PD11	190365	Hunterdon	READINGTON TWP	403325.9	744446.7	NAD83	175	50
PD12	350105	Somerset	FRANKLIN TWP	403039.6	743246.3	NAD83	180	50
PD13	210560	Mercer	LAWRENCE TWP	401929.6	744307.4	NAD83	245	50
PD14	350102	Somerset	BRIDGEWATER TWP	403717.4	743852.6	NAD83	200	58.5
PD15	350103	Somerset	FRANKLIN TWP	402426.6	743639.0	NAD83	150	54
PD16	350101	Somerset	BERNARDSVILLE BORO	404151.0	743559.7	NAD83	250	61
PD17	350104	Somerset	FRANKLIN TWP	402642.7	743426.4	NAD83	150	58
PD18	350106	Somerset	WARREN TWP	403827.9	742903.3	NAD83	150	50
PD19	350107	Somerset	WARREN TWP	403933.9	742725.5	NAD83	185	50
PD20	190360	Hunterdon	ALEXANDRIA TWP	403356.6	750137.7	NAD83	150	22
PD21	190362	Hunterdon	DELAWARE TWP	402639.7	745412.9	NAD83	175	51
PD22	190369	Hunterdon	UNION TWP	403722.0	750156.1	NAD83	200	110

Table 5. Site information, well-construction data, and water levels for wells in the Long Island-New Jersey Coastal Drainages National Water Quality Assessment program study unit, 1996-98--Continued

Local identifier	Depth to bottom of open interval below land surface (feet)	Diameter of open interval (in.)	Casing material	Aquifer code	Lithology code	Water-level date	Water level below land surface (feet)
NE13	205	6	U	351LNGD	Shale	01-27-1992	15.00
NE14	225	6	S	400PCMB	Diorite	12-27-1994	1.00
NE15	248	5.88	S	400PCMB	Granite	06-04-1993	60.00
NE16	173	5.88	S	400PCMB	Granite	11-23-1994	40.00
NE17	155	6	U	400PCMB	Gneiss	04-18-1991	10.00
NE18	200	6	S	400PCMB	Granite	09-07-1994	6.00
NE19	248	5.88	S	400PCMB	Gneiss	04-28-1993	35.00
NE20	205	6	S	400PCMB	Granite	09-13-1993	30.00
NE21	173	6	S	400PCMB	Granite, gneiss	02-16-1994	5.00
NE22	240	6	S	400PCMB	Granite, gneiss	01-03-1995	15.00
NE23	210	6	S	400PCMB	Granite	09-15-1995	45.00
NE24	250	--	S	400PCMB	Granite	06-01-1995	55.00
NE25	200	6	S	400PCMB	Limestone	10-02-1995	68.00
NE26	200	6	S	400PCMB	Granite	03-10-1994	38.00
NE27	150	6	S	400PCMB	Granite	12-08-1994	8.00
NE28	153	--	-	400PCMB	Granite	12-09-1997	7.00
NE29	300	--	-	400PCMB	Granite	12-09-1997	20.00
NE30	274	--	-	400PCMB	Granite	12-10-1997	10.00
PD01	200	6	S	231LCKG	Shale	08-15-1994	30.00
PD02	200	6	S	231LCKG	Conglomerate	03-10-1995	90.00
PD03	200	6	S	227PSSC	Shale	01-21-1997	30.00
PD04	230	6	S	227PSSC	Shale	06-29-1995	90.00
PD05	175	6	S	227PSSC	Shale	10-07-1993	30.00
PD06	125	6	S	227PSSC	Shale	12-22-1960	15.00
PD07	240	6	S	227PSSC	Shale	10-27-1993	70.00
PD08	200	6	S	227PSSC	Shale	06-09-1994	30.00
PD09	175	6	S	227PSSC	Shale	12-08-1995	50.00
PD10	200	6	S	227PSSC	Shale	03-05-1996	40.00
PD11	175	6	S	227PSSC	Shale	06-27-1993	60.00
PD12	180	6	S	227PSSC	Shale	05-10-1995	58.00
PD13	245	6	S	231LCKG	Shale	01-16-1995	10.00
PD14	200	6	S	227PSSC	Shale	08-23-1994	60.00
PD15	150	6	S	227Diabase	Diabase	05-05-1995	40.00
PD16	250	6	S	227PRKS	Basalt	08-11-1995	40.00
PD17	150	6	S	227PSSC	Shale	01-24-1995	15.00
PD18	150	6	S	227PRKS	Basalt	09-13-1996	25.00
PD19	185	6	S	227PRKS	Basalt	04-23-1996	20.00
PD20	150	6	P	227PSSC	Shale	04-20-1959	22.00
PD21	175	6	S	227PSSC	Shale	09-16-1986	20.00
PD22	200	6	S	227PSSC	Conglomerate	05-07-1993	50.00

Table 5. Site information, well-construction data, and water levels for wells in the Long Island-New Jersey Coastal Drainages National Water Quality Assessment program study unit, 1996-98--Continued

Local identifier	New Jersey well identification number	County	Municipality	Latitude (degrees)	Longitude (degrees)	Latitude/ longitude datum	Depth of well below land surface (feet)	Depth to top of open interval below land surface (feet)
CP01	051419	Burlington	TABERNACLE TWP	394918.3	744426.7	NAD83	70	60
CP02	070966	Camden	WINSLOW TWP	394036.2	744818.8	NAD83	105	95
CP03	291275	Ocean	STAFFORD TWP	394416.1	741742.1	NAD83	127	117
CP04	291274	Ocean	LAKEWOOD TWP	400326.3	741152.6	NAD83	67	57
CP05	011267	Atlantic	GALLOWAY TWP	392720.0	742923.2	NAD83	100	90
CP06	011280	Atlantic	WEYMOUTH TWP	392435.7	744829.5	NAD83	120	107
CP07	090483	Cape May	MIDDLE TWP	390806.2	744959.2	NAD83	100	90
CP08	011269	Atlantic	GALLOWAY TWP	392823.8	742725.4	NAD83	70	60
CP09	330905	Salem	PITTSGROVE TWP	393328.8	751208.5	NAD83	100	90
CP10	011271	Atlantic	HAMILTON TWP	393117.4	744837.2	NAD83	100	90
CP11	051420	Burlington	TABERNACLE TWP	394939.4	744142.2	NAD83	102	92
CP12	011270	Atlantic	GALLOWAY TWP	393054.3	743436.7	NAD83	80	70
CP13	291276	Ocean	MANCHESTER TWP	395619.3	742231.6	NAD83	118	108
CP14	111007	Cumberland	MILLVILLE CITY	392028.0	750203.8	NAD83	80	75
CP15	011268	Atlantic	GALLOWAY TWP	392813.5	743211.5	NAD83	100	90
CP16	151399	Gloucester	FRANKLIN TWP	393809.6	750303.2	NAD83	100	90
CP17	111015	Cumberland	HOPEWELL TWP	392535.5	751516.1	NAD83	126	116
CP18	111016	Cumberland	LAWRENCE TWP	391952.8	751154.6	NAD83	100	90
CP19	051421	Burlington	EVESHAM TWP	394839.9	745333.4	NAD83	70	60
CP20	291353	Ocean	BERKELEY TWP	395401.1	741134.78	NAD83	172	162
CP21	291278	Ocean	STAFFORD TWP	394112.5	741641.7	NAD83	110	100
CP22	011282	Atlantic	HAMILTON TWP	393050.5	744123.9	NAD83	104	94
CP23	090499	Cape May	MIDDLE TWP	390643.0	745225.16	NAD83	38	33
CP24	111017	Cumberland	UPPER DEERFIELD TWP	392820.2	751441.2	NAD83	68	58
CP25	291277	Ocean	DOVER TWP	400122.1	741136.6	NAD83	175	165
CP26	011281	Atlantic	EGG HARBOR TWP	392335.5	744106.3	NAD83	157	147
CP27	011279	Atlantic	BUENA VISTA TWP	393036.1	745336.0	NAD83	110	100
CP28	151441	Gloucester	ELK TWP	393823.3	750715.52	NAD83	75	65
CP29	070988	Camden	WINSLOW TWP	394416.5	745448.6	NAD83	91	81
CP30	051428	Burlington	WASHINGTON TWP	394351.0	743215.26	NAD83	101	91

Table 5. Site information, well-construction data, and water levels for wells in the Long Island-New Jersey Coastal Drainages National Water Quality Assessment program study unit, 1996-98--Continued

Local identifier	Depth to bottom of open interval below land surface (feet)	Diameter of open interval (in.)	Casing material	Aquifer code	Lithology code	Water-level date	Water level below land surface (feet)
CP01	70	4	P	121CKKD	Sand and clay	04-11-1991	5.00
CP02	105	4	P	121CKKD	Sand and clay	02-25-1991	9.00
CP03	127	4	P	121CKKD	Sand and clay	08-26-1993	27.00
CP04	67	4	P	121CKKD	Sand and clay	09-13-1991	14.00
CP05	100	4	P	121CKKD	Sand and clay	05-11-1993	20.00
CP06	117	4	P	121CKKD	Sand and clay	12-03-1992	8.00
CP07	100	4	P	121CKKD	Sand and clay	07-20-1998	5.00
CP08	70	4	P	121CKKD	Sand and clay	07-10-1990	27.00
CP09	100	4	P	121CKKD	Sand and clay	09-17-1990	20.00
CP10	100	4	P	121CKKD	Sand and clay	02-18-1993	20.00
CP11	102	4	P	121CKKD	Sand	11-26-1991	15.00
CP12	80	4	P	121CKKD	Sand and clay	02-28-1992	12.00
CP13	118	4	P	121CKKD	Sand and clay	05-10-1991	55.00
CP14	80	2	P	121CKKD	Sand and clay	11-02-1990	15.00
CP15	100	4	P	121CKKD	Sand and clay	11-30-1994	30.00
CP16	100	4	P	121CKKD	Sand, some clay	01-31-1997	15.00
CP17	126	4	P	121CKKD	Sand, gravel, clay	05-14-1992	60.00
CP18	100	4	P	121CKKD	Sand and clay	11-20-1992	30.00
CP19	70	4	P	121CKKD	Sand and clay	07-08-1996	12.00
CP20	172	4	P	121CKKD	Sand and clay	07-14-1990	27.00
CP21	110	4	P	121CKKD	Sand and clay	06-12-1992	5.00
CP22	104	4	P	121CKKD	Sand, gravel, clay	09-10-1998	5.00
CP23	38	4	P	121CKKD	Sand, gravel, clay	11-27-1995	6.00
CP24	68	4	P	121CKKD	Sand and clay	03-24-1992	38.00
CP25	175	4	P	121CKKD	Sand, gravel, clay	04-02-1990	39.00
CP26	157	4	P	121CKKD	Sand, gravel, clay	01-23-1995	44.00
CP27	110	4	P	121CKKD	Sand, gravel, clay	03-24-1995	9.00
CP28	75	4	P	121CKKD	Sand and silt	09-09-1991	13.00
CP29	91	4	P	121CKKD	Sand, gravel, clay	05-28-1992	15.00
CP30	101	4	P	121CKKD	Sand and clay	04-12-1990	7.00

Table 6. Field measurements for samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98

[<, less than; --, no data; °C, degrees Celsius; µS/cm, microsiemens per centimeter at 25 degrees Celsius; mg/L, milligrams per liter; mm of Hg, millimeters of mercury]

Local identifier	Date	Water temperature (°C)	Air temperature (°C)	Barometric pressure (mm of Hg)	Specific conductance (µS/cm)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	pH, field (standard units)	Alkalinity, field (mg/L as $CaCO_{3)}$
AG01	09-04-96	15.0	29.0	759	255	8.0	82	4.3	--
AG02	09-05-96	15.0	29.5	759	186	9.0	99	4.9	1
	05-15-97	13.9	--	751	193	9.1	90	4.5	--
	09-16-97	15.6	--	757	184	8.4	86	4.6	.7
AG03	09-03-96	17.4	--	757	303	8.3	92	4.6	1
AG04	09-05-96	16.4	30.5	759	602	6.2	68	6.3	106
AG05	09-03-96	14.4	--	757	259	5.3	66	5.3	5
AG06	09-04-96	14.0	27.3	759	137	10.4	107	4.6	4
	06-12-97	14.0	--	755	158	9.6	94.1	4.5	--
	06-24-97	17.6	--	762	167	9.3	98.9	4.5	--
	09-04-97	13.6	--	759	170	7.4	72	4.6	1.2
AG07	10-28-96	14.4	18.5	754	717	.7	7	4.1	--
AG08	10-30-96	16.4	21.0	744	187	9.2	94	4.7	6
	08-11-98	17.4	--	--	281	9.0	--	4.93	--
AG09	10-16-96	17.0	15.0	759	508	7.9	82	4.5	--
AG10	10-16-96	14.4	26.0	757	455	10.3	103	4.6	1
AG11	10-16-96	14.8	22.5	759	183	7.6	76	4.3	--
AG12	10-30-96	14.0	17.0	747	409	9.8	95	4.8	2
AG13	12-20-96	15.0	-2.0	765	249	3.8	36.7	5.7	40
AG14	12-20-96	11.4	-4.5	764	310	8.0	73.4	5.0	2
AG15	10-30-96	15.4	15.0	751	336	10.1	102	4.5	--
NU01	09-10-96	15.8	26.0	754	266	7.4	79	4.9	3
NU02	09-10-96	17.2	34.5	754	157	8.5	90	4.8	1
NU03	09-11-96	16.0	24.0	754	408	7.1	73	5.2	7
NU04	09-12-96	16.8	22.5	--	147	8.0	--	4.6	1
NU05	11-04-96	18.6	10.5	768	150	--	--	4.9	3
NU06	09-30-96	14.8	15.0	764	126	8.7	88	4.8	2
NU07	09-30-96	15.2	29.5	765	66.	8.7	88	4.6	2
NU08	09-18-96	16.0	20.0	754	39.	8.0	83	4.3	--
	05-29-97	16.0	--	769	60.	7.8	78	4.0	--
	09-08-97	16.5	--	750	64.	6.7	71	4.5	--
NU09	10-02-96	14.8	15.0	765	240	7.0	71	4.7	--

Table 6. Field measurements for samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98 --Continued

Local identifier	Date	Water temperature (°C)	Air temperature (°C)	Barometric pressure (mm of Hg)	Specific conductance (µS/cm)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	pH, field (standard units)	Alkalinity, field (mg/L as $CaCO_{3)}$
NU10	09-19-96	19.2	21.5	752	190	8.4	91	4.7	2
	05-20-97	13.8	17.0	753	212	8.0	78	4.5	--
	09-05-97	18.1	--	761	228	6.8	72	4.6	1.2
NU11	10-01-96	15.2	18.5	767	114	8.9	90	4.9	2
NU12	09-18-96	17.8	15.0	754	96	7.6	81	5.6	5
NU13	10-01-96	16.6	23.0	767	75	9.7	104	4.4	--
NU14	11-19-96	14.8	13.0	753	56	6.4	64	4.8	2
NU15	10-15-96	14.6	16.0	764	47	8.9	90	4.2	--
NU16	11-25-96	17.8	13.5	762	183	5.5	58	5.6	24
NU17	10-15-96	16.2	10.5	764	156	6.3	64	4.4	--
NU18	10-15-96	16.4	16.0	764	196	8.7	89	4.6	2
NU19	11-25-96	15.8	10.5	762	386	6.5	66	4.5	--
NU20	10-28-96	--	19.5	754	206	3.3	36	6.5	92
NU21	11-19-96	18.0	10.0	753	108	8.6	86	4.9	3
NU22	12-17-96	17.6	13.0	753	231	8.2	85	4.7	--
NU23	11-04-96	17.0	9.5	768	297	5.4	56	4.5	--
NU24	12-15-96	--	7.0	767	104	11.3	105	4.7	--
	05-28-97	16.0	--	770	114	8.6	86	4.5	--
	09-09-97	16.3	--	757	117	8.4	85	4.5	--
NU25	12-10-96	--	6.0	760	233	10.4	106	4.9	--
NU26	12-16-96	15.4	8.0	763	202	6.9	69	4.9	3
	10-20-97	16.5	9.5	754	179	6.85	71.4	4.8	2.4
NU27	12-16-96	14.6	6.0	765	148	8.1	79	5.4	5
NU28	12-17-96	--	9.5	755	--	--	--	4.8	--
NU29	12-10-96	15.2	1.0	762	225	2.0	19.3	6.2	35
NU30	12-15-96	--	6.0	767	91	10.5	104	4.8	--
OU01	10-21-96	17.6	--	756	373	.6	6.6	6.3	93
	06-10-97	15.0	--	763	455	.9	8.9	5.9	86
	06-25-97	17.8	--	759	461	.8	8.5	6.0	99
	09-03-97	17.8	--	757	470	--	--	5.9	71
OU02	12-18-96	15.8	10.0	756	232	6.3	64	4.4	--
OU03	10-22-96	16.0	12.5	757	84	6.0	63	4.7	3
OU04	10-22-96	17.2	16.5	757	140	8.3	86	5.2	12

Table 6. Field measurements for samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98 --Continued

Local identifier	Date	Water temperature (°C)	Air temperature (°C)	Barometric pressure (mm of Hg)	Specific conductance (µS/cm)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	pH, field (standard units)	Alkalinity, field (mg/L as $CaCO_3$)
OU05	10-23-96	16.6	17.5	--	375	2.5	26	4.1	--
OU06	12-16-96	17.0	9.00	762	240	6.4	66	4.9	3
OU07	12-18-96	17.0	12.0	755	116	3.8	39	5.8	26
OU08	11-20-96	13.6	6.50	753	232	2.8	27	5.3	10
OU09	11-21-96	16.0	4.50	754	192	4.8	49	4.9	6
OU10	12-18-96	16.2	13.0	756	142	7.1	72	4.5	--
OU11	11-20-96	14.7	6.00	753	214	6.0	58	5.1	18
	06-05-97	13.1	--	761	262	5.9	56.2	5.2	12.8
	09-10-97	15.1	--	757	270	3.0	30	5.2	--
OU12	12-12-96	15.2	12.5	763	151	1.2	10.5	6.0	38
OU13	11-21-96	17.4	2.50	756	679	5.6	57	4.3	--
OU14	12-19-96	16.4	6.00	752	387	1.8	18	4.7	3
OU15	11-13-97	13.2	8.50	766	143	4.5	43	4.6	7
OU16	11-06-97	16.0	11.0	769	129	6.9	69	4.2	--
OU17	11-19-97	15.0	10.0	761	168	6.4	64	4.4	--
OU18	11-19-97	14.9	4.00	763	189	8.0	79	4.5	--
OU19	11-18-97	16.0	7.00	766	213	6.9	70	4.5	--
OU20	11-18-97	14.7	6.00	766	138	3.7	36	4.0	--
UN01	09-09-96	--	32.0	759	58.2	--	--	4.95	1
UN02	12-22-96	13.4	5.00	770	50	.80	7.2	5.6	15
	08-11-98	14.7	--	--	53	.10	--	5.7	--
UN03	11-05-96	15.2	13.5	768	25.5	1.5	15	4.2	--
UN04	10-22-96	15.4	14.0	757	38	2.4	25	4.3	--
UN05	11-05-96	15.2	16.0	766	31	7.2	73	4.3	--
UN06	10-23-96	15.2	22.5	757	41	4.6	46	4.3	--
UN07	12-22-96	14.2	--	--	19	8.5	84	4.0	--
UN08	10-24-96	16.6	16.5	754	37	8.2	85	5.2	--
UN09	10-23-96	15.0	25.5	--	51	3.2	32	3.9	--
UN10	12-09-96	11.0	--	754	87	--	--	4.6	--
UN11	12-19-96	--	6.50	751	--	--	--	--	--
UN12	12-09-96	12.6	4.50	756	44	--	--	4.4	--
UN13	12-22-96	10.8	--	--	51	.80	7	4.5	--

Table 7. Field measurements for samples collected from observation wells for the flow-path survey, Glassboro study area, N.J., 1997

[--, no data; mg/L, milligrams per liter; °C, degrees celsius; µS/cm, microsiemens per centimeter at 25 degrees Celsius; mm of Hg, millimeters of mercury]

Local identifier	Date	Water temperature (°C)	Air temperature (°C)	Barometric pressure (mm of Hg)	Specific conductance (µS/cm)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	pH, field (standard units)	Alkalinity, field (mg/L as $CaCO_3$)
NU01-TEN	11-04-97	15.0	18.5	757	107	6.1	61	4.3	--
NU02-TEN	11-04-97	15.2	17.5	756	94	7.4	74	4.6	--
NU06-TEN	11-07-97	14.3	12.0	768	217	8.7	84	4.0	--
NU09-TEN	11-14-97	14.0	7.0	762	99	.5	5	3.9	--
NU10-TEN	11-17-97	14.8	7.0	766	56	7.1	70	3.8	--
NU11-TEN	10-31-97	17.0	15.0	777	72	1.2	12	4.8	3
NU13-TEN	11-07-97	15.2	11.5	768	103	8.3	82	3.5	--
NU16-TEN	11-14-97	14.7	8.5	762	133	5.1	50	4.4	--
NU19-TEN	11-21-97	14.7	8.0	761	135	.1	1	3.9	--
NU22-TEN	11-17-97	14.0	7.5	766	57	.1	1	3.7	--
NU26-TEN	11-21-97	14.9	2.0	763	28	6.6	65	4.0	--
NU27-TEN	11-20-97	14.2	11.0	761	55	9.4	92	4.1	--
NU29-TEN	11-04-97	15.2	14.5	759	125	2.3	23	4.5	--
NU30-TEN	11-06-97	15.4	13.0	767	70	2.1	21	4.5	--
OU01-TEN	11-05-97	14.8	8.5	772	299	.3	3	4.3	--
OU02-TEN	11-10-97	15.9	12.0	755	161	6.6	67	4.0	--
OU04-TEN	11-05-97	15.2	14.0	770	261	5.9	58	4.4	--
OU05-TEN	11-13-97	13.5	8.5	766	39	4.2	40	3.6	--
OU06-TEN	11-17-97	15.0	7.0	766	320	.1	1	4.2	--
OU07-TEN	11-10-97	15.3	15.5	759	69	3.6	36	4.0	--
OU08-TEN	11-20-97	15.5	7.0	761	76	6.6	66	4.4	--
OU09-TEN	11-05-97	15.8	14.5	769	214	3.8	38	4.7	5
OU10-TEN	11-10-97	14.8	13.0	756	97	8.8	88	4.2	--
OU14-TEN	11-20-97	14.6	4.0	761	26	.5	5	3.9	--
OU15-TEN	11-13-97	15.2	8.5	763	164	5.1	51	4.2	--
OU16-TEN	11-06-97	14.5	14.0	768	92	6.6	64	4.4	--
OU17-TEN	11-19-97	14.8	13.0	761	164	.1	1	4.2	--
OU18-TEN	11-19-97	14.4	9.5	762	337	.2	2	4.1	--
OU19-TEN	11-18-97	15.3	7.0	766	51	3.6	36	3.7	--
OU20-TEN	11-18-97	13.8	7.5	768	22	6.9	66	3.9	--

Table 8. Field measurements for samples collected from public-supply wells, Glassboro study area, N.J., 1998

[<, less than; --, no data; °C, degrees Celsius; µS/cm, microsiemens per centimeter at 25 degrees Celsius; mg/L, milligrams per liter; mm of Hg, millimeters of mercury]

Local identifier	Date	Water temperature (°C)	Air temperature (°C)	Barometric pressure (mm of Hg)	Specific conductance (µS/cm)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	pH, field (standard units)	Alkallinity, field (mg/L as Ca $CO_{3)}$
PS01	03-09-98	14.4	18.0	746	64	3.55	35.0	5.6	8.6
PS02	02-03-98	10.1	9.0	764	155	5.65	50.0	6.7	40.0
PS03	02-03-98	11.4	10.0	761	126	4.10	36.9	6.2	17.0
PS04	02-05-98	12.8	4.0	746	68.8	5.20	50.5	5.0	3.0
	02-18-98	12.7	--	--	69	--	--	4.9	--
PS05	02-05-98	13.4	2.0	745	58.3	7.75	75.2	5.1	1.6
	02-18-98	13.4	5.0	--	57.6	--	--	5.0	1.4
PS06	02-05-98	12.6	4.0	746	74	7.95	77.2	5.1	3.0
	02-18-98	12.9	5.0	--	72	--	--	4.9	--
PS07	03-03-98	12.9	4.4	747	101	5.00	48.5	4.9	2.2
PS08	03-03-98	12.3	4.5	747	27	6.50	62.0	5.2	3.6
PS09	03-04-98	12.3	3.3	754	28	9.20	86.0	5.1	3.4
PS10	03-04-98	13.6	7.2	755	94	6.20	61.0	4.7	.8
PS11	03-05-98	12.8	3.3	758	49	6.90	66.0	4.9	1.7
PS12	03-09-98	12.6	18.0	745	32	7.50	73.0	4.6	.9
PS13	03-05-98	12.1	6.1	758	41	4.30	40.0	4.9	1.7
PS14	02-27-98	13.8	12.0	756	128	5.80	56.9	5.2	4.4
PS15	02-27-98	13.9	15.0	754	133	6.20	60.8	5.1	3.6
PS16	02-26-98	14.4	14.0	757	110	6.80	66.7	4.8	3.2
PS17	02-26-98	14.0	14.0	757	155	6.90	67.6	5.1	5.1
PS18	03-11-98	13.7	2.0	764	115	7.30	70.0	4.9	3.2
PS19	03-11-98	13.0	4.0	747	92	8.50	83.0	5.0	4.0
PS20	03-09-98	13.5	17.0	746	127	1.50	15.0	4.7	2.4
PS21	11-30-98	14.3	20.0	765	92.7	6.30	61.0	4.7	1.8
PS22	11-30-98	14.1	20.0	767	111	5.10	49.0	4.6	1.6
PS23	11-30-98	13.3	20.0	763	91.8	4.90	46.0	4.5	--
PS24	12-10-98	13.4	10.0	771	61.9	3.30	31.0	4.4	--
PS25	12-10-98	13.7	10.0	771	106	1.40	13.0	4.7	3.6
PS26	12-09-98	12.9	14.0	768	52.8	.60	6.0	4.3	--
PS27	12-10-98	13.1	12.0	770	89.6	4.20	39.0	4.7	3.2
PS28	11-20-98	13.5	17.0	755	63.5	4.50	44.0	4.6	.8
PS29	11-20-98	13.4	17.0	756	109	3.90	38.0	4.7	2.8
PS30	12-09-98	13.4	14.0	768	102	8.10	76.0	4.5	--

Table 9. Field measurements for samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998

[--, no data; mg/L, milligrams per liter; °C, degrees celsius; µS/cm, microsiemens per centimeter at 25 degrees Celsius; mm of Hg, millimeters of mercury]

Local identifier	Date	Waer temperature (°C)	Air temperature (°C)	Barometric pressure (mm of Hg)	Specific conductance (µS/cm)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	pH, field (standard units)	Alkalinity, field (mg/L as $CaCO_{3)}$
CP01	07-15-98	12.9	--	724	147	7.43	74	4.62	--
CP02	07-14-98	14.6	--	764	108	1.56	15	4.78	--
CP03	07-16-98	12.6	30.0	758	28	7.49	71	4.25	--
CP04	07-15-98	12.5	--	724	93	10.8	107	4.47	--
CP05	07-22-98	13.1	32.0	759	52	7.07	67	4.85	--
CP06	09-02-98	13.2	21.0	752	30	6.40	62	4.46	--
CP07	07-20-98	14.4	32.0	759	189	.07	1	7.57	--
CP08	07-22-98	14.5	35.5	758	59	8.40	758	4.74	--
CP09	07-28-98	14.7	34.0	757	64	.08	1	5.39	--
CP10	07-21-98	14.0	36.0	760	--	8.52	--	4.43	--
CP11	07-27-98	13.4	--	759	311	3.37	32	5.37	--
CP12	07-28-98	14.6	32.0	758	70	.11	1	4.54	--
CP13	07-29-98	13.0	32.0	754	32	.90	9	4.06	--
CP14	08-03-98	13.8	--	767	47	2.84	27	3.76	--
CP15	08-25-98	13.2	30.0	757	--	7.90	--	4.37	--
CP16	09-03-98	13.5	22.0	--	64	5.62	--	4.04	--
CP17	08-27-98	14.2	25.0	760	85	8.90	87	4.56	--
CP18	08-25-98	16.2	30.0	758	--	.07	--	5.11	--
CP19	09-02-98	13.7	25.5	752	91	6.01	59	4.30	--
CP20	09-03-98	13.4	27.0	756	57	1.77	17	3.88	--
CP21	09-09-98	12.4	15.0	756	32	9.79	92	4.26	--
CP22	09-10-98	12.9	19.0	761	408	3.57	34	4.50	--
CP23	09-09-98	13.3	21.0	757	343	13.3	128	6.13	42
CP24	09-16-98	15.5	--	762	212	3.38	34	5.65	19
CP25	09-23-98	12.6	17.5	761	83	9.39	88	4.59	--
CP26	09-23-98	12.9	17.0	762	37	3.81	36	3.71	--
CP27	09-22-98	12.9	29.0	754	53	.07	1	3.86	--
CP28	10-14-98	13.7	14.0	756	129	1.42	14	4.03	--
CP29	11-04-98	12.5	9.0	757	33	5.57	53	4.08	--
CP30	11-12-98	13.6	--	771	53	1.34	13	4.13	--

Table 10. Field measurements for samples collected from domestic wells in the Piedmont Physiographic Province, N.J., 1998

[°C, degrees Celsius; µS/cm, microsiemens per centimeter at 25 degrees Celsius; mg/L, milligrams per liter; mm of Hg, millimeters of mercury]

Local identifier	Date	Water temperature (°C)	Barometric pressure (mm of Hg)	Specific conductance (µS/cm)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	pH, field (standard units)	Alkalinity, field (mg/L as $CaCO_3$)
PD01	07-13-98	13.5	758	369	.2	2	7.7	160
PD02	07-15-98	12.5	754	224	8.0	76	6.2	31
PD03	07-30-98	16.5	758	402	4.0	41	7.7	141
PD04	07-10-98	13.0	756	485	5.7	55	7.5	126
PD05	07-17-98	12.0	752	469	4.0	38	7.8	137
PD06	07-17-98	13.0	752	468	4.4	42	7.2	135
PD07	07-28-98	19.5	759	427	5.9	65	7.7	143
PD08	07-08-98	12.5	756	318	6.2	59	7.9	130
PD09	07-29-98	12.5	753	339	5.7	54	7.8	146
PD10	07-09-98	12.5	757	282	9.4	89	7.9	126
PD11	07-16-98	12.5	758	252	7.3	69	8.0	96
PD12	07-10-98	12.0	751	239	5.6	53	7.8	126
PD13	07-23-98	13.0	753	538	.2	2	8.0	189
PD14	07-09-98	12.0	754	491	2.7	25	7.4	243
PD15	07-28-98	12.5	752	187	.2	2	6.9	73
PD16	07-15-98	11.0	758	598	4.1	37	7.1	199
PD17	07-29-98	16.0	758	343	6.0	61	7.9	124
PD18	07-14-98	12.0	754	479	4.0	38	7.4	112
PD19	07-16-98	11.0	757	212	8.3	76	6.6	79
PD20	08-17-98	13.5	756	356	.06	1	8.0	126
PD21	08-21-98	14.0	758	426	.02	0	7.8	143
PD22	08-14-98	13.0	749	514	7.8	75	6.8	68

Table 11. Field measurements for samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997

[--, no data; °C, degrees Celsius; µS/cm, microsiemens per centimeter at 25 degrees Celsius; mg/L, milligrams per liter; mm of Hg, millimeters of mercury; *, wells are located in New York State]

Local identifier	Date	Water temperature (°C)	Air temperature (°C)	Barometric pressure (mm of Hg)	Specific conductance (µS/cm)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	pH, field (standard units)	Alkalinity, field (mg/L as $CaCO_3$)
NE01	09-17-97	10.8	22.0	731	157	1.1	10	7.5	54
NE02	11-02-97	11.0	15.0	724	317	.1	1	7.6	156
NE03	08-26-97	11.6	26.6	750	798	.5	4.8	7.9	170
NE04	08-27-97	10.9	25.0	750	571	4.7	44	7.3	103
NE05	09-16-97	11.6	22.0	731	428	1.3	7	6.7	42
NE06	09-16-97	13.2	23.0	744	100	3.2	31	5.9	29
NE07	09-22-97	10.6	14.5	747	92	1.5	14	6.5	32
NE08	09-02-97	12.8	27.6	737	189	.1	1	8.5	88
NE09	10-15-97	11.3	14.0	747	346	4.5	42	7.2	110
NE10	08-26-97	11.4	27.8	750	791	2.6	24	6.4	72
NE11	10-19-97	10.4	16.0	743	125	8.7	80	6.7	42
NE12	10-20-97	10.8	7.5	742	671	3.0	28	6.2	88
NE13	09-23-97	10.8	20.0	740	98	10.2	95	8.1	32
NE14	10-19-97	10.8	11.0	737	280	2.7	25	6.5	46
NE15	09-04-97	10.2	12.0	736	267	2.8	31	6.1	25
NE16	10-14-97	10.2	--	738	143	8.2	75	5.7	23
NE17	09-03-97	12.0	20.0	746	508	4.8	46	6.7	124
NE18	09-24-97	12.4	14.0	743	412	6.4	62	6.4	63
NE19	10-29-97	12.0	10.5	751	222	7.3	69	6.6	30
NE20	11-12-97	10.6	9.0	744	95	8.0	74	5.9	31
NE21	10-21-97	11.4	6.5	738	202	7.5	71	6.2	36
NE22	10-21-97	11.5	--	--	153	--	--	6.1	59
NE23	09-15-97	12.8	27.5	748	156	--	--	6.8	43
NE24	08-28-97	10.2	21.5	763	74	1.9	17	6.25	7
NE25	10-21-97	11.6	--	738	117	9.2	87	5.6	22
NE26	11-09-97	10.6	10.5	731	196	5.7	53	6.9	54
NE27	11-09-97	11.1	10.0	729	365	4.8	46	7.4	66
NE28*	12-09-97	11.8	.5	740	206	2.5	24	6.3	38
NE29*	12-09-97	10.5	2.5	750	158	2.2	20	7.2	57
NE30*	12-10-97	11.6	3.0	740	94	2.7	26	5.2	29

Table 12. Concentrations of nutrients and organic carbon in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97

[<, less than; --, no data; mg/L, milligrams per liter]

Local identifier	Date	Nitrogen, ammonia (mg/L as N)	Nitrogen, nitrite (mg/L as N)	Nitrogen, ammonia + organic (mg/L as N)	Nitrogen, $NO_2 + NO_3$ (mg/L as N)	Phosphorus (mg/L as P)	Phosphorus, ortho (mg/L as P)	Carbon, organic (mg/L as C)
AG01	09-04-96	<0.015	<0.01	<0.2	17	0.02	<0.01	0.4
AG02	09-05-96	.020	<.01	<.2	5.6	<.01	<.01	.7
	05-15-97	.020	.02	<.2	9.7	<.01	<.01	.7
	09-16-97	<.015	<.01	<.2	10	<.01	<.01	.7
AG03	09-03-96	<.015	<.01	<.2	15	<.01	<.01	.8
AG04	09-05-96	<.015	<.01	<.2	20	<.01	<.01	1.9
AG05	09-03-96	<.015	<.01	.11	4.9	<.01	<.01	.5
AG06	09-04-96	<.015	<.01	<.2	7.5	<.01	<.01	.5
	06-12-97	<.015	<.01	<.2	9	<.01	<.01	1.0
	09-04-97	<.015	<.01	<.2	10	<.01	<.01	.6
AG07	10-28-96	.160	.02	.3	.1	<.01	<.01	1.1
AG08	10-30-96	.020	<.01	.3	9.5	<.01	<.01	1.3
AG09	10-16-96	<.015	.02	<.2	11	.03	<.01	1.2
AG10	10-16-96	.020	.01	<.2	21	<.01	<.01	.9
AG11	10-16-96	.030	.02	<.2	13	<.01	<.01	1.8
AG12	10-30-96	<.015	.01	<.2	20	<.01	.01	.8
AG13	12-20-96	<.015	<.01	.07	8.3	<.01	<.01	.7
AG14	12-20-96	<.015	<.01	.05	18	<.01	<.01	.6
AG15	10-30-96	<.015	<.01	<.2	25	<.01	<.01	.9
NU01	09-10-96	<.015	<.01	<.2	7.3	<.01	<.01	.9
NU02	09-10-96	<.015	<.01	<.2	2.5	<.01	<.01	.7
NU03	09-11-96	<.015	<.01	<.2	6.1	<.01	<.01	.7
NU04	09-12-96	<.015	<.01	<.2	4.3	<.01	<.01	.6
NU05	11-04-96	.020	.01	<.2	.13	.03	.02	.5
NU06	09-30-96	<.015	<.01	<.2	3.5	<.01	<.01	.4
NU07	09-30-96	<.015	<.01	<.2	1.8	<.01	<.01	.7
NU08	09-18-96	<.015	<.01	<.2	.47	<.01	<.01	.5
	05-29-97	<.015	<.01	<.2	1	<.01	<.01	.4
	09-08-97	<.015	<.01	<.2	1.2	<.01	<.01	.4
NU09	10-02-96	<.015	<.01	<.2	2.6	<.01	<.01	.5
NU10	09-19-96	.020	<.01	<.2	6.1	<.01	<.01	.8
	05-20-97	<.015	.01	<.2	5	<.01	<.01	.8
	09-05-97	<.015	<.01	<.2	4.8	.02	<.01	.9
NU11	10-01-96	.020	<.01	.12	3.5	<.01	<.01	.5
NU12	09-18-96	<.015	<.01	<.2	2.6	<.01	<.01	.5

Table 12. Concentrations of nutrients and organic carbon in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97--Continued

Local identifier	Date	Nitrogen, ammonia (mg/L as N)	Nitrogen, nitrite (mg/L as N)	Nitrogen, ammonia + organic (mg/L as N)	Nitrogen, $NO_2 + NO_3$ (mg/L as N)	Phosphorus (mg/L as P)	Phosphorus, ortho (mg/L as P)	Carbon, organic (mg/L as C)
NU13	10-01-96	<.015	<.01	<.2	4.3	<.01	<.01	.3
NU14	11-19-96	.080	<.01	<.2	1.7	<.01	<.01	.6
NU15	10-15-96	<.015	.01	<.2	1.9	<.01	<.01	.3
NU16	11-25-96	<.015	<.01	<.2	1.4	<.01	<.01	1.0
NU17	10-15-96	<.015	.02	<.2	2.0	<.01	<.01	.5
NU18	10-15-96	.030	.01	<.2	5.0	.02	<.01	.6
NU19	11-25-96	<.015	<.01	<.2	7.9	.01	<.01	1.0
NU20	10-28-96	.330	.02	.4	.06	<.01	<.01	4.4
NU21	11-19-96	.060	<.01	<.2	.17	<.01	<.01	.2
NU22	12-17-96	.030	<.01	.05	5.5	<.01	<.01	.8
NU23	11-04-96	<.015	.02	<.2	7.4	<.01	<.01	1.0
NU24	12-15-96	<.015	<.01	<.03	1.3	<.01	<.01	.7
	05-28-97	<.015	<.01	<.2	1.6	<.01	<.01	.5
	09-09-97	<.015	<.01	<.2	1.9	<.01	<.01	.4
NU25	12-10-96	<.015	<.01	.17	6.9	<.01	<.01	1.4
NU26	12-16-96	<.015	<.01	.08	5.1	.03	<.01	.8
	10-20-97	<.015	<.01	<.2	3.6	<.01	<.01	.9
NU27	12-16-96	.020	.01	.03	1.4	<.01	<.01	--
NU28	12-17-96	<.015	<.01	.13	5.7	<.01	<.01	2.0
NU29	12-10-96	.350	.01	.5	<.05	<.01	.02	5.6
NU30	12-15-96	.060	<.01	<.2	.44	<.01	<.01	.6
OU01	10-21-96	.120	<.01	<.2	2.0	<.01	<.01	1.4
	06-10-97	.050	<.01	<.2	4.4	<.01	<.01	1.8
	09-03-97	.050	<.01	<.2	1.8	<.01	.01	1.2
OU02	12-18-96	<.015	<.01	.04	4.3	<.01	<.01	.9
OU03	10-22-96	<.015	.01	<.2	3.0	<.01	<.01	.8
OU04	10-22-96	<.015	.01	<.2	5.5	<.01	<.01	.6
OU05	10-23-96	.570	.18	.6	31.0	<.01	<.01	1.6
OU06	12-16-96	.020	<.01	.03	7.8	<.01	.01	.6
OU07	12-18-96	.290	.02	.3	1.9	<.01	<.01	1.4
OU08	11-20-96	.200	.01	.3	<.05	<.01	<.01	3.2
OU09	11-21-96	<.015	.01	<.2	6.0	<.01	<.01	.9
OU10	12-18-96	<.015	<.01	<.2	4.0	.04	<.01	.9
OU11	11-20-96	.020	<.01	<.2	5.4	<.01	<.01	.8
	06-05-97	.024	<.01	<.2	2.9	<.01	<.01	.9

Table 12. Concentrations of nutrients and organic carbon in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97--Continued

Local identifier	Date	Nitrogen, ammonia (mg/L as N)	Nitrogen, nitrite (mg/L as N)	Nitrogen, ammonia + organic (mg/L as N)	Nitrogen, $NO_2 + NO_3$ (mg/L as N)	Phosphorus (mg/L as P)	Phosphorus, ortho (mg/L as P)	Carbon, organic (mg/L as C)
OU11	09-10-97	<.015	<.01	<.2	2.2	<.01	<.01	1.0
OU12	12-12-96	1.10	.02	1.2	.31	<.01	.02	.9
OU13	11-21-96	<.015	<.01	<.2	2.3	<.01	<.01	1.2
OU14	12-19-96	<.015	<.01	<.03	.13	<.01	<.01	1.3
OU15	11-13-97	.064	<.01	<.1	1.8	<.01	<.01	1.4
OU16	11-06-97	<.02	.02	<.1	1.3	<.01	<.01	1.6
OU17	11-19-97	<.02	<.01	<.1	5.5	<.01	.02	.8
OU18	11-19-97	<.02	<.01	<.1	1.3	<.01	.01	.9
OU19	11-18-97	<.02	<.01	<.1	4.5	<.01	.01	1.0
OU20	11-18-97	<.02	<.01	<.1	.51	<.01	<.01	1.4
UN01	09-09-96	.020	<.01	<.2	.18	<.01	<.01	1.6
UN02	12-22-96	.100	<.01	.08	<.05	.06	.04	1.5
UN03	11-05-96	.020	.02	<.2	<.05	<.01	<.01	.6
UN04	10-22-96	<.015	<.01	<.2	.12	<.01	<.01	.5
UN05	11-05-96	.020	.02	<.2	.28	<.01	<.01	.5
UN06	10-23-96	.030	<.01	<.2	.16	<.01	<.01	.6
UN07	12-22-96	<.015	<.01	<.2	.07	<.01	<.01	.4
UN08	10-24-96	.020	<.01	<.2	.33	<.01	<.01	.4
UN09	10-23-96	.020	<.01	<.2	<.05	<.01	<.01	1.1
UN10	12-09-96	<.015	<.01	.09	.08	<.01	<.01	1.4
UN11	12-19-96	.020	<.01	<.2	<.05	<.01	.02	.8
UN12	12-09-96	<.015	<.01	.06	.07	<.01	<.01	.7
UN13	12-22-96	.060	<.01	.17	<.05	.02	.01	9.5

Table 13. Concentrations of nutrients and organic carbon in samples collected from observation wells for the flow-path survey, Glassboro study area, N.J., 1997

[<, less than; --, no data; mg/L, milligrams per liter]

Local identifier	Date	Nitrogen, ammonia (mg/L as N)	Nitrogen, nitrite (mg/L as N)	Nitrogen, ammonia + organic (mg/L as N)	Nitrogen, $NO_2 + NO_3$ (mg/L as N)	Phosphorus (mg/L as P)	Phosphorus, ortho (mg/L as P)	Carbon, organic (mg/L as C)
NU01-TEN	11-04-97	<0.01	<0.01	<0.2	7.7	<0.01	<.001	--
NU02-TEN	11-04-97	<.02	<.01	<.1	4.6	<.01	<.01	0.3
NU06-TEN	11-07-97	<.02	.03	<.1	3.8	<.01	.01	.3
NU09-TEN	11-14-97	<.02	<.01	<.1	4.0	.01	.02	.4
NU10-TEN	11-17-97	.02	<.01	<.1	3.3	<.01	<.01	.2
NU11-TEN	10-31-97	<.01	<.01	<.2	.43	<.01	<.01	.2
NU13-TEN	11-07-97	<.02	.03	<.1	7.1	<.01	.02	.3
NU16-TEN	11-14-97	<.02	<.01	<.1	2.2	<.01	.02	.4
NU19-TEN	11-21-97	<.02	<.01	<.1	2.6	<.01	<.01	.2
NU22-TEN	11-17-97	.02	<.01	<.1	.62	<.01	<.01	.2
NU26-TEN	11-21-97	<.02	<.01	<.1	.55	<.01	<.01	.2
NU27-TEN	11-20-97	<.02	<.01	<.1	2.2	<.01	.02	.2
NU29-TEN	11-04-97	<.02	<.01	<.1	1.6	<.01	<.01	.8
NU30-TEN	11-06-97	.09	.02	<.1	1.1	.02	.04	.6
OU01-TEN	11-05-97	4.6	.01	4.3	2.4	<.01	.01	2.4
OU02-TEN	11-10-97	<.02	.02	<.1	2.3	<.01	<.01	.8
OU04-TEN	11-05-97	<.02	.02	<.1	3.2	<.01	.01	--
OU05-TEN	11-13-97	<.02	<.01	<.1	.85	<.01	.01	.1
OU06-TEN	11-17-97	<.02	<.01	2.1	1.6	<.01	<.01	1.2
OU07-TEN	11-10-97	.09	.03	<.1	3.7	<.01	<.01	.8
OU08-TEN	11-20-97	<.02	<.01	<.1	1.2	<.01	.01	.6
OU09-TEN	11-05-97	<.02	.02	<.1	5.5	<.01	.01	.6
OU10-TEN	11-10-97	.09	.03	<.1	3.1	<.01	.02	.7
OU14-TEN	11-20-97	<.02	<.01	<.1	.31	.02	.02	.3
OU15-TEN	11-13-97	<.02	<.01	<.1	2.7	<.01	<.01	--
OU16-TEN	11-06-97	.07	.02	<.1	4.1	<.01	.03	--
OU17-TEN	11-19-97	<.02	<.01	.1	13	.01	.01	.5
OU18-TEN	11-19-97	.40	.01	.5	31	<.01	<.01	.8
OU19-TEN	11-18-97	<.02	<.01	<.1	2.1	.01	.01	.4
OU20-TEN	11-18-97	<.02	<.01	<.1	.17	.01	.01	.4

Table 14. Concentrations of nutrients and organic carbon in samples collected from public-supply wells, Glassboro study area, N.J., 1998

[mg/L, milligrams per liter; <, less than]

Local identifier	Date	Nitrogen, ammonia (mg/L as N)	Nitrogen, nitrite (mg/L as N)	Nitrogen, ammonia + organic (mg/L as N)	Nitrogen, $NO_2 + NO_3$ (mg/L as N)	Phosphorus (mg/L as P)	Phosphorus, ortho (mg/L as P)	Carbon, organic (mg/L as C)
PS01	03-09-98	0.02	<0.01	<0.1	2.0	<0.01	0.01	0.2
PS02	02-03-98	<.02	.01	<.1	1.3	<.01	.01	.3
PS03	02-03-98	<.02	.01	<.1	1.3	<.01	.01	.2
PS04	02-05-98	.03	<.01	<.1	3.1	.02	.02	.3
PS05	02-05-98	<.02	<.01	<.1	3.1	.07	.03	.2
PS06	02-05-98	<.02	<.01	<.1	3.5	<.01	.01	.2
PS07	03-03-98	<.02	<.01	<.1	4.1	<.01	<.01	.3
PS08	03-03-98	<.02	<.01	<.1	.32	.01	.01	.2
PS09	03-04-98	<.02	<.01	<.1	1.0	<.01	<.01	.2
PS10	03-04-98	<.02	<.01	<.1	5.8	<.01	<.01	.2
PS11	03-05-98	<.02	<.01	<.1	1.6	<.01	.01	.3
PS12	03-09-98	<.02	<.01	<.1	1.1	<.01	.01	.2
PS13	03-05-98	<.02	<.01	<.1	1.2	<.01	.01	.3
PS14	02-27-98	.41	<.01	.4	7.3	<.01	.02	.5
PS15	02-27-98	.09	<.01	.1	6.7	<.01	.01	.5
PS16	02-26-98	.06	<.01	<.1	3.6	<.01	.02	.4
PS17	02-26-98	.03	<.01	<.1	7.4	<.01	.02	.5
PS18	03-11-98	<.02	<.01	<.1	4.1	<.01	.01	.4
PS19	03-11-98	<.02	<.01	<.1	4.6	<.01	.01	.4
PS20	03-09-98	.07	<.01	<.1	.60	<.01	.01	.6
PS21	11-30-98	.03	<.01	<.1	5.3	<.05	<.01	.2
PS22	11-30-98	.03	<.01	<.1	6.7	<.05	<.01	.2
PS23	11-30-98	.03	<.01	<.1	4.7	<.05	<.01	.2
PS24	12-10-98	<.02	<.01	<.1	2.8	<.05	.01	.1
PS25	12-10-98	.41	<.01	.4	2.6	<.05	.01	.4
PS26	12-09-98	<.02	<.01	<.1	.34	<.05	<.01	<.1
PS27	12-10-98	<.02	<.01	<.1	5.3	<.05	<.01	.2
PS28	11-20-98	.03	<.01	<.1	3.3	<.05	<.01	.1
PS29	11-20-98	.03	<.01	<.1	5.0	<.05	<.01	.2
PS30	12-09-98	<.02	<.01	<.1	5.9	<.05	.01	.2

Table 15. Concentrations of nutrients and organic carbon in samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998

[<, less than; mg/L, milligrams per liter]

Local identifier	Date	Nitrogen, ammonia (mg/L as N)	Nitrogen, nitrite (mg/L as N)	Nitrogen ammonia + organic (mg/L as N)	Nitrogen, $NO_2 + NO_3$ (mg/L as N)	Phosphorus (mg/L as P)	Phosphorus, ortho (mg/L as P)	Carbon, organic (mg/L as C)
CP01	07-15-98	0.05	0.01	<0.1	2.4	<0.01	0.02	0.3
CP02	07-14-98	.04	.01	<.1	2.2	<.01	.02	.4
CP03	07-16-98	.04	.01	<.1	.14	<.01	.02	.2
CP04	07-15-98	.05	.01	<.1	4.3	<.01	.02	.3
CP05	07-22-98	.03	<.01	<.1	1.1	<.01	.01	.2
CP06	09-02-98	<.02	<.01	<.1	.08	.01	<.01	.2
CP07	07-20-98	.58	<.01	.6	<.05	.23	.17	1.0
CP08	07-22-98	.02	<.01	<.1	.87	<.01	<.01	.4
CP09	07-28-98	.04	<.01	<.1	<.05	.05	.06	.2
CP10	07-21-98	.02	<.01	<.1	.21	<.01	<.01	.2
CP11	07-27-98	<.02	<.01	<.1	15	<.01	<.01	.6
CP12	07-28-98	<.02	<.01	<.1	<.05	<.01	<.01	1.1
CP13	07-29-98	.02	<.01	<.1	.07	<.01	<.01	.3
CP14	08-03-98	.02	<.01	<.1	<.05	<.01	<.01	.2
CP15	08-25-98	.11	.01	<.1	<.05	<.01	.01	.2
CP16	09-03-98	.04	.02	<.1	3.0	<.01	.02	<.1
CP17	08-27-98	<.02	<.01	.2	5.0	<.01	<.01	<.1
CP18	08-25-98	.08	.01	<.1	<.05	.03	.03	.3
CP19	09-02-98	<.02	<.01	<.1	6.4	<.05	<.01	.2
CP20	09-03-98	.09	.01	<.1	<.05	.03	.02	.3
CP21	09-09-98	.05	<.01	<.1	.14	.01	.02	.2
CP22	09-10-98	.05	<.01	<.1	1.0	<.01	.01	.2
CP23	09-09-98	.92	<.01	.9	14	<.01	<.01	.7
CP24	09-16-98	.18	.01	.2	1.9	<.01	<.01	1.0
CP25	09-23-98	<.02	<.01	<.1	1.8	<.01	.01	.2
CP26	09-23-98	<.02	<.01	<.1	.07	<.01	<.01	<.1
CP27	09-22-98	.02	<.01	<.1	.09	<.01	<.01	<.1
CP28	10-14-98	.03	<.01	<.1	1.3	.02	<.01	.2
CP29	11-04-98	<.02	<.01	<.1	.44	<.05	<.01	.3
CP30	11-12-98	.05	<.01	<.1	.08	<.05	.01	.2

Table 16. Concentrations of nutrients and organic carbon in samples collected from domestic wells in the Piedmont Physiographic Province, N.J., 1998

[mg/L, milligrams per liter; <, less than]

Local identifier	Date	Nitrogen, ammonia (mg/L as N)	Nitrogen, nitrite (mg/L as N)	Nitrogen, ammonia + organic (mg/L as N)	Nitrogen, $NO_2 + NO_3$ (mg/L as N)	Phosphorus, ortho (mg/L as P)	Carbon, organic (mg/L as C)
PD01	07-13-98	0.08	<0.01	<0.1	<0.05	0.01	0.6
PD02	07-15-98	.05	.01	<.1	7.0	.05	.4
PD03	07-30-98	<.02	<.01	<.1	1.0	.03	.3
PD04	07-10-98	<.02	<.01	<.1	4.2	.06	.6
PD05	07-17-98	<.02	<.01	<.1	2.4	.02	.3
PD06	07-17-98	<.02	<.01	<.1	.78	.03	.6
PD07	07-28-98	.02	<.01	<.1	1.6	.02	.3
PD08	07-08-98	.02	<.01	<.1	1.5	.04	.2
PD09	07-29-98	<.02	<.01	<.1	4.0	.04	.2
PD10	07-09-98	<.02	<.01	<.1	1.6	.05	.4
PD11	07-16-98	.02	<.01	<.1	2.9	.03	.2
PD12	07-10-98	.03	<.01	<.1	.37	.06	.1
PD13	07-23-98	.02	.05	<.1	.87	.03	.3
PD14	07-09-98	<.02	<.01	<.1	.98	.04	.3
PD15	07-28-98	.08	<.01	<.1	<.05	.01	.3
PD16	07-15-98	.05	.01	<.1	3.6	.03	.5
PD17	07-29-98	<.02	<.01	<.1	4.6	.04	.2
PD18	07-14-98	.05	.01	<.1	1.9	.04	.4
PD19	07-16-98	<.02	<.01	<.1	.53	.01	.3
PD20	08-17-98	.04	.04	<.1	.47	.02	.2
PD21	08-21-98	.03	.03	<.1	.94	.03	1.6
PD22	08-14-98	.05	<.01	<.1	3.0	.04	.1

Table 17. Concentrations of nutrients and organic carbon collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997

[<, less than; mg/L, milligrams per liter; *, wells are located in New York State]

Local identifier	Date	Nitrogen, ammonia (mg/L as N)	Nitrogen, nitrite (mg/L as N)	Nitrogen, ammonia + organic (mg/L as N)	Nitrogen, $NO_2 + NO_3$ (mg/L as N)	Phosphorus (mg/L as P)	Phosphorus, ortho (mg/L as P)	Carbon, organic (mg/L as C)
NE01	09-17-97	<0.01	<0.01	<0.2	0.20	<0.01	<0.01	0.3
NE02	11-02-97	<.02	<.01	<.1	.08	<.01	.02	.2
NE03	08-26-97	<.01	<.01	<.2	5.3	.03	.03	.6
NE04	08-27-97	<.01	<.01	<.2	2.1	.06	.06	.3
NE05	09-16-97	<.01	<.01	<.2	2.0	<.01	.01	.2
NE06	09-16-97	<.01	<.01	<.2	1.0	<.01	<.01	.4
NE07	09-22-97	<.01	<.01	<.2	.35	.03	.03	.1
NE08	09-02-97	.11	<.01	<.2	<.05	.10	.10	.2
NE09	10-15-97	<.01	<.01	<.2	1.8	.05	<.01	.5
NE10	08-26-97	<.01	<.01	<.2	5.6	.02	.01	.8
NE11	10-19-97	<.01	<.01	<.2	.05	<.01	<.01	.2
NE12	10-20-97	.01	<.01	<.2	1.4	<.01	<.01	.6
NE13	09-23-97	.03	<.01	<.2	.19	.05	.05	.2
NE14	10-19-97	<.01	<.01	<.2	.69	<.01	.01	.2
NE15	09-04-97	<.01	<.01	<.2	.43	<.01	<.01	.3
NE16	10-14-97	<.01	<.01	<.2	1.1	<.01	.01	.2
NE17	09-03-97	<.01	<.01	<.2	5.0	.02	.02	.5
NE18	09-24-97	.03	<.01	<.2	6.6	.02	<.01	.4
NE19	10-29-97	<.01	<.01	<.2	4.2	<.01	<.01	.1
NE20	11-12-97	<.02	.03	<.1	.20	.01	.02	.2
NE21	10-21-97	<.01	<.01	<.2	2.1	<.01	<.01	.1
NE22	10-21-97	.08	<.01	<.2	.56	<.01	.01	.2
NE23	09-15-97	<.01	<.01	<.2	2.5	<.01	<.01	.6
NE24	08-28-97	.02	<.01	<.2	.38	<.01	.01	.4
NE25	10-21-97	<.01	.01	<.2	.28	<.01	.03	.4
NE26	11-09-97	.04	.02	<.1	2.3	.05	.06	.3
NE27	11-09-97	.10	.01	<.1	3.8	.04	.06	.2
NE28*	12-09-97	<.02	<.01	<.1	.47	<.01	<.01	.3
NE29*	12-09-97	<.02	<.01	<.1	<.05	.02	<.01	.1
NE30*	12-10-97	<.02	<.01	<.1	.09	<.01	.02	.8

Table 18. Concentrations of inorganic constituents in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97

[<,less than; --, no data; mg/L, milligrams per liter; µg/L, micrograms per liter]

Local identifier	Date	Calcium (mg/L as Ca)	Magnesium (mg/L as Mg)	Sodium (mg/L as Na)	Potassium (mg/L as K)	Chloride (mg/L as Cl)	Sulfate (mg/L as SO_4)	Fluoride (mg/L as F)
AG01	09-04-96	3.7	13	7.3	1.9	30	0.20	0.3
AG02	09-05-96	14	5.5	4.3	2.4	14	16	<.1
	05-15-97	14	5.4	4.5	2.4	13	19	<.1
	09-16-97	15	6.0	4.3	2.4	14	18	<.1
AG03	09-03-96	28	8.7	4.0	3.7	17	43	<.1
AG04	09-05-96	39	21	5.0	50	23	60	.2
AG05	09-03-96	28	8.5	2.5	1.2	9.6	64	<.1
AG06	09-04-96	10	5.2	2.1	1.8	6.6	17	<.1
	06-12-97	11	5.8	2.6	1.7	8.9	16	<.1
	09-04-97	12	6.3	2.4	1.6	9.4	20	<.1
AG07	10-28-96	51	26	25	2.8	82	210	<.1
AG08	10-30-96	3.6	5.6	3.6	25	22	5.8	<.1
AG09	10-16-96	48	20	8.8	2.2	33	150	.4
AG10	10-16-96	47	15	4.3	4.0	22	93	.1
AG11	10-16-96	5.2	9.3	5.4	2.8	12	11	.1
AG12	10-30-96	30	22	5.6	.9	26	70	.1
AG13	12-20-96	5.6	3.1	5.9	45	13	13	<.1
AG14	12-20-96	22	15	2.9	1.8	14	42	<.1
AG15	10-30-96	31	6.4	2.1	14	19	20	.1
NU01	09-10-96	12	8.5	18	1.8	25	45	<.1
NU02	09-10-96	5.2	1.5	16	2.6	16	29	<.1
NU03	09-11-96	39	7.0	19	2.1	85	23	<.1
NU04	09-12-96	7.5	1.9	9.5	4.2	11	24	<.1
NU05	11-04-96	6.9	7.3	2.8	4.6	3.8	54	<.1
NU06	09-30-96	1.4	2.0	15	1.1	24	.5	<.1
NU07	09-30-96	1.4	1.7	5.8	.5	9.9	3.5	<.1
NU08	09-18-96	.18	.60	4.4	.5	7.7	<.1	<.1
	05-29-97	.17	.72	8.0	.5	12	.1	<.1
	09-08-97	.15	.77	8.5	.6	13	.2	<.1
NU09	10-02-96	13	2.9	20	3.4	52	11	<.1
NU10	09-19-96	15	3.5	8.1	4.0	15	33	<.1
	05-20-97	17	4.1	7.8	3.4	16	36	<.1
	09-05-97	19	4.3	10	3.8	20	37	<.1
NU11	10-01-96	5.8	1.7	7.4	5.5	14	12	<.1
NU12	09-18-96	6.1	1.9	4.3	4.9	4.2	18	<.1

Table 18. Concentrations of inorganic constituents in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97--Continued

Local identifier	Date	Silica (mg/L as SiO_2)	Iron (µg/L as Fe)	Manganese (µg/L as Mn)	Bromide (mg/L as Br)
AG01	09-04-96	5.9	9	110	0.07
AG02	09-05-96	7.5	3	66	.04
	05-15-97	7.5	<3	58	.02
	09-16-97	7.4	35	64	.03
AG03	09-03-96	7.7	8	58	.03
AG04	09-05-96	4.6	6	5	.03
AG05	09-03-96	9.4	5	12	.01
AG06	09-04-96	7.4	<3	30	.02
	06-12-97	7.2	7	32	.04
	09-04-97	6.9	<3	34	.02
AG07	10-28-96	11	9,100	65	.05
AG08	10-30-96	9.4	50	15	.01
AG09	10-16-96	11	13	180	.03
AG10	10-16-96	9.1	<3	200	.07
AG11	10-16-96	8.8	11	140	.04
AG12	10-30-96	10	7	41	.03
AG13	12-20-96	8.1	8	6	.21
AG14	12-20-96	8.2	16	40	.07
AG15	10-30-96	6.0	4	270	.04
NU01	09-10-96	8.4	10	67	.05
NU02	09-10-96	4.6	11	19	.01
NU03	09-11-96	6.0	6	28	.14
NU04	09-12-96	5.6	6	40	.01
NU05	11-04-96	13	320	170	.04
NU06	09-30-96	5.9	13	6	.02
NU07	09-30-96	5.6	8	93	.12
NU08	09-18-96	6.1	47	6	.03
	05-29-97	6.2	22	3	.02
	09-08-97	6.3	<3	2	.03
NU09	10-02-96	2.8	4	23	.02
NU10	09-19-96	5.5	5	32	.04
	05-20-97	4.8	12	24	.03
	09-05-97	5.4	<3	21	.04
NU11	10-01-96	4.5	9	7	.02
NU12	09-18-96	3.7	5	7	.01

Table 18. Concentrations of inorganic constituents in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97--Continued

Local identifier	Date	Calcium (Mg/L as Ca)	Magnesium (mg/L as Mg)	Sodium (mg/L as Na)	Potassium (mg/L as K)	Chloride (mg/L as C)	Sulfate (mg/L as SO_4)	Fluoride (mg/L as F)
NU13	10-01-96	0.13	2.8	5.9	1.5	9.7	<0.1	<0.1
NU14	11-19-96	.98	.70	6.6	1.0	6.6	4.1	<.1
NU15	10-15-96	1.3	1.2	3.3	1.0	6.8	.5	<.1
NU16	11-25-96	13	5.2	10	2.0	17	24	<.1
NU17	10-15-96	11	2.6	8.2	2.8	14	32	<.1
NU18	10-15-96	11	3.5	12	3.5	17	34	<.1
NU19	11-25-96	14	5.6	53	2.7	99	18	.2
NU20	10-28-96	18	4.6	6.3	2.9	9.5	13	<.1
NU21	11-19-96	.13	.45	1.9	.70	3.3	.1	<.1
NU22	12-17-96	18	4.6	12	1.1	22	40	<.1
NU23	11-04-96	18	5.9	20	4.5	49	25	.2
NU24	12-15-96	5.9	1.7	6.4	2.9	15	13	<.1
	05-28-97	6.4	1.8	6.7	3.2	13	16	<.1
	09-09-97	6.2	1.9	7.3	3.7	12	20	<.1
NU25	12-10-96	14	8.1	8.7	1.6	10	56	<.1
NU26	12-16-96	14	2.9	12	2.1	21	30	<.1
	10-20-97	13	2.7	10	1.9	16	33	<.1
NU27	12-16-96	3.5	1.6	18	1.8	22	17	<.1
NU28	12-17-96	11	5.4	11	2.7	20	27	<.1
NU29	12-10-96	8.5	2.2	26	2.6	38	10	<.1
NU30	12-15-96	3.6	3.9	4.2	1.2	9.1	17	<.1
OU01	10-21-96	35	8.2	26	5.1	36	30	<.1
	06-10-97	37	8.5	32	3.8	42	41	<.1
	09-03-97	47	11	21	5.8	70	37	<.1
OU02	12-18-96	8.5	3.4	25	3.0	26	38	<.1
OU03	10-22-96	3.9	2.1	5.1	.60	9.0	6.2	<.1
OU04	10-22-96	9.4	3.7	8.0	3.7	8.4	16	<.1
OU05	10-23-96	14	4.6	20	9.7	26	12	.1
OU06	12-16-96	14	4.4	14	7.0	27	22	<.1
OU07	12-18-96	5.5	2.8	4.6	1.2	1.6	1.4	<.1
OU08	11-20-96	3.6	.97	27	.50	33	41	<.1
OU09	11-21-96	12	3.4	12	5.4	13	32	.2
OU10	12-18-96	14	3.2	3.3	2.3	6.2	29	.1
OU11	11-20-96	12	3.1	16	1.5	13	25	<.1
	06-05-97	15	3.0	27	1.8	31	41	<.1

Table 18. Concentrations of inorganic constituents in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97--Continued

Local identifier	Date	Silica (mg/L as SiO_2)	Iron (µg/L as Fe)	Manganese (µg/L as Mn)	Bromide (mg/L as Br)
NU13	10-01-96	5.6	9	5	0.03
NU14	11-19-96	5.7	4	20	--
NU15	10-15-96	5.6	13	21	.02
NU16	11-25-96	1.8	7	14	<.01
NU17	10-15-96	7.0	6	47	.02
NU18	10-15-96	6.8	37	22	.05
NU19	11-25-96	5.7	11	73	.12
NU20	10-28-96	10	8,500	40	<.01
NU21	11-19-96	6.9	12	43	.03
NU22	12-17-96	6.9	6	26	.03
NU23	11-04-96	11	6	28	.05
NU24	12-15-96	3.4	34	7	<.01
	05-28-97	3.2	16	8	<.01
	09-09-97	3.8	<3	7	.02
NU25	12-10-96	5.4	5	53	<.01
NU26	12-16-96	3.3	5	11	.04
	10-20-97	3.6	<3	10	.02
NU27	12-16-96	4.6	25	62	.03
NU28	12-17-96	5.1	120	38	<.01
NU29	12-10-96	2.5	7,300	63	.11
NU30	12-15-96	8.0	15	13	.05
OU01	10-21-96	3.1	6	170	.06
	06-10-97	2.9	<3	48	.08
	09-03-97	3.0	<3	32	.03
OU02	12-18-96	4.9	23	30	.08
OU03	10-22-96	6.7	120	9	.04
OU04	10-22-96	1.6	11	12	.03
OU05	10-23-96	7.4	14	340	<.01
OU06	12-16-96	4.1	50	130	.03
OU07	12-18-96	6.8	9,100	44	<.01
OU08	11-20-96	1.4	13,000	21	.02
OU09	11-21-96	3.4	7	71	.04
OU10	12-18-96	5.7	22	36	.01
OU11	11-20-96	3.0	11	16	.04
	06-05-97	3.0	11	28	.04

Table 18. Concentrations of inorganic constituents in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97--Continued

Local identifier	Date	Calcium (mg/L as Ca)	Magnesium (mg/L as Mg)	Sodium (mg/L as Na)	Potassium (mg/L as K)	Chloride (mg/L as Cl)	Sulfate (mg/L as SO_4)	Fluoride (mg/L as F)
OU11	09-10-97	16	3.0	27	2.0	25	48	<0.1
OU12	12-12-96	9.5	1.1	9.8	2.2	11	8.6	<.1
OU13	11-21-96	7.9	12	97	3.0	160	63	.2
OU14	12-19-96	10	1.8	54	1.1	91	25	<.1
OU15	11-13-97	3.3	3.5	11	5.3	30	3.8	<.1
OU16	11-06-97	4.5	2.8	11	1.6	11	27	<.1
OU17	11-19-97	11	2.8	13	2.7	15	23	<.1
OU18	11-19-97	5.1	2.8	23	2.9	36	16	<.1
OU19	11-18-97	13	4.4	14	6.3	30	35	<.1
OU20	11-18-97	1.6	5.4	10	2.3	8.2	41	.1
UN01	09-09-96	2.6	1.4	2.5	1.6	4.3	14	.1
UN02	12-22-96	.77	.61	1.8	.4	3.6	8.6	.5
UN03	11-05-96	.23	.56	2.4	.5	4.1	.5	<.1
UN04	10-22-96	1.2	1.4	1.7	.8	2.9	8.0	<.1
UN05	11-05-96	.29	.41	4.4	.4	4.7	.2	<.1
UN06	10-23-96	1.6	.97	2.1	.7	2.7	9.3	<.1
UN07	12-22-96	.08	.32	1.4	.5	3.1	<.1	<.1
UN08	10-24-96	.95	.97	2.9	.8	6.7	2.4	<.1
UN09	10-23-96	.39	.26	1.6	.2	3.2	12	<.1
UN10	12-09-96	1.8	1.7	8.6	.9	12	12	<.1
UN11	12-19-96	2.7	1.5	1.7	2.8	3.0	15	<.1
UN12	12-09-96	1.1	.74	3.4	.3	5.8	5.7	<.1
UN13	12-22-96	.70	.36	1.6	.3	2.6	11	<.1

Table 18. Concentrations of inorganic constituents in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97--Continued

Local identifier	Date	Silica (mg/L as SiO_2)	Boron (µg/L as B)	Iron (µg/L as Fe)	Manganese (µg/L as Mn)	Bromide (mg/L as Br)
OU11	09-10-97	3.8	--	<3	36	0.07
OU12	12-12-96	8.5	--	6,400	46	.05
OU13	11-21-96	7.3	--	27	17	.13
OU14	12-19-96	2.6	--	29	9	.04
OU15	11-13-97	7.6	59.0	860	49	.02
OU16	11-06-97	6.6	57.2	28	120	<.01
OU17	11-19-97	6.8	59.5	<10	51	.04
OU18	11-19-97	7.4	41.3	78	52	.04
OU19	11-18-97	7.5	29.5	19	17	.03
OU20	11-18-97	7.8	33.5	33	30	.02
UN01	09-09-96	4.2	--	22	58	.02
UN02	12-22-96	5.1	--	8,000	44	<.01
UN03	11-05-96	7.8	--	260	12	.01
UN04	10-22-96	6.6	--	5	51	.02
UN05	11-05-96	5.8	--	8	<1	.02
UN06	10-23-96	4.7	--	6	76	<.01
UN07	12-22-96	5.4	--	5	2	<.01
UN08	10-24-96	6.1	--	<3	26	.02
UN09	10-23-96	4.5	--	13	12	<.01
UN10	12-09-96	4.5	--	290	22	<.01
UN11	12-19-96	6.0	--	960	37	.02
UN12	12-09-96	3.6	--	4	98	.01
UN13	12-22-96	3.5	--	1,600	47	--

Table 19. Concentrations of inorganic constituents in samples collected from observation wells for the flow-path survey, Glassboro study area, N.J., 1997

[<, less than; mg/L, milligrams per liter; µg/L, micrograms per liter]

Local identifier	Date	Calcium (mg/L as Ca)	Magnesium (mg/L as Mg)	Sodium (mg/L as Na)	Potassium (mg/L as K)	Chloride (mg/L as Cl)	Sulfate (mg/L as SO_4)	Fluoride (mg/L as F)
NU01-TEN	11-04-97	5.1	4.0	4.1	2.0	9.2	0.2	<.1
NU02-TEN	11-04-97	5.1	4.2	3.3	1.7	7.6	8.3	<.1
NU06-TEN	11-07-97	.39	.50	37	1.1	53	.2	<.1
NU09-TEN	11-14-97	3.7	1.7	7.0	3.2	15	1.5	.4
NU10-TEN	11-17-97	.75	2.1	3.8	1	6.9	<.1	<.1
NU11-TEN	10-31-97	3.1	.69	2.7	1.7	3.4	17	<.1
NU13-TEN	11-07-97	4.1	1.8	3.3	3.9	8.5	.3	<.1
NU16-TEN	11-14-97	7.0	2.2	9.8	2.7	14	21	<.1
NU19-TEN	11-21-97	7.3	2.6	6.9	1.2	19	12	<.1
NU22-TEN	11-17-97	2.4	1.1	3.4	1.1	5.7	10	<.1
NU26-TEN	11-21-97	.91	.51	2.8	.5	2.5	1.0	<.1
NU27-TEN	11-20-97	.85	.77	6.7	.6	8.3	.2	<.1
NU29-TEN	11-04-97	6.2	2.8	9.5	1.6	14	18	<.1
NU30-TEN	11-06-97	1.5	.99	7.7	1.1	5.6	10	<.1
OU01-TEN	11-05-97	4.3	.27	41	4.5	30	63	<.1
OU02-TEN	11-10-97	7.3	4.3	7.3	6.2	20	25	.1
OU04-TEN	11-05-97	4.8	2.7	34	3.4	52	17	<.1
OU05-TEN	11-13-97	.43	.38	4.3	.7	6.5	.4	<.1
OU06-TEN	11-17-97	3.9	7.6	27	16	53	45	<.1
OU07-TEN	11-10-97	3.2	1.4	4.5	2.0	5.3	1.8	<.1
OU08-TEN	11-20-97	6.1	2.5	1.7	.9	2.5	19	<.1
OU09-TEN	11-05-97	11	4.8	13	7.2	16	39	<.1
OU10-TEN	11-10-97	6.3	3.3	3.0	1.9	4.9	18	<.1
OU14-TEN	11-20-97	.91	.14	2.7	.4	2.6	.4	<.1
OU15-TEN	11-13-97	2.9	3.0	19	1.9	38	.4	<.1
OU16-TEN	11-06-97	.81	1.2	13	1.1	13	.2	<.1
OU17-TEN	11-19-97	2.3	5.3	17	2.0	21	<.1	<.1
OU18-TEN	11-19-97	2.2	5.8	44	6.7	26	.1	<.1
OU19-TEN	11-18-97	1.5	1.1	3.7	2.7	6.9	.9	<.1
OU20-TEN	11-18-97	.09	.42	2.0	.3	2.8	.2	<.1

Table 19. Concentrations of inorganic constituents in samples collected from observation wells for the flow-path survey, Glassboro study area, N.J., 1997--Continued

Local identifier	Date	Silica (mg/L as SiO_2)	Boron (µg/L as B)	Iron (µg/L as Fe)	Manganese (µg/L as Mn)	Bromide (mg/L as Br)
NU01-TEN	11-04-97	8.6	16.0	16	12	0.04
NU02-TEN	11-04-97	8.5	21.3	<3	20	.04
NU06-TEN	11-07-97	5.4	23.9	<10	5	.03
NU09-TEN	11-14-97	9.3	32.7	8	21	.04
NU10-TEN	11-17-97	6.5	15.8	5	19	.03
NU11-TEN	10-31-97	11	17.2	1100	29	.01
NU13-TEN	11-07-97	6.1	25.1	33	8	.03
NU16-TEN	11-14-97	5.6	39.1	12	20	.01
NU19-TEN	11-21-97	8.0	12.4	410	27	.06
NU22-TEN	11-17-97	9.0	14.6	66	15	<.01
NU26-TEN	11-21-97	6.9	12.5	<3	18	.03
NU27-TEN	11-20-97	4.4	16.9	20	12	.03
NU29-TEN	11-04-97	6.6	35.8	10	66	.04
NU30-TEN	11-06-97	9.2	16.9	310	61	.08
OU01-TEN	11-05-97	5.2	214	<10	7	.25
OU02-TEN	11-10-97	7.0	55.8	<3	46	.54
OU04-TEN	11-05-97	6.8	76.2	4	19	.13
OU05-TEN	11-13-97	5.5	20.7	8	3	.03
OU06-TEN	11-17-97	9.4	75.0	22	140	.16
OU07-TEN	11-10-97	8.0	45.9	<3	38	.06
OU08-TEN	11-20-97	4.8	23.1	140	99	.02
OU09-TEN	11-05-97	3.7	59.4	93	140	.09
OU10-TEN	11-10-97	7.7	52.5	12	38	.01
OU14-TEN	11-20-97	4.7	13.5	700	40	.02
OU15-TEN	11-13-97	8.1	30.2	70	14	.05
OU16-TEN	11-06-97	6.8	8.2	5	28	.04
OU17-TEN	11-19-97	7.6	11.9	<10	57	.28
OU18-TEN	11-19-97	6.9	785	<10	77	.06
OU19-TEN	11-18-97	7.7	26.6	56	13	.07
OU20-TEN	11-18-97	5.6	16.8	24	1	.02

Table 20. Concentrations of inorganic constituents in samples collected from public-supply wells, Glassboro study area, N.J., 1998

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated]

Local identifier	Date	Calcium (mg/L as Ca)	Magnesium (mg/L as Mg)	Sodium (mg/L as Na)	Potassium (mg/L as K)	Chloride (mg/L as Cl)	Sulfate (mg/L as SO_4)	Fluoride (mg/L as F)
PS01	03-09-98	4.8	1.7	3.1	1.3	7.3	2.0	<0.1
PS02	02-03-98	19	1.5	5.5	1.3	7.6	6.1	<.1
PS03	02-03-98	11	1.6	5.8	1.5	11	6.2	<.1
PS04	02-05-98	2.5	1.3	4.9	1.4	7.0	4.9	<.1
PS05	02-05-98	3.0	1.1	3.8	1.1	6.0	2.6	<.1
PS06	02-05-98	3.3	1.4	5.6	1.0	10	1.7	<.1
PS07	03-03-98	4.1	2.7	6.4	2.0	11	7.3	<.1
PS08	03-03-98	1.2	.67	1.7	.7	2.8	2.7	<.1
PS09	03-04-98	.49	.77	2.3	.4	3.5	<.1	<.1
PS10	03-04-98	2.2	3.6	4.5	1.7	8.0	4.6	<.1
PS11	03-05-98	1.3	.87	3.9	1.1	6.4	1.7	<.1
PS12	03-09-98	.24	.70	3.0	.5	4.3	.7	<.1
PS13	03-05-98	.71	.82	2.9	1	4.7	3.2	<.1
PS14	02-27-98	3.4	3.3	11	2.6	15	4.5	<.1
PS15	02-27-98	5.7	3.5	9.9	2.3	11	13	<.1
PS16	02-26-98	5.2	3.6	6.0	1.7	13	12	<.1
PS17	02-26-98	10	5.3	6.3	2.2	16	14	<.1
PS18	03-11-98	5.0	3.0	8.3	2.3	14	9.4	<.1
PS19	03-11-98	4.6	3.5	4.2	1.7	7.9	6.9	<.1
PS20	03-09-98	1.4	1.4	16	2.2	25	10	<.1
PS21	11-30-98	3.0	3.1	6.4	1.9	11	.6	<.1
PS22	11-30-98	4.2	3.7	6.1	2.3	11	4.1	<.1
PS23	11-30-98	3.7	2.3	5.0	2.2	8.0	6.5	<.1
PS24	12-10-98	1.9	1.3	3.2	1.4	5.1	5.3	<.1
PS25	12-10-98	3.4	1.8	8.0	2.0	13	13	<.1
PS26	12-09-98	1.2	.80	2.2	1.4	3.3	11	<.1
PS27	12-10-98	2.9	2.8	5.3	2.5	10	1.3	<.1
PS28	11-20-98	2.0	2.1	3.4	1.3	6.5	2.0	<.1
PS29	11-20-98	7.2	2.7	3.9	1.5	9.3	12	<.1
PS30	12-09-98	3.3	4.4	3.5	1.8	10	3.4	<.1

Table 20. Concentrations of inorganic constituents in samples collected from public-supply wells, Glassboro study area, N.J., 1998--Continued

Local identifier	Date	Silica (mg/L as SiO_2)	Iron (µg/L as Fe)	Manganese (µg/L as Mn))	Bromide (mg/L as Br)
PS01	03-09-98	9.0	20	19	0.04
PS02	02-03-98	8.5	<10	<4	.02
PS03	02-03-98	9.1	<10	<4	.03
PS04	02-05-98	9.1	480	8	.03
PS05	02-05-98	9.4	240	9	.03
PS06	02-05-98	8.8	110	8	.03
PS07	03-03-98	6.8	120	29	.04
PS08	03-03-98	6.9	70	7	.03
PS09	03-04-98	5.5	13	7	.03
PS10	03-04-98	7.9	150	22	.04
PS11	03-05-98	5.0	25	23	.02
PS12	03-09-98	5.1	20	12	.02
PS13	03-05-98	6.0	38	18	<.01
PS14	02-27-98	7.0	<10	22	.02
PS15	02-27-98	7.1	<10	34	.02
PS16	02-26-98	8.6	120	15	.03
PS17	02-26-98	8.9	47	37	.03
PS18	03-11-98	7.8	240	21	.03
PS19	03-11-98	6.4	34	43	.02
PS20	03-09-98	10	480	28	.03
PS21	11-30-98	8.1	E8	18	.05
PS22	11-30-98	8.7	43	21	.05
PS23	11-30-98	7.6	42	19	.03
PS24	12-10-98	10	<10	9	.03
PS25	12-10-98	9.0	580	36	.05
PS26	12-09-98	12	210	20	.01
PS27	12-10-98	7.2	<10	18	.10
PS28	11-20-98	7.4	18	27	.03
PS29	11-20-98	13	570	27	.03
PS30	12-09-98	9.2	<10	16	.04

Table 21. Concentrations of inorganic constituents in samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998

[<, less than; --, no data; mg/L, milligrams per liter; µg/L, micrograms per liter]

Local identifier	Date	Calcium (mg/L as Ca)	Magnesium (mg/L as Mg)	Sodium (mg/L as Na)	Potassium (mg/L as K)	Chloride (mg/L as Cl)	Sulfate (mg/L as SO_4)	Fluoride (mg/L as F)
CP01	07-15-98	0.56	1.5	21	1.0	32	0.4	<0.1
CP02	07-14-98	4.2	3.4	4.7	3.9	11	17	<.1
CP03	07-16-98	.67	.33	3.1	.4	5.1	.9	<.1
CP04	07-15-98	1.4	2.2	8.8	2.3	13	.6	<.1
CP05	07-22-98	.88	.71	4.7	1.1	8.0	3.9	<.1
CP06	09-02-98	1.9	.42	1.8	.8	3.2	3.7	<.1
CP07	07-20-98	29	2.1	5.5	2.0	8.5	.2	<.1
CP08	07-22-98	1.1	1.2	5.7	.9	10	4.3	<.1
CP09	07-28-98	4.0	.76	3.7	1.5	2.3	12	<.1
CP10	07-21-98	.72	.42	1.3	.3	2.9	.1	<.1
CP11	07-27-98	35	7.3	4.3	4.6	19	42	<.1
CP12	07-28-98	1.4	1.6	6.7	.7	11	.3	<.1
CP13	07-29-98	.32	.40	2.7	.4	5.0	1	<.1
CP14	08-03-98	.59	.37	1.8	.9	2.9	7.5	<.1
CP15	08-25-98	.61	.41	3.1	1.3	5.6	1.4	<.1
CP16	09-03-98	2.1	1.1	2.7	1.4	4.6	4.8	<.1
CP17	08-27-98	4.0	3.5	3.3	1.8	10	1.0	<.1
CP18	08-25-98	5.2	.73	4.1	1.5	6.8	15	<.1
CP19	09-02-98	.89	1.3	12	.9	9.1	.2	<.1
CP20	09-03-98	.26	.42	3.4	.7	6.3	9.1	<.1
CP21	09-09-98	.42	.70	4.0	.4	7.1	.7	<.1
CP22	09-10-98	7.1	3.4	52	1.1	100	1.2	<.1
CP23	09-09-98	32	3.6	21	6.3	22	26	<.1
CP24	09-16-98	6.4	5.2	21	5.7	36	11	<.1
CP25	09-23-98	.82	1.5	10	1.0	17	.2	<.1
CP26	09-23-98	.64	.45	2.5	.7	4.2	5.2	<.1
CP27	09-22-98	.75	.43	1.8	.9	3.4	12	<.1
CP28	10-14-98	5.6	2.4	4.8	1.5	8.4	29	<.1
CP29	11-04-98	.17	.19	5.9	.4	4.2	1.4	<.1
CP30	11-12-98	1.0	1.0	5.6	.6	13	.4	<.1

Table 21. Concentrations of inorganic constituents in samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998--Continued

Local identifier	Date	Silica (mg/L as SiO_2)	Boron (µg/L as B)	Iron (µg/L as Fe)	Manganese (µg/L as Mn)	Bromide (mg/L as Br)
CP01	07-15-98	5.3	24.0	<10	17	--
CP02	07-14-98	10	<16.0	<10	44	0.03
CP03	07-16-98	6.7	16.1	<10	<4	.01
CP04	07-15-98	4.6	34.5	<10	19	.03
CP05	07-22-98	9.7	<16.0	<10	16	--
CP06	09-02-98	12	<16.0	<10	<3	.02
CP07	07-20-98	46	37.2	420	120	.03
CP08	07-22-98	5.5	18.7	<10	10	--
CP09	07-28-98	20	17.6	1300	12	--
CP10	07-21-98	6.2	<16.0	<10	<4	--
CP11	07-27-98	6.7	23.2	<10	<4	.04
CP12	07-28-98	9.5	18.6	160	14	<.01
CP13	07-29-98	5.0	<16.0	<10	7	--
CP14	08-03-98	13	17.9	12	5	--
CP15	08-25-98	9.2	<16.0	<10	5	.03
CP16	09-03-98	14	16.3	110	10	.04
CP17	08-27-98	7.2	27.6	<10	11	.03
CP18	08-25-98	14	18.1	1300	19	.06
CP19	09-02-98	6.1	18.6	<10	26	.05
CP20	09-03-98	7.8	<16.0	23	6	.03
CP21	09-09-98	5.2	<16.0	<10	<4	.04
CP22	09-10-98	7.4	<16.0	35	7	.15
CP23	09-09-98	11	43.6	40	77	.06
CP24	09-16-98	4.5	43.6	560	15	.05
CP25	09-23-98	5.0	22.6	<10	10	.05
CP26	09-23-98	12	16.1	<10	9	.03
CP27	09-22-98	13	<16.0	400	9	.05
CP28	10-14-98	9.4	E14.3	1500	19	.05
CP29	11-04-98	6.7	E12.4	<10	<3	.06
CP30	11-12-98	6.7	16.6	E10	11	.03

Table 22. Concentrations of inorganic constituents in samples collected from domestic wells in the Piedmont Physiographic Province, N.J.,1998

[mg/L, milligrams per liter; <, less than; µg/L, micrograms per liter]

Local identifier	Date	Calcium (mg/L as Ca)	Magnesium (mg/L as Mg)	Sodium (mg/L as Na)	Potassium (mg/L as K)	Chloride (mg/L as Cl)	Sulfate (mg/L as SO_4)
PD01	07-13-98	54	7.0	12	5.7	6.5	29
PD02	07-15-98	18	6.5	14	1.4	12	20
PD03	07-30-98	46	17	11	.8	4.5	24
PD04	07-10-98	51	18	18	1.1	50	18
PD05	07-17-98	53	19	10	.9	31	48
PD06	07-17-98	48	16	20	1.8	46	29
PD07	07-28-98	44	20	12	.8	4.0	60
PD08	07-08-98	35	14	9.6	.8	6.0	25
PD09	07-29-98	37	16	8.6	.9	5.6	11
PD10	07-09-98	29	14	9.1	.8	2.1	4.2
PD11	07-16-98	32	8.2	7.7	.6	5.6	11
PD12	07-10-98	32	5.6	10	.8	1.5	1.6
PD13	07-23-98	54	23	27	2.9	47	36
PD14	07-09-98	59	23	14	1.4	15	9.3
PD15	07-28-98	21	5.1	4.6	1.5	8.5	9.1
PD16	07-15-98	91	15	11	.2	53	23
PD17	07-29-98	36	17	6.9	1.3	4.5	19
PD18	07-14-98	48	22	8.8	.3	54	24
PD19	07-16-98	25	8.4	6.3	.2	4.6	21
PD20	08-17-98	34	13	15	.8	11	33
PD21	08-21-98	38	25	13	1.4	4.8	61
PD22	08-14-98	75	3.1	13	1.4	91	<.1

Table 22. Concentrations of inorganic constituents in samples collected from domestic wells in the Piedmont Physiographic Province, N.J., 1998--Continued

Local identifier	Date	Fluoride (mg/L as F)	Silica (mg/L as SiO_2)	Iron (µg/L as Fe)	Manganese (µg/L as Mn)
PD01	07-13-98	0.4	20	85	47
PD02	07-15-98	<.1	30	<10	<4
PD03	07-30-98	<.1	20	<10	<4
PD04	07-10-98	<.1	17	<10	<4
PD05	07-17-98	<.1	21	<10	<4
PD06	07-17-98	.1	20	<10	<4
PD07	07-28-98	<.1	19	<10	<4
PD08	07-08-98	.1	21	<10	<4
PD09	07-29-98	<.1	19	<10	<4
PD10	07-09-98	<.1	23	<10	<4
PD11	07-16-98	<.1	19	<10	<4
PD12	07-10-98	<.1	23	<10	<4
PD13	07-23-98	<.1	25	<10	4
PD14	07-09-98	<.1	25	<10	<4
PD15	07-28-98	.2	47	4100	390
PD16	07-15-98	<.1	34	<10	<4
PD17	07-29-98	<.1	23	<10	<4
PD18	07-14-98	<.1	36	11	<4
PD19	07-16-98	<.1	31	<10	<4
PD20	08-17-98	<.1	14	<10	6
PD21	08-21-98	<.1	23	<10	34
PD22	08-14-98	<.1	14	<10	8

Table 23. Concentrations of inorganic constituents in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997

[<, less than; mg/L, milligrams per liter; µg/L, micrograms per liter; *, wells located in New York State]

Local identifier	Date	Calcium (mg/L as Ca)	Magnesium, (mg/L as Mg)	Sodium, (mg/L as Na)	Potassium (mg/L as K)	Chloride, (mg/L as Cl)	Sulfate (mg/L as SO_4)	Fluoride, (mg/L as F)
NE01	09-17-97	22	4.1	2.7	0.7	2.4	15	0.6
NE02	11-02-97	36	9.6	21	.7	1.9	7.1	.6
NE03	08-26-97	98	23	12	1.9	110	37	<.1
NE04	08-27-97	58	23	6.3	.8	94	14	.1
NE05	09-16-97	30	15	18	.9	69	28	<.1
NE06	09-16-97	8.6	3.6	5.4	.6	4.3	10	<.1
NE07	09-22-97	9.7	4.1	3.1	.5	3.9	11	.2
NE08	09-02-97	23	5.3	6.2	.6	1.2	4.9	.2
NE09	10-15-97	50	6.9	5.0	1.3	14	21	.1
NE10	08-26-97	68	16	49	1.4	160	35	<.1
NE11	10-19-97	13	4.7	4.3	.6	1.9	14	<.1
NE12	10-20-97	74	23	16	2.6	150	17	<.1
NE13	09-23-97	12	6.1	1.8	.5	6.6	13	<.1
NE14	10-19-97	18	13	10	2.2	44	14	.1
NE15	09-04-97	17	7.0	20	1.5	47	21	<.1
NE16	10-14-97	9.0	4.0	5.0	.9	13	6.4	<.1
NE17	09-03-97	42	26	12	1.7	50	28	.1
NE18	09-24-97	54	13	13	1.5	67	23	<.1
NE19	10-29-97	19	7.6	6.8	1.6	38	3.0	<.1
NE20	11-12-97	9.4	2.9	5.3	.8	2.7	11	<.1
NE21	10-21-97	25	3.9	6.6	1.5	17	25	<.1
NE22	10-21-97	19	6.0	5.7	1.2	7.0	19	.1
NE23	09-15-97	22	2.0	6.0	.7	6.0	15	.3
NE24	08-28-97	5.9	1.4	4.4	.8	3.2	16	<.1
NE25	10-21-97	11	1.6	8.5	1.1	3.1	24	<.1
NE26	11-09-97	20	7.3	6.3	1.1	12	15	.1
NE27	11-09-97	40	13	5.8	.6	58	8.5	<.1
NE28*	12-09-97	18	3.5	18	.9	33	14	<.1
NE29*	12-09-97	22	3.5	4.2	.5	1.8	20	.4
NE30*	12-10-97	8.7	2.8	8.5	.6	6.3	15	<.1

Table 23. Concentrations of inorganic constituents in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997--Continued

Local identifier	Date	Silica (mg/L as SiO_2)	Boron (µg/L as B)	Iron (µg/L as Fe)	Manganese (µg/L as Mn)	Bromide (mg/L as Br)
NE01	09-17-97	16	16.6	<3	<1	0.01
NE02	11-02-97	16	36.0	8	18	<.01
NE03	08-26-97	17	23.4	<3	<1	.07
NE04	08-27-97	17	6.9	5	1	.09
NE05	09-16-97	16	24.7	10	180	.07
NE06	09-16-97	14	26.1	79	11	<.01
NE07	09-22-97	11	6.2	20	2	.01
NE08	09-02-97	13	9.9	60	180	.01
NE09	10-15-97	18	16.5	<3	<1	.05
NE10	08-26-97	17	54.3	4	2	.05
NE11	10-19-97	33	14.2	<3	<1	.01
NE12	10-20-97	22	18.5	270	27	.15
NE13	09-23-97	7.6	15.0	<3	<1	.03
NE14	10-19-97	30	11.5	5	3	.03
NE15	09-04-97	19	9.2	67	30	.02
NE16	10-14-97	20	9.1	7	2	.02
NE17	09-03-97	38	31.3	5	<1	.04
NE18	09-24-97	27	21.8	4	4	.04
NE19	10-29-97	19	10.4	9	<1	.02
NE20	11-12-97	24	11.5	<3	<1	<.01
NE21	10-21-97	24	15.1	21	8	.01
NE22	10-21-97	21	14.4	190	80	.02
NE23	09-15-97	15	22.5	<3	2	.01
NE24	08-28-97	14	13.6	21	15	<.01
NE25	10-21-97	24	16.4	20	6	.01
NE26	11-09-97	24	17.5	10	6	.02
NE27	11-09-97	18	12.7	8	4	.05
NE28	12-09-97	12	10.7	<3	<1	.02
NE29	12-09-97	18	18.1	<3	<1	.01
NE30	12-10-97	12	15.3	11	<4	<.01

Table 24. Concentrations of trace elements in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997

[<, less than; µg/L, micrograms per liter; *, wells are located in New York State]

Local identifier	Date	Arsenic (µg/L as AS)	Barium (µg/L as BA)	Chromium (µg/L as CR)	Copper (µg/L as CU)	Lead (µg/L as Pb)	Manganese (µg/L as Mn)	Molybdenum (µg/L as Mo)
NE01	09-17-97	<1	2	1	4	<1	<1	3
NE02	11-02-97	<1	1	3	<1	<1	17	12
NE03	08-26-97	<1	4	1	<1	<1	<1	<1
NE04	08-27-97	<1	2	1	<1	<1	<1	<1
NE05	09-16-97	<1	9	<1	19	5	72	<1
NE06	09-16-97	<1	3	1	141	<1	10	<1
NE07	09-22-97	<1	3	<1	<1	<1	1	<1
NE08	09-02-97	2	15	1	<1	<1	178	3
NE09	10-15-97	<1	1	1	4	<1	<1	3
NE10	08-26-97	<1	3	2	3	<1	2	<1
NE11	10-19-97	<1	7	<1	1	<1	<1	<1
NE12	10-20-97	<1	4	2	10	<1	28	<1
NE13	09-23-97	<1	47	<1	<1	<1	<1	<1
NE14	10-19-97	<1	1	<1	<1	<1	2	<1
NE15	09-04-97	<1	31	<1	44	<1	29	<1
NE16	10-14-97	<1	9	3	2	<1	2	<1
NE17	09-03-97	<1	18	1	4	<1	<1	<1
NE18	09-24-97	<1	2	2	1	<1	3	<1
NE19	10-29-97	<1	1	1	14	1	1	<1
NE20	11-12-97	<1	4	2	1	<1	<1	<1
NE21	10-21-97	<1	7	1	1	<1	9	<1
NE22	10-21-97	29	4	<1	22	<1	77	<1
NE23	09-15-97	<1	2	<1	26	<1	1	<1
NE24	08-28-97	<1	2	<1	7	<1	14	<1
NE25	10-21-97	<1	12	<1	15	<1	7	<1
NE26	11-09-97	<1	5	1	20	<1	6	2
NE27	11-09-97	<1	<1	4	2	<1	5	<1
NE28*	12-09-97	<1	8	<1	2	<1	1	<1
NE29*	12-09-97	<1	1	<1	2	<1	<1	2
NE30*	12-10-97	<1	7	2	28	<1	2	<1

Table 24. Concentrations of trace elements in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997--Continued

Local identifier	Date	Nickel (µg/L as NI)	Silver (µg/L as AG)	Zinc (µg/L as ZN)	Antimony (µg/L as SB)	Aluminum (µg/L as AL)	Selenium (µg/L as SE)	Uranium natural (µg/L as U)
NE01	09-17-97	<1	<1	<1	<1	6	<1	2
NE02	11-02-97	<1	<1	<1	<1	4	<1	13
NE03	08-26-97	<1	<1	<1	<1	3	<1	9
NE04	08-27-97	<1	<1	<1	<1	5	<1	<1
NE05	09-16-97	2	<1	11	<1	<1	<1	<1
NE06	09-16-97	3	<1	45	<1	5	<1	<1
NE07	09-22-97	1	<1	1	<1	4	<1	<1
NE08	09-02-97	<1	<1	<1	<1	4	<1	<1
NE09	10-15-97	<1	<1	<1	<1	4	<1	429
NE10	08-26-97	<1	<1	6	<1	3	<1	4
NE11	10-19-97	<1	<1	<1	<1	4	<1	<1
NE12	10-20-97	2	<1	1	<1	2	<1	<1
NE13	09-23-97	<1	<1	<1	<1	5	<1	<1
NE14	10-19-97	<1	<1	<1	<1	3	<1	<1
NE15	09-04-97	2	<1	7	<1	4	<1	<1
NE16	10-14-97	1	<1	<1	<1	5	<1	<1
NE17	09-03-97	2	<1	3	<1	6	<1	2
NE18	09-24-97	<1	<1	<1	<1	4	2	<1
NE19	10-29-97	2	<1	11	<1	5	<1	<1
NE20	11-12-97	<1	<1	<1	<1	3	<1	<1
NE21	10-21-97	<1	<1	2	<1	4	<1	<1
NE22	10-21-97	1	<1	3	<1	5	<1	<1
NE23	09-15-97	<1	<1	<1	<1	6	<1	<1
NE24	08-28-97	<1	<1	5	<1	28	<1	<1
NE25	10-21-97	<1	<1	<1	<1	5	<1	<1
NE26	11-09-97	<1	<1	<1	<1	5	<1	<1
NE27	11-09-97	<1	<1	3	<1	3	<1	1
NE28	12-09-97	<1	<1	5	<1	5	<1	<1
NE29	12-09-97	<1	<1	<1	<1	4	<1	2
NE30	12-10-97	2	<1	28	<1	6	<1	<1

Table 25. Concentrations of selected pesticides in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97

[Data are included only for pesticides detected in one or more samples from one or more well networks. A complete listing of pesticides analyzed for in each sample is included in table 2; <, less than; E, estimated concentration; all concentratons are in micrograms per liter]

Local identifier	Date	Butylate	Simazine	Prometon	Deethyl atrazine	Cyanazine	p,p'-DDE	Lindane	Dieldrin	Metolachlor
AG01	09-04-96	<0.002	<0.005	<0.018	<0.002	<0.004	<0.006	<0.004	<0.001	<0.002
AG02	09-05-96	<.002	.068	<.018	<.002	<.004	E.0018	<.004	.0096	E.002
	05-15-97	<.002	.0624	<.018	<.002	<.004	<.006	<.004	.0084	.0069
	09-16-97	<.002	.128	<.018	E.0028	<.004	<.006	<.004	.0102	.0070
AG03	09-03-96	<.002	<.005	<.018	E.0038	<.004	<.006	<.004	<.001	E.002
AG04	09-05-96	<.002	<.005	<.018	E.189	<.004	<.006	<.004	<.001	.004
AG05	09-03-96	<.002	E.003	<.018	E.263	<.004	<.006	<.004	<.001	E.003
AG06	09-04-96	<.002	.916	<.018	E.098	<.004	<.006	<.004	<.001	.143
	06-24-97	<.002	.756	<.018	E.0423	<.004	<.006	<.004	<.001	.174
	09-04-97	<.002	.682	<.018	E.0464	<.004	<.006	<.004	<.001	.0916
AG07	10-28-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
AG08	10-30-96	E.0025	<.005	<.018	E.480	<.004	<.006	<.004	<.001	.466
AG09	10-16-96	<.002	<.005	<.018	E.056	<.004	<.006	<.004	<.001	<.002
AG10	10-16-96	<.002	E.0041	<.018	<.002	<.004	<.006	<.004	<.001	.037
AG11	10-16-96	<.002	E.0043	<.018	E.0049	<.004	<.006	<.004	<.001	.041
AG12	10-30-96	<.002	<.005	<.018	E.100	<.004	<.006	<.004	<.001	<.002
AG13	12-20-96	<.002	.230	1.09	E.0029	<.004	<.006	<.004	<.001	.023
AG14	12-20-96	<.002	1.38	<.018	E.0058	<.004	<.006	<.004	<.001	.119
AG15	10-30-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	.005
NU01	09-10-96	<.002	.057	<.018	E.0023	<.004	<.006	<.004	<.001	E.003
NU02	09-10-96	<.002	.015	<.018	E.0021	<.004	<.006	<.004	<.001	<.002
NU03	09-11-96	<.002	<.005	.344	E.0022	<.004	<.006	<.004	<.001	<.002
NU04	09-12-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	.262	E.002
NU05	11-04-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU06	09-30-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU07	09-30-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU08	09-18-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU09	10-02-96	<.002	.629	.134	E.0064	<.004	<.006	<.004	<.001	E.002
NU10	09-19-96	<.002	.124	.043	E.0018	<.004	<.006	<.004	5.60	<.002
	05-20-97	<.002	.0416	.0704	<.002	<.004	<.006	<.004	3.82	<.002
	09-05-97	<.002	.0364	.0612	<.002	<.004	<.006	<.004	4.74	<.002
NU11	10-01-96	<.002	.605	<.018	<.002	<.004	<.006	<.004	.005	<.002
NU12	09-18-96	<.002	.175	.113	E.0058	<.004	<.006	<.004	<.001	E.004
NU13	10-01-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU14	11-19-96	<.002	<.005	<.018	E.0012	<.004	<.006	<.004	<.001	<.002

Table 25. Concentrations of selected pesticides in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97--Continued

Local identifier	Date	Atrazine	Alachlor	Acetochlor	Metribuzin	Trifluralin	Terbacil	Linuron	EPTC	Tebuthiuron
AG01	09-04-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
AG02	09-05-96	<.001	<.002	<.002	<.004	<.002	E.495	<.002	<.002	<.01
	05-15-97	E.002	<.002	<.002	<.004	<.002	E.921	<.002	<.002	<.01
	09-16-97	<.001	<.002	<.002	<.004	<.002	E1.05	<.002	<.002	<.01
AG03	09-03-96	.006	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
AG04	09-05-96	.124	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
AG05	09-03-96	.347	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
AG06	09-04-96	.676	.060	<.002	.159	.014	<.007	.024	<.002	<.01
	06-24-97	.399	.0428	<.002	.0485	.0128	E.006	.012	<.002	<.01
	09-04-97	.256	.0246	<.002	.0358	.0088	E.0051	.0109	<.002	<.01
AG07	10-28-96	<.001	.024	<.002	<.004	<.002	<.007	<.002	<.002	<.01
AG08	10-30-96	.544	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
AG09	10-16-96	.007	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
AG10	10-16-96	E.004	<.002	<.002	.008	<.002	<.007	<.002	<.002	<.01
AG11	10-16-96	.021	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
AG12	10-30-96	.004	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
AG13	12-20-96	.005	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
AG14	12-20-96	.017	.099	<.002	<.004	<.002	<.007	<.002	<.002	<.01
AG15	10-30-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU01	09-10-96	.004	<.002	<.002	<.004	<.002	E.015	<.002	<.002	<.01
NU02	09-10-96	E.004	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU03	09-11-96	.004	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU04	09-12-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU05	11-04-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU06	09-30-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU07	09-30-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU08	09-18-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU09	10-02-96	.007	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU10	09-19-96	E.004	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
	05-20-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
	09-05-97	<.001	<.002	<.002	.0080	<.002	<.007	<.002	<.002	<.01
NU11	10-01-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU12	09-18-96	.009	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU13	10-01-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU14	11-19-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01

Table 25. Concentrations of selected pesticides in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97--Continued

Local identifier	Date	Benfluralin	Carbofuran	Carbaryl	DCPA	Pendimethalin	Napropamide	Diazinon D10 (surrogate) (percent reovery)	Terbuthylazine (surrogate) (percent recovery)	HCH alpha (surrogate) (percent recovery)
AG01	09-04-96	<.002	<.003	<.003	<.002	<.004	<.003	87.2	101	94.3
AG02	09-05-96	<.002	E.023	E.0052	<.002	<.004	<.003	76.9	91.3	79.3
	05-15-97	<.002	E.0226	E.0057	<.002	<.004	<.003	89.4	91.2	118
	09-16-97	<.002	E.067	E.025	<.002	<.004	<.003	116	124	106
AG03	09-03-96	<.002	<.003	<.003	<.002	<.004	<.003	103	104	96.1
AG04	09-05-96	<.002	<.003	<.003	<.002	<.004	<.003	115	111	94.2
AG05	09-03-96	<.002	<.003	<.003	<.002	<.004	<.003	70.4	102	93.1
AG06	09-04-96	<.002	E.066	<.003	E.001	.028	.043	82.9	108	95.2
	06-24-97	<.002	E.0584	E.0284	.0084	.0175	.0414	102	116	103
	09-04-97	<.002	E.0339	E.0111	.011	<.02	.0346	93.5	112	98.2
AG07	10-28-96	<.002	E.025	<.003	<.002	<.004	<.003	108	110	94.1
AG08	10-30-96	<.002	<.003	<.003	<.002	<.004	<.003	91.7	102	96.9
AG09	10-16-96	<.002	<.003	<.003	<.002	<.004	<.003	81.1	90.0	71.3
AG10	10-16-96	<.002	E.017	<.003	<.002	<.004	<.003	82.7	95.5	71.5
AG11	10-16-96	<.002	<.003	<.003	<.002	<.004	<.003	75.4	86.9	80.4
AG12	10-30-96	<.002	<.003	<.003	<.002	<.004	<.003	92.3	99.0	98.9
AG13	12-20-96	<.002	<.003	<.003	<.002	<.004	<.003	99.4	103	95.6
AG14	12-20-96	<.002	<.003	<.003	<.002	<.004	<.003	98.3	102	86.6
AG15	10-30-96	<.002	<.003	<.003	<.002	<.004	<.003	83.6	91.3	93.1
NU01	09-10-96	<.002	<.003	<.003	<.002	<.004	<.003	81.2	98.8	97.9
NU02	09-10-96	<.002	<.003	<.003	<.002	<.004	<.003	88.6	98.4	94.9
NU03	09-11-96	<.002	<.003	<.003	<.002	<.004	<.003	71.4	91.1	83.9
NU04	09-12-96	<.002	<.003	<.003	<.002	<.004	<.003	84.8	107	97.1
NU05	11-04-96	<.002	<.003	<.003	<.002	<.004	<.003	86.3	78.2	69.5
NU06	09-30-96	<.002	<.003	<.003	<.002	<.004	<.003	89.9	92.4	77.2
NU07	09-30-96	<.002	<.003	<.003	<.002	<.004	<.003	86.5	87.9	85.1
NU08	09-18-96	<.002	<.003	<.003	<.002	<.004	<.003	86.2	107	106
NU09	10-02-96	<.002	<.003	<.003	<.002	<.004	<.003	91.0	94.2	77.7
NU10	09-19-96	<.002	<.003	<.003	<.002	.011	<.003	88.8	97.7	88.0
	05-20-97	<.002	<.003	<.003	<.002	<.004	<.003	102	104	107
	09-05-97	<.002	<.003	<.003	<.002	<.004	<.003	90.8	107	96.3
NU11	10-01-96	<.002	<.003	<.003	<.002	<.004	<.003	88.1	95.4	68.9
NU12	09-18-96	<.002	<.003	<.003	<.002	<.004	<.003	83.4	104	91.3
NU13	10-01-96	<.002	<.003	<.003	<.002	<.004	<.003	90.8	96.8	70.6
NU14	11-19-96	<.002	<.003	<.003	<.002	<.004	<.003	89.5	90.9	102

Table 25. Concentrations of selected pesticides in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97--Continued

Local identifier	Date	Burylate	Simazine	Prometon	Deethyl atrazine	Cyanazine	p,p'-DDE	Lindane	Dieldrin	Metolachlor
NU15	10-15-96	<.002	.0093	<.018	E.0014	<.004	<.006	<.004	<.001	<.002
NU16	11-25-96	<.002	.049	.029	E.0046	<.004	<.006	<.004	E.002	.014
NU17	10-15-96	<.002	.011	<.018	E.0076	<.004	<.006	<.004	<.001	.019
NU18	10-15-96	<.002	.068	<.018	E.0019	<.004	<.006	<.004	<.001	<.002
NU19	11-25-96	<.002	.043	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU20	10-28-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU21	11-19-96	<.002	<.005	<.018	E.0016	<.004	<.006	<.004	<.001	<.002
NU22	12-17-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	.020	<.002
NU23	11-04-96	<.002	.015	<.018	E.0025	<.004	<.006	<.004	<.001	<.002
NU24	12-15-96	<.002	.066	<.018	E.0056	<.004	<.006	<.004	.020	.022
	05-28-97	<.002	.0606	<.018	E.0032	<.004	<.006	<.004	.0157	.0165
	09-09-97	<.002	.049	<.018	E.0035	<.004	<.006	<.004	.0106	.0144
NU25	12-10-96	<.002	.0085	<.018	E.0015	<.004	<.006	<.004	<.001	E.002
NU26	12-16-96	<.002	.067	E.015	<.002	<.004	<.006	<.004	.041	<.002
	10-20-97	<.002	.0144	E.0159	<.002	<.004	<.006	<.004	.0876	<.002
NU27	12-16-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU28	12-17-96	<.002	<.010	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU29	12-10-96	<.002	<.005	.069	<.002	<.004	<.006	<.004	<.001	.006
NU30	12-15-96	<.002	<.005	<.018	E.0012	<.004	<.006	<.004	.022	E.002
OU01	10-21-96	<.002	.0069	4.83	E.069	<.004	<.006	<.004	<.001	E.002
	06-25-97	<.002	<.005	.922	E.019	<.004	<.006	<.004	<.001	<.002
	09-03-97	<.002	.0058	.633	E.0605	<.004	<.006	<.004	<.001	.0048
OU02	12-18-96	<.002	E.0041	<.018	<.002	<.004	<.006	<.004	.063	<.002
OU03	10-22-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
OU04	10-22-96	<.002	<.005	.168	E.0015	<.004	<.006	<.004	<.001	<.002
OU05	10-23-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
OU06	12-16-96	<.002	<.005	E.0036	E.0019	<.004	<.006	<.004	<.001	<.002
OU07	12-18-96	<.002	.136	.062	E.014	<.004	<.006	<.004	<.001	<.002
OU08	11-20-96	<.002	.0065	E.011	<.005	.023	<.006	<.004	<.001	<.002
OU09	11-21-96	<.002	.03	.047	E.027	<.004	<.006	<.004	<.001	E.004
OU10	12-18-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
OU11	11-20-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
OU12	12-12-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
OU13	11-21-96	<.002	<.005	<.018	E.0028	<.004	<.006	<.004	<.001	<.002
OU14	12-19-96	<.002	<.005	.240	E.0028	<.004	<.006	<.004	<.001	.008

Table 25. Concentrations of selected pesticides in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97--Continued

Local identifier	Date	Atrazine	Alachlor	Acetochlor	Metribuzin	Trifluralin	Terbacil	Linuron	EPTC	Tebuthiuron
NU15	10-15-96	E.003	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU16	11-25-96	.014	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU17	10-15-96	.013	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU18	10-15-96	E.004	<.002	<.002	<.004	<.002	E.0065	<.002	<.002	<.01
NU19	11-25-96	.004	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU20	10-28-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU21	11-19-96	E.002	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU22	12-17-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU23	11-04-96	.005	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU24	12-15-96	.012	<.002	<.002	<.004	<.002	E.037	<.002	<.002	.04
	05-28-97	.0131	<.002	<.002	<.004	<.002	E.0343	<.002	<.002	.0355
	09-09-97	.0102	<.002	<.002	<.004	<.002	E.0276	<.002	<.002	.0292
NU25	12-10-96	E.004	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU26	12-16-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
	10-20-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU27	12-16-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU28	12-17-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU29	12-10-96	E.003	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NU30	12-15-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU01	10-21-96	.026	<.002	<.002	<.004	<.002	<.007	<.002	<.002	E1.43
	06-25-97	.0067	<.002	<.002	<.004	<.002	<.007	<.002	<.002	1.03
	09-03-97	.0098	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU02	12-18-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU03	10-22-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU04	10-22-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU05	10-23-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU06	12-16-96	.005	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU07	12-18-96	.117	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU08	11-20-96	.006	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU09	11-21-96	.051	<.002	<.002	<.004	<.002	<.007	<.002	<.002	E.122
OU10	12-18-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU11	11-20-96	E.003	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU12	12-12-96	<.001	<.002	<.002	<.028	<.002	<.007	<.002	<.002	<.01
OU13	11-21-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU14	12-19-96	E.003	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01

Table 25. Concentrations of selected pesticides in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97--Continued

Local identifier	Date	Benfluralin	Carbofuran	Carbaryl	DCPA	Pendimethalin	Napropamide	Diazinon D10 (surrogate) (percent recovery)	Terbuthylazine (surrogate) (percent recovery)	HCH alpha (surrogate) (percent recovery)
NU15	10-15-96	<.002	<.003	<.003	<.002	<.004	<.003	85.4	99.3	70.5
NU16	11-25-96	<.002	<.003	<.003	<.002	<.004	<.003	87.5	91.1	92.2
NU17	10-15-96	<.002	<.003	<.003	<.002	<.004	<.003	87.7	102	71.3
NU18	10-15-96	<.002	<.003	E.024	<.002	<.004	<.003	74.6	89.7	88.7
NU19	11-25-96	<.002	<.003	<.003	<.002	<.004	<.003	96.6	102	112
NU20	10-28-96	<.002	<.01	<.003	<.002	<.004	<.003	115	111	72.2
NU21	11-19-96	<.002	<.003	<.003	<.002	<.004	<.003	92.0	103	104
NU22	12-17-96	<.002	<.003	<.003	<.002	<.004	<.003	79.1	93.3	91.8
NU23	11-04-96	<.002	<.003	<.003	<.002	<.004	<.003	82.9	63.3	67.2
NU24	12-15-96	<.002	<.003	E.011	<.002	.0083	<.003	107	112	108
	05-28-97	<.002	<.003	<.003	<.002	<.004	<.003	103	101	101
	09-09-97	<.002	<.003	<.003	<.002	<.004	<.003	99.1	120	82.7
NU25	12-10-96	<.002	<.003	<.003	<.002	<.004	<.003	80.5	81.2	64.5
NU26	12-16-96	<.002	<.003	<.003	<.002	<.004	<.003	76.4	89.4	77.2
	10-20-97	<.002	<.003	<.003	<.002	<.004	<.003	89.3	121	94.6
NU27	12-16-96	<.002	<.003	<.003	<.002	<.004	<.003	78.3	91.0	90.4
NU28	12-17-96	<.002	<.003	<.003	<.002	<.004	<.003	76.3	88.5	76.1
NU29	12-10-96	<.002	<.003	<.003	<.002	<.004	<.003	90.6	90.1	73.1
NU30	12-15-96	<.002	<.003	<.003	<.002	<.004	<.003	102	105	104
OU01	10-21-96	<.002	E.0041	<.003	<.002	<.004	<.003	94.0	102	116
	06-25-97	<.002	<.003	<.003	<.002	<.004	<.003	97.2	112	102
	09-03-97	<.002	<.003	<.003	<.002	<.004	<.003	86.8	108	95.4
OU02	12-18-96	<.002	<.003	<.003	<.002	<.004	<.003	97.0	89.5	84.1
OU03	10-22-96	<.002	<.003	<.003	<.002	<.004	<.003	80.2	82.4	102
OU04	10-22-96	<.002	<.003	<.003	<.002	<.004	<.003	81.1	88.0	99.2
OU05	10-23-96	<.002	<.003	E.031	<.002	<.004	<.003	71.1	85.2	78.1
OU06	12-16-96	<.002	<.003	<.003	<.002	<.004	<.003	90.8	94.1	77.1
OU07	12-18-96	<.002	<.003	<.003	<.002	<.004	<.003	80.4	98.3	72.6
OU08	11-20-96	<.002	<.003	<.003	<.002	<.004	<.003	105	107	111
OU09	11-21-96	<.002	<.003	<.003	<.002	<.004	<.003	101	90.4	109
OU10	12-18-96	<.002	<.003	<.003	<.002	<.004	<.003	88.3	84.3	86.4
OU11	11-20-96	<.002	<.003	<.003	<.002	<.004	<.003	79.0	86.3	97.8
OU12	12-12-96	<.002	<.003	<.003	<.002	<.004	<.003	103	108	96.2
OU13	11-21-96	<.002	<.003	<.003	<.002	<.004	<.003	90.8	85.2	110
OU14	12-19-96	<.002	<.003	<.003	<.002	<.004	<.003	96.1	86.3	86.2

Table 25. Concentrations of selected pesticides in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97--Continued

Local identifier	Date	Butylate	Simazine	Prometon	Deethyl atrazine	Cyanazine	p,p'-DDE	Lindane	Dieldrin	Metolachlor
OU15	11-13-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	.0079	<.002
OU16	11-06-97	<.002	.581	<.018	<.002	<.004	<.006	<.004	E.0017	<.002
OU17	11-19-97	<.002	.0072	.0446	E.005	<.004	<.006	<.004	<.001	<.002
OU18	11-19-97	<.002	<.005	E.0074	<.002	<.004	<.006	<.004	<.001	<.002
OU19	11-18-97	<.002	.0082	<.018	E.0033	<.004	<.006	<.004	<.001	<.002
OU20	11-18-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
UN01	09-09-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
UN02	12-22-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
UN03	11-05-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
UN04	10-22-96	<.002	<.005	<.018	<.002	<.004	E.0011	<.004	<.001	<.002
UN05	11-05-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
UN06	10-23-96	<.002	E.0031	<.018	E.0022	<.004	<.006	<.004	<.001	.004
UN07	12-22-96	<.002	<.005	<.018	E.0015	<.004	<.006	<.004	<.001	<.002
UN08	10-24-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
UN09	10-23-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
UN10	12-09-96	<.002	<.005	E.0075	<.002	<.004	<.006	<.004	<.001	<.002
UN11	12-19-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
UN12	12-09-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
UN13	12-22-96	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002

Table 25. Concentrations of selected pesticides in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-977--Continued

Local identifier	Date	Atrazine	Alachlor	Acetochlor	Metribuzin	Trifluralin	Terbacil	Linuron	EPTC	Tebuthiuron
OU15	11-13-97	E.0031	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU16	11-06-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU17	11-19-97	.0143	<.002	<.002	<.004	<.002	<.007	<.002	<.002	.0319
OU18	11-19-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU19	11-18-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
OU20	11-18-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
UN01	09-09-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
UN02	12-22-96	<.004	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
UN03	11-05-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
UN04	10-22-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
UN05	11-05-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
UN06	10-23-96	.008	<.002	<.002	<.004	.004	<.007	<.002	<.002	<.01
UN07	12-22-96	.004	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
UN08	10-24-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
UN09	10-23-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
UN10	12-09-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
UN11	12-19-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
UN12	12-09-96	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
UN13	12-22-96	<.004	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01

Table 25. Concentrations of selected pesticides in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-97--Continued

Local identifier	Date	Benfluralin	Carbofuran	Carbaryl	DCPA	Pendimethalin	Napropamide	Diazinon D10 (surrogate) (percent recovery)	Terbuthylazine (surrogate) (percent recovery)	HCH alpha (surrogate) (percent recovery)
OU15	11-13-97	<.002	<.003	<.003	<.002	<.004	<.003	105	119	85.5
OU16	11-06-97	<.002	<.003	<.003	<.002	<.004	<.003	92.7	103	96.2
OU17	11-19-97	<.002	<.003	<.003	<.002	<.004	<.003	107	108	107
OU18	11-19-97	<.002	<.003	<.003	<.002	<.004	<.003	108	106	105
OU19	11-18-97	<.002	<.003	<.003	<.002	<.004	<.003	93.1	104	98.1
OU20	11-18-97	<.002	<.003	<.003	<.002	<.004	<.003	100	100	98.1
UN01	09-09-96	<.002	<.003	<.003	<.002	<.004	<.003	80.3	89.9	92.6
UN02	12-22-96	<.002	<.003	<.003	<.002	<.004	<.003	161	164	148
UN03	11-05-96	<.002	<.003	<.003	<.002	<.004	<.003	90.5	102	102
UN04	10-22-96	<.002	<.003	<.003	<.002	<.004	<.003	78.1	86.5	103
UN05	11-05-96	<.002	<.003	<.003	<.002	<.004	<.003	83.7	97.4	95.5
UN06	10-23-96	<.002	<.003	<.003	<.002	<.004	<.003	71.1	86.7	80.6
UN07	12-22-96	<.002	<.003	<.003	<.002	<.004	<.003	163	170	150
UN08	10-24-96	<.002	<.003	<.003	<.002	<.004	<.003	81.0	92.8	95.6
UN09	10-23-96	<.002	<.003	<.003	<.002	<.004	<.003	63.4	84.6	83.6
UN10	12-09-96	<.002	<.003	<.003	<.002	<.004	<.003	80.1	80.1	66.7
UN11	12-19-96	<.002	<.003	<.003	<.002	<.004	<.003	99.2	107	86.1
UN12	12-09-96	<.002	<.003	<.003	<.002	<.004	<.003	80.5	86.1	65.6
UN13	12-22-96	<.002	<.003	<.003	<.002	<.004	<.003	91.6	93.9	90.5

Table 26. Concentrations of selected pesticides in samples collected from observation wells for the flow-path survey, Glassboro study area, N.J., 1997

[Data are included only for pesticides detected in one or more samples from one or more well networks. A complete listing of pesticides analyzed for in each sample is included in table 2. All concentrations are in micrograms per liter. E, estimated concentration; <, less than]

Local identifier	Date	Butylate	Simazine	Prometon,	Deethyl atrazine	Cyanazine	p,p'-DDE	Lindane	Dieldrin	Metolachlor
NU01-TEN	11-04-97	<0.002	<0.005	<0.018	<0.002	<0.004	<0.006	<0.004	<0.001	<0.002
NU02-TEN	11-04-97	<.002	E.0031	<.018	E.0034	<.004	<.006	<.004	E.0039	<.002
NU06-TEN	11-07-97	<.002	.164	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU09-TEN	11-14-97	<.002	.0225	<.018	E.0080	<.004	<.006	<.004	<.001	E.0023
NU10-TEN	11-17-97	<.002	.0225	<.018	<.002	<.004	<.006	<.004	.0073	<.002
NU11-TEN	10-31-97	<.002	.0051	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU13-TEN	11-07-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	E.0032	<.002
NU16-TEN	11-14-97	<.002	.184	E.0164	E.0035	<.004	<.006	<.004	<.001	E.0035
NU19-TEN	11-21-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU22-TEN	11-17-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU26-TEN	11-21-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU27-TEN	11-20-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU29-TEN	11-04-97	<.002	.0379	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NU30-TEN	11-06-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
OU01-TEN	11-05-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	.0102
OU02-TEN	11-10-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	1.93	<.002
OU04-TEN	11-05-97	<.002	E.0015	<.018	<.002	<.004	<.006	<.004	<.001	<.002
OU05-TEN	11-13-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
OU06-TEN	11-17-97	<.002	<.005	<.018	E.0054	<.004	<.006	<.004	.0116	<.002
OU07-TEN	11-10-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
OU08-TEN	11-20-97	<.002	.168	.0626	<.002	<.004	<.006	<.004	<.001	<.002
OU09-TEN	11-05-97	<.002	<.005	<.018	E.0014	<.004	<.006	<.004	<.001	.0043
OU10-TEN	11-10-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	3.16	<.002
OU14-TEN	11-20-97	<.002	.0392	<.018	<.002	<.004	<.006	<.004	<.001	<.002
OU15-TEN	11-13-97	<.002	<.005	<.018	E.0063	<.004	<.006	<.004	<.001	<.002
OU16-TEN	11-06-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	.0234	<.002
OU17-TEN	11-19-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
OU18-TEN	11-19-97	<.002	<.005	<.018	<.002	<.004	<.006	.0128	.0164	<.002
OU19-TEN	11-18-97	<.002	<.005	<.018	E.0032	<.004	<.006	<.004	<.001	E.0038
OU20-TEN	11-18-97	<.002	<.005	<.018	E.0033	<.004	<.006	<.004	<.001	<.002

Table 26. Concentrations of selected pesticides in samples collected from observation wells for the flow-path survey, Glassboro study area, N.J., 1997--Continued

Local identifier	Date	Atrazine	Alachlor	Acetochlor	Metribuzin	Trifluralin	Terbacil	Linuron	EPTC	Tebuthiuron
NU01-TEN	11-04-97	<0.001	<0.002	<0.002	<0.004	<0.002	E0.0814	<0.002	<0.002	<0.010
NU02-TEN	11-04-97	.0085	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
NU06-TEN	11-07-97	.0043	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
NU09-TEN	11-14-97	.0160	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
NU10-TEN	11-17-97	E.0039	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
NU11-TEN	10-31-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
NU13-TEN	11-07-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
NU16-TEN	11-14-97	.0046	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
NU19-TEN	11-21-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
NU22-TEN	11-17-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
NU26-TEN	11-21-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
NU27-TEN	11-20-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
NU29-TEN	11-04-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
NU30-TEN	11-06-97	E.0033	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
OU01-TEN	11-05-97	.0183	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
OU02-TEN	11-10-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
OU04-TEN	11-05-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
OU05-TEN	11-13-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
OU06-TEN	11-17-97	.0052	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
OU07-TEN	11-10-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
OU08-TEN	11-20-97	.0046	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
OU09-TEN	11-05-97	E.0027	<.002	<.002	<.004	<.002	<.007	<.002	<.002	.149
OU10-TEN	11-10-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
OU14-TEN	11-20-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
OU15-TEN	11-13-97	.0195	<.002	<.002	<.004	<.002	<.007	<.002	<.002	E.241
OU16-TEN	11-06-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
OU17-TEN	11-19-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
OU18-TEN	11-19-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
OU19-TEN	11-18-97	E.0034	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010
OU20-TEN	11-18-97	E.0040	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.010

Table 26. Concentrations of selected pesticides in samples collected from observation wells for the flow-path survey, Glassboro study area, N.J., 1997--Continued

Local identifier	Date	Benfluralin	Carbofuran	Carbaryl	DCPA	Pendimethalin	Napropamide	Diazinon D10 (surrogate) (percent recovery)	Terbuthylazine (surrogate) (percent recovery)	HCH alpha (surrogate) (percent recovery)
NU01-TEN	11-04-97	<.002	<.003	<.003	<.002	<.004	<.003	77.8	102	93.6
NU02-TEN	11-04-97	<.002	<.003	<.003	<.002	<.004	<.003	80.2	101	90.6
NU06-TEN	11-07-97	<.002	<.003	<.003	<.002	<.004	<.003	92.1	111	92.6
NU09-TEN	11-14-97	<.002	<.003	<.003	<.002	<.004	<.003	97.1	96.2	78.7
NU10-TEN	11-17-97	<.002	E.173	<.003	<.002	<.004	<.003	94.4	115	94.4
NU11-TEN	10-31-97	<.002	<.003	<.003	<.002	<.004	<.003	85.8	106	90.8
NU13-TEN	11-07-97	<.002	<.003	E.0251	<.002	<.004	<.003	92.3	112	95.3
NU16-TEN	11-14-97	<.002	<.003	<.003	<.002	<.004	<.003	94.0	92.0	76.9
NU19-TEN	11-21-97	<.002	<.003	<.003	<.002	<.004	<.003	91.2	116	100
NU22-TEN	11-17-97	<.002	<.003	<.003	<.002	<.004	<.003	92.8	108	93.7
NU26-TEN	11-21-97	<.002	<.003	<.003	<.002	<.004	<.003	80.6	105	92.7
NU27-TEN	11-20-97	<.002	<.003	<.003	<.002	<.004	<.003	111	106	107
NU29-TEN	11-04-97	<.002	<.003	<.003	<.002	<.004	<.003	75.5	95.3	89.0
NU30-TEN	11-06-97	<.002	<.003	<.003	<.002	<.004	<.003	111	120	102
OU01-TEN	11-05-97	<.002	<.003	<.003	<.002	<.004	<.003	107	99.1	79.8
OU02-TEN	11-10-97	<.002	<.003	<.003	<.002	<.004	<.003	91.2	98.1	75.1
OU04-TEN	11-05-97	<.002	<.003	<.003	<.002	<.004	<.003	86.0	94.3	72.6
OU05-TEN	11-13-97	<.002	<.003	<.003	<.002	<.004	<.003	97.2	104	73.8
OU06-TEN	11-17-97	<.002	<.003	<.003	<.002	<.004	<.003	104	106	95.4
OU07-TEN	11-10-97	<.002	<.003	<.003	<.002	<.004	<.003	90.9	92.5	81.3
OU08-TEN	11-20-97	<.002	<.003	<.003	<.002	<.004	<.003	110	103	98.1
OU09-TEN	11-05-97	<.002	<.003	<.003	<.002	<.004	<.003	89.9	97.1	74.3
OU10-TEN	11-10-97	<.002	<.003	<.003	<.002	<.004	<.003	84.6	88.9	77.2
OU14-TEN	11-20-97	<.002	<.003	<.003	<.002	<.004	<.003	98.1	95.3	94.3
OU15-TEN	11-13-97	<.002	<.003	<.003	<.002	<.004	<.003	103	114	87.6
OU16-TEN	11-06-97	<.002	<.003	<.003	<.002	<.004	<.003	93.0	106	99.0
OU17-TEN	11-19-97	<.002	<.003	E.0241	<.002	<.004	<.003	109	107	105
OU18-TEN	11-19-97	<.002	<.003	E.781	<.002	<.004	<.003	131	125	122
OU19-TEN	11-18-97	<.002	<.003	<.003	<.002	<.004	<.003	99.1	110	99.1
OU20-TEN	11-18-97	<.002	<.003	<.003	<.002	<.004	<.003	117	125	110

Table 27. Concentrations of selected pesticides in samples collected from public-supply wells, Glassboro study area, N.J., 1998

[Data are included only for pesticides detected in one or more samples from one or more well networks. A complete listing of pesticides analyzed for in each sample is included in table 2. All concentrations are in micrograms per liter; <, less than; E, estimated concentration]

Local identifier	Date	Butylate	Simazine	Prometon	Deethyl atrazine	Cyanazine	p,p'-DDE	Lindane	Dieldrin	Metolachlor
PS01	03-09-98	<0.002	0.0145	<0.018	E0.0015	<0.004	<0.006	<0.004	<0.001	<0.002
PS02	02-03-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PS03	02-03-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PS04	02-18-98	<.002	<.005	<.018	<.002	<.004	E.00051	<.004	E.0016	<.002
PS05	02-18-98	<.002	<.005	<.018	<.002	<.004	E.00063	<.004	<.001	<.002
PS06	02-18-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PS07	03-03-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	E.0026
PS08	03-03-98	<.002	<.005	<.018	E.0074	<.004	<.006	<.004	<.001	<.002
PS09	03-04-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PS10	03-04-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PS11	03-05-98	<.002	<.005	E.0055	E.0156	.0087	<.006	<.004	<.001	.671
PS12	03-09-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	.0065	<.002
PS13	03-05-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PS14	02-27-98	<.002	.0064	<.018	E.0234	<.004	<.006	<.004	.0081	.0057
PS15	02-27-98	<.002	<.005	E.0065	E.0037	<.004	<.006	<.004	<.001	.0315
PS16	02-26-98	<.002	<.005	<.018	E.0104	<.004	<.006	<.004	<.001	E.0038
PS17	02-26-98	<.002	.220	<.018	E.0135	<.004	<.006	<.004	E.0033	.170
PS18	03-11-98	<.002	.0103	<.018	E.0025	<.004	<.006	<.004	<.001	E.0031
PS19	03-11-98	<.002	.0112	<.018	E.0063	<.004	<.006	<.004	<.001	.0125
PS20	03-09-98	<.002	.0669	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PS21	11-30-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	.0460	<.002
PS22	11-30-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	.0343	<.002
PS23	11-30-98	<.002	.0085	<.018	E.0041	<.004	<.006	<.004	<.001	.0064
PS24	12-10-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PS25	12-10-98	<.002	<.005	E.0084	<.002	<.004	<.006	<.004	.0379	<.002
PS26	12-09-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PS27	12-10-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	.0866
PS28	11-20-98	<.002	.0162	<.018	E.0020	<.004	<.006	<.004	.0045	<.002
PS29	11-20-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PS30	12-09-98	<.002	<.005	<.018	E.0021	<.004	<.006	<.004	<.001	.0085

Table 27. Concentrations of selected pesticides in samples collected from public-supply wells, Glassboro study area, N.J., 1998--Continued

Local identifer	Date	Atrazine	Alachlor	Acetochlor	Metribuzin	Trifluralin	Terbacil	Linuron	EPTC	Tebuthiuron
PS01	03-09-98	E0.0014	0.0186	<0.002	<0.004	<0.002	<0.007	<0.002	<0.002	<0.01
PS02	02-03-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS03	02-03-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS04	02-18-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS05	02-18-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS06	02-18-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS07	03-03-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS08	03-03-98	.0229	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS09	03-04-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS10	03-04-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS11	03-05-98	.0341	E.0039	.0604	<.004	<.002	<.007	<.002	<.002	<.01
PS12	03-09-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS13	03-05-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS14	02-27-98	.0136	.0057	<.002	<.004	<.002	E.0704	<.002	<.002	<.01
PS15	02-27-98	.0047	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS16	02-26-98	<.001	<.002	<.002	<.004	<.002	E.0849	<.002	<.002	<.01
PS17	02-26-98	.0174	<.002	<.002	.0080	<.002	E.0978	<.002	<.002	<.01
PS18	03-11-98	<.001	.0109	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS19	03-11-98	E.0029	<.002	<.002	<.004	<.002	<.007	.0123	<.002	<.01
PS20	03-09-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS21	11-30-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS22	11-30-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS23	11-30-98	.0165	.0348	<.002	<.004	<.002	E.0405	<.002	<.002	<.01
PS24	12-10-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS25	12-10-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS26	12-09-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS27	12-10-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS28	11-20-98	.0173	E.0033	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS29	11-20-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PS30	12-09-98	<.001	.0671	<.002	.0055	<.002	<.007	<.002	<.002	<.01

Table 27. Concentrations of selected pesticides in samples collected from public-supply wells, Glassboro study area, N.J., 1998--Continued

Local identifier	Date	Benfluralin	Carbofuran	Carbaryl	DCPA	Pendimethalin	Napropamide	Diazinon D10 (surrogate) (percent recovery)	Terbuthylazine (surrogate) (percent recovery)	HCH alpha (surrogate) (percent recovery)
PS01	03-09-98	<0.002	<0.003	<0.003	<0.002	<0.004	<0.003	95.2	98.1	93.8
PS02	02-03-98	<.002	<.003	<.003	<.002	<.004	<.003	101	111	105
PS03	02-03-98	<.002	<.003	<.003	<.002	<.004	<.003	103	109	109
PS04	02-18-98	<.002	<.003	<.003	<.002	<.004	<.003	94.3	100	100
PS05	02-18-98	<.002	<.003	<.003	<.002	<.004	<.003	96.2	94.2	95.9
PS06	02-18-98	<.002	<.003	E.0190	<.002	<.004	<.003	86.9	91.3	91.5
PS07	03-03-98	<.002	<.003	<.003	<.002	<.004	<.003	97.2	98.1	94.4
PS08	03-03-98	<.002	<.003	<.003	<.002	<.004	<.003	101	102	101
PS09	03-04-98	<.002	<.003	<.003	<.002	<.004	<.003	96.2	98.1	95.2
PS10	03-04-98	<.002	<.003	<.003	<.002	<.004	<.003	100	104	96.2
PS11	03-05-98	<.002	<.003	<.003	<.002	<.004	<.003	108	112	93.8
PS12	03-09-98	<.002	<.003	<.003	<.002	<.004	<.003	84.8	98.1	99.0
PS13	03-05-98	<.002	<.003	<.003	<.002	<.004	<.003	93.4	92.5	90.0
PS14	02-27-98	<.002	<.003	<.003	<.002	<.004	<.003	94.4	102	98.1
PS15	02-27-98	<.002	<.003	<.003	<.002	<.004	<.003	94.4	98.1	97.2
PS16	02-26-98	<.002	<.008	<.003	<.002	<.004	<.003	100	107	94.3
PS17	02-26-98	<.002	<.003	<.003	<.002	<.004	<.003	92.0	102	94.2
PS18	03-11-98	<.002	E.0128	<.003	<.002	<.004	<.003	92.6	89.8	85.9
PS19	03-11-98	<.002	<.003	<.003	<.002	<.004	<.003	99.1	101	100
PS20	03-09-98	<.002	<.003	<.003	<.002	<.004	<.003	95.3	101	97.2
PS21	11-30-98	<.002	<.003	<.003	<.002	<.004	<.003	142	117	119
PS22	11-30-98	<.002	<.003	<.003	<.002	<.004	<.003	127	116	109
PS23	11-30-98	<.002	<.003	<.003	<.002	<.004	<.003	126	109	110
PS24	12-10-98	<.002	<.003	<.003	<.002	<.004	<.003	101	102	85.4
PS25	12-10-98	<.002	<.003	<.003	<.002	<.004	<.003	94.6	91.9	80.8
PS26	12-09-98	<.002	<.003	<.003	<.002	<.004	<.003	100	97.1	82.8
PS27	12-10-98	<.002	<.003	<.003	<.002	<.004	<.003	111	103	98.3
PS28	11-20-98	<.002	<.003	<.003	<.002	<.004	<.003	98.4	98.1	93.7
PS29	11-20-98	<.002	E.0067	<.003	<.002	<.004	<.003	95.9	98.2	89.5
PS30	12-09-98	<.002	E.0773	<.003	<.002	<.004	<.003	93.3	87.1	75.4

Table 28. Concentrations of selected pesticides in samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998

[Data included are only for pesticides detected in one or more samples from one or more well networks. A complete listing of pesticides analyzed for in each sample is included in table 2. All concentrations are in micrograms per liter; <, less than; E, estimated concentrations]

Local identifier	Date	Butylate	Simazine	Prometon	Deethyl atrazine	Cyanazine	p,p'-DDE	Lindane	Dieldrin	Metolachlor
CP01	07-15-98	<0.002	0.0180	<0.018	<0.002	<0.004	<0.006	<0.004	<0.001	<0.002
CP02	07-14-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP03	07-16-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP04	07-15-98	<.002	.0510	.0250	<.002	<.004	E.0056	<.004	<.001	<.002
CP05	07-22-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP06	09-02-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP07	07-20-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP08	07-22-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP09	07-28-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP10	07-21-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP11	07-27-98	<.002	<.005	<.018	E.0801	<.004	<.006	<.004	<.001	<.002
CP12	07-28-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP13	07-29-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP14	08-03-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP15	08-25-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP16	09-03-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP17	08-27-98	<.002	<.005	<.018	E.0073	<.004	<.006	<.004	<.001	<.002
CP18	08-25-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP19	09-02-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP20	09-03-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP21	09-09-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP22	09-10-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP23	09-09-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP24	09-16-98	<.002	.0523	E.0126	<.002	<.004	<.006	<.004	<.001	.102
CP25	09-23-98	<.002	.265	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP26	09-23-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP27	09-22-98	<.002	<.005	.0199	E.0042	<.004	<.006	<.004	<.001	<.002
CP28	10-14-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP29	11-04-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
CP30	11-12-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002

Table 28. Concentrations of selected pesticides in samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998--Continued

Local identifier	Date	Atrazine	Alachlor	Acetochlor	Metribuzin	Fluralin	Tribacil	Teruron	Lineptc	Tebuthiuron
CP01	07-15-98	<0.001	<0.002	<0.002	<0.004	<0.002	<0.007	<0.002	<0.002	<0.01
CP02	07-14-98	<.001	<.002	<.002	<.004	<.002	E.0079	<.002	<.002	<.01
CP03	07-16-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP04	07-15-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP05	07-22-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP06	09-02-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP07	07-20-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP08	07-22-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP09	07-28-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP10	07-21-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP11	07-27-98	.0793	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP12	07-28-98	<.001	<.002	<.002	<.004	<.002	E.891	<.002	.182	<.01
CP13	07-29-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP14	08-03-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP15	08-25-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP16	09-03-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP17	08-27-98	<.001	<.002	<.002	<.004	<.002	E.0140	<.002	<.002	<.01
CP18	08-25-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP19	09-02-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP20	09-03-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP21	09-09-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP22	09-10-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP23	09-09-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP24	09-16-98	E.0028	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP25	09-23-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP26	09-23-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP27	09-22-98	.0073	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP28	10-14-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP29	11-04-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
CP30	11-12-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01

Table 28. Concentrations of selected pesticides in samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998--Continued

Local identifier	Date	Benfluralin	Carbofuran	Carbaryl	DCPA	Pendimethalin	Napropamide	Diazinon D10 (surrogate) (percent recovery)	Terbuthylazine (surrogate) (percent recovery)	HCH alpha (surrogate) (percent recovery)
CP01	07-15-98	<0.002	<0.003	<0.003	<0.002	<0.004	<0.003	92.2	103	99.7
CP02	07-14-98	<.002	E.218	<.003	<.002	<.004	<.003	104	125	96.0
CP03	07-16-98	<.002	<.003	<.003	<.002	<.004	<.003	112	126	100
CP04	07-15-98	<.002	<.003	<.003	<.002	<.004	<.003	86.2	95.2	82.5
CP05	07-22-98	<.002	<.003	<.003	<.002	<.004	<.003	99.6	111	99.4
CP06	09-02-98	<.002	<.003	<.003	<.002	<.004	<.003	98.2	91.9	83.4
CP07	07-20-98	<.002	<.003	<.003	<.002	<.004	<.003	--	--	--
CP08	07-22-98	<.002	<.003	<.003	<.002	<.004	<.003	90.8	107	90.7
CP09	07-28-98	<.002	<.003	<.003	<.002	<.004	<.003	84.2	109	91.7
CP10	07-21-98	<.002	<.003	<.003	<.002	<.004	<.003	89.2	112	102
CP11	07-27-98	<.002	<.003	<.003	<.002	<.004	<.003	93.7	110	105
CP12	07-28-98	<.002	E.0525	E.539	<.002	<.004	<.003	101	99.2	98.5
CP13	07-29-98	<.002	<.003	<.003	<.002	<.004	<.003	77.3	102	94.3
CP14	08-03-98	<.002	<.003	<.003	<.002	<.004	<.003	93.5	108	94.9
CP15	08-25-98	<.002	<.003	<.003	<.002	<.004	<.003	90.3	110	87.1
CP16	09-03-98	<.002	<.003	<.003	<.002	<.004	<.003	106	98.3	88.6
CP17	08-27-98	<.002	<.003	<.003	<.002	<.004	<.003	103	102	91.8
CP18	08-25-98	<.002	<.003	<.003	<.002	<.004	<.003	89.7	110	96.6
CP19	09-02-98	<.002	<.003	<.003	<.002	<.004	<.003	105	85.3	81.1
CP20	09-03-98	<.002	<.003	<.003	<.002	<.004	<.003	101	97.0	99.9
CP21	09-09-98	<.002	<.003	<.003	<.002	<.004	<.003	95.6	106	94.0
CP22	09-10-98	<.002	<.003	<.003	<.002	<.004	<.003	101	104	98.2
CP23	09-09-98	<.002	<.003	<.029	<.002	<.004	<.003	104	107	96.0
CP24	09-16-98	<.002	<.003	<.003	<.002	<.004	.0050	54.2	56.5	64.2
CP25	09-23-98	<.002	<.003	<.003	<.002	<.004	<.003	94.6	97.3	92.1
CP26	09-23-98	<.002	<.003	<.003	<.002	<.004	<.003	91.6	103	87.4
CP27	09-22-98	<.002	<.003	E.0445	<.002	<.004	<.003	104	105	95.7
CP28	10-14-98	<.002	<.003	<.003	<.002	<.004	<.003	94.1	103	84.6
CP29	11-04-98	<.002	<.003	<.003	E.0015	<.004	<.003	93.3	102	82.9
CP30	11-12-98	<.002	<.003	<.003	<.002	<.004	<.003	107	102	95.0

Table 29. Concentrations of selected pesticides in samples collected from domestic wells in the Piedmont Physiographic Province, N.J., 1998

[Data are included only for pesticides detected in one or more samples from one or more well networks. A complete listing of pesticides analyzed for in each sample is included in table 2. All concentrations are in micrograms per liter except as noted; <, less than; E, estimated concentration; --, no data]

Local identifier	Date	Butylate	Simazine	Prometon	Deethyl atrazine	Cyanazine	p,p'-DDE	Lindane	Dieldrin	Metolachlor
PD01	07-13-98	--	--	--	--	--	--	--	--	--
PD02	07-15-98	<0.002	<0.005	<0.018	E0.0274	<0.004	<0.006	<0.004	<0.001	<0.002
PD03	07-30-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PD04	07-10-98	<.002	E.0047	E.0036	E.0023	<.004	E.0024	<.004	<.001	<.002
PD05	07-17-98	<.002	<.005	<.018	E.0120	<.004	<.006	<.004	<.001	<.002
PD06	07-17-98	<.002	.0070	E.0168	E.0059	<.004	<.006	<.004	.0189	<.002
PD07	07-28-98	<.002	<.005	<.018	E.0032	<.004	<.006	<.004	<.001	<.002
PD08	07-08-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PD09	07-29-98	<.002	<.005	<.018	E.0092	<.004	<.006	<.004	<.001	<.002
PD10	07-09-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PD11	07-16-98	<.002	<.005	<.018	E.0021	<.004	<.006	<.004	<.001	<.002
PD12	07-10-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PD13	07-23-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PD14	07-09-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PD15	07-28-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PD16	07-15-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PD17	07-29-98	<.002	<.005	<.018	E.0452	<.004	<.006	<.004	<.001	<.002
PD18	07-14-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	.0251	<.002
PD19	07-16-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PD20	08-17-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PD21	08-21-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
PD22	08-14-98	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002

Table 29. Concentrations of selected pesticides in samples collected from domestic wells in the Piedmont Physiographic Province, N.J., 1998--Continued

Local identifier	Date	Atrazine	Alachlor	Acetochlor	Metribuzin	Trifluralin	Terbacil	Linuron	EPTC	Tebuthiuron
PD01	07-13-98	--	--	--	--	--	--	--	--	--
PD02	07-15-98	E.0040	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD03	07-30-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD04	07-10-98	<.001	<.002	<.002	<.004	.0066	<.007	<.002	<.002	<.01
PD05	07-17-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD06	07-17-98	.0067	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD07	07-28-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD08	07-08-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD09	07-29-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD10	07-09-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD11	07-16-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD12	07-10-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD13	07-23-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD14	07-09-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD15	07-28-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD16	07-15-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD17	07-29-98	.0169	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD18	07-14-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD19	07-16-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD20	08-17-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD21	08-21-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
PD22	08-14-98	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01

Table 29.Concentrations of selected pesticides in samples collected from domestic wells in the Piedmont Physiographic Province, N.J., 1998--Continued

Local identifier	Date	Benfluralin	Carbofuran	Carbaryl	DCPA	Pendimethalin	Napropamide	Diazinon D10 (surrogate) (percent recovery)	Terbuthylzaine (surrogate) (percent recovery)	HCH alpha (surrogate) (percent recovery)
PD01	07-13-98	--	--	--	--	--	--	--	--	--
PD02	07-15-98	<.002	<.003	<.003	<.002	<.004	<.003	102	124	107
PD03	07-30-98	<.002	<.003	<.003	<.002	<.004	<.003	94.3	110	97.8
PD04	07-10-98	.0057	<.003	<.003	<.002	<.004	<.003	106	111	101
PD05	07-17-98	<.002	<.003	<.003	<.002	<.004	<.003	115	123	100
PD06	07-17-98	<.002	<.003	<.003	<.002	<.004	<.003	96.1	102	86.7
PD07	07-28-98	<.002	<.003	<.003	<.002	<.004	<.003	86.0	108	92.7
PD08	07-08-98	<.002	<.003	<.003	<.002	<.004	<.003	107	114	98.2
PD09	07-29-98	<.002	<.003	<.003	<.002	<.004	<.003	86.5	108	101
PD10	07-09-98	<.002	<.003	<.003	<.002	<.004	<.003	99.6	103	83.3
PD11	07-16-98	<.002	<.003	<.003	<.002	<.004	<.003	92.8	105	89.3
PD12	07-10-98	<.002	<.003	<.003	<.002	<.004	<.003	111	109	106
PD13	07-23-98	<.002	<.003	<.003	<.002	<.004	<.003	93.2	117	106
PD14	07-09-98	<.002	<.003	<.003	<.002	<.004	<.003	101	111	84.3
PD15	07-28-98	<.002	<.003	<.003	<.002	<.004	<.003	81.4	107	89.6
PD16	07-15-98	<.002	<.003	<.003	<.002	<.004	<.003	133	151	125
PD17	07-29-98	<.002	<.003	<.003	<.002	<.004	<.003	92.8	105	93.9
PD18	07-14-98	<.002	<.003	<.003	<.002	<.004	<.003	86.8	115	99.6
PD19	07-16-98	<.002	<.003	<.003	<.002	<.004	<.003	96.9	104	89.3
PD20	08-17-98	<.002	<.003	<.003	<.002	<.004	<.003	86.5	91.2	92.3
PD21	08-21-98	<.002	<.003	<.003	<.002	<.004	<.003	88.2	100	96.6
PD22	08-14-98	<.002	<.003	<.003	<.002	<.004	<.003	90.1	98.2	89.4

Table 30. Concentrations of selected pesticides in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997

[Data are included only for pesticides detected in one or more samples from one or more well networks. A complete listing of pesticides analyzed for in each sample is included in table 2. All concentrations are in micrograms per liter except as noted; <, less than; E, estimated concentrations; --, no data; *, wells are located in New York State]

Local identifier	Date	Butylate	Simazine	Prometon	Deethyl atrazine	Cyanazine	p,p'-DDE	Lindane	Dieldrin	Metolachlor
NE01	09-17-97	<0.002	<0.005	<0.018	<0.002	<0.004	<0.006	<0.004	<0.001	<0.002
NE02	11-02-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NE03	08-26-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NE04	08-27-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NE05	09-16-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NE06	09-16-97	<.002	E.0032	E.0100	<.002	<.004	<.006	<.004	<.001	<.002
NE07	09-22-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NE08	09-02-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NE09	10-15-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NE10	08-26-97	<.002	<.005	<.018	E.0017	<.004	<.006	<.004	E.0021	<.002
NE11	10-19-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NE12	10-20-97	<.002	<.005	<.018	E.0028	<.004	<.006	<.004	<.001	<.002
NE13	09-23-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NE14	10-19-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NE15	09-04-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NE16	10-14-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NE17	09-03-97	<.002	<.005	<.018	E.0030	<.004	<.006	<.004	<.001	<.002
NE18	09-24-97	<.002	<.005	<.018	E.0026	<.004	<.006	<.004	<.001	<.002
NE19	10-29-97	<.002	<.005	<.018	E.0077	<.004	<.006	<.004	<.001	<.002
NE20	11-12-97	<.002	<.005	<.018	E.0106	<.004	E.0013	<.004	<.001	<.002
NE21	10-21-97	<.002	<.005	<.018	<.008	<.004	<.006	<.004	<.001	<.002
NE22	10-21-97	<.002	<.005	<.018	E.0143	<.004	<.006	<.004	<.001	E.0598
NE23	09-15-97	<.002	<.005	<.018	E.0033	<.004	<.006	<.004	<.001	.0044
NE24	08-28-97	<.002	<.005	<.018	E.0015	<.004	<.006	<.004	<.001	<.002
NE25	10-21-97	<.002	<.005	<.018	<.005	<.004	<.006	<.004	<.001	<.002
NE26	11-09-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NE27	11-09-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NE28*	12-09-97	<.002	<.005	E.0166	<.002	<.004	<.006	<.004	<.001	<.002
NE29*	12-09-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002
NE30*	12-10-97	<.002	<.005	<.018	<.002	<.004	<.006	<.004	<.001	<.002

Table 30. Concentrations of selected pesticides in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997--Continued

Local identifier	Date	Atrazine	Alachlor	Acetochlor	Metribuzin	Trifluralin	Terbacil	Linuron	EPTC	Tebuthiuron
NE01	09-17-97	<0.001	<0.002	<0.002	<0.004	<0.002	<0.007	<0.002	<0.002	<0.01
NE02	11-02-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE03	08-26-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE04	08-27-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE05	09-16-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE06	09-16-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE07	09-22-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE08	09-02-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE09	10-15-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE10	08-26-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE11	10-19-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE12	10-20-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE13	09-23-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE14	10-19-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE15	09-04-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE16	10-14-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE17	09-03-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE18	09-24-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE19	10-29-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE20	11-12-97	E.00079	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE21	10-21-97	<.004	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE22	10-21-97	<.005	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE23	09-15-97	E.0040	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE24	08-28-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE25	10-21-97	<.004	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE26	11-09-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE27	11-09-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE28	12-09-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE29	12-09-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01
NE30	12-10-97	<.001	<.002	<.002	<.004	<.002	<.007	<.002	<.002	<.01

Table 30. Concentrations of selected pesticides in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997--Continued

Local identifier	Date	Benfluralin	Carbofuran	Carbaryl	DCPA	Pendimethalin	Napropamide	Diazinon D10 (surrogate) (percent recovery)	Terbuthylazine (surrogate) (percent recovery)	HCH alpha (surrogate) (percent recovery)
NE01	09-17-97	<0.002	<0.003	<0.003	<0.002	<0.004	<0.003	105	124	114
NE02	11-02-97	<.002	<.003	<.003	<.002	<.004	<.003	71.1	92.3	84.0
NE03	08-26-97	<.002	<.003	<.003	<.002	<.004	<.003	92.8	110	90.1
NE04	08-27-97	<.002	<.003	<.003	<.002	<.004	<.003	109	122	95.4
NE05	09-16-97	<.002	<.003	<.003	<.002	<.004	<.003	84.1	115	93.0
NE06	09-16-97	<.002	<.003	<.003	<.002	<.004	<.003	86.0	107	101
NE07	09-22-97	<.002	<.003	<.003	<.002	<.004	<.003	91.1	125	99.1
NE08	09-02-97	<.002	<.003	<.003	<.002	<.004	<.003	91.0	117	101
NE09	10-15-97	<.002	<.003	<.003	<.002	<.004	<.003	102	117	102
NE10	08-26-97	<.002	<.003	<.003	<.002	<.004	<.003	119	123	94.7
NE11	10-19-97	<.002	<.003	<.003	<.002	<.004	<.003	96.3	130	103
NE12	10-20-97	<.002	<.003	<.003	<.002	<.004	<.003	93.5	128	95.2
NE13	09-23-97	<.002	<.003	<.003	<.002	<.004	<.003	97.3	117	91.7
NE14	10-19-97	<.002	<.003	<.003	<.002	<.004	<.003	99.1	134	100
NE15	09-04-97	<.002	<.003	<.003	<.002	<.004	<.003	95.5	121	98.2
NE16	10-14-97	<.002	<.003	<.003	<.002	<.004	<.003	99.1	116	98.2
NE17	09-03-97	<.002	<.003	<.003	<.002	<.004	<.003	89.3	117	93.8
NE18	09-24-97	<.002	<.003	<.003	<.002	<.004	<.003	85.1	106	95.6
NE19	10-29-97	<.002	<.003	<.003	<.002	<.004	<.003	94.7	113	92.9
NE20	11-12-97	<.002	<.003	<.003	<.002	<.004	<.003	94.6	102	73.0
NE21	10-21-97	<.002	<.003	<.008	<.002	<.004	<.003	87.6	129	103
NE22	10-21-97	<.002	<.003	<.007	<.002	<.004	<.003	102	124	90.9
NE23	09-15-97	<.002	<.003	<.003	<.002	<.004	<.003	104	112	105
NE24	08-28-97	<.002	<.003	<.003	<.002	<.004	<.003	93.3	101	81.7
NE25	10-21-97	<.002	<.003	<.007	<.002	<.004	<.003	111	134	108
NE26	11-09-97	<.002	<.003	<.003	<.002	<.004	<.003	85.3	104	92.6
NE27	11-09-97	<.002	<.003	<.003	<.002	<.004	<.003	82.6	104	96.2
NE28	12-09-97	<.002	<.003	<.003	<.002	<.004	<.003	118	125	97.2
NE29	12-09-97	<.002	<.003	<.003	<.002	<.004	<.003	117	125	94.6
NE30	12-10-97	<.002	<.003	<.003	<.002	<.004	<.003	.00	114	96.4

Table 31. Concentrations of selected pesticides in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996

[Data are included only for pesticides detected in one or more samples from one or more well networks. A complete listing of pesticides analyzed for in each sample is included in table 3; <, less than; E, estimated concentration; --, no data; all concentrations are in micrograms per liter]

Local identifier	Date	Dicamba	Bentazon	Fluometuron	2,4-D	Silvex	Picloram	Norflurazon	Methomyl
AG01	09-04-96	<0.035	<0.014	<0.035	<0.035	<0.021	<0.050	<0.024	<0.017
AG02	09-05-96	<.035	<.014	<.035	<.035	<.021	<.050	.530	<.017
AG03	09-03-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
AG04	09-05-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	E.040
AG05	09-03-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
AG06	09-04-96	<.040	E.030	<.035	<.035	<.021	<.050	<.024	<.017
AG07	10-28-96	E.450	<.014	<.035	<.035	<.021	<.050	<.024	<.017
AG08	10-30-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
	08-11-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
AG09	10-16-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
AG10	10-16-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
AG11	10-16-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
AG12	10-30-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
AG13	12-20-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
AG14	12-20-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
AG15	10-30-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU01	09-10-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU02	09-10-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU03	09-11-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU04	09-12-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU05	11-04-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU06	09-30-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU07	09-30-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU08	09-18-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU09	10-02-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU10	09-19-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU11	10-01-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU12	09-18-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU13	10-01-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU14	11-19-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU15	10-15-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU16	11-25-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU17	10-15-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU18	10-15-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU19	11-25-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017

Table 31. Concentrations of selected pesticides in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996--Continued

Local identifier	Date	Fenuron	Diuron	Dinoseb	Carbofuran	Carbaryl	Aldicarb sulfoxide	BDMC
AG01	09-04-96	<0.013	<0.02	<0.035	<0.028	<0.008	<0.021	89
AG02	09-05-96	<.013	E.03	<.035	<.028	<.008	<.021	105
AG03	09-03-96	<.013	<.02	<.035	<.028	<.008	<.021	82
AG04	09-05-96	<.013	<.02	<.035	<.028	<.008	<.021	95
AG05	09-03-96	<.013	<.02	<.035	<.028	<.008	<.021	87
AG06	09-04-96	<.013	.06	.080	E.020	<.008	<.021	84
AG07	10-28-96	<.013	<.02	<.035	<.028	<.008	<.021	71
AG08	10-30-96	<.013	<.02	E40.0	<.028	<.008	<.021	83
	08-11-98	<.013	<.02	.19	<.12	<.008	<.021	91
AG09	10-16-96	<.013	<.02	<.035	<.028	<.008	<.021	82
AG10	10-16-96	<.013	<.02	<.035	<.028	<.008	<.021	93
AG11	10-16-96	<.013	<.02	<.035	<.028	<.008	<.021	87
AG12	10-30-96	<.013	<.02	<.035	<.028	<.008	<.021	78
AG13	12-20-96	<.013	<.02	<.035	<.028	<.008	<.021	68
AG14	12-20-96	<.013	<.02	E8.00	<.028	<.008	<.021	68
AG15	10-30-96	<.013	<.02	<.035	<.028	<.008	<.021	7
NU01	09-10-96	<.013	<.02	<.035	<.028	<.008	<.021	84
NU02	09-10-96	<.013	<.02	<.035	<.028	<.008	<.021	79
NU03	09-11-96	<.013	<.02	<.035	<.028	<.008	<.021	92
NU04	09-12-96	<.013	<.02	<.035	<.028	<.008	<.021	86
NU05	11-04-96	<.013	<.02	<.035	<.028	<.008	<.021	79
NU06	09-30-96	<.013	<.02	<.035	<.028	<.008	<.021	88
NU07	09-30-96	<.013	<.02	<.035	<.028	<.008	<.021	91
NU08	09-18-96	<.013	<.02	<.035	<.028	<.008	<.021	67
NU09	10-02-96	<.013	<.02	<.035	<.028	<.008	<.021	90
NU10	09-19-96	<.013	<.02	<.035	<.028	<.008	<.021	87
NU11	10-01-96	<.013	<.02	<.035	<.028	<.008	<.021	96
NU12	09-18-96	<.013	<.02	<.035	<.028	<.008	<.021	88
NU13	10-01-96	<.013	<.02	<.035	<.028	<.008	<.021	89
NU14	11-19-96	<.013	<.02	<.035	<.028	<.008	<.021	85
NU15	10-15-96	<.013	<.02	<.035	<.028	<.008	<.021	101
NU16	11-25-96	<.013	<.02	<.035	<.028	<.008	<.021	81
NU17	10-15-96	<.013	<.02	<.035	<.028	<.008	<.021	86
NU18	10-15-96	<.013	<.02	<.035	<.028	E.001	<.021	86
NU19	11-25-96	<.013	<.02	<.035	<.028	<.008	<.021	85

Table 31. Concentrations of selected pesticides in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996--Continued

Local identifier	Date	Dicamba	Bentazon	Fluometuron	2,4-D	Silvex	Picloram	Norflurazon	Methomyl
NU20	10-28-96	<0.035	<0.014	<0.035	<0.035	<0.021	<0.050	<0.024	<0.017
NU21	11-19-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU22	12-17-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU23	11-04-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU24	12-15-96	<.035	.200	<.035	<.035	<.021	<.050	<.024	<.017
NU25	12-10-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU26	12-16-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU27	12-16-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU28	12-17-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU29	12-10-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
NU30	12-15-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
OU01	10-21-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
OU02	12-18-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
OU03	10-22-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
OU04	10-22-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
OU05	10-23-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
OU06	12-16-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
OU07	12-18-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
OU08	11-20-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
OU09	11-21-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
OU10	12-18-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
OU11	11-20-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
OU12	12-12-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
OU13	11-21-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
OU14	12-19-96	<.035	<.014	.040	<.035	<.021	<.050	<.024	<.017
UN01	09-09-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
UN02	12-22-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
UN03	11-05-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
UN04	10-22-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
UN05	11-05-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
UN06	10-23-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
UN07	12-22-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
UN08	10-24-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
UN09	10-23-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
UN10	12-09-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
UN11	12-19-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
UN12	12-09-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017
UN13	12-22-96	<.035	<.014	<.035	<.035	<.021	<.050	<.024	<.017

Table 31. Concentrations of selected pesticides in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996--Continued

Local identifier	Date	Fenuron	Diuron	Dinoseb	Carbofuran	Carbaryl	Aldicarb sulfoxide	BDMC
NU20	10-28-96	<0.013	<0.02	<0.035	<0.028	<0.008	<0.021	62
NU21	11-19-96	<.013	<.02	<.035	<.028	<.008	<.021	94
NU22	12-17-96	<.013	<.02	<.035	<.028	<.008	<.021	77
NU23	11-04-96	<.013	<.02	<.035	<.028	<.008	<.021	87
NU24	12-15-96	<.013	<.02	<.035	<.028	<.008	<.021	77
NU25	12-10-96	<.013	<.02	<.035	<.028	<.008	<.021	74
NU26	12-16-96	<.013	<.02	<.035	<.028	<.008	<.021	79
NU27	12-16-96	<.013	<.02	<.035	<.028	<.008	<.021	73
NU28	12-17-96	<.013	<.02	<.035	<.028	<.008	<.021	77
NU29	12-10-96	<.013	<.02	<.035	<.028	<.008	<.021	81
NU30	12-15-96	<.013	<.02	<.035	<.028	<.008	<.021	72
OU01	10-21-96	<.013	.08	<.035	<.028	<.008	<.021	E84
OU02	12-18-96	<.013	<.02	<.035	<.028	<.008	<.021	69
OU03	10-22-96	<.013	<.02	<.035	<.028	<.008	<.021	77
OU04	10-22-96	<.013	<.02	<.035	<.028	<.008	<.021	83
OU05	10-23-96	<.013	<.02	<.035	<.028	<.008	<.021	135
OU06	12-16-96	<.013	<.02	<.035	<.028	<.008	<.021	80
OU07	12-18-96	<.013	E2.00	<.035	<.028	<.008	<.021	77
OU08	11-20-96	<.013	<.02	<.035	<.028	<.008	<.021	53
OU09	11-21-96	<.013	<.02	<.035	<.028	<.008	<.021	87
OU10	12-18-96	<.013	<.02	<.035	<.028	<.008	<.021	73
OU11	11-20-96	<.013	<.02	<.035	<.028	<.008	<.021	98
OU12	12-12-96	<.013	<.02	<.035	<.028	<.008	<.021	60
OU13	11-21-96	<.013	<.02	<.035	<.028	<.008	<.021	76
OU14	12-19-96	<.013	.06	<.035	<.028	.060	<.021	--
UN01	09-09-96	<.013	<.02	<.035	<.028	<.008	<.021	86
UN02	12-22-96	<.013	<.02	<.035	<.028	<.008	<.021	76
UN03	11-05-96	<.013	<.02	<.035	<.028	<.008	<.021	85
UN04	10-22-96	<.013	<.02	<.035	<.028	<.008	<.021	91
UN05	11-05-96	<.013	<.02	<.035	<.028	<.008	<.021	88
UN06	10-23-96	<.013	<.02	<.035	<.028	<.008	<.021	74
UN07	12-22-96	<.013	<.02	<.035	<.028	<.008	<.021	79
UN08	10-24-96	<.013	<.02	<.035	<.028	<.008	<.021	83
UN09	10-23-96	<.013	<.02	<.035	<.028	<.008	<.021	E11
UN10	12-09-96	<.013	<.02	<.035	<.028	<.008	<.021	74
UN11	12-19-96	<.013	<.02	E.020	<.028	<.008	<.021	70
UN12	12-09-96	<.013	<.02	<.035	<.028	<.008	<.021	81
UN13	12-22-96	<.013	<.02	<.035	<.028	<.008	<.021	81

Table 32. Concentrations of selected pesticides in samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998

[Data are included only for pesticides detected in one or more samples from one or more well networks. A complete listing of pesticides analyzed for in each sample is included in table 3; <, less than; E, estimated concentration; all concentrations are in micrograms per liter]

Local identifier	Date	Dicamba	Bentazon	Fluometuron	2,4-D	Silvex	Picloram	Norflurazon	Methomyl
CP01	07-15-98	<0.035	<0.014	<0.035	<0.15	<0.021	<0.05	<0.024	<0.017
CP02	07-14-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP03	07-16-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP04	07-15-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP05	07-22-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP06	09-02-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP07	07-20-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP08	07-22-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP09	07-28-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP10	07-21-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP11	07-27-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP12	07-28-98	<.035	<.014	<.035	.15	.06	<.05	<.024	<.44
CP13	07-29-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP14	08-03-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP15	08-25-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP16	09-03-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP17	08-27-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP18	08-25-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP19	09-02-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP20	09-03-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP21	09-09-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP22	09-10-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP23	09-09-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP24	09-16-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP25	09-23-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP26	09-23-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP27	09-22-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP28	10-14-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP29	11-04-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
CP30	11-12-98	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017

Table 32. Concentrations of selected pesticides in samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998--Continued

Local identifier	Date	Fenuron	Diuron	Dinoseb	Carbofuran	Carbaryl	Aldicarb sulfoxide	BDMC
CP01	07-15-98	<0.013	<0.02	<0.035	<0.12	<0.008	<0.021	89
CP02	07-14-98	<.013	<.02	<.035	.11	<.008	<.021	88
CP03	07-16-98	<.013	<.02	<.035	<.12	<.008	<.021	79
CP04	07-15-98	<.013	<.02	<.035	<.12	<.008	<.021	89
CP05	07-22-98	<.013	<.02	<.035	<.12	<.008	<.021	81
CP06	09-02-98	<.013	<.02	<.035	<.12	<.008	<.021	76
CP07	07-20-98	<.013	<.02	<.035	<.12	<.008	<.021	77
CP08	07-22-98	<.013	<.02	<.035	<.12	<.008	<.021	78
CP09	07-28-98	<.013	<.02	<.035	<.12	<.008	<.021	82
CP10	07-21-98	<.013	<.02	<.035	<.12	<.008	<.021	82
CP11	07-27-98	<.013	<.02	<.035	<.12	<.008	<.021	78
CP12	07-28-98	<.013	E.006	<.035	<.12	.13	<.021	72
CP13	07-29-98	<.013	<.02	<.035	<.12	<.008	<.021	89
CP14	08-03-98	<.013	<.02	<.035	<.12	<.008	<.021	80
CP15	08-25-98	<.013	<.02	<.035	<.12	<.008	<.021	78
CP16	09-03-98	<.013	<.02	<.035	<.12	<.008	<.021	74
CP17	08-27-98	<.013	<.02	<.035	<.12	<.008	<.021	78
CP18	08-25-98	<.013	<.02	<.035	<.12	<.008	<.021	113
CP19	09-02-98	<.013	<.02	<.035	<.12	<.008	<.021	81
CP20	09-03-98	<.013	<.02	<.035	<.12	<.008	<.021	81
CP21	09-09-98	<.013	<.02	<.035	<.12	<.008	E.23	81
CP22	09-10-98	<.013	<.02	<.035	<.12	<.008	<.021	86
CP23	09-09-98	<5.0	<.02	<.035	<.12	E.004	<.021	86
CP24	09-16-98	.05	1.9	<.035	<.12	<.008	<.021	75
CP25	09-23-98	<.013	<.02	<.035	<.12	<.008	<.021	92
CP26	09-23-98	<.013	<.02	<.035	<.12	<.008	<.021	88
CP27	09-22-98	<.013	<.02	<.035	<.12	<.008	<.021	96
CP28	10-14-98	<.013	<.02	<.035	<.12	<.008	<.021	87
CP29	11-04-98	<.013	<.02	<.035	<.12	<.008	<.021	93
CP30	11-12-98	<.013	<.02	<.035	<.12	<.008	<.021	105

Table 33. Concentrations of selected pesticides in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997

[Data are included only for pesticides detected in one or more samples from one or more well networks. A complete listing of pesticides analyzed for in each sample is included in table 3; <, less than; E, estimated concentration; all concentrations are in micrograms per liter; *, wells located in New York State]

Local identifier	Date	Dicamba	Bentazon	Fluometuron	2,4-D	Silvex	Picloram	Norflurazon	Methomyl
NE01	09-17-97	<0.035	<0.014	<0.035	<0.035	<0.021	<0.05	<0.024	<0.017
NE02	11-02-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE03	08-26-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE04	08-27-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE05	09-16-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE06	09-16-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE07	09-22-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE08	09-02-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE09	10-15-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE10	08-26-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE11	10-19-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE12	10-20-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE13	09-23-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE14	10-19-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE15	09-04-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE16	10-14-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE17	09-03-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE18	09-24-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE19	10-29-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE20	11-12-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE21	10-21-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE22	10-21-97	<.035	<.014	<.035	<.035	<.021	E.05	<.024	<.017
NE23	09-15-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE24	08-28-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE25	10-21-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE26	11-09-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE27	11-09-97	<.035	<.014	<.035	<.035	<.021	<.05	<.024	<.017
NE28*	12-09-97	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
NE29*	12-09-97	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017
NE30*	12-10-97	<.035	<.014	<.035	<.15	<.021	<.05	<.024	<.017

Table 33. Concentrations of selected pesticides in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997--Continued

Local identifer	Date	Fenuron	Diuron	Dinoseb	Carbofuran	Carbaryl	Aldicarb sulfoxide	BDMC
NE01	09-17-97	<0.013	<0.02	<0.035	<0.028	<0.008	<0.021	96
NE02	11-02-97	<.013	<.02	<.035	<.028	<.008	<.021	86
NE03	08-26-97	<.013	<.02	<.035	<.028	<.008	<.021	77
NE04	08-27-97	<.013	<.02	<.035	<.028	<.008	<.021	87
NE05	09-16-97	<.013	<.02	<.035	<.028	<.008	<.021	90
NE06	09-16-97	<.013	<.02	<.035	<.028	<.008	<.021	93
NE07	09-22-97	<.013	<.02	<.035	<.028	<.008	<.021	91
NE08	09-02-97	<.013	<.02	<.035	<.028	<.008	<.021	90
NE09	10-15-97	<.013	<.02	<.035	<.028	<.008	<.021	89
NE10	08-26-97	<.013	<.02	<.035	<.028	<.008	<.021	82
NE11	10-19-97	<.013	<.02	<.035	<.028	<.008	<.021	94
NE12	10-20-97	<.013	<.02	<.035	<.028	<.008	<.021	102
NE13	09-23-97	<.013	<.02	<.035	<.028	<.008	<.021	76
NE14	10-19-97	<.013	<.02	<.035	<.028	<.008	<.021	93
NE15	09-04-97	<.013	<.02	<.035	<.028	<.008	<.021	89
NE16	10-14-97	<.013	<.02	<.035	<.028	<.008	<.021	85
NE17	09-03-97	<.013	<.02	<.035	<.028	<.008	<.021	82
NE18	09-24-97	<.013	<.02	<.035	<.028	<.008	<.021	98
NE19	10-29-97	<.013	<.02	<.035	<.028	<.008	<.021	86
NE20	11-12-97	<.013	<.02	<.035	<.028	<.008	<.021	82
NE21	10-21-97	<.013	<.02	<.035	<.028	<.008	<.021	91
NE22	10-21-97	<.013	<.02	<.035	<.028	<.008	<.021	91
NE23	09-15-97	<.013	<.02	<.035	<.028	<.008	<.021	92
NE24	08-28-97	<.013	<.02	<.035	<.028	<.008	<.021	91
NE25	10-21-97	<.013	<.02	<.035	<.028	<.008	<.021	103
NE26	11-09-97	<.013	<.02	<.035	<.028	<.008	<.021	123
NE27	11-09-97	<.013	<.02	<.035	<.028	<.008	<.021	81
NE28	12-09-97	<.013	<.02	<.035	<.12	<.008	<.021	88
NE29	12-09-97	<.013	<.02	<.035	<.12	<.008	<.021	90
NE30	12-10-97	<.013	<.02	<.035	<.12	<.008	<.021	90

Table 34. Concentrations of selected pesticides in samples collected from observation wells, Glassboro study area, N.J., 1996

[Data are included only for pesticides detected in one or more samples from one or more well networks. A complete listing of pesticides analyzed for in each sample is included in table 4; <, less than; --, no data; E, estimated concentration; all concentrations are in micrograms per liter]

Local identifier	Date	Lindane	Chlordane	Dieldrin	Heptachlor expoxide	Picloram	2,4-D	Dicamba
AG01	09-04-96	<0.010	<0.1	<0.010	<0.01	<0.010	<0.010	<0.010
AG02	09-05-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
AG03	09-03-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
AG04	09-05-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
AG05	09-03-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
AG06	09-04-96	<.010	--	<.010	--	<.010	<.010	.030
AG07	10-28-96	<.010	<.1	<.010	<.01	<.010	<.010	.300
AG08	10-30-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
AG09	10-16-96	<.010	<.1	<.010	<.01	.110	<.010	<.010
AG10	10-16-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
AG11	10-16-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
AG12	10-30-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
AG13	12-20-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
AG14	12-20-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
AG15	10-30-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU01	09-10-96	<.010	<.1	<.010	.07	<.010	<.010	<.010
NU02	09-10-96	<.010	<.1	<.010	E.01	<.010	<.010	<.010
NU03	09-11-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU04	09-12-96	<.010	<.1	.240	<.01	<.010	<.010	<.010
NU05	11-04-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU06	09-30-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU07	09-30-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU08	09-18-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU09	10-02-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU10	09-19-96	<.010	<.1	4.00	<.01	<.010	<.010	<.010
NU11	10-01-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU12	09-18-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU13	10-01-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU14	11-19-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU15	10-15-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU16	11-25-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU17	10-15-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU18	10-15-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU19	11-25-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU20	10-28-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010

Table 34. Concentrations of selected pesticides in samples collected from observation wells, Glassboro study area, N.J., 1996--Continued

Local identifier	Date	Lindane	Chlordane	Dieldrin	Heptachlor epoxide	Picloram	2,4-D	Dicamba
NU21	11-19-96	<0.010	<0.1	<0.010	<0.01	<0.010	<0.010	<0.010
NU22	12-17-96	<.010	<.1	.010	<.01	--	--	--
NU23	11-04-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU24	12-15-96	<.010	<.1	.010	<.01	--	--	--
NU25	12-10-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU26	12-16-96	<.010	<.1	.030	<.01	--	--	--
NU27	12-16-96	<.010	<.1	<.010	<.01	--	--	--
NU28	12-17-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU29	12-10-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
NU30	12-15-96	<.010	<.1	.010	.01	--	--	--
OU01	10-21-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
OU02	12-18-96	<.010	<.1	.090	<.01	<.010	<.010	<.010
OU03	10-22-96	<.010	--	<.010	--	<.010	<.010	<.010
OU04	10-22-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
OU05	10-23-96	<.010	.1	<.010	.03	<.010	<.010	<.010
OU06	12-16-96	<.010	<.1	<.010	<.01	--	--	--
OU07	12-18-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
OU08	11-20-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
OU09	11-21-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
OU10	12-18-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
OU11	11-20-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
OU12	12-12-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
OU13	11-21-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
OU14	12-19-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
UN01	09-09-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
UN02	12-22-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
UN03	11-05-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
UN04	10-22-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
UN05	11-05-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
UN06	10-23-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
UN07	12-22-96	<.010	<.1	<.010	<.01	<.010	.010	<.010
UN08	10-24-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
UN09	10-23-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
UN10	12-09-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
UN11	12-19-96	<.010	--	<.010	--	<.010	<.010	<.010
UN12	12-09-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010
UN13	12-22-96	<.010	<.1	<.010	<.01	<.010	<.010	<.010

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98

[Data are included only for volatile organic compounds detected in one or more samples from one or more well networks. A complete listing of volatile organic compounds analyzed for in each sample is included in table 1; <, less than; E, estimated concentration; --, no data; all concentrations are in micrograms per liter except as noted]

Local identifier	Date	Dibromo-methane	Bromodi-chloromethane	Carbon tetrachloride	1, 2-Di-chloroethane	Bromoform	Chlorodi-bromomethane	Chloroform	Toluene	Benzene
AG01	09-04-96	<0.100	<0.100	<0.050	<0.050	<0.200	<0.100	.160	<0.050	<0.050
AG02	09-05-96	<.100	<.100	<.050	<.050	<.200	<.100	.220	<.050	<.050
	05-15-97	<.1	<.1	<.05	<.05	<.2	<.1	.33	<.05	<.05
	09-16-97	<.05	<.048	<.088	<.134	<.104	<.182	.427	<.038	<.032
AG03	09-03-96	<.100	<.100	<.050	<.050	<.200	<.100	E.020	<.050	<.050
AG04	09-05-96	<.100	<.100	<.050	<.050	<.200	<.100	<.050	<.050	<.050
AG05	09-03-96	<.100	<.100	<.050	<.050	<.200	<.100	E.005	.120	<.050
AG06	09-04-96	<.100	<.100	<.050	<.050	<.200	<.100	.290	<.050	<.050
	06-12-97	<.05	<.048	<.088	<.134	<.104	<.182	.138	<.038	<.032
	09-04-97	<.05	<.048	<.088	<.134	<.104	<.182	.112	<.038	<.032
AG07	10-28-96	<.100	<.100	<.050	<.050	<.200	<.100	<.050	<.050	<.050
AG08	10-30-96	<.100	<.100	<.050	<.050	<.200	<.100	<.050	<.050	<.050
	08-11-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
AG09	10-16-96	<.100	<.100	<.050	<.050	<.200	<.100	E.070	<.050	<.050
AG10	10-16-96	<.100	<.100	<.050	<.050	<.200	<.100	E.010	<.050	<.050
AG11	10-16-96	<.100	<.100	<.050	<.050	<.200	<.100	.300	<.050	<.050
AG12	10-30-96	<.100	<.100	<.050	<.050	<.200	<.100	E.008	<.050	<.050
AG13	12-20-96	<.100	<.100	<.050	<.050	<.200	<.100	E.006	<.050	<.050
AG14	12-20-96	<.100	<.10	<.050	<.050	<.20	<.10	<.05	<.05	<.05
AG15	10-30-96	<.100	<.100	<.050	<.050	<.200	<.100	<.050	<.050	<.050
NU01	09-10-96	<.100	E.020	<.050	<.050	<.200	<.100	4.80	<.050	<.050
NU02	09-10-96	<.100	<.100	<.050	<.050	<.200	<.100	E.070	<.050	<.050
NU03	09-11-96	<.100	<.100	<.050	<.050	<.200	<.100	E.009	<.050	<.050
NU04	09-12-96	<.100	E.020	<.050	<.050	E.030	E.030	5.60	<.050	<.050
NU05	11-04-96	<.100	<.100	<.050	<.050	<.200	<.100	E.010	<.050	<.050
NU06	09-30-96	<.100	<.100	<.050	<.050	<.200	<.100	.190	<.050	<.050
NU07	09-30-96	<.100	<.100	<.050	<.050	<.200	<.100	E.020	<.050	<.050
NU08	09-18-96	<.100	<.100	<.050	<.050	<.200	<.100	1.20	<.050	<.050
	05-29-97	<.1	<.1	<.05	<.05	<.2	<.1	3.4	<.05	<.05
	09-08-97	<.05	<.048	<.088	<.134	<.104	<.182	4.68	<.038	<.032
NU09	10-02-96	<.100	<.100	<.050	<.050	<.200	<.100	.780	<.050	<.050
NU10	09-19-96	<.100	<.100	<.050	<.050	<.200	<.100	.210	<.050	<.050
	05-20-97	<.1	<.1	<.05	<.05	<.2	<.1	E.07	<.05	<.05
	09-05-97	<.05	<.048	<.088	<.134	<.104	<.182	E.09	<.038	E.02
NU11	10-01-96	<.100	<.100	<.050	<.050	<.200	<.100	.600	<.050	<.050

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	Chlorobenzene	Chloroethane	Ethylbenzene	Methylchloride	Methylene chloride	Tetra-chloroethylene	Trichloro-fluoromethane	1, 1-Di-chloroethane	1, 1-Dichloro-ethylene
AG01	09-04-96	<0.050	<0.100	<0.050	<0.200	<0.100	<0.050	<0.100	<0.050	<0.100
AG02	09-05-96	<.050	<.100	<.050	<.200	<.100	<.050	E.007	.300	E.010
	05-15-97	<.05	<.1	<.05	<.2	<.1	.15	<.1	.16	E.009
	09-16-97	<.028	<.12	<.03	<.254	<.382	.155	<.092	.160	<.044
AG03	09-03-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
AG04	09-05-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
AG05	09-03-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
AG06	09-04-96	<.050	<.100	<.050	<.200	<.100	E.020	<.100	<.050	<.100
	06-12-97	<.028	<.12	<.03	<.254	<.382	E.02	<.092	<.066	<.044
	09-04-97	<.028	<.12	<.03	<.254	<.382	E.01	<.092	<.066	<.044
AG07	10-28-96	<.050	<.100	E.010	E.020	<.100	<.050	<.100	<.050	<.100
AG08	10-30-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
	08-11-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
AG09	10-16-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
AG10	10-16-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
AG11	10-16-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
AG12	10-30-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
AG13	12-20-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
AG14	12-20-96	<.05	<.10	<.05	<.20	<.10	<.05	<.10	<.05	<.10
AG15	10-30-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
NU01	09-10-96	<.050	<.100	<.050	E.010	<.100	<.050	.480	<.050	<.100
NU02	09-10-96	<.050	<.100	<.050	E.010	<.100	<.050	<.100	<.050	<.100
NU03	09-11-96	<.050	<.100	<.050	<.200	<.100	<.050	E.030	<.050	<.100
NU04	09-12-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	E.010
NU05	11-04-96	<.050	<.100	<.050	<.200	<.100	E.010	<.100	<.050	<.100
NU06	09-30-96	<.050	<.100	<.050	<.200	<.100	.170	<.100	<.050	<.100
NU07	09-30-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
NU08	09-18-96	<.050	<.100	<.050	E.010	<.100	<.050	.260	<.050	<.100
	05-29-97	<.05	<.1	<.05	<.2	<.1	<.05	.20	<.05	<.1
	09-08-97	<.028	<.12	<.03	<.254	<.382	<.038	.194	<.066	<.044
NU09	10-02-96	<.050	<.100	<.050	<.200	<.100	E.002	<.100	<.050	E.007
NU10	09-19-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
	05-20-97	<.05	<.1	<.05	<.2	<.1	<.05	<.1	<.05	<.1
	09-05-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NU11	10-01-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	1, 1, 1-Tri-chloroethane	Benzene O-dichloro	1, 2-di-chloropropane	Trans-1, 2-di-chloroethene	Benzene 1, 3-dichloro	Benzene 1, 4-dichloro	Dichlorodi-fluoromethane	Napththalene	Vinyl chloride
AG01	09-04-96	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.200	<0.200	<0.100
AG02	09-05-96	.300	<.050	<.050	<.050	<.050	<.050	E.420	<.200	<.100
	05-15-97	.23	<.05	<.05	<.05	<.05	<.05	.22	<.2	<.1
	09-16-97	.247	<.048	<.068	<.032	<.054	<.05	E.2	<.25	<.112
AG03	09-03-96	.120	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
AG04	09-05-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
AG05	09-03-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
AG06	09-04-96	E.030	<.050	E.040	<.050	<.050	<.050	<.200	<.200	<.100
	06-12-97	E.01	<.048	E.03	<.032	<.054	<.05	<.096	<.25	<.112
	09-04-97	E.009	<.048	E.02	<.032	<.054	<.05	<.096	<.25	<.112
AG07	10-28-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
AG08	10-30-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
	08-11-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
AG09	10-16-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
AG10	10-16-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
AG11	10-16-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
AG12	10-30-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
AG13	12-20-96	<.050	<.050	<.050	<.050	<.050	<.050	E4.30	<.200	<.100
AG14	12-20-96	<.05	<.05	<.050	<.050	<.05	<.05	<.20	<.20	<.100
AG15	10-30-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU01	09-10-96	E.010	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU02	09-10-96	E.010	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU03	09-11-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU04	09-12-96	E.030	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU05	11-04-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU06	09-30-96	.230	<.050	<.050	<.050	<.050	<.050	E.020	<.200	<.100
NU07	09-30-96	E.010	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU08	09-18-96	E.010	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
	05-29-97	E.02	<.05	<.05	<.05	<.05	<.05	<.2	<.2	<.1
	09-08-97	E.02	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NU09	10-02-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU10	09-19-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
	05-20-97	<.05	<.05	<.05	<.05	<.05	<.05	<.2	<.2	<.1
	09-05-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NU11	10-01-96	E.005	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98-Continued

Local identifier	Date	Tri-chloroethylene	Prehnitene	Ethertert-pentylmethyl	Carbondisulfide	Cis-1,2-di-chloroethene	Styrene	O-xylene	1, 3-di-chloropropane	Toluene o-ethyl
AG01	09-04-96	<0.050	<0.050	<0.100	E0.020	<0.050	<0.050	<0.050	<0.050	<0.05
AG02	09-05-96	E.002	<.050	<.100	E.008	E.004	<.050	<.050	<.050	<.05
	05-15-97	E.01	<.05	<.1	<.05	<.05	<.05	<.05	<.05	<.05
	09-16-97	E.06	<.23	E.02	<.08	E.02	<.042	<.064	<.116	<.1
AG03	09-03-96	<.050	<.050	<.100	E.005	<.050	<.050	<.050	<.050	<.05
AG04	09-05-96	<.050	<.050	<.100	E.008	<.050	<.050	<.050	<.050	<.05
AG05	09-03-96	E.007	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
AG06	09-04-96	<.050	<.050	<.100	E.010	<.050	<.050	<.050	<.050	<.05
	06-12-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
	09-04-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
AG07	10-28-96	<.050	<.050	<.100	E.010	<.050	<.050	<.050	<.050	<.05
AG08	10-30-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
	08-11-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
AG09	10-16-96	<.050	<.050	<.100	E.008	<.050	<.050	<.050	<.050	<.05
AG10	10-16-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
AG11	10-16-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
AG12	10-30-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
AG13	12-20-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
AG14	12-20-96	<.05	<.05	<.10	<.05	<.05	<.05	<.05	<.050	<.05
AG15	10-30-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU01	09-10-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU02	09-10-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU03	09-11-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU04	09-12-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU05	11-04-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU06	09-30-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU07	09-30-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU08	09-18-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
	05-29-97	<.05	<.05	<.1	<.05	<.05	<.05	<.05	<.05	<.05
	09-08-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NU09	10-02-96	<.050	<.050	E.009	<.050	<.050	<.050	<.050	<.050	<.05
NU10	09-19-96	<.050	<.050	<.100	E.006	<.050	<.050	<.050	<.050	<.05
	05-20-97	<.05	<.05	<.1	<.05	<.05	<.05	<.05	<.05	<.05
	09-05-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NU11	10-01-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	Benzene 1,2,3-trimethyl	Benzene 1,2,4-trimethyl	Iso-propylbenzene	Benzene N-propyl	Benzene 1,3,5-trimethyl	O-chlorotoluene	Benzene N-butyl	Benzene sec-butyl	Benzene tertbutyl
AG01	09-04-96	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
AG02	09-05-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
	05-15-97	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.05
	09-16-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
AG03	09-03-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
AG04	09-05-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
AG05	09-03-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
AG06	09-04-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
	06-12-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
	09-04-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
AG07	10-28-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
AG08	10-30-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
	08-11-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
AG09	10-16-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
AG10	10-16-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
AG11	10-16-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
AG12	10-30-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
AG13	12-20-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
AG14	12-20-96	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.050	<.050
AG15	10-30-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU01	09-10-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU02	09-10-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU03	09-11-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU04	09-12-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU05	11-04-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU06	09-30-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU07	09-30-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU08	09-18-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
	05-29-97	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.05
	09-08-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NU09	10-02-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU10	09-19-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
	05-20-97	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.05
	09-05-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NU11	10-01-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	P-iso-propyltoluene	Methyl iodine	1,2,3-Tri chloropropane	Ethane,1,1,1,2-tetrachloro	1, 2-dibromoethane	Freon-113	Methyl tert-butyl ether	Acetone	Bromo-benzene
AG01	09-04-96	<0.050	<0.05	<0.200	<0.050	<0.100	<0.050	<0.100	<5.00	<0.050
AG02	09-05-96	<.050	<.05	<.200	<.050	<.100	<.050	1.30	<5.00	<.050
	05-15-97	<.05	<.05	<.2	<.05	<.1	<.05	4.2	<5	<.05
	09-16-97	<.11	<.076	<.07	<.044	<.036	<.032	12.0	<4.90	<.036
AG03	09-03-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
AG04	09-05-96	<.050	E.01	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
AG05	09-03-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
AG06	09-04-96	<.050	<.05	<.200	<.050	<.100	<.050	E.020	<5.00	<.050
	06-12-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
	09-04-97	<.11	<.076	<.07	<.044	<.036	<.032	E.05	<4.90	<.036
AG07	10-28-96	<.050	E.02	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
AG08	10-30-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
	08-11-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
AG09	10-16-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
AG10	10-16-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
AG11	10-16-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
AG12	10-30-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
AG13	12-20-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
AG14	12-20-96	<.05	<.05	<.200	<.050	<.100	<.05	<.10	<5.0	<.050
AG15	10-30-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
NU01	09-10-96	<.050	<.05	<.200	<.050	<.100	<.050	.240	<5.00	<.050
NU02	09-10-96	<.050	<.05	<.200	<.050	<.100	<.050	.200	<5.00	<.050
NU03	09-11-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
NU04	09-12-96	<.050	<.05	<.200	<.050	<.100	<.050	.560	<5.00	<.050
NU05	11-04-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
NU06	09-30-96	<.050	<.05	<.200	<.050	<.100	<.050	.110	<5.00	<.050
NU07	09-30-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
NU08	09-18-96	<.050	<.05	<.200	<.050	<.100	<.050	E.040	<5.00	<.050
	05-29-97	<.05	<.05	<.2	<.05	<.1	<.05	<.1	<5	<.05
	09-08-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NU09	10-02-96	<.050	<.05	<.200	<.050	<.100	<.050	.270	<5.00	<.050
NU10	09-19-96	<.050	<.05	<.200	<.050	<.100	<.050	.280	<5.00	<.050
	05-20-97	<.05	<.05	<.2	<.05	<.1	<.05	.15	<5	<.05
	09-05-97	<.11	<.076	<.07	<.044	<.036	<.032	.764	<4.90	<.036
NU11	10-01-96	<.050	<.05	<.200	<.050	<.100	<.050	.150	<5.00	<.050

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	Ether ethyl	Di-iso-propylether	Methyl-ethylketone	Furan, tetrahydro	Dibromo chloropropane	Meta-paraxylene	Ethane 12DICL (percent recovery)	Toluene D8 (percent recovery)	Benzene 14BRFL- (percent recovery)
AG01	09-04-96	<0.10	--	<5.00	<5.00	<0.500	<0.050	105	98.0	101
AG02	09-05-96	<.10	--	<5.00	<5.00	<.500	<.050	105	98.0	102
	05-15-97	<.1	--	<5	<5	<.5	<.05	99	98	90
	09-16-97	<.17	<.098	<1.65	<1.15	<.214	<.064	102	104	100
AG03	09-03-96	<.10	--	<5.00	<5.00	<.500	<.050	105	100	103
AG04	09-05-96	<.10	--	<5.00	<5.00	<.500	<.050	107	99.0	103
AG05	09-03-96	<.10	--	<5.00	<5.00	<.500	<.050	106	99.0	103
AG06	09-04-96	<.10	--	<5.00	<5.00	<.500	<.050	105	98.0	103
	06-12-97	<.17	<.098	<1.65	E.4	<.214	<.064	108	103	99
	09-04-97	<.17	<.098	<1.65	E.2	<.214	<.064	101	101	102
AG07	10-28-96	<.10	--	<5.00	<5.00	<.500	<.050	106	99.0	100
AG08	10-30-96	<.10	--	<5.00	<5.00	<.500	<.050	98.0	99.0	107
	08-11-98	<.17	<.098	<1.65	<8.79	<.214	<.064	127	98	94
AG09	10-16-96	<.10	--	<5.00	<5.00	<.500	<.050	103	98.0	99.0
AG10	10-16-96	<.10	--	<5.00	<5.00	<.500	<.050	105	99.0	99.0
AG11	10-16-96	<.10	--	<5.00	<5.00	<.500	<.050	104	99.0	98.0
AG12	10-30-96	<.10	--	<5.00	<5.00	<.500	<.050	98.0	99.0	105
AG13	12-20-96	<.10	--	<5.00	<5.00	<.500	<.050	101	99.0	100
AG14	12-20-96	<.10	--	<5.0	<5.0	<.500	<.05	105	98.0	98.0
AG15	10-30-96	<.10	--	<5.00	<5.00	<.500	<.050	103	99.0	102
NU01	09-10-96	<.10	--	<5.00	<5.00	<.500	<.050	105	99.0	99.0
NU02	09-10-96	<.10	--	<5.00	<5.00	<.500	<.050	105	99.0	101
NU03	09-11-96	<.10	--	<5.00	<5.00	<.500	<.050	102	97.0	97.0
NU04	09-12-96	<.10	--	<5.00	<5.00	<.500	<.050	105	99.0	98.0
NU05	11-04-96	<.10	--	<5.00	<5.00	<.500	<.050	100	98.0	105
NU06	09-30-96	<.10	--	<5.00	<5.00	<.500	<.050	101	98.0	100
NU07	09-30-96	<.10	--	<5.00	<5.00	<.500	<.050	102	99.0	101
NU08	09-18-96	<.10	--	<5.00	<5.00	<.500	<.050	105	99.0	101
	05-29-97	<.1	--	<5	<5	<.5	<.05	108	99	95
	09-08-97	<.17	<.098	<1.65	<1.15	<.214	<.064	101	98	110
NU09	10-02-96	<.10	--	<5.00	<5.00	<.500	<.050	104	99.0	102
NU10	09-19-96	<.10	--	<5.00	<5.00	<.500	<.050	101	99.0	103
	05-20-97	<.1	--	<5	<5	<.5	<.05	101	98	91
	09-05-97	<.17	<.098	<1.65	<1.15	<.214	E.01	102	101	99
NU11	10-01-96	<.10	--	<5.00	<5.00	<.500	<.050	103	99.0	101

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	Di-bromomethane	Bromo-di-chloromethane	Carbon tetrachloride	1, 2-Di-chloroethane	Bromoform	Chloro-di-bromomethane	Chloroform	Toluene	Benzene
NU12	09-18-96	<0.100	<0.100	<0.050	<0.050	<0.200	<0.100	E0.060	<0.050	<0.050
NU13	10-01-96	<.100	<.100	<.050	<.050	<.200	<.100	1.10	<.050	<.050
NU14	11-19-96	<.100	<.100	<.050	<.050	<.200	<.100	E.010	<.050	<.050
NU15	10-15-96	<.100	E.020	<.050	<.050	E.040	E.040	.110	<.050	<.050
NU16	11-25-96	<.100	<.100	<.050	<.050	<.200	<.100	1.20	<.050	<.050
NU17	10-15-96	<.100	<.100	<.050	<.050	<.200	<.100	E.010	<.050	<.050
NU18	10-15-96	<.100	<.100	<.050	<.050	<.200	<.100	E.090	<.050	<.050
NU19	11-25-96	<.100	<.100	<.050	<.050	<.200	<.100	E.030	<.050	<.050
NU20	10-28-96	<.100	<.100	<.050	<.050	<.200	<.100	E.010	<.050	<.050
NU21	11-19-96	<.100	<.100	<.050	<.050	<.200	<.100	E.060	<.050	<.050
NU22	12-17-96	<.100	<.100	<.050	<.050	<.200	<.100	E.020	E.003	<.050
NU23	11-04-96	<.100	<.100	<.050	<.050	<.200	<.100	E.070	<.050	<.050
NU24	12-15-96	<.100	<.100	<.050	<.050	<.200	<.100	E.020	<.050	<.050
NU25	12-10-96	<.100	<.100	<.050	<.050	<.200	<.100	E.010	<.050	<.050
NU26	12-16-96	<.100	<.100	<.050	<.050	<.200	<.100	.310	E.006	<.050
	10-20-97	<.05	<.048	<.088	<.134	<.104	<.182	.380	<.038	<.032
NU27	12-16-96	<.100	E.050	<.050	<.050	<.200	E.020	.260	<.050	<.050
NU28	12-17-96	<.100	<.100	<.050	<.050	<.200	<.100	.460	<.050	<.050
NU29	12-10-96	<.100	<.100	<.050	<.050	<.200	<.100	E.040	<.050	<.050
NU30	12-15-96	<.100	<.100	<.050	<.050	<.200	<.100	<.050	<.050	<.050
OU01	10-21-96	<.100	<.100	<.050	<.050	<.200	<.100	<.050	<.050	<.050
	06-10-97	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038	<.032
	09-03-97	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038	<.032
OU02	12-18-96	<.100	<.100	<.050	<.050	<.200	<.100	E.040	<.050	<.050
OU03	10-22-96	<.100	<.100	<.050	<.050	<.200	<.100	<.050	<.050	<.050
OU04	10-22-96	<.100	<.100	<.050	<.050	<.200	<.100	E.010	<.050	<.050
OU05	10-23-96	<.100	<.100	<.050	<.050	<.200	<.100	.180	<.050	<.050
OU06	12-16-96	<.100	<.100	<.050	<.050	<.200	<.100	.330	<.050	<.050
OU07	12-18-96	<.100	<.100	<.050	<.050	<.200	<.100	E.040	<.050	<.050
OU08	11-20-96	<.100	<.100	<.050	<.050	<.200	<.100	<.050	E.050	<.050
OU09	11-21-96	<.100	<.100	<.050	<.050	<.200	<.100	E.010	<.050	<.050
OU10	12-18-96	<.100	<.100	<.050	<.050	<.200	<.100	<.050	<.050	<.050
OU11	11-20-96	<.100	<.100	<.050	<.050	<.200	<.100	E.020	<.050	<.050
	06-05-97	<.05	<.048	<.088	<.134	<.104	<.182	E.04	<.038	<.032
	09-10-97	<.05	<.048	<.088	<.134	<.104	<.182	E.06	E.03	<.032

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	Chlorobenzene	Chloroethane	Ethylbenzene	Methylchloride	Methylene chloride	Tetrachloro-ethylene	Trichloro-fluoromethane	1, 1-Di-chloroethane	1, 1-Di-chloro-ethylene
NU12	09-18-96	<0.050	<0.100	<0.050	E0.010	<0.100	<0.050	<0.100	<0.050	<0.100
NU13	10-01-96	<.050	<.100	<.050	E1.90	<.100	<.050	<.100	<.050	E.020
NU14	11-19-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
NU15	10-15-96	<.050	<.100	<.050	<.200	<.100	E.003	E.008	<.050	<.100
NU16	11-25-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
NU17	10-15-96	<.050	<.100	<.050	<.200	<.100	.120	<.100	<.050	<.100
NU18	10-15-96	<.050	<.100	<.050	E.009	<.100	E.010	<.100	<.050	<.100
NU19	11-25-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
NU20	10-28-96	<.050	<.100	<.050	E.060	<.100	<.050	<.100	<.050	<.100
NU21	11-19-96	<.050	<.100	<.050	<.200	<.100	<.050	.150	<.050	<.100
NU22	12-17-96	<.050	<.100	<.050	<.200	<.100	E.010	<.100	<.050	<.100
NU23	11-04-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
NU24	12-15-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
NU25	12-10-96	<.050	<.100	<.050	<.200	<.100	<.050	.170	<.050	<.100
NU26	12-16-96	<.050	<.100	<.050	<.200	<.100	E.007	<.100	<.050	E.040
	10-20-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NU27	12-16-96	<.050	<.100	<.050	<.200	<.100	E.003	E.070	<.050	<.100
NU28	12-17-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
NU29	12-10-96	<.050	<.100	<.050	E.030	<.100	<.050	<.100	<.050	<.100
NU30	12-15-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
OU01	10-21-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
	06-10-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
	09-03-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
OU02	12-18-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
OU03	10-22-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
OU04	10-22-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
OU05	10-23-96	<.050	<.100	<.050	<.200	<.100	E.010	<.100	<.050	<.100
OU06	12-16-96	<.050	<.100	<.050	<.200	<.100	E.060	<.100	<.050	<.100
OU07	12-18-96	<.050	<.100	E.007	E.020	<.100	E.010	<.100	<.050	<.100
OU08	11-20-96	<.050	E.040	E.009	E.070	<.100	<.050	<.100	.110	<.100
OU09	11-21-96	<.050	<.100	<.050	<.200	<.100	E.010	<.100	<.050	<.100
OU10	12-18-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
OU11	11-20-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
	06-05-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
	09-10-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	1, 1, 1-Tri-chloroethane	Benzene O-di-chloro	1, 2-di-chloropropane	Trans-1, 2-di-chloroethene	Benzene 1, 3-di-chloro	Benzene 1, 4-di-chloro	Dichlorodi-fluoromethane	Napththalene	Vinyl chloride
NU12	09-18-96	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.200	<0.200	<0.100
NU13	10-01-96	.390	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU14	11-19-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU15	10-15-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU16	11-25-96	E.030	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU17	10-15-96	E.004	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU18	10-15-96	E.020	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU19	11-25-96	E.010	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU20	10-28-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU21	11-19-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU22	12-17-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU23	11-04-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU24	12-15-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU25	12-10-96	.100	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU26	12-16-96	.640	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
	10-20-97	.137	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NU27	12-16-96	E.010	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU28	12-17-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU29	12-10-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU30	12-15-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
OU01	10-21-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
	06-10-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
	09-03-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU02	12-18-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
OU03	10-22-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
OU04	10-22-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
OU05	10-23-96	E.004	E.006	<.050	<.050	E.020	<.050	<.200	<.200	<.100
OU06	12-16-96	E.090	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
OU07	12-18-96	<.050	E.010	<.050	<.050	<.050	<.050	<.200	<.200	<.100
OU08	11-20-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	E.010	<.100
OU09	11-21-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
OU10	12-18-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
OU11	11-20-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
	06-05-97	<.032	<.048	<.068	<.032	<.054	<.05	E.01	<.25	<.112
	09-10-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	Trichloro-ethylene	Prehnitene	Ethertert-pentylmethyl	Carbon disulfice	Cis-1,2-di-chloroethene	Styrene	O-xylene	1, 3-di-chloro-propane	Toluene o-ethyl
NU12	09-18-96	<0.050	<0.050	<0.100	E0.007	<0.050	<0.050	<0.050	<0.050	<0.05
NU13	10-01-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU14	11-19-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU15	10-15-96	<.050	<.050	<.100	E.004	<.050	<.050	<.050	<.050	<.05
NU16	11-25-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU17	10-15-96	E.007	<.050	<.100	E.001	<.050	<.050	<.050	<.050	<.05
NU18	10-15-96	E.004	<.050	<.100	E.002	<.050	<.050	<.050	<.050	<.05
NU19	11-25-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU20	10-28-96	<.050	<.050	<.100	E.020	<.050	<.050	<.050	<.050	<.05
NU21	11-19-96	<.050	<.050	E.020	<.050	<.050	<.050	<.050	<.050	<.05
NU22	12-17-96	<.050	<.050	<.100	E.005	<.050	<.050	<.050	<.050	<.05
NU23	11-04-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU24	12-15-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU25	12-10-96	<.050	<.050	<.100	E.010	<.050	<.050	<.050	<.050	<.05
NU26	12-16-96	<.050	<.050	<.100	<.050	<.050	E.003	<.050	<.050	<.05
	10-20-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NU27	12-16-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU28	12-17-96	<.050	<.050	<.100	E.020	<.050	<.050	<.050	<.050	<.05
NU29	12-10-96	<.050	<.050	<.100	E.040	<.050	<.050	<.050	<.050	<.05
NU30	12-15-96	<.050	<.050	<.100	E.008	<.050	<.050	<.050	<.050	<.05
OU01	10-21-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
	06-10-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
	09-03-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
OU02	12-18-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
OU03	10-22-96	<.050	<.050	<.100	E.005	<.050	<.050	<.050	<.050	<.05
OU04	10-22-96	<.050	<.050	<.100	E.003	<.050	<.050	<.050	<.050	<.05
OU05	10-23-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
OU06	12-16-96	<.050	<.050	<.100	E.010	<.050	<.050	<.050	<.050	<.05
OU07	12-18-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
OU08	11-20-96	<.050	<.050	E.010	E.020	<.050	<.050	E.010	<.050	<.05
OU09	11-21-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
OU10	12-18-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
OU11	11-20-96	<.050	<.050	<.100	E.020	<.050	<.050	<.050	<.050	<.05
	06-05-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
	09-10-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	Benzene 123-trimethyl	Benzene 124-trimethyl	Iso-propylbenzene	Benzene N-propy	Benzene 135-trimethyl	O-chlorotoluene	Benzene N-butyl	Benzene sec butyl	Benzene tertbutyl
NU12	09-18-96	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
NU13	10-01-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU14	11-19-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU15	10-15-96	<.05	E.003	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU16	11-25-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU17	10-15-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU18	10-15-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU19	11-25-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU20	10-28-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU21	11-19-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU22	12-17-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU23	11-04-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU24	12-15-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU25	12-10-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU26	12-16-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
	10-20-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NU27	12-16-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU28	12-17-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU29	12-10-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU30	12-15-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
OU01	10-21-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
	06-10-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
	09-03-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU02	12-18-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
OU03	10-22-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
OU04	10-22-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
OU05	10-23-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
OU06	12-16-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
OU07	12-18-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
OU08	11-20-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	E.010	E.080
OU09	11-21-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
OU10	12-18-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
OU11	11-20-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
	06-05-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
	09-10-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	P-iso-propyltoluene	Methyl iodine	123-Tri chloropropane	Ethane,1112-tetrachloro	1, 2-dibromoethane	Freon-113	Methyl tert-butyl ether	Acetone	Bromobenzene
NU12	09-18-96	<0.050	<0.05	<0.200	<0.050	<0.100	<0.050	0.160	<5.00	<0.050
NU13	10-01-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
NU14	11-19-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
NU15	10-15-96	<.050	<.05	<.200	<.050	<.100	<.050	E.040	<5.00	<.050
NU16	11-25-96	<.050	<.05	<.200	<.050	<.100	<.050	E.020	<5.00	<.050
NU17	10-15-96	<.050	<.05	<.200	<.050	<.100	<.050	E.050	<5.00	<.050
NU18	10-15-96	<.050	<.05	<.200	<.050	<.100	<.050	.260	<5.00	<.050
NU19	11-25-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
NU20	10-28-96	<.050	E.07	<.200	<.050	<.100	<.050	<.100	E1.60	<.050
NU21	11-19-96	<.050	<.05	<.200	<.050	<.100	<.050	.210	<5.00	<.050
NU22	12-17-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
NU23	11-04-96	<.050	<.05	<.200	<.050	<.100	<.050	E.030	<5.00	<.050
NU24	12-15-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
NU25	12-10-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
NU26	12-16-96	<.050	<.05	<.200	<.050	<.100	<.050	.130	<5.00	<.050
	10-20-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NU27	12-16-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
NU28	12-17-96	<.050	E.01	<.200	<.050	<.100	<.050	.330	<5.00	<.050
NU29	12-10-96	<.050	<.05	<.200	<.050	<.100	<.050	.130	<5.00	<.050
NU30	12-15-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
OU01	10-21-96	<.050	<.05	<.200	<.050	<.100	<.050	16.7	<5.00	<.050
	06-10-97	<.11	<.076	<.07	<.044	<.036	<.032	1.96	<4.90	<.036
	09-03-97	<.11	<.076	<.07	<.044	<.036	<.032	.600	<4.90	<.036
OU02	12-18-96	<.050	E.01	<.200	<.050	<.100	<.050	.300	<5.00	<.050
OU03	10-22-96	<.050	<.05	<.200	<.050	<.100	<.050	E.020	<5.00	<.050
OU04	10-22-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
OU05	10-23-96	<.050	<.05	<.200	<.050	<.100	<.050	.200	<5.00	<.050
OU06	12-16-96	<.050	<.05	<.200	<.050	<.100	<.050	.260	<5.00	<.050
OU07	12-18-96	<.050	E.17	<.200	<.050	<.100	.120	<.100	<5.00	<.050
OU08	11-20-96	<.050	<.05	<.200	<.050	<.100	<.050	3.70	<5.00	<.050
OU09	11-21-96	<.050	<.05	<.200	<.050	<.100	<.050	1.20	<5.00	<.050
OU10	12-18-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
OU11	11-20-96	<.050	<.05	<.200	<.050	<.100	<.050	43.8	<5.00	<.050
	06-05-97	<.11	<.076	<.07	<.044	<.036	<.032	4.90	<4.90	<.036
	09-10-97	<.11	<.076	<.07	<.044	<.036	<.032	3.15	<4.90	<.036

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	Ether ethyl	Di-iso-propylether,	Methyl-ethylketone	Furan, tetrahydro	Dibromo chloropropane	Meta-paraxylene	Ethane 12DICL (percent recovery)	Toluene D8 (percent recovery)	Benzene 14BRFL (percent recovery)
NU12	09-18-96	<0.10	--	<5.00	<5.00	<0.500	<0.050	104	99.0	99.0
NU13	10-01-96	<.10	--	<5.00	<5.00	<.500	<.050	100	98.0	101
NU14	11-19-96	<.10	--	<5.00	<5.00	<.500	<.050	103	100	102
NU15	10-15-96	<.10	--	<5.00	<5.00	<.500	<.050	106	99.0	101
NU16	11-25-96	<.10	--	<5.00	<5.00	<.500	<.050	108	99.0	99.0
NU17	10-15-96	<.10	--	<5.00	<5.00	<.500	<.050	105	99.0	100
NU18	10-15-96	<.10	--	<5.00	<5.00	<.500	<.050	104	99.0	101
NU19	11-25-96	<.10	--	<5.00	<5.00	<.500	<.050	107	99.0	98.0
NU20	10-28-96	<.10	--	<5.00	<5.00	<.500	<.050	107	98.0	101
NU21	11-19-96	<.10	--	<5.00	<5.00	<.500	<.050	104	99.0	102
NU22	12-17-96	<.10	--	<5.00	<5.00	<.500	<.050	100	96.0	99.0
NU23	11-04-96	<.10	--	<5.00	<5.00	<.500	<.050	104	100	105
NU24	12-15-96	<.10	--	<5.00	<5.00	<.500	<.050	99.0	97.0	101
NU25	12-10-96	<.10	--	<5.00	<5.00	<.500	<.050	103	98.0	97.0
NU26	12-16-96	<.10	--	<5.00	<5.00	<.500	<.050	101	98.0	100
	10-20-97	<.17	<.098	<1.65	<1.15	<.214	<.064	102	97	96
NU27	12-16-96	<.10	--	<5.00	<5.00	<.500	<.050	99.0	97.0	99.0
NU28	12-17-96	<.10	--	<5.00	<5.00	<.500	<.050	102	97.0	96.0
NU29	12-10-96	<.10	--	<5.00	<5.00	<.500	<.050	104	96.0	98.0
NU30	12-15-96	<.10	--	<5.00	<5.00	<.500	<.050	100	97.0	101
OU01	10-21-96	<.10	--	<5.00	<5.00	<.500	<.050	105	100	99.0
	06-10-97	<.17	<.098	<1.65	<1.15	<.214	<.064	109	96	102
	09-03-97	<.17	<.098	<1.65	<1.15	<.214	<.064	97	100	99
OU02	12-18-96	<.10	--	<5.00	<5.00	<.500	<.050	104	98.0	97.0
OU03	10-22-96	<.10	--	<5.00	<5.00	<.500	<.050	104	98.0	96.0
OU04	10-22-96	<.10	--	<5.00	<5.00	<.500	<.050	104	99.0	99.0
OU05	10-23-96	<.10	--	<5.00	<5.00	<.500	<.050	105	100	102
OU06	12-16-96	<.10	--	<5.00	<5.00	<.500	<.050	103	97.0	98.0
OU07	12-18-96	<.10	--	<5.00	<5.00	<.500	<.050	104	95.0	96.0
OU08	11-20-96	<.10	--	E.200	<5.00	<.500	E.020	109	101	105
OU09	11-21-96	<.10	--	<5.00	<5.00	<.500	E.008	105	99.0	97.0
OU10	12-18-96	<.10	--	<5.00	<5.00	<.500	<.050	103	98.0	98.0
OU11	11-20-96	<.10	--	<5.00	<5.00	<.500	E.010	107	100	100
	06-05-97	<.17	<.098	<1.65	<1.15	<.214	<.064	98	98	102
	09-10-97	<.17	<.098	<1.65	<1.15	<.214	<.064	101	101	93

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	Di-bromomethane	Bromo-di-chloromethane	Carbon tetrachloride	1, 2-Di-chloroethane	Bromoform	Chlorodi-bromomethane	Chloroform	Toluene	Benzene
OU12	12-12-96	<0.100	<0.100	<0.050	<0.050	<0.200	<0.100	<0.050	<0.050	<0.050
OU13	11-21-96	<.100	<.100	<.050	<.050	<.200	<.100	E.060	<.050	<.050
OU14	12-19-96	<.100	<.100	<.050	<.050	<.200	<.100	.290	<.050	<.050
OU15	11-13-97	<.05	<.048	<.088	<.134	<.104	<.182	E.045	<.038	<.032
OU16	11-06-97	<.05	<.048	<.088	<.134	<.104	<.182	2.04	<.038	<.032
OU17	11-19-97	<.05	<.048	<.088	<.134	<.104	<.182	.130	<.038	<.032
OU18	11-19-97	<.05	<.048	<.088	<.134	<.104	<.182	.374	<.038	<.032
OU19	11-18-97	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038	<.032
OU20	11-18-97	<.05	<.048	<.088	<.134	<.104	<.182	.107	<.038	<.032
UN01	09-09-96	<.100	<.100	<.050	<.050	<.200	<.100	1.30	<.050	<.050
UN02	12-22-96	<.400	<.400	<.200	<.200	<.800	<.400	<.200	<.200	<.200
	08-11-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
UN03	11-05-96	<.100	<.100	<.050	<.050	<.200	<.100	E.020	<.050	<.050
UN04	10-22-96	<.100	<.100	<.050	<.050	<.200	<.100	E.030	<.050	<.050
UN05	11-05-96	<.100	<.100	<.050	<.050	<.200	<.100	.250	<.050	<.050
UN06	10-23-96	<.100	<.100	<.050	<.050	<.200	<.100	.100	<.050	<.050
UN07	12-22-96	<.100	<.100	<.050	<.050	<.200	<.100	E.030	<.050	<.050
UN08	10-24-96	<.100	<.100	<.050	<.050	<.200	<.100	E.010	<.050	<.050
UN09	10-23-96	<.100	<.100	<.050	<.050	<.200	<.100	E.030	<.050	<.050
UN10	12-09-96	<.100	<.100	<.050	<.050	<.200	<.100	.280	E.020	<.050
UN11	12-19-96	<.100	<.100	<.050	<.050	<.200	<.100	<.050	<.050	<.050
UN12	12-09-96	<.100	<.100	<.050	<.050	<.200	<.100	E.020	<.050	<.050
UN13	12-22-96	<.100	<.100	<.050	<.050	<.200	<.100	<.050	<.050	<.050

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	Chlorobenzene	Chloroethane	Ethylbenzene	Methylchloride	Methylene chloride	Tetra-chloroethylene	Trichloro-fluoromethane	1, 1-Di-chloroethane	1, 1-Di-chloroethylene
OU12	12-12-96	<0.050	<0.100	<0.050	E0.020	<0.100	E0.030	<0.100	<0.050	<0.100
OU13	11-21-96	E.010	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
OU14	12-19-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
OU15	11-13-97	<.028	<.12	<.03	<.254	<.382	E.0047	<.092	<.066	<.044
OU16	11-06-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
OU17	11-19-97	<.028	<.12	<.03	<.254	<.382	E.015	<.092	.102	<.044
OU18	11-19-97	<.028	<.12	<.03	<.254	<.382	E.017	<.092	<.066	<.044
OU19	11-18-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
OU20	11-18-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
UN01	09-09-96	<.050	<.100	<.050	E.010	<.100	<.050	<.100	<.050	<.100
UN02	12-22-96	<.200	<.400	<.200	<.800	<.400	<.200	<.400	<.200	<.400
	08-11-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
UN03	11-05-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
UN04	10-22-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
UN05	11-05-96	<.050	<.100	<.050	<.200	<.100	E.040	<.100	<.050	<.100
UN06	10-23-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
UN07	12-22-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
UN08	10-24-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
UN09	10-23-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
UN10	12-09-96	<.050	<.100	<.050	<.200	<.100	.100	<.100	<.050	<.100
UN11	12-19-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
UN12	12-09-96	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
UN13	12-22-96	<.050	<.100	<.050	E.020	<.100	<.050	<.100	<.050	<.100

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	1, 1, 1-Tri-chloroethane	Benzene O-di-chloro-	1, 2-di-chloropropane	Trans-1, 2-di-chloroethene	Benzene 1, 3-dichloro	Benzene 1, 4-di-chloro	Dichlorodi-fluoromethane	Napththalene	Vinyl chloride
OU12	12-12-96	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.200	<0.200	<0.100
OU13	11-21-96	<.050	E.002	<.050	<.050	<.050	.200	<.200	<.200	<.100
OU14	12-19-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
OU15	11-13-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU16	11-06-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU17	11-19-97	E.026	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU18	11-19-97	E.020	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU19	11-18-97	E.010	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU20	11-18-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
UN01	09-09-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
UN02	12-22-96	<.200	<.200	<.200	<.200	<.200	<.200	<.800	<.800	<.400
	08-11-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
UN03	11-05-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
UN04	10-22-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
UN05	11-05-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
UN06	10-23-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
UN07	12-22-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
UN08	10-24-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
UN09	10-23-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
UN10	12-09-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
UN11	12-19-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
UN12	12-09-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
UN13	12-22-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	Tri-chloroethylene	Prehnitene	Ethertert-pentymethyl	Carbon disulfice	Cis-1,2-di-chloroethene	Styrene	O-xylene	1, 3-di-chloropropane	Toluene o-ethyl
OU12	12-12-96	<0.050	<0.050	<0.100	E0.040	<0.050	<0.050	<0.050	<0.050	<0.05
OU13	11-21-96	<.050	<.050	<.100	E.010	<.050	<.050	<.050	<.050	<.05
OU14	12-19-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
OU15	11-13-97	<.038	<.23	<.112	E.14	<.038	<.042	<.064	<.116	<.1
OU16	11-06-97	<.038	<.23	<.112	E.011	<.038	<.042	<.064	<.116	<.1
OU17	11-19-97	.434	<.23	<.112	<.08	.305	<.042	<.064	<.116	<.1
OU18	11-19-97	<.038	<.23	<.112	E.032	<.038	<.042	<.064	<.116	<.1
OU19	11-18-97	<.038	<.23	<.112	E.014	<.038	<.042	<.064	<.116	<.1
OU20	11-18-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
UN01	09-09-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
UN02	12-22-96	<.200	<.200	<.400	<.200	<.200	<.200	<.200	<.200	<.20
	08-11-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
UN03	11-05-96	<.050	<.050	<.100	E.010	<.050	<.050	<.050	<.050	<.05
UN04	10-22-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
UN05	11-05-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
UN06	10-23-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
UN07	12-22-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
UN08	10-24-96	<.050	<.050	<.100	E.020	<.050	<.050	<.050	<.050	<.05
UN09	10-23-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
UN10	12-09-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
UN11	12-19-96	<.050	<.050	<.100	E.010	<.050	<.050	<.050	<.050	<.05
UN12	12-09-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
UN13	12-22-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	Benzene 123-trimethyl-	Benzene 124-trimethyl	Iso-propylbenzene	Benzene N-propy	Benzene 135-trimethyl	O-chlorotoluene	Benzene N-butyl	Benzene sec butyl-	Benzene tert butyl-
OU12	12-12-96	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
OU13	11-21-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
OU14	12-19-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
OU15	11-13-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU16	11-06-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU17	11-19-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU18	11-19-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU19	11-18-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU20	11-18-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
UN01	09-09-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
UN02	12-22-96	<.20	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200
	08-11-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
UN03	11-05-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
UN04	10-22-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
UN05	11-05-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
UN06	10-23-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
UN07	12-22-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
UN08	10-24-96	<.05	<.050	<.050	<.050	<.050	E.007	<.050	<.050	<.050
UN09	10-23-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
UN10	12-09-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
UN11	12-19-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
UN12	12-09-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
UN13	12-22-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	P-iso-propyltoluene	Methyl iodine	123-Tri chloropropane	Ethane,1112-tetrachloro	1, 2-dibromoethane	Freon-113	Methyl tert-butyl ether	Acetone	Bromobenzene
OU12	12-12-96	<0.050	<0.05	<0.200	<0.050	<0.100	<0.050	<0.100	<5.00	<0.050
OU13	11-21-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
OU14	12-19-96	<.050	<.05	<.200	<.050	<.100	<.050	.120	<5.00	<.050
OU15	11-13-97	E.025	<.076	<.07	<.044	<.036	<.032	<.112	31.4	<.036
OU16	11-06-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
OU17	11-19-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
OU18	11-19-97	.710	<.076	<.07	<.044	<.036	<.032	.193	<4.90	<.036
OU19	11-18-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
OU20	11-18-97	<.11	<.076	<.07	<.044	<.036	<.032	E.082	<4.90	<.036
UN01	09-09-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
UN02	12-22-96	<.200	<.20	<.800	<.200	<.400	<.200	<.400	<20	<.200
	08-11-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
UN03	11-05-96	.120	<.05	<.200	<.050	<.100	<.050	E.060	<5.00	<.050
UN04	10-22-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
UN05	11-05-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
UN06	10-23-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
UN07	12-22-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
UN08	10-24-96	<.050	<.05	<.200	<.050	<.100	<.050	E.040	<5.00	<.050
UN09	10-23-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
UN10	12-09-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
UN11	12-19-96	<.050	<.05	<.200	<.050	<.100	<.050	1.10	<5.00	<.050
UN12	12-09-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
UN13	12-22-96	E.003	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050

Table 35. Concentrations of volatile organic compounds in samples collected from observation wells for the land-use survey, Glassboro study area, N.J., 1996-98--Continued

Local identifier	Date	Ether ethyl	Di-iso-propylether	Methyl-ethylketone	Furan, tetrahydro	Dibromo chloropropane	Meta-paraxylene	Ethane 12DICL (percent recovery)	Toluene D8 (percent recovery)	Benzene 14BRFL (percent recovery)
OU12	12-12-96	<0.10	--	<5.00	<5.00	<0.500	<0.050	92.0	95.0	97.0
OU13	11-21-96	<.10	--	<5.00	<5.00	<.500	<.050	105	100	98.0
OU14	12-19-96	<.10	--	<5.00	<5.00	<.500	<.050	101	97.0	97.0
OU15	11-13-97	<.17	<.098	7.06	<1.15	<.214	<.064	106	89	70
OU16	11-06-97	<.17	<.098	<1.65	<2.53	<.214	<.064	112	88	67
OU17	11-19-97	<.17	<.098	<1.65	<1.15	<.214	<.064	101	95	108
OU18	11-19-97	<.17	<.098	<1.65	E1.6	<.214	<.064	97	96	104
OU19	11-18-97	<.17	<.098	<1.65	<1.15	<.214	<.064	98	96	115
OU20	11-18-97	<.17	<.098	<1.65	<1.15	<.214	<.064	98	96	97
UN01	09-09-96	<.10	--	<5.00	<5.00	<.500	<.050	104	99.0	102
UN02	12-22-96	<.40	--	<20	<20.0	<2.00	<.200	102	99.0	98.0
	08-11-98	<.17	<.098	<1.65	<8.79	<.214	<.064	128	99	93
UN03	11-05-96	<.10	--	<5.00	<5.00	<.500	<.050	102	99.0	101
UN04	10-22-96	<.10	--	<5.00	<5.00	<.500	<.050	103	99.0	97.0
UN05	11-05-96	<.10	--	<5.00	<5.00	<.500	<.050	102	99.0	101
UN06	10-23-96	<.10	--	<5.00	<5.00	<.500	<.050	102	100	102
UN07	12-22-96	<.10	--	<5.00	<5.00	<.500	<.050	103	97.0	97.0
UN08	10-24-96	<.10	--	<5.00	<5.00	<.500	<.050	105	99.0	101
UN09	10-23-96	<.10	--	<5.00	<5.00	<.500	<.050	106	99.0	100
UN10	12-09-96	<.10	--	<5.00	<5.00	<.500	<.050	101	98.0	101
UN11	12-19-96	<.10	--	<5.00	<5.00	<.500	<.050	102	92.0	98.0
UN12	12-09-96	<.10	--	<5.00	<5.00	<.500	<.050	102	99.0	97.0
UN13	12-22-96	<.10	--	E.200	<5.00	<.500	<.050	103	97.0	98.0

Table 36. Concentrations of volatile organic compounds in samples collected from observation wells for the flow-path survey, Glassboro study area, N.J., 1997

[Data are included only for volatile organic compounds detected in one or more samples from one or more well networks. A complete listing of volatile organic compounds analyzed for in each sample is included in table 1; all concentrations are in micrograms per liter except as noted; <, less than; E, estimated concentration]

Local identifier	Date	Dibromo-methane	Bromo-dichloro-methane	Carbon tetrachloride	1, 2-Di-chloroethane	Bromoform	Chlorodi-bromomethane	Chloroform	Toluene	Benzene
NU01-TEN	11-04-97	<0.05	<0.048	<0.088	<0.134	<0.104	<0.182	E0.018	<0.038	<0.032
NU02-TEN	11-04-97	<.05	<.048	<.088	<.134	<.104	<.182	E.047	<.038	<.032
NU06-TEN	11-07-97	<.05	<.048	<.088	<.134	<.104	<.182	.879	<.038	<.032
NU09-TEN	11-14-97	<.05	<.048	<.088	<.134	<.104	<.182	E.02	<.038	<.032
NU10-TEN	11-17-97	<.05	<.048	<.088	<.134	<.104	<.182	.742	<.038	<.032
NU11-TEN	10-31-97	<.05	<.048	<.088	<.134	<.104	<.182	.0950	E.0097	<.032
NU13-TEN	11-07-97	<.05	<.048	<.088	<.134	<.104	<.182	E.021	<.038	<.032
NU16-TEN	11-14-97	<.05	<.048	<.088	<.134	<.104	<.182	.416	<.038	<.032
NU19-TEN	11-21-97	<.05	<.048	<.088	<.134	<.104	<.182	E.034	<.038	<.032
NU22-TEN	11-17-97	<.05	<.048	<.088	<.134	<.104	<.182	E.0087	<.038	<.032
NU26-TEN	11-21-97	<.05	<.048	<.088	<.134	<.104	<.182	.112	<.038	<.032
NU27-TEN	11-20-97	<.05	E.028	<.088	<.134	<.104	E.026	.142	E.069	<.032
NU29-TEN	11-04-97	<.05	<.048	<.088	<.134	<.104	<.182	E.082	<.038	<.032
NU30-TEN	11-06-97	<.05	<.048	<.088	<.134	<.104	<.182	E.014	<.038	<.032
OU01-TEN	11-05-97	<.05	<.048	<.088	.210	<.104	<.182	E.014	<.038	.104
OU02-TEN	11-10-97	<.05	<.048	<.088	<.134	<.104	<.182	E.025	<.038	<.032
OU04-TEN	11-05-97	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038	<.032
OU05-TEN	11-13-97	<.05	<.048	<.088	<.134	<.104	<.182	.179	<.038	<.032
OU06-TEN	11-17-97	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038	.333
OU07-TEN	11-10-97	<.05	<.048	<.088	<.134	<.104	<.182	E.005	<.038	<.032
OU08-TEN	11-20-97	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038	<.032
OU09-TEN	11-05-97	<.05	<.048	<.088	<.134	<.104	<.182	E.017	<.038	<.032
OU10-TEN	11-10-97	<.05	<.048	<.088	<.134	<.104	<.182	E.0039	<.038	<.032
OU14-TEN	11-20-97	<.05	<.048	<.088	<.134	<.104	<.182	<.052	.133	<.032
OU15-TEN	11-13-97	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038	<.032
OU16-TEN	11-06-97	<.05	<.048	<.088	.690	<.104	<.182	.544	<.038	<.032
OU17-TEN	11-19-97	<.05	<.048	<.088	<.134	<.104	<.182	.309	<.038	E.014
OU18-TEN	11-19-97	<.05	<.048	<.088	<.134	<.104	<.182	.0951	<.038	<.032
OU19-TEN	11-18-97	<.05	<.048	<.088	<.134	<.104	<.182	E.023	<.038	<.032
OU20-TEN	11-18-97	<.05	<.048	<.088	<.134	<.104	<.182	E.015	<.038	<.032

Table 36. Concentrations of volatile organic compounds in samples collected from observation wells for the flow-path survey, Glassboro study area, N.J., 1997--Continued

Local identifier	Date	Chlorobenzene	Chloroethane	Ethylbenzene	Methylchloride	Methylene chloride	Tetra-chloroethylene	Trichloro-fluoromethane	1, 1-Di-chloroethane	1, 1-Dichloro-ethylene
NU01-TEN	11-04-97	<0.028	<0.12	<0.03	<0.254	<0.382	<0.038	<0.092	<0.066	<0.044
NU02-TEN	11-04-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NU06-TEN	11-07-97	<.028	<.12	<.03	<.254	<.382	E.0059	<.092	<.066	<.044
NU09-TEN	11-14-97	<.028	<.12	<.03	<.254	<.382	E.053	.420	<.066	<.044
NU10-TEN	11-17-97	<.028	<.12	<.03	<.254	<.382	.350	<.092	<.066	E.018
NU11-TEN	10-31-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NU13-TEN	11-07-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NU16-TEN	11-14-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NU19-TEN	11-21-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NU22-TEN	11-17-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NU26-TEN	11-21-97	<.028	<.12	<.03	<.254	<.382	.946	<.092	<.066	<.044
NU27-TEN	11-20-97	<.028	<.12	<.03	<.254	<.382	E.025	<.092	<.066	<.044
NU29-TEN	11-04-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NU30-TEN	11-06-97	<.028	<.12	<.03	<.254	<.382	E.0054	<.092	<.066	<.044
OU01-TEN	11-05-97	E.0089	.146	<.03	<.254	<.382	E.013	<.092	5.60	E.012
OU02-TEN	11-10-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
OU04-TEN	11-05-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
OU05-TEN	11-13-97	<.028	<.12	<.03	<.254	<.382	E.089	<.092	E.029	<.044
OU06-TEN	11-17-97	<.028	<.12	<.03	<.254	<.382	E.048	.143	E.017	<.044
OU07-TEN	11-10-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
OU08-TEN	11-20-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
OU09-TEN	11-05-97	<.028	<.12	<.03	<.254	<.382	E.018	<.092	<.066	<.044
OU10-TEN	11-10-97	<.028	<.12	<.03	E.0075	<.382	E.0033	<.092	<.066	<.044
OU14-TEN	11-20-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
OU15-TEN	11-13-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
OU16-TEN	11-06-97	<.028	<.12	<.03	<.254	<.382	E.070	<.092	2.72	.100
OU17-TEN	11-19-97	<.028	<.12	<.03	<.254	<.382	E.06	<.092	.210	.0991
OU18-TEN	11-19-97	E.012	<.12	<.03	<.254	<.382	.243	<.092	E.029	E.027
OU19-TEN	11-18-97	<.028	<.12	<.03	<.254	<.382	E.026	17.0	<.066	<.044
OU20-TEN	11-18-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044

Table 36. Concentrations of volatile organic compounds in samples collected from observation wells for the flow-path survey, Glassboro study area, N.J., 1997--Continued

Local identifier	Date	1, 1, 1 Tri-chloroethane	Benzene O-di-chloro	1, 2-Di-chloropropane	Trans-1, 2-di-chloroethene	Benzene 1, 3-di-chloro	Benzene 1, 4-di-chloro	Dichlorodi-fluoromethane	Naphthalene	Vinyl chloride
NU01-TEN	11-04-97	<0.032	<0.048	<0.068	<0.032	<0.054	<0.05	<0.096	<0.25	<0.112
NU02-TEN	11-04-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NU06-TEN	11-07-97	<.032	<.048	<.068	<.032	<.054	E.012	<.096	<.25	<.112
NU09-TEN	11-14-97	<.032	E.036	<.068	<.032	E.017	<.05	<.096	<.25	<.112
NU10-TEN	11-17-97	E.044	<.048	<.068	<.032	<.054	E.015	<.096	<.25	<.112
NU11-TEN	10-31-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NU13-TEN	11-07-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NU16-TEN	11-14-97	<.032	<.048	<.068	<.032	<.054	<.05	E.092	<.25	<.112
NU19-TEN	11-21-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NU22-TEN	11-17-97	<.032	<.048	<.068	<.032	<.054	E.0083	<.096	<.25	<.112
NU26-TEN	11-21-97	E.021	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NU27-TEN	11-20-97	E.025	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NU29-TEN	11-04-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NU30-TEN	11-06-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU01-TEN	11-05-97	E.027	E.086	<.068	<.032	E.0089	.457	<.096	<.25	<.112
OU02-TEN	11-10-97	E.0076	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU04-TEN	11-05-97	E.012	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU05-TEN	11-13-97	E.041	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU06-TEN	11-17-97	<.032	<.048	<.068	<.032	<.054	<.05	E.037	<.25	<.112
OU07-TEN	11-10-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU08-TEN	11-20-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU09-TEN	11-05-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU10-TEN	11-10-97	E.0054	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU14-TEN	11-20-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU15-TEN	11-13-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU16-TEN	11-06-97	.256	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU17-TEN	11-19-97	.122	E.022	<.068	<.032	E.043	.262	<.096	<.25	<.112
OU18-TEN	11-19-97	E.044	E.055	<.068	<.032	<.054	E.049	<.096	<.25	<.112
OU19-TEN	11-18-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
OU20-TEN	11-18-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112

Table 36. Concentrations of volatile organic compounds in samples collected from observation wells for the flow-path survey, Glassboro study area, N.J., 1997--Continued

Local identifier	Date	Tri-chloroethylene	Prehnitene	Ethertert-pentylmethyl	Carbon disulfide	Cis-1, 2-di-chloroethene	Stureme	O-xylene	1, 3-di-chloropropane	Toluene O-ethyl
NU01-TEN	11-04-97	<0.038	<0.23	<0.112	<0.08	<0.038	<0.042	<0.064	<0.116	<0.1
NU02-TEN	11-04-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NU06-TEN	11-07-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NU09-TEN	11-14-97	<.038	<.23	<.112	E.013	<.038	<.042	<.064	<.116	<.1
NU10-TEN	11-17-97	E.012	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NU11-TEN	10-31-97	<.038	<.23	<.112	E.032	<.038	<.042	<.064	<.116	<.1
NU13-TEN	11-07-97	<.038	<.23	<.112	E.04	<.038	<.042	<.064	<.116	<.1
NU16-TEN	11-14-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NU19-TEN	11-21-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NU22-TEN	11-17-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NU26-TEN	11-21-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NU27-TEN	11-20-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NU29-TEN	11-04-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NU30-TEN	11-06-97	<.038	<.23	<.112	E.17	<.038	<.042	<.064	<.116	<.1
OU01-TEN	11-05-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
OU02-TEN	11-10-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
OU04-TEN	11-05-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
OU05-TEN	11-13-97	E.023	<.23	<.112	<.08	E.013	<.042	<.064	<.116	<.1
OU06-TEN	11-17-97	E.0094	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
OU07-TEN	11-10-97	<.038	<.23	<.112	E.019	<.038	<.042	<.064	<.116	<.1
OU08-TEN	11-20-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
OU09-TEN	11-05-97	E.052	<.23	<.112	E.011	<.038	<.042	<.064	<.116	<.1
OU10-TEN	11-10-97	<.038	<.23	<.112	E.028	<.038	<.042	<.064	<.116	<.1
OU14-TEN	11-20-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
OU15-TEN	11-13-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
OU16-TEN	11-06-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
OU17-TEN	11-19-97	.211	<.23	<.112	<.08	<.038	<.042	<.064	<.116	E.025
OU18-TEN	11-19-97	<.038	<.23	<.112	E.024	<.038	<.042	<.064	<.116	<.1
OU19-TEN	11-18-97	E.014	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
OU20-TEN	11-18-97	<.038	<.23	<.112	E.012	<.038	<.042	<.064	<.116	<.1

Table 36. Concentrations of volatile organic compounds in samples collected from observation wells for the flow-path survey, Glassboro study area, N.J., 1997--Continued

Local identifier	Date	Benzene 123-trimethyl	Benzene 124-trimethyl	Iso-propylbenzene	Benzene N-propy	Benzene 135-trimethyl	O-chlorotoluene	Benzene N-butyl	Benzene secbutyl	Benzene tertbutyl
NU01-TEN	11-04-97	<0.124	<0.056	<0.032	<0.042	<0.044	<0.042	<0.186	<0.048	<0.096
NU02-TEN	11-04-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NU06-TEN	11-07-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NU09-TEN	11-14-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NU10-TEN	11-17-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NU11-TEN	10-31-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NU13-TEN	11-07-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NU16-TEN	11-14-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NU19-TEN	11-21-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NU22-TEN	11-17-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NU26-TEN	11-21-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NU27-TEN	11-20-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NU29-TEN	11-04-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NU30-TEN	11-06-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU01-TEN	11-05-97	<.124	<.056	E.042	<.042	<.044	<.042	E.019	E.17	E.040
OU02-TEN	11-10-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU04-TEN	11-05-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU05-TEN	11-13-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU06-TEN	11-17-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	.281	E.072
OU07-TEN	11-10-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU08-TEN	11-20-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU09-TEN	11-05-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU10-TEN	11-10-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU14-TEN	11-20-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU15-TEN	11-13-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU16-TEN	11-06-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU17-TEN	11-19-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	E.032	<.096
OU18-TEN	11-19-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU19-TEN	11-18-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
OU20-TEN	11-18-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096

Table 36. Concentrations of volatile organic compounds in samples collected from observation wells for the flow-path survey, Glassboro study area, N.J., 1997--Continued

Local identifier	Date	P-iso-propyltoluene	Methyl iodine	123-tri chloropropane	Ethane, 1112-tetrachloro	1,2-Dibromoethane	Freon-113	Methyl tert butyl ether	Acetone	Bromobenzene
NU01-TEN	11-04-97	<0.11	<0.076	<0.07	<0.044	<0.036	<0.032	<0.112	<4.90	<0.036
NU02-TEN	11-04-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NU06-TEN	11-07-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NU09-TEN	11-14-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NU10-TEN	11-17-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NU11-TEN	10-31-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NU13-TEN	11-07-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NU16-TEN	11-14-97	<.11	<.076	<.07	<.044	<.036	<.032	E.067	<4.90	<.036
NU19-TEN	11-21-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NU22-TEN	11-17-97	E.0099	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NU26-TEN	11-21-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NU27-TEN	11-20-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NU29-TEN	11-04-97	<.11	<.076	<.07	<.044	<.036	<.032	.393	<4.90	<.036
NU30-TEN	11-06-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	E6.96	<.036
OU01-TEN	11-05-97	<.11	<.076	<.07	<.044	<.036	<.032	8.49	<4.90	<.036
OU02-TEN	11-10-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
OU04-TEN	11-05-97	<.11	<.076	<.07	<.044	<.036	<.032	E.064	<4.90	<.036
OU05-TEN	11-13-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
OU06-TEN	11-17-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
OU07-TEN	11-10-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
OU08-TEN	11-20-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
OU09-TEN	11-05-97	<.11	<.076	<.07	<.044	<.036	<.032	.357	<4.90	<.036
OU10-TEN	11-10-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
OU14-TEN	11-20-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
OU15-TEN	11-13-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
OU16-TEN	11-06-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
OU17-TEN	11-19-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
OU18-TEN	11-19-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	E.0088
OU19-TEN	11-18-97	<.11	<.076	<.07	<.044	<.036	<.032	E.075	<4.90	<.036
OU20-TEN	11-18-97	<.11	<.076	<.07	<.044	<.036	<.032	.152	<4.90	<.036

Table 36. Concentrations of volatile organic compounds in samples collected from observation wells for the flow-path survey, Glassboro study area, N.J., 1997--Continued

Local identifier	Date	Ether ethyl	Di-iso-propylether,	Methyl-ethylketone	Furan, tetrahydro	Dibromo chloropropane	Meta/ paraxylene	Ethane 12DICL (surrogate) (percent recovery)	Toluene D8 (surrogate) (percent recovery)	Benzene 14BRFL (surrogate) (percent recovery)
NU01-TEN	11-04-97	<0.17	<0.098	<1.65	<1.38	<0.214	<0.064	112	89	70
NU02-TEN	11-04-97	<.17	<.098	<1.65	<1.36	<.214	<.064	111	88	64
NU06-TEN	11-07-97	<.17	<.098	<1.65	<1.36	<.214	<.064	104	88	71
NU09-TEN	11-14-97	<.17	<.098	<1.65	<1.15	<.214	<.064	102	86	69
NU10-TEN	11-17-97	<.17	<.098	<1.65	<1.15	<.214	<.064	113	101	83
NU11-TEN	10-31-97	<.17	<.098	<1.65	<1.16	<.214	<.064	100	96	100
NU13-TEN	11-07-97	<.17	<.098	<1.65	<1.15	<.214	<.064	106	85	67
NU16-TEN	11-14-97	<.17	<.098	<1.65	<1.15	<.214	<.064	104	88	74
NU19-TEN	11-21-97	<.17	<.098	<1.65	<1.15	<.214	<.064	105	97	81
NU22-TEN	11-17-97	<.17	<.098	<1.65	<1.15	<.214	<.064	109	100	87
NU26-TEN	11-21-97	<.17	<.098	<1.65	<1.15	<.214	<.064	104	99	80
NU27-TEN	11-20-97	<.17	<.098	<1.65	<1.15	<.214	<.064	105	102	82
NU29-TEN	11-04-97	<.17	<.098	<1.65	<1.23	<.214	<.064	110	89	69
NU30-TEN	11-06-97	<.17	<.098	5.33	<1.15	<.214	<.064	108	89	62
OU01-TEN	11-05-97	<.17	<.098	<1.65	E2.66	<.214	<.064	116	90	72
OU02-TEN	11-10-97	<.17	<.098	<1.65	<1.15	<.214	<.064	103	99	88
OU04-TEN	11-05-97	<.17	<.098	<1.65	<1.15	<.214	<.064	111	94	84
OU05-TEN	11-13-97	<.17	<.098	<1.65	<1.15	<.214	<.064	104	90	79
OU06-TEN	11-17-97	<.17	.485	<1.65	<1.15	<.214	<.064	103	99	85
OU07-TEN	11-10-97	<.17	<.098	<1.65	<1.15	<.214	<.064	104	98	83
OU08-TEN	11-20-97	<.17	<.098	<1.65	<1.15	<.214	<.064	106	97	83
OU09-TEN	11-05-97	<.17	<.098	<1.65	<1.15	<.214	<.064	111	88	67
OU10-TEN	11-10-97	<.17	<.098	<1.65	<1.15	<.214	<.064	102	98	87
OU14-TEN	11-20-97	<.17	<.098	<1.65	<1.15	<.214	<.064	107	99	83
OU15-TEN	11-13-97	<.17	<.098	<1.65	<1.15	<.214	<.064	104	87	68
OU16-TEN	11-06-97	<.17	<.098	<1.65	<1.48	<.214	<.064	108	88	62
OU17-TEN	11-19-97	<.17	<.098	<1.65	<1.15	<.214	<.064	107	100	85
OU18-TEN	11-19-97	<.17	<.098	<1.65	<1.15	<.214	<.064	100	95	109
OU19-TEN	11-18-97	<.17	<.098	<1.65	<1.15	<.214	<.064	98	96	104
OU20-TEN	11-18-97	<.17	<.098	<1.65	<1.15	<.214	<.064	97	98	93

Table 37. Concentrations of volatile organic compounds in samples collected from public-supply wells, Glassboro study area, N.J., 1998

[Data are included only for volatile organic compounds detected in one or more samples from one or more well networks. A complete listing of volatile organic compounds analyzed for in each sample is included in table 1; all concentrations are in micrograms per liter except as noted; <, less than; E, estimated concentration]

Local identifier	Date	Di-Bromomethane	Bromodi-chloromethane	Carbon Tetrachloride	1, 2-di-chloroethane	Bromoform	Chlorodi bromomethane	Chloroform	Toluene	Benzene
PS01	03-09-98	<0.05	<0.048	<0.088	<0.134	<0.104	<0.182	E0.07	<0.038	<0.032
PS02	02-03-98	E.014	.281	<.088	<.134	.720	.595	.443	<.038	E.02
PS03	02-03-98	<.05	.369	<.088	.299	.433	.588	.346	<.038	E.016
PS04	02-05-98	<.05	<.048	<.088	<.134	<.104	<.182	.338	<.038	.136
PS05	02-05-98	<.05	<.048	<.088	<.134	<.104	<.182	.101	<.038	<.032
PS06	02-05-98	<.05	<.048	<.088	<.134	<.104	<.182	.120	<.038	<.032
PS07	03-03-98	<.05	<.048	<.088	<.134	<.104	<.182	E.075	<.038	<.032
PS08	03-03-98	<.05	<.048	<.088	<.134	<.104	<.182	.189	<.038	<.032
PS09	03-04-98	<.05	<.048	<.088	.195	<.104	<.182	.761	<.038	<.032
PS10	03-04-98	<.05	<.048	<.088	<.134	<.104	<.182	E.027	<.038	<.032
PS11	03-05-98	<.05	<.048	<.088	<.134	<.104	<.182	.259	<.038	<.032
PS12	03-09-98	<.05	<.048	<.088	<.134	<.104	<.182	.324	<.038	<.032
PS13	03-05-98	<.05	<.048	<.088	<.134	<.104	<.182	.173	<.038	<.032
PS14	02-27-98	<.05	E.025	<.088	<.134	<.104	<.182	2.50	<.038	E.028
PS15	02-27-98	<.05	<.048	<.088	<.134	<.104	<.182	.116	<.038	<.032
PS16	02-26-98	<.05	<.048	<.088	<.134	<.104	<.182	.636	<.038	.212
PS17	02-26-98	<.05	<.048	<.088	<.134	<.104	<.182	E.087	<.038	<.032
PS18	03-11-98	<.05	<.048	<.088	<.134	<.104	<.182	1.36	<.038	<.032
PS19	03-11-98	<.05	<.048	<.088	<.134	<.104	<.182	.121	<.038	<.032
PS20	03-09-98	<.05	<.048	<.088	<.134	<.104	<.182	.522	<.038	<.032
PS21	11-30-98	<.05	<.048	E.014	<.13	<.1	<.18	.229	<.05	<.1
PS22	11-30-98	<.05	<.048	E.013	<.13	<.1	<.18	.102	<.05	<.1
PS23	11-30-98	<.05	<.048	<.088	<.13	<.1	<.18	E.07	<.05	<.1
PS24	12-10-98	<.05	<.048	E.025	<.13	<.1	<.18	.133	<.05	<.1
PS25	12-10-98	<.05	<.048	E.0099	<.13	<.1	<.18	.139	<.05	<.1
PS26	12-09-98	<.05	<.048	E.031	<.13	<.1	<.18	E.053	<.05	<.1
PS27	12-10-98	<.05	<.048	<.088	<.13	<.1	<.18	.258	<.05	<.1
PS28	11-20-98	<.05	<.048	<.088	<.13	<.1	<.18	E.086	<.05	<.1
PS29	11-20-98	<.05	<.048	<.088	<.13	<.1	<.18	E.086	<.05	<.1
PS30	12-09-98	<.05	<.048	<.088	<.13	<.1	<.18	E.089	<.05	<.1

Table 37. Concentrations of volatile organic compounds in samples collected from public-supply wells, Glassboro study area, N.J., 1998--Continued

Local identifier	Date	Chlorobenzene	Chloroethane	Ethylbenzene	Methyl-chloride	Methylene chloride	Tetrachloro-ethylene	Trichloro-fluoromethane	1, 1-di-chloroethane	1, 1-dichloro-ethylene
PS01	03-09-98	<0.028	<0.12	<0.03	<0.254	<0.382	0.116	<0.092	<0.066	0.722
PS02	02-03-98	E.014	<.12	<.03	<.254	<.382	.591	<.092	E.031	E.017
PS03	02-03-98	E.0067	<.12	<.03	<.254	<.382	.163	.104	E.028	E.0054
PS04	02-05-98	E.045	<.12	<.03	<.254	<.382	.684	<.092	E.037	E.026
PS05	02-05-98	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
PS06	02-05-98	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
PS07	03-03-98	<.028	<.12	<.03	<.254	<.382	.471	<.092	E.062	E.04
PS08	03-03-98	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
PS09	03-04-98	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
PS10	03-04-98	<.028	<.12	<.03	<.254	<.382	E.018	.665	E.018	E.064
PS11	03-05-98	<.028	<.12	<.03	<.254	<.382	.130	<.092	<.066	.163
PS12	03-09-98	<.028	<.12	<.03	<.254	<.382	E.048	.117	<.066	<.044
PS13	03-05-98	<.028	<.12	<.03	<.254	<.382	E.0056	<.092	<.066	E.02
PS14	02-27-98	E.021	<.12	<.03	<.254	<.382	.0981	<.092	.366	.114
PS15	02-27-98	<.028	<.12	<.03	<.254	<.382	E.059	<.092	.174	E.041
PS16	02-26-98	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
PS17	02-26-98	<.028	<.12	<.03	<.254	<.382	71	.305	<.066	<.044
PS18	03-11-98	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
PS19	03-11-98	<.028	<.12	<.03	<.254	<.382	E.02	E.025	<.066	E.011
PS20	03-09-98	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
PS21	11-30-98	<.028	<.12	<.03	<.25	<.38	.150	E.077	.563	.0975
PS22	11-30-98	<.028	<.12	<.03	<.25	<.38	.132	<.09	E.036	E.05
PS23	11-30-98	<.028	<.12	<.03	<.25	<.38	E.069	<.09	E.032	E.017
PS24	12-10-98	<.028	<.12	<.03	<.25	<.38	E.033	<.09	<.066	<.044
PS25	12-10-98	.128	<.12	<.03	<.25	<.38	.143	<.09	E.046	E.015
PS26	12-09-98	<.028	<.12	<.03	<.25	<.38	E.06	<.09	E.031	E.016
PS27	12-10-98	<.028	<.12	<.03	<.25	<.38	E.027	<.09	E.033	<.044
PS28	11-20-98	<.028	<.12	<.03	<.25	<.38	E.02	<.09	<.066	<.044
PS29	11-20-98	<.028	<.12	<.03	<.25	<.38	<.1	<.09	<.066	<.044
PS30	12-09-98	<.028	<.12	<.03	<.25	<.38	E.019	<.09	<.066	<.044

Table 37. Concentrations of volatile organic compounds in samples collected from public-supply wells, Glassboro study area, N.J., 1998--Continued

Local identifier	Date	1, 1, 1-tri-chloroethane	Benzene 0-dichloro	1, 2-di-chloropropane	Trans-1, 2-di-chloroethene	Benzene 1, 3-dichloro	Benzene 1, 4-dichloro	Dichlorodi-fluoromethane	Naphthalene	Vinyl chloride
PS01	03-09-98	1.13	<0.048	<0.068	<0.032	<0.054	<0.05	<0.096	<0.25	<0.112
PS02	02-03-98	E.032	E.0077	<.068	.180	<.054	E.044	<.096	<.25	<.112
PS03	02-03-98	E.019	E.0054	<.068	E.059	<.054	E.018	<.096	<.25	<.112
PS04	02-05-98	E.038	E.021	<.068	E.063	<.054	E.053	<.096	<.25	<.112
PS05	02-05-98	E.0048	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
PS06	02-05-98	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
PS07	03-03-98	E.049	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
PS08	03-03-98	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
PS09	03-04-98	E.025	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
PS10	03-04-98	.118	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
PS11	03-05-98	.587	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
PS12	03-09-98	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
PS13	03-05-98	E.077	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
PS14	02-27-98	.325	.729	<.068	<.032	.104	.178	<.096	<.25	<.112
PS15	02-27-98	E.09	.155	<.068	<.032	E.03	E.075	<.096	<.25	<.112
PS16	02-26-98	<.032	<.048	1.42	<.032	<.054	<.05	<.096	<.250	<.112
PS17	02-26-98	E.013	<.048	<.068	E.0038	<.054	E.011	<.096	<.25	<.112
PS18	03-11-98	<.032	<.048	E.076	<.032	<.054	<.05	<.096	<.25	<.112
PS19	03-11-98	E.029	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
PS20	03-09-98	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
PS21	11-30-98	.355	<.048	<.068	<.032	<.054	<.05	<.14	<.25	<.11
PS22	11-30-98	E.064	<.048	<.068	<.032	E.01	E.012	<.14	<.25	<.11
PS23	11-30-98	E.022	E.015	<.068	<.032	E.025	E.029	<.14	<.25	<.11
PS24	12-10-98	<.032	<.048	<.068	<.032	<.054	E.0077	<.14	<.25	<.11
PS25	12-10-98	E.06	E.025	<.068	<.032	<.054	E.052	<.14	<.25	E.054
PS26	12-09-98	E.0099	<.048	<.068	<.032	<.054	<.05	<.14	<.25	<.11
PS27	12-10-98	E.041	<.048	<.068	<.032	<.054	<.05	<.14	<.25	<.11
PS28	11-20-98	E.01	<.048	<.068	<.032	<.054	<.05	<.14	<.25	<.11
PS29	11-20-98	<.032	<.048	<.068	<.032	<.054	<.05	<.14	<.25	<.11
PS30	12-09-98	<.032	<.048	E.082	<.032	<.054	<.05	<.14	<.25	<.11

Table 37. Concentrations of volatile organic compounds in samples collected from public-supply wells, Glassboro study area, N.J., 1998--Continued

Local identifier	Date	Trichloro-ethylene	Prehnitene	Ethertert pentylmethyl	Carbon disulfide	Cis-1, 2-di-chloroethene	Styrene	O-xylene	1, 3-di-chloropropane	Toluene O-ethyl
PS01	03-09-98	E0.014	<0.23	<0.112	<0.08	E0.014	<0.042	<0.064	<0.116	<0.1
PS02	02-03-98	.209	<.23	<.112	<.08	11.1	<.042	<.064	<.116	<.1
PS03	02-03-98	E.055	<.23	<.112	<.08	2.81	<.042	E.0063	<.116	<.1
PS04	02-05-98	.225	<.23	<.112	<.08	12.1	<.042	<.064	<.116	<.1
PS05	02-05-98	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
PS06	02-05-98	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
PS07	03-03-98	.217	<.23	<.112	<.08	.393	<.042	<.064	<.116	<.1
PS08	03-03-98	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
PS09	03-04-98	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
PS10	03-04-98	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
PS11	03-05-98	.210	<.23	<.112	<.08	E.035	<.042	<.064	<.116	<.1
PS12	03-09-98	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
PS13	03-05-98	.278	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
PS14	02-27-98	E.053	<.23	<.112	<.08	E.0096	<.042	<.064	<.116	<.1
PS15	02-27-98	E.029	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
PS16	02-26-98	<.038	E.029	<.112	<.08	<.038	<.042	.204	E.056	.174
PS17	02-26-98	.200	<.23	<.112	<.08	.532	<.042	<.064	<.116	<.1
PS18	03-11-98	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
PS19	03-11-98	.946	<.23	<.112	<.08	.213	<.042	<.064	<.116	<.1
PS20	03-09-98	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
PS21	11-30-98	.190	<.23	<.11	<.37	E.0078	<.042	<.06	<.12	<.1
PS22	11-30-98	.158	<.23	<.11	<.37	E.031	<.042	<.06	<.12	<.1
PS23	11-30-98	E.079	<.23	<.11	<.37	E.029	<.042	<.06	<.12	<.1
PS24	12-10-98	8.74	<.23	<.11	<.37	.939	<.042	<.06	<.12	<.1
PS25	12-10-98	.116	<.23	<.11	<.37	1.76	<.042	<.06	<.12	<.1
PS26	12-09-98	2.54	<.23	<.11	<.37	E.036	<.042	<.06	<.12	<.1
PS27	12-10-98	<.038	<.23	<.11	<.37	<.038	<.042	<.06	<.12	<.1
PS28	11-20-98	<.038	<.23	<.11	<.37	<.038	<.042	<.06	<.12	<.1
PS29	11-20-98	<.038	<.23	<.11	<.37	<.038	<.042	<.06	<.12	<.1
PS30	12-09-98	<.038	<.23	<.11	<.37	<.038	<.042	<.06	<.12	<.1

Table 37. Concentrations of volatile organic compounds in samples collected from public-supply wells, Glassboro study area, N.J., 1998--Continued

Local identifier	Date	Benzene 123-trimethyl	Benzene 124-trimethyl	Isopropyl benzene	Benzene N-propy	Benzene 135-trimethyl	O-chlorotoluene	Benzene N-butyl	Benzene secbutyl	Benzene tertbutyl
PS01	03-09-98	<0.124	<0.056	<0.032	<0.042	<0.044	<0.042	<0.186	<0.048	<0.096
PS02	02-03-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS03	02-03-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS04	02-05-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS05	02-05-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS06	02-05-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS07	03-03-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS08	03-03-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS09	03-04-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS10	03-04-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS11	03-05-98	<.124	<.056	<.032	<.042	<.044	E.011	<.186	<.048	<.096
PS12	03-09-98	<.124	<.056	E.0096	<.042	<.044	<.042	<.186	<.048	<.096
PS13	03-05-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS14	02-27-98	<.124	<.056	<.032	<.042	<.044	2.73	<.186	<.048	<.096
PS15	02-27-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS16	02-26-98	.186	E.055	E.027	<.042	E.017	<.042	<.186	<.048	<.096
PS17	02-26-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS18	03-11-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS19	03-11-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS20	03-09-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS21	11-30-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
PS22	11-30-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
PS23	11-30-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
PS24	12-10-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
PS25	12-10-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
PS26	12-09-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
PS27	12-10-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
PS28	11-20-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
PS29	11-20-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
PS30	12-09-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1

Table 37. Concentrations of volatile organic compounds in samples collected from public-supply wells, Glassboro study area, N.J., 1998--Continued

Local identifier	Date	P-iso-propyltoluene	Methyl iodide	123-tri chloropropane	Ethane, 1112-tetrachloro	1, 2-dibromoethane	Freon-113	Methyl tert-butyl ether	Acetone	Bromobenzene
PS01	03-09-98	<0.11	<0.076	<0.07	<0.044	<0.036	<0.032	<0.112	<4.90	<0.036
PS02	02-03-98	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
PS03	02-03-98	<.11	<.076	<.07	<.044	E.01	<.032	E.07	<4.90	<.036
PS04	02-05-98	<.11	<.076	<.07	<.044	<.036	<.032	E.079	<4.90	<.036
PS05	02-05-98	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
PS06	02-05-98	<.11	<.076	<.07	<.044	<.036	<.032	.422	<4.90	<.036
PS07	03-03-98	<.11	<.076	<.07	<.044	E.066	<.032	.685	<4.90	<.036
PS08	03-03-98	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
PS09	03-04-98	<.11	<.076	<.07	<.044	E.029	<.032	<.112	<4.90	<.036
PS10	03-04-98	<.11	<.076	<.07	<.044	E.024	<.032	<.112	<4.90	<.036
PS11	03-05-98	<.11	<.076	<.07	<.044	<.036	<.032	.450	<4.90	<.036
PS12	03-09-98	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
PS13	03-05-98	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
PS14	02-27-98	<.11	<.076	<.07	<.044	<.036	<.032	.289	<4.90	<.036
PS15	02-27-98	<.11	<.076	<.07	<.044	<.036	<.032	E.06	<4.90	<.036
PS16	02-26-98	<.11	<.076	.164	<.044	<.036	<.032	<.112	<4.90	<.036
PS17	02-26-98	<.11	<.076	<.07	E.011	<.036	<.032	E.057	<4.90	<.036
PS18	03-11-98	<.11	<.076	<.07	<.044	<.036	<.032	.245	<4.90	<.036
PS19	03-11-98	<.11	<.076	<.07	<.044	<.036	<.032	.638	<4.90	<.036
PS20	03-09-98	<.11	<.076	<.07	<.044	<.036	<.032	E.056	<4.90	<.036
PS21	11-30-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036
PS22	11-30-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036
PS23	11-30-98	<.11	<.21	<.16	<.044	<.036	<.032	E.13	<5	<.036
PS24	12-10-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036
PS25	12-10-98	<.11	<.21	<.16	<.044	<.036	<.032	1.41	<5	<.036
PS26	12-09-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036
PS27	12-10-98	<.11	<.21	<.16	<.044	<.036	<.032	.988	<5	<.036
PS28	11-20-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036
PS29	11-20-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036
PS30	12-09-98	<.11	<.21	<.16	<.044	<.036	<.032	.822	<5	<.036

Table 37. Concentrations of volatile organic compounds in samples collected from public-supply wells, Glassboro study area, N.J., 1998--Continued

Local identifier	Date	Ether ethyl	Di-iso-propylether,	Methyl-ethylketone	Furan, tetrahydro	Dibromo chloropropane	Meta-paraxylene	Ethane 12DICL (surrogate) (percent recovery)	Toluene D8 (surrogate) (percent recovery)	Benzene 14BRFL (surrogate) (percent recovery)
PS01	03-09-98	<0.17	<0.098	<1.65	<1.15	<0.214	<0.064	124	97	96
PS02	02-03-98	<.17	<.098	<1.65	<1.15	<.214	<.064	98	98	91
PS03	02-03-98	<.17	<.098	<1.65	<1.15	<.214	<.064	96	98	90
PS04	02-05-98	<.17	<.098	<1.65	<1.15	<.214	<.064	101	102	91
PS05	02-05-98	<.17	<.098	<1.65	<1.15	<.214	<.064	99	102	93
PS06	02-05-98	<.17	<.098	<1.65	<1.15	<.214	<.064	98	101	90
PS07	03-03-98	<.17	<.098	<1.65	<1.15	<.214	<.064	121	97	93
PS08	03-03-98	<.17	<.098	<1.65	<1.15	<.214	<.064	120	97	86
PS09	03-04-98	<.17	<.098	<1.65	<1.15	<.214	<.064	124	101	106
PS10	03-04-98	<.17	<.098	<1.65	<1.15	<.214	<.064	126	99	92
PS11	03-05-98	<.17	<.098	<1.65	<1.15	<.214	<.064	128	102	96
PS12	03-09-98	<.17	<.098	<1.65	<1.15	<.214	<.064	123	96	94
PS13	03-05-98	<.17	<.098	<1.65	<1.15	<.214	<.064	131	102	93
PS14	02-27-98	<.17	<.098	<1.65	<1.15	<.214	<.064	123	99	91
PS15	02-27-98	<.17	<.098	<1.65	<1.15	<.214	<.064	121	96	87
PS16	02-26-98	<.17	<.098	<1.65	<1.15	<.214	E.037	119	96	88
PS17	02-26-98	<.17	<.098	<1.65	<1.15	<.214	<.064	121	96	88
PS18	03-11-98	<.17	<.098	<1.65	<1.15	<.214	<.064	126	96	94
PS19	03-11-98	<.17	<.098	<1.65	<1.15	<.214	<.064	120	97	89
PS20	03-09-98	<.17	<.098	<1.65	<1.15	<.214	<.064	120	95	87
PS21	11-30-98	<.17	<.098	<1.6	<9	<.21	<.06	127	103	107
PS22	11-30-98	<.17	.172	<1.6	<9	<.21	<.06	125	103	107
PS23	11-30-98	<.17	<.098	<1.6	<9	<.21	<.06	128	103	108
PS24	12-10-98	<.17	<.098	<1.6	<9	<.21	<.06	111	101	101
PS25	12-10-98	.814	<.098	<1.6	<9	<.21	<.06	110	100	100
PS26	12-09-98	<.17	<.098	<1.6	<9	<.21	<.06	105	99	98
PS27	12-10-98	<.17	<.098	<1.6	<9	<.21	<.06	113	102	101
PS28	11-20-98	<.17	<.098	<1.6	<9	<.21	<.06	110	98	102
PS29	11-20-98	<.17	<.098	<1.6	<9	<.21	<.06	107	98	102
PS30	12-09-98	<.17	<.098	<1.6	<9	<.21	<.06	105	99	98

Table 38. Concentrations of volatile organic compounds in samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998

[Data are included only for volatile organic compounds detected in one or more samples from one or more well networks. A complete listing of volatile organic compounds analyzed for in each sample is included in table 1; all concentrations are in micrograms per liter except as noted; <, less than; E, estimated concentration]

Local identifier	Date	Di-bromomethane	Bromo-di-chloromethane	Carbon tetra-chloride	1, 2-di-chloroethane	Bromoform	Chloro-dibromo-methane	Chloroform	Toluene	Benzene
CP01	07-15-98	<0.05	<0.048	<0.088	<0.134	<0.104	<0.182	0.164	<0.054	<0.1
CP02	07-14-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
CP03	07-16-98	<.05	<.048	<.088	<.134	<.104	<.182	2.56	<.054	<.1
CP04	07-15-98	<.05	<.048	<.088	<.134	<.104	<.182	.510	<.054	<.1
CP05	07-22-98	<.05	<.048	<.088	<.134	<.104	<.182	3.81	<.054	<.1
CP06	09-02-98	<.05	<.048	<.088	<.134	<.104	<.182	.274	<.054	<.1
CP07	07-20-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
CP08	07-22-98	<.05	<.048	<.088	<.134	<.104	<.182	5.04	<.054	<.1
CP09	07-28-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
CP10	07-21-98	<.05	<.048	<.088	<.134	<.104	<.182	.246	<.054	<.1
CP11	07-27-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
CP12	07-28-98	<.05	<.048	<.088	<.134	<.104	<.182	.721	<.054	.926
CP13	07-29-98	<.05	<.048	<.088	<.134	<.104	<.182	.127	E.0066	<.1
CP14	08-03-98	<.05	<.048	<.088	<.134	<.104	<.182	.651	<.054	<.1
CP15	08-25-98	<.05	<.048	<.088	<.134	<.104	<.182	3.33	<.054	<.1
CP16	09-03-98	<.05	<.048	<.088	<.134	<.104	<.182	.161	E.014	<.1
CP17	08-27-98	<.05	<.048	<.088	<.134	<.104	<.182	E.019	<.054	<.1
CP18	08-25-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
CP19	09-02-98	<.05	<.048	<.088	<.134	<.104	<.182	.179	<.054	<.1
CP20	09-03-98	<.05	<.048	<.088	<.134	<.104	<.182	1.98	<.054	<.1
CP21	09-09-98	<.05	<.048	<.088	<.134	<.104	<.182	1.96	<.054	<.1
CP22	09-10-98	<.05	<.048	<.088	<.134	<.104	<.182	.606	<.054	<.1
CP23	09-09-98	<.05	<.048	<.088	.205	<.104	<.182	E.061	<.054	<.1
CP24	09-16-98	<.05	<.048	<.088	<.13	<.1	<.18	2.60	<.05	<.1
CP25	09-23-98	<.05	<.048	<.088	<.13	<.1	<.18	.288	<.05	<.1
CP26	09-23-98	<.05	<.048	<.088	<.13	<.1	<.18	1.11	<.05	<.1
CP27	09-22-98	<.05	<.048	<.088	<.13	<.1	<.18	<.052	<.05	<.1
CP28	10-14-98	<.05	<.048	<.088	<.13	<.1	<.18	<.052	<.05	<.1
CP29	11-04-98	<.05	<.048	<.088	<.13	<.1	<.18	.165	<.05	<.1
CP30	11-12-98	<.05	<.048	<.088	<.13	<.1	<.18	E.048	<.05	<.1

Table 38. Concentrations of volatile organic compounds in samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998--Continued

Local identifier	Date	Chlorobenzene	Chloroethane	Ethylbenzene	Methylchloride	Methylene chloride	Tetra-chloroethylene	Trichloro-fluoromethane	1, 1-Di-chloroethane	1, 1-Di-chloroene
CP01	07-15-98	<0.028	<0.12	<0.03	<0.254	<0.382	0.126	<0.092	<0.066	E0.019
CP02	07-14-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP03	07-16-98	<.028	<.12	<.03	<.254	<.382	E.029	<.092	<.066	<.044
CP04	07-15-98	<.028	<.12	<.03	<.254	<.382	.598	<.092	E.061	E.031
CP05	07-22-98	<.028	<.12	<.03	<.254	<.382	E.025	<.092	E.021	E.006
CP06	09-02-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP07	07-20-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP08	07-22-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP09	07-28-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP10	07-21-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP11	07-27-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP12	07-28-98	3.51	.689	.103	<.254	.674	E.027	<.092	.416	<.044
CP13	07-29-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP14	08-03-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP15	08-25-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP16	09-03-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP17	08-27-98	<.028	<.12	<.03	<.254	<.382	E.005	<.092	<.066	<.044
CP18	08-25-98	E.006	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP19	09-02-98	<.028	<.12	<.03	<.254	<.382	E.063	<.092	E.027	E.009
CP20	09-03-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP21	09-09-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP22	09-10-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP23	09-09-98	<.028	<.12	<.03	<.254	<.382	E.024	<.092	.137	E.021
CP24	09-16-98	<.028	<.12	<.03	<.25	<.38	<.1	<.09	<.066	<.044
CP25	09-23-98	<.028	<.12	<.03	<.25	<.38	E.016	<.09	<.066	<.044
CP26	09-23-98	<.028	<.12	<.03	<.25	<.38	<.1	<.09	<.066	<.044
CP27	09-22-98	<.028	<.12	<.03	<.25	<.38	<.1	<.09	<.066	<.044
CP28	10-14-98	<.028	<.12	<.03	<.25	<.38	<.1	<.09	<.066	<.044
CP29	11-04-98	<.028	<.12	<.03	<.25	<.38	<.1	<.09	<.066	<.044
CP30	11-12-98	<.028	<.12	<.03	<.25	<.38	<.1	<.09	<.066	<.044

Table 38. Concentrations of volatile organic compounds in samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998--Continued

Local identifier	Date	1,1, 1-Tri-chloroethane	Benzene O-dichloro	1, 2-Di-chloropropane	Trans-1, 2-di-chloroethene	Benzene 1, 3-dichloro	Benzene 1, 4-dichloro	Di-chlorodi-fluoromethane	Naphthalene	Vinyl chloride
CP01	07-15-98	0.135	<0.048	<0.068	<0.032	<0.054	<0.05	<0.138	<0.25	<0.112
CP02	07-14-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP03	07-16-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP04	07-15-98	.206	<.048	<.068	<.032	<.054	E.015	<.138	<.25	<.112
CP05	07-22-98	E.038	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP06	09-02-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP07	07-20-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP08	07-22-98	E.029	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP09	07-28-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP10	07-21-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP11	07-27-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP12	07-28-98	<.032	.143	E.073	<.032	E.044	1.15	E.71	2.47	.386
CP13	07-29-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP14	08-03-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP15	08-25-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP16	09-03-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP17	08-27-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP18	08-25-98	<.032	<.048	E.015	<.032	<.054	<.05	<.138	<.25	<.112
CP19	09-02-98	E.032	<.048	<.068	<.032	E.012	E.011	<.138	<.25	<.112
CP20	09-03-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP21	09-09-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP22	09-10-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP23	09-09-98	E.036	<.048	<.068	<.032	E.007	.146	<.138	<.25	<.112
CP24	09-16-98	<.032	<.048	<.068	<.032	<.054	<.05	<.14	<.25	<.11
CP25	09-23-98	<.032	<.048	<.068	<.032	<.054	<.05	<.14	<.25	<.11
CP26	09-23-98	<.032	<.048	<.068	<.032	<.054	<.05	<.14	<.25	<.11
CP27	09-22-98	<.032	<.048	<.068	<.032	<.054	<.05	<.14	<.25	<.11
CP28	10-14-98	<.032	<.048	<.068	<.032	<.054	<.05	<.14	<.25	<.11
CP29	11-04-98	<.032	<.048	<.068	<.032	<.054	<.05	E.052	<.25	<.11
CP30	11-12-98	<.032	<.048	<.068	<.032	<.054	<.05	<.14	<.25	<.11

Table 38. Concentrations of volatile organic compounds in samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998--Continued

Local identifier	Date	Trichloro-ethylene	Prehnitene	Ether-tert-pentylmethyl	Carbon disulfide	Cis-1, 2-di-chloroethene	Styrene	O-xylene	1, 3-di-chloropropane	Toluene O-ethyl
CP01	07-15-98	<0.038	<0.23	<0.112	<0.37	<0.038	<0.042	<0.064	<0.116	<0.1
CP02	07-14-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP03	07-16-98	E.014	<.23	<.112	<.37	E.0095	<.042	<.064	<.116	<.1
CP04	07-15-98	E.0068	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP05	07-22-98	E.015	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP06	09-02-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP07	07-20-98	<.038	<.23	<.112	E.019	<.038	<.042	<.064	<.116	<.1
CP08	07-22-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP09	07-28-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP10	07-21-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP11	07-27-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP12	07-28-98	E.09	.252	<.112	<.37	2.99	<.042	.0956	<.116	.255
CP13	07-29-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP14	08-03-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP15	08-25-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP16	09-03-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP17	08-27-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP18	08-25-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP19	09-02-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP20	09-03-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP21	09-09-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP22	09-10-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP23	09-09-98	.106	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP24	09-16-98	<.038	<.23	<.11	<.37	<.038	<.042	<.06	<.12	<.1
CP25	09-23-98	<.038	<.23	<.11	<.37	<.038	<.042	<.06	<.12	<.1
CP26	09-23-98	<.038	<.23	<.11	<.37	<.038	<.042	<.06	<.12	<.1
CP27	09-22-98	<.038	<.23	<.11	<.37	<.038	<.042	<.06	<.12	<.1
CP28	10-14-98	<.038	<.23	<.11	<.37	<.038	<.042	<.06	<.12	<.1
CP29	11-04-98	<.038	<.23	<.11	<.37	<.038	<.042	<.06	<.12	<.1
CP30	11-12-98	<.038	<.23	<.11	<.37	<.038	<.042	<.06	<.12	<.1

Table 38. Concentrations of volatile organic compounds in samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998--Continued

Local identifier	Date	Benzene 123-trimethyl	Benzene 124-trimethyl	Isopropyl benzene	Benzene N-propy	Benzene 135-trimethyl	0-chlorotoluene	Benzene N-butyl	Benzene sec butyl	Benzene tert-butyl
CP01	07-15-98	<0.124	<0.056	<0.032	<0.042	<0.044	<0.042	<0.186	<0.048	<0.096
CP02	07-14-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP03	07-16-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP04	07-15-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP05	07-22-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP06	09-02-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP07	07-20-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP08	07-22-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP09	07-28-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP10	07-21-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP11	07-27-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP12	07-28-98	<.124	E.056	.389	E.074	E.051	<.042	E.036	<.048	<.096
CP13	07-29-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP14	08-03-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP15	08-25-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP16	09-03-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP17	08-27-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP18	08-25-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP19	09-02-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP20	09-03-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP21	09-09-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP22	09-10-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP23	09-09-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP24	09-16-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
CP25	09-23-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
CP26	09-23-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
CP27	09-22-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
CP28	10-14-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
CP29	11-04-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
CP30	11-12-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1

Table 38. Concentrations of volatile organic compounds in samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998--Continued

Local identifier	Date	P-iso-propyltoluene	Methyl iodine	123-Tri chloropropane	Ethane,1112-tetrachloro	1, 2-Dibromo ethane	Freon-113	Methyl tert-butyl ether	Acetone	Bromo-benzene
CP01	07-15-98	<0.11	<0.208	<0.162	<0.044	<0.036	<0.032	<0.166	<4.90	<0.036
CP02	07-14-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP03	07-16-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP04	07-15-98	<.11	<.208	<.162	<.044	<.036	<.032	E.071	<4.90	<.036
CP05	07-22-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP06	09-02-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP07	07-20-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP08	07-22-98	<.11	<.208	<.162	<.044	<.036	<.032	E.15	<4.90	<.036
CP09	07-28-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP10	07-21-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP11	07-27-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP12	07-28-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP13	07-29-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP14	08-03-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP15	08-25-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP16	09-03-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP17	08-27-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP18	08-25-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP19	09-02-98	<.11	<.208	<.162	<.044	<.036	<.032	.186	<4.90	<.036
CP20	09-03-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP21	09-09-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP22	09-10-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP23	09-09-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP24	09-16-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036
CP25	09-23-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036
CP26	09-23-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036
CP27	09-22-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036
CP28	10-14-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036
CP29	11-04-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036
CP30	11-12-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036

Table 38. Concentrations of volatile organic compounds in samples collected from domestic wells in the Coastal Plain Physiographic Province, N.J., 1998--Continued

Local identifier	Date	Ether ethyl	Di-iso-propylether	Methyl-ethylketone	Furan, tetrahydro	Dibromo chloropropane	Meta/ paraxylene	Ethane 12DICL (surrogate) (percent recovery)	Toluene D8 (surrogate) (percent recovery)	Benzene 14BRFL (surrogate) (percent recovery)
CP01	07-15-98	<0.17	<0.098	<1.65	<8.79	<0.214	<0.064	81	105	80
CP02	07-14-98	<.17	<.098	<1.65	<8.79	.481	<.064	100	97	84
CP03	07-16-98	<.17	<.098	<1.65	<8.79	<.214	<.064	79	108	87
CP04	07-15-98	<.17	<.098	<1.65	<8.79	<.214	<.064	81	104	79
CP05	07-22-98	<.17	<.098	<1.65	<8.79	<.214	<.064	99	96	76
CP06	09-02-98	<.17	<.098	<1.65	<8.79	<.214	<.064	99	100	103
CP07	07-20-98	<.17	<.098	<1.65	<8.79	<.214	<.064	97	95	75
CP08	07-22-98	<.17	<.098	<1.65	<8.79	<.214	<.064	100	96	75
CP09	07-28-98	<.17	<.098	<1.65	<8.79	<.214	<.064	121	99	92
CP10	07-21-98	<.17	<.098	<1.65	<8.79	<.214	<.064	96	100	76
CP11	07-27-98	<.17	<.098	<1.65	<8.79	<.214	<.064	130	100	90
CP12	07-28-98	3.94	.116	<1.65	7.97	<.214	E.14	129	101	102
CP13	07-29-98	<.17	<.098	<1.65	<8.79	<.214	<.064	114	100	91
CP14	08-03-98	<.17	<.098	<1.65	<8.79	<.214	<.064	97	99	79
CP15	08-25-98	<.17	<.098	<1.65	<8.79	<.214	<.064	96	100	98
CP16	09-03-98	<.17	<.098	<1.65	<8.79	<.214	<.064	120	98	93
CP17	08-27-98	<.17	<.098	<1.65	<8.79	<.214	<.064	99	101	102
CP18	08-25-98	<.17	<.098	<1.65	<8.79	<.214	<.064	93	100	97
CP19	09-02-98	<.17	<.098	<1.65	<8.79	<.214	<.064	98	100	102
CP20	09-03-98	<.17	<.098	<1.65	<8.79	<.214	<.064	119	99	91
CP21	09-09-98	<.17	<.098	<1.65	<8.79	<.214	<.064	98	100	98
CP22	09-10-98	<.17	<.098	<1.65	<8.79	<.214	<.064	95	100	98
CP23	09-09-98	<.17	<.098	<1.65	<8.79	<.214	<.064	95	99	98
CP24	09-16-98	<.17	<.098	<1.6	<9	<.21	<.06	97	99	99
CP25	09-23-98	<.17	<.098	<1.6	<9	<.21	<.06	102	102	100
CP26	09-23-98	<.17	<.098	<1.6	<9	<.21	<.06	102	100	99
CP27	09-22-98	<.17	<.098	<1.6	<9	<.21	<.06	100	102	99
CP28	10-14-98	<.17	<.098	<1.6	<9	<.21	<.06	107	99	96
CP29	11-04-98	<.17	<.098	<1.6	<9	<.21	<.06	138	105	110
CP30	11-12-98	<.17	<.098	<1.6	<9	<.21	<.06	94	96	96

Table 39. Concentrations of volatile organic compounds in samples collected from domestic wells in the Piedmont Physiographic Province, N.J., 1998

[Data are included only for volatile organic compounds detected in one or more samples from one or more well networks. A complete listing of volatile organic compounds analyzed for in each sample is included in table 1; all concentrations are in micrograms per liter except as noted; <, less than; E, estimated concentration]

Local identifier	Date	Dibromo-methane	Bromodi-chloromethane	Carbontetra-chloride	1, 2-di-chloroethane	Bromoform	Chlorodi-bromomethane	Chloroform	Toluene	Benzene
PD01	07-13-98	<0.05	<0.048	<0.088	<0.134	<0.104	<0.182	<0.052	<0.054	<0.1
PD02	07-15-98	<.05	<.048	<.088	<.134	<.104	<.182	E.066	E.068	<.1
PD03	07-30-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
PD04	07-10-98	<.05	<.048	<.088	<.134	<.104	<.182	E.074	E.033	<.1
PD05	07-17-98	<.05	<.048	<.088	<.134	<.104	<.182	E.022	<.054	<.1
PD06	07-17-98	<.05	E.03	<.088	<.134	<.104	<.182	13.5	E.024	<.1
PD07	07-28-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	E.069	<.1
PD08	07-08-98	<.05	<.048	<.088	<.134	<.104	<.182	E.016	<.054	<.1
PD09	07-29-98	<.05	<.048	<.088	<.134	<.104	<.182	E.011	<.054	<.1
PD10	07-09-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
PD11	07-16-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
PD12	07-10-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
PD13	07-23-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
PD14	07-09-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	E.021	<.1
PD15	07-28-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
PD16	07-15-98	<.05	<.048	<.088	<.134	<.104	<.182	E.028	<.054	<.1
PD17	07-29-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	E.053	<.1
PD18	07-14-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
PD19	07-16-98	<.05	<.048	.123	<.134	<.104	<.182	.221	<.054	<.1
PD20	08-17-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
PD21	08-21-98	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054	<.1
PD22	08-14-98	<.05	<.048	<.088	<.134	<.104	<.182	E.027	E.031	<.1

Table 39. Concentrations of volatile organic compounds in samples collected from domestic wells in the Piedmont Physiographic Province, N.J., 1998--Continued

Local identifier	Date	Chlorobenzene	Chloroethane	Ethylbenzene	Methyl-chloride	Methylene chloride	Tetrachloro-fluoromethane	Trichloro-fluoromethane	1, 1-di-chloroethane	Tetrachloro-fluoromethane
PD01	07-13-98	<0.028	<0.12	<0.03	<0.254	<0.382	<0.102	<0.092	<0.066	<0.044
PD02	07-15-98	<.028	<.12	<.03	<.254	<.382	E.026	<.092	E.088	E.023
PD03	07-30-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD04	07-10-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD05	07-17-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD06	07-17-98	<.028	<.12	<.03	<.254	<.382	E.013	<.092	<.066	<.044
PD07	07-28-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD08	07-08-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD09	07-29-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD10	07-09-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD11	07-16-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD12	07-10-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD13	07-23-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD14	07-09-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD15	07-28-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD16	07-15-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD17	07-29-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD18	07-14-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD19	07-16-98	<.028	<.12	<.03	<.254	E.41	.390	<.092	<.066	<.044
PD20	08-17-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
PD21	08-21-98	<.028	<.12	<.03	<.254	<.382	E.003	<.092	<.066	<.044
PD22	08-14-98	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044

Table 39. Concentrations of volatile organic compounds in samples collected from domestic wells in the Piedmont Physiographic Province, N.J., 1998--Continued

Local identifier	Date	1, 1, 1-Tri-chloroethane	Benzene 0-dichloro-	1, 2-di-chloropropane	Trans-1, 2-di-chloroethene	Benzene 1, 3-dichloro-	Benzene 1, 4-dichloro	Dichlorodi-fluoromethane	Napthalene	Vinyl chloride
PD01	07-13-98	<0.032	<0.048	<0.068	<0.032	<0.054	<0.05	<0.138	<0.25	<0.112
PD02	07-15-98	E.033	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD03	07-30-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD04	07-10-98	E.078	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD05	07-17-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD06	07-17-98	E.033	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD07	07-28-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD08	07-08-98	<.032	<.048	<.068	<.032	<.054	<.05	E.16	<.25	<.112
PD09	07-29-98	<.032	<.048	<.068	<.032	<.054	<.05	E.029	<.25	<.112
PD10	07-09-98	<.032	<.048	<.068	<.032	<.054	<.05	E.95	<.25	<.112
PD11	07-16-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD12	07-10-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD13	07-23-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD14	07-09-98	<.032	<.048	<.068	<.032	<.054	<.05	E.27	<.25	<.112
PD15	07-28-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD16	07-15-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD17	07-29-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD18	07-14-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD19	07-16-98	.883	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD20	08-17-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD21	08-21-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
PD22	08-14-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112

Table 39. Concentrations of volatile organic compounds in samples collected from domestic wells in the Piedmont Physiographic Province, N.J., 1998--Continued

Local identifier	Date	Trichloro-ethylene	Prehnitene	Ether tert-pentyl methyl	Carbon disulfide	Cis-1, 2-di-chloroethene	Styrene	0-xylene	1, 3-di-chloropropane	Toluene-0-ethyl
PD01	07-13-98	<0.038	<0.23	<0.112	<0.37	<0.038	<0.042	<0.064	<0.116	<0.1
PD02	07-15-98	.874	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD03	07-30-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD04	07-10-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD05	07-17-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD06	07-17-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD07	07-28-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD08	07-08-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD09	07-29-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD10	07-09-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD11	07-16-98	14.3	<.23	<.112	.216	<.038	<.042	<.064	<.116	<.1
PD12	07-10-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD13	07-23-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD14	07-09-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD15	07-28-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD16	07-15-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD17	07-29-98	<.038	<.23	<.112	E.033	<.038	<.042	<.064	<.116	<.1
PD18	07-14-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD19	07-16-98	1.13	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD20	08-17-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
PD21	08-21-98	E.02	<.23	<.112	E.033	<.038	<.042	<.064	<.116	<.1
PD22	08-14-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1

Table 39. Concentrations of volatile organic compounds in samples collected from domestic wells in the Piedmont Physiographic Province, N.J., 1998--Continued

Local identifier	Date	Benzene 123-trimethyl-	Benzene 124-trimethyl	Isopropyl-benzene	Benzene N-propy	Benzene 135-trimethyl	O-chloro-toluene	Benzene N-butyl	Benzene secbutyl	Benzene tertbutyl
PD01	07-13-98	<0.124	<0.056	<0.032	<0.042	<0.044	<0.042	<0.186	<0.048	<0.096
PD02	07-15-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD03	07-30-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD04	07-10-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD05	07-17-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD06	07-17-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD07	07-28-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD08	07-08-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD09	07-29-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD10	07-09-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD11	07-16-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD12	07-10-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD13	07-23-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD14	07-09-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD15	07-28-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD16	07-15-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD17	07-29-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD18	07-14-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD19	07-16-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD20	08-17-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD21	08-21-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PD22	08-14-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096

Table 39. Concentrations of volatile organic compounds in samples collected from domestic wells in the Piedmont Physiographic Province, N.J., 1998--Continued

Local identifier	Date	P-isopropyl-toluene	Methyl iodide	123-Tri chloropropane	Ethane, 1112-tetrachloro	1, 2-Dibromoethane	Freon-113	Methyl tert-butyl ether	Acetone	Bromobenzene
PD01	07-13-98	<0.11	<0.208	<0.162	<0.044	<0.036	<0.032	<0.166	<4.90	<0.036
PD02	07-15-98	<.11	<.208	<.162	<.044	<.036	<.032	.128	<4.90	<.036
PD03	07-30-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
PD04	07-10-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
PD05	07-17-98	<.11	<.208	<.162	<.044	<.036	<.032	.287	<4.90	<.036
PD06	07-17-98	<.11	E.13	<.162	<.044	<.036	<.032	.136	E6.88	<.036
PD07	07-28-98	<.11	<.208	<.162	<.044	<.036	<.032	E.1	<4.90	<.036
PD08	07-08-98	<.11	<.208	<.162	<.044	<.036	<.032	.124	<4.90	<.036
PD09	07-29-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
PD10	07-09-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
PD11	07-16-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
PD12	07-10-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
PD13	07-23-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
PD14	07-09-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
PD15	07-28-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
PD16	07-15-98	<.11	<.208	<.162	<.044	<.036	<.032	.333	<4.90	<.036
PD17	07-29-98	<.11	<.208	<.162	<.044	<.036	<.032	E.12	<4.90	<.036
PD18	07-14-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
PD19	07-16-98	<.11	<.208	<.162	<.044	<.036	<.032	E.054	<4.90	<.036
PD20	08-17-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
PD21	08-21-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
PD22	08-14-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036

Table 39. Concentrations of volatile organic compounds in samples collected from domestic wells in the Piedmont Physiographic Province, N.J., 1998--Continued

Local identifier	Date	Ether ethyl	Di-iso-propylether	Methyl-ethylketone	Furan, tetrahydro	Dibromo chloropropane	Meta-para-xylene	Ethane 12DICL (surrogate) (percent recovery)	Toluene D8 (surrogate) (percent recovery)	Benzene 14BRFL (surrogate) (percent recovery)
PD01	07-13-98	<0.17	<0.098	<1.65	<8.79	<0.214	<0.064	106	100	84
PD02	07-15-98	<.17	<.098	<1.65	<8.79	<.214	E.019	82	101	73
PD03	07-30-98	<.17	<.098	<1.65	<8.79	<.214	<.064	96	97	78
PD04	07-10-98	<.17	<.098	<1.65	<8.79	<.214	<.064	106	98	84
PD05	07-17-98	<.17	<.098	<1.65	<8.79	<.214	<.064	83	97	79
PD06	07-17-98	<.17	<.098	3.38	<8.79	<.214	<.064	81	98	73
PD07	07-28-98	<.17	<.098	<1.65	<8.79	<.214	<.064	96	97	78
PD08	07-08-98	<.17	<.098	<1.65	<8.79	<.214	<.064	103	103	94
PD09	07-29-98	<.17	<.098	<1.65	<8.79	<.214	<.064	130	99	93
PD10	07-09-98	<.17	<.098	<1.65	<8.79	<.214	<.064	102	96	83
PD11	07-16-98	<.17	<.098	<1.65	<8.79	<.214	<.064	85	100	81
PD12	07-10-98	<.17	<.098	<1.65	<8.79	<.214	<.064	105	98	85
PD13	07-23-98	<.17	<.098	<1.65	<8.79	<.214	<.064	99	98	79
PD14	07-09-98	<.17	<.098	<1.65	<8.79	<.214	<.064	102	95	86
PD15	07-28-98	<.17	<.098	<1.65	<8.79	<.214	<.064	129	101	91
PD16	07-15-98	<.17	<.098	<1.65	<8.79	<.214	<.064	82	102	76
PD17	07-29-98	<.17	<.098	<1.65	<8.79	<.214	<.064	99	99	80
PD18	07-14-98	<.17	<.098	<1.65	<8.79	<.500	<.064	102	98	85
PD19	07-16-98	<.17	<.098	<1.65	<8.79	<.214	<.064	83	98	83
PD20	08-17-98	<.17	<.098	<1.65	<8.79	<.214	<.064	111	100	96
PD21	08-21-98	<.17	<.098	<1.65	<8.79	<.214	<.064	95	99	99
PD22	08-14-98	<.17	<.098	<1.65	<8.79	<.214	<.064	112	100	98

Table 40. Concentrations of volatile organic compounds in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997

[Data are included only for volatile organic compounds detected in one or more samples from one or more well networks. A complete listing of volatile organic compounds analyzed for in each sample is included in table 1; <, less than; E, estimated concentration; all concentrations are in micrograms per liter except as noted; *, wells are located in New York State]

Local identifier	Date	Dibromo methane	Bromodichloro-methane	Carbon Tetrachloride	1, 2-Dichloro-ethane	Bromoform	Chlorodi-bromomethane	Chloroform	Toluene	Benzene
NE01	09-17-97	<0.05	<0.048	<0.088	<0.134	<0.104	<0.182	0.471	E0.01	<0.032
NE02	11-02-97	<.05	<.048	<.088	<.134	<.104	<.182	.127	<.038	<.032
NE03	08-26-97	<.05	<.048	<.088	<.134	<.104	<.182	E.01	<.038	<.032
NE04	08-27-97	<.05	<.048	E.06	<.134	<.104	<.182	<.052	<.038	E.02
NE05	09-16-97	<.05	<.048	<.088	<.134	<.104	<.182	E.03	<.038	<.032
NE06	09-16-97	<.05	<.048	<.088	<.134	<.104	<.182	.132	E.008	<.032
NE07	09-22-97	<.05	<.048	<.088	<.134	<.104	<.182	E.007	<.038	<.032
NE08	09-02-97	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038	<.032
NE09	10-15-97	<.05	<.048	<.088	<.134	<.104	<.182	E.01	<.038	<.032
NE10	08-26-97	<.05	<.048	<.088	<.134	<.104	<.182	.332	<.038	<.032
NE11	10-19-97	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038	<.032
NE12	10-20-97	<.05	<.048	<.088	<.134	<.104	<.182	E.04	<.038	<.032
NE13	09-23-97	<.05	<.048	<.088	<.134	<.104	<.182	E.009	<.038	<.032
NE14	10-19-97	<.05	<.048	<.088	<.134	<.104	<.182	E.03	<.038	<.032
NE15	09-04-97	<.05	<.048	<.088	<.134	<.104	<.182	E.009	<.038	<.032
NE16	10-14-97	<.05	<.048	<.088	<.134	<.104	<.182	1.48	<.038	<.032
NE17	09-03-97	<.05	<.048	<.088	<.134	<.104	<.182	2.82	<.038	<.032
NE18	09-24-97	<.05	<.048	<.088	<.134	<.104	<.182	.227	<.038	E.010
NE19	10-29-97	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038	<.032
NE20	11-12-97	<.05	<.048	<.088	<.134	<.104	<.182	E.0072	<.038	<.032
NE21	10-21-97	<.05	<.048	<.088	<.134	<.104	<.182	.244	<.038	<.032
NE22	10-21-97	<.05	<.048	<.088	<.134	<.104	<.182	E.03	<.038	<.032
NE23	09-15-97	<.05	<.048	<.088	<.134	<.104	<.182	.136	<.038	<.032
NE24	08-28-97	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038	<.032
NE25	10-21-97	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038	<.032
NE26	11-09-97	<.05	<.048	<.088	<.134	<.104	<.182	.338	<.038	<.032
NE27	11-09-97	<.05	<.048	<.088	<.134	<.104	<.182	1.38	<.038	<.032
NE28*	12-09-97	<.05	<.048	<.088	<.134	<.104	<.182	.371	E.03	<.032
NE29*	12-09-97	<.05	<.048	<.088	<.134	<.104	<.182	E.019	<.038	<.032
NE30*	12-10-97	<.05	.331	<.088	<.134	E.044	<.182	2.16	<.038	<.032

Table 40. Concentrations of volatile organic compounds in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997--Continued

Local identifier	Date	Chlorobenzene	Chloroethan	Ethylbenzene	Methylchloride	Methylene chloride	Tetra-chloroethylene	Trichloro-fluoromethane	1, 1-Di-chloroethane	1, 1-Di-chloroethylene
NE01	09-17-97	<0.028	<0.12	<0.03	<0.254	<0.382	E0.003	<0.092	<0.066	<0.044
NE02	11-02-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE03	08-26-97	<.028	<.12	<.03	<.254	<.382	E.01	<.092	.243	<.044
NE04	08-27-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE05	09-16-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	E.01	<.044
NE06	09-16-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE07	09-22-97	<.028	<.12	<.03	<.254	<.382	E.01	<.092	<.066	<.044
NE08	09-02-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE09	10-15-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE10	08-26-97	<.028	<.12	<.03	<.254	<.382	.275	.159	E.08	<.044
NE11	10-19-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE12	10-20-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE13	09-23-97	<.028	<.12	<.03	E.02	<.382	<.038	1.06	<.066	<.044
NE14	10-19-97	<.028	<.12	<.03	<.254	<.382	E.02	<.092	<.066	<.044
NE15	09-04-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE16	10-14-97	<.028	<.12	<.03	E.01	<.382	.224	<.092	<.066	<.044
NE17	09-03-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE18	09-24-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	E.030	<.044
NE19	10-29-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE20	11-12-97	<.028	<.12	<.03	E.009	<.382	<.038	<.092	<.066	<.044
NE21	10-21-97	<.028	<.12	<.03	<.254	<.382	E.01	<.092	<.066	<.044
NE22	10-21-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE23	09-15-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE24	08-28-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE25	10-21-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE26	11-09-97	<.028	<.12	<.03	<.254	<.382	E.015	<.092	<.066	<.044
NE27	11-09-97	<.028	<.12	<.03	<.254	<.382	E.064	<.092	<.066	<.044
NE28	12-09-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE29	12-09-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE30	12-10-97	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044

Table 40. Concentrations of volatile organic compounds in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997--Continued

Local identifier	Date	1, 1, 1-Tri-chloroethane	Benzene 0-dichloro-	1, 2-di-chloropropane	Trans-1, 2-di-chloroethene	Benzene 1, 3-dichloro-	Benzene 1, 4-dichloro-	Dichlorodi-fluoromethane	Naphthalene	Vinyl chloride
NE01	09-17-97	<0.032	<0.048	<0.068	<0.032	<0.054	<0.05	<0.096	<0.25	<0.112
NE02	11-02-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE03	08-26-97	.156	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE04	08-27-97	E.09	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE05	09-16-97	.397	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE06	09-16-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE07	09-22-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE08	09-02-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE09	10-15-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE10	08-26-97	.208	<.048	<.068	<.032	<.054	E.01	E.2	<.25	<.112
NE11	10-19-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE12	10-20-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE13	09-23-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE14	10-19-97	E.009	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE15	09-04-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE16	10-14-97	E.01	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE17	09-03-97	<.032	E.004	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE18	09-24-97	E.020	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE19	10-29-97	E.029	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE20	11-12-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE21	10-21-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE22	10-21-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE23	09-15-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE24	08-28-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE25	10-21-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE26	11-09-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE27	11-09-97	E.011	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE28	12-09-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE29	12-09-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE30	12-10-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112

Table 40. Concentrations of volatile organic compounds in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997--Continued

Local identifier	Date	Tri-chloroethylene	Prehnitene	Ether tert-pentyl methyl	Carbon disulfide	Cis-1, 2-di-chloroethene	Styrene	0-xylene	1, 3-di-chloropropane	Toluene O-ethyl
NE01	09-17-97	<0.038	<0.23	<0.112	<0.08	<0.038	E0.005	<0.064	<0.116	<0.1
NE02	11-02-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE03	08-26-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE04	08-27-97	<.038	<.23	<.112	E.01	<.038	<.042	<.064	<.116	<.1
NE05	09-16-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE06	09-16-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE07	09-22-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE08	09-02-97	<.038	<.23	<.112	E.02	<.038	<.042	<.064	<.116	<.1
NE09	10-15-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE10	08-26-97	E.04	<.23	E.09	<.08	<.038	<.042	<.064	<.116	<.1
NE11	10-19-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE12	10-20-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE13	09-23-97	.368	<.23	<.112	E.05	<.038	<.042	<.064	<.116	<.1
NE14	10-19-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE15	09-04-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE16	10-14-97	E.007	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE17	09-03-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE18	09-24-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE19	10-29-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE20	11-12-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE21	10-21-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE22	10-21-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE23	09-15-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE24	08-28-97	<.038	<.23	<.112	E.006	<.038	<.042	<.064	<.116	<.1
NE25	10-21-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE26	11-09-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE27	11-09-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE28	12-09-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE29	12-09-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE30	12-10-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1

Table 40. Concentrations of volatile organic compounds in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997--Continued

Local identifier	Date	Benzene 123-trimethyl	Benzene 124-trimethyl	Iso-propylbenzene	Benzene N-propy	Benzene 135-trimethyl	O-chlorotoluene	Benzene N-butyl	Benzene secbutyl-	Benzene tertbutyl
NE01	09-17-97	<0.124	<0.056	<0.032	<0.042	<0.044	<0.042	<0.186	<0.048	<0.096
NE02	11-02-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE03	08-26-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE04	08-27-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE05	09-16-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE06	09-16-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE07	09-22-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE08	09-02-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE09	10-15-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE10	08-26-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE11	10-19-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE12	10-20-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE13	09-23-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE14	10-19-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE15	09-04-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE16	10-14-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE17	09-03-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE18	09-24-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE19	10-29-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE20	11-12-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE21	10-21-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE22	10-21-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE23	09-15-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE24	08-28-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE25	10-21-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE26	11-09-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE27	11-09-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE28	12-09-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE29	12-09-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE30	12-10-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096

Table 40. Concentrations of volatile organic compounds in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997--Continued

Local identifier	Date	P-iso-propyltoluene	Methyl iodide	123-Tri chloropropane	Ethane,1112-tetrachloro-	1, 2-dibromoethane	Freon-113	Methyl tert-butyl ether	Acetone	Bromobenzene
NE01	09-17-97	<0.11	<0.076	<0.07	<0.044	<0.036	<0.032	<0.112	<4.90	<0.036
NE02	11-02-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NE03	08-26-97	<.11	<.076	<.07	<.044	<.036	<.032	.263	<4.90	<.036
NE04	08-27-97	<.11	<.076	<.07	<.044	<.036	<.032	6.48	<4.90	<.036
NE05	09-16-97	<.11	<.076	<.07	<.044	<.036	<.032	.293	<4.90	<.036
NE06	09-16-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NE07	09-22-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NE08	09-02-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NE09	10-15-97	<.11	<.076	<.07	<.044	<.036	<.032	.666	<4.90	<.036
NE10	08-26-97	<.11	<.076	<.07	<.044	<.036	<.032	30.2	<4.90	<.036
NE11	10-19-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NE12	10-20-97	<.11	<.076	<.07	<.044	<.036	<.032	4.26	<4.90	<.036
NE13	09-23-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NE14	10-19-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NE15	09-04-97	<.11	<.076	<.07	<.044	<.036	<.032	.774	<4.90	<.036
NE16	10-14-97	<.11	<.076	<.07	<.044	<.036	<.032	E.04	<4.90	<.036
NE17	09-03-97	<.11	<.076	<.07	<.044	<.036	<.032	2.34	<4.90	<.036
NE18	09-24-97	<.11	<.076	<.07	<.044	<.036	<.032	.799	<4.90	<.036
NE19	10-29-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NE20	11-12-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NE21	10-21-97	<.11	<.076	<.07	<.044	<.036	<.032	.134	<4.90	<.036
NE22	10-21-97	<.11	<.076	<.07	<.044	<.036	<.032	1.53	<4.90	<.036
NE23	09-15-97	<.11	<.076	<.07	<.044	<.036	<.032	3.54	<4.90	<.036
NE24	08-28-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NE25	10-21-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NE26	11-09-97	<.11	<.076	<.07	<.044	<.036	E.015	<.112	<4.90	<.036
NE27	11-09-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NE28	12-09-97	<.11	<.076	<.07	<.044	<.036	<.032	.293	<4.90	<.036
NE29	12-09-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NE30	12-10-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036

Table 40. Concentrations of volatile organic compounds in samples collected from domestic wells in the New England Physiographic Province, N.J. and N.Y., 1997--Continued

Local identifier	Date	Ether ethyl	Di-iso-propylether	Methyl-ethylketone	Furan, tetrahydro	Dibromo chloropropane	Meta-paraxylene	Ethane 12DICL (surrogate) (percent recovery)	Toluene D8 (surrogate) (percent recovery)	Benzene 14BRFL (surrogate) (percent recovery)
NE01	09-17-97	<0.17	<0.098	<1.65	<1.15	<0.214	E0.02	103	99	95
NE02	11-02-97	<.17	<.098	<1.65	<1.30	<.214	<.064	110	89	73
NE03	08-26-97	<.17	<.098	<1.65	<1.15	<.214	<.064	100	97	102
NE04	08-27-97	<.17	.159	<1.65	<1.15	<.214	<.064	104	99	96
NE05	09-16-97	<.17	<.098	<1.65	<1.15	<.214	<.064	103	106	95
NE06	09-16-97	<.17	<.098	<1.65	<1.15	<.214	<.064	101	100	95
NE07	09-22-97	<.17	<.098	<1.65	<1.15	<.214	<.064	103	103	97
NE08	09-02-97	<.17	<.098	<1.65	<1.15	<.214	<.064	101	100	114
NE09	10-15-97	<.17	<.098	<1.65	<1.15	<.214	<.064	103	97	86
NE10	08-26-97	<.17	E.03	<1.65	<1.15	<.214	<.064	104	100	99
NE11	10-19-97	<.17	<.098	<1.65	<1.15	<.214	<.064	105	98	102
NE12	10-20-97	<.17	<.098	<1.65	<1.15	<.214	<.064	102	98	97
NE13	09-23-97	<.17	<.098	<1.65	<1.15	<.214	<.064	98	99	89
NE14	10-19-97	<.17	<.098	<1.65	<1.15	<.214	<.064	99	101	100
NE15	09-04-97	<.17	<.098	<1.65	<1.15	<.214	<.064	102	98	112
NE16	10-14-97	<.17	<.098	<1.65	<1.38	<.214	<.064	100	96	84
NE17	09-03-97	<.17	<.098	<1.65	<1.15	<.214	<.064	103	101	102
NE18	09-24-97	<.17	<.098	<1.65	<1.15	<.214	<.064	97	96	94
NE19	10-29-97	<.17	<.098	<1.65	<1.15	<.214	<.064	104	94	86
NE20	11-12-97	<.17	<.098	<1.65	<1.15	<.214	<.064	108	97	84
NE21	10-21-97	<.17	<.098	<1.65	<1.63	<.214	<.064	118	96	92
NE22	10-21-97	<.17	<.098	<1.65	<1.42	<.214	<.064	113	94	88
NE23	09-15-97	<.17	<.098	<1.65	<1.15	<.214	<.064	105	105	101
NE24	08-28-97	<.17	<.098	<1.65	<1.15	<.214	<.064	99	96	105
NE25	10-21-97	<.17	<.098	<1.65	<1.29	<.214	<.064	112	101	102
NE26	11-09-97	<.17	<.098	<1.65	<1.15	<.214	<.064	110	87	71
NE27	11-09-97	<.17	<.098	<1.65	<1.84	<.214	<.064	104	95	90
NE28	12-09-97	<.17	<.098	<1.65	<1.15	<.214	<.064	95	98	126
NE29	12-09-97	<.17	<.098	<1.65	<1.15	<.214	<.064	90	102	109
NE30	12-10-97	<.17	<.098	<1.65	E1.93	<.214	<.064	94	101	124

Table 41. Concentrations of nutrients and organic carbon in field-blank samples in the study area, N.J. and N.Y.

[<, less than; mg/L, milligrams per liter; --, no data]

Local identifier	Date	Time	Nitrogen, ammonia (mg/L as N)	Nitrogen, nitrite (mg/L as N)	Nitrogen, ammonia + organic (mg/L as N)	Nitrogen, No_2+No_3 (mg/L as N)	Phos-phorus (mg/L as P)	Phos-phorus, ortho (mg/L as P)	Carbon, organic (mg/L as C)
AG05	09-03-96	1105	<0.015	<0.01	<0.2	0.09	<0.01	<0.01	0.3
NU01	09-10-96	1005	<.015	<.01	<.2	.05	.04	<.01	.8
NU09	10-02-96	1005	<.015	<.01	<.2	<.05	<.01	<.01	1.4
NU19	11-25-96	1005	<.015	<.01	<.2	<.05	<.01	<.01	1.0
OU01	10-21-96	1005	<.015	<.01	<.2	<.05	.07	.01	.5
OU08	11-20-96	1005	<.015	<.01	<.2	<.05	<.01	<.01	1.6
OU18	11-19-97	0905	--	--	--	--	--	--	1.5
UN01	09-09-96	1005	<.015	<.01	<.2	.06	.02	<.01	1.2
NU11-TEN	10-31-97	0905	<.01	<.01	<.2	<.05	<.01	<.01	2.5
NU26-TEN	11-21-97	0905	<.02	<.01	<.1	<.05	.02	<.01	.6
OU01-TEN	11-05-97	0905	--	--	--	--	--	--	1.7
OU05-TEN	11-13-97	0905	<.02	<.01	<.1	<.05	<.01	.01	3.2
OU06-TEN	11-17-97	0905	--	--	--	--	--	--	.8
PS05	02-05-98	0905	--	--	--	--	--	--	<.1
PS14	02-27-98	0905	.04	<.01	<.1	.08	<.01	.02	--
PS09	03-04-98	0905	<.02	<.01	<.1	<.05	<.01	<.01	--
PS11	03-05-98	0905	--	--	--	--	--	--	<.1
PS01	03-09-98	1405	<.02	<.01	<.1	<.05	<.01	.01	--
PS21	11-30-98	1105	--	--	--	--	--	--	<.1
PS30	12-09-98	1405	<.02	<.01	<.1	<.05	<.05	<.01	--
NE15	09-12-97	1105	<.01	<.01	<.2	<.05	<.01	<.01	.1
NE22	10-21-97	1805	<.02	<.01	<.2	<.05	<.01	<.01	<.1
NE30	12-10-97	0905	<.02	.01	<.1	<.05	<.01	.01	<.1
CP03	07-16-98	1305	.02	<.01	<.1	<.05	<.01	.01	.2
CP18	08-25-98	1405	.08	<.01	<.1	<.05	<.01	.02	.2
CP26	09-23-98	1005	<.02	<.01	<.1	.07	<.01	<.01	<.1

Table 42. Concentrations of selected inorganic compounds and trace elements in field-blank samples in the study area, N.J. and N.Y.

[<, less than; E, estimated concentrations; *, well is located in New York State; lab, laboratory; mg/L, milligrams per liter; µg/L, micrograms per liter; µS/cm, microsiemens per centimeter at 25 degrees Celsius]

Local Identifier	Date	pH lab (standard units)	Calcium (mg/L as Ca)	Magnesium (mg/L as Mg)	Sodium (mg/L as Na)	Potassium (mg/L as K)	Chloride (mg/L as Cl)	Sulfate (mg/L as So4)	Fluoride (mg/L as F)
AG05	09-03-96	6.0	0.06	<0.01	<0.2	<0.1	<0.1	<0.1	<0.1
NU01	09-10-96	5.4	<.02	<.01	<.2	<.1	<.1	<.1	<.1
NU09	10-02-96	5.9	<.02	<.01	<.2	<.1	<.1	<.1	<.1
NU19	11-25-96	7.2	<.02	<.01	<.2	<.1	<.1	<.1	<.1
OU01	10-21-96	6.0	<.02	<.01	<.2	<.1	<.1	<.1	<.1
OU08	11-20-96	7.2	<.02	<.01	<.2	<.1	<.1	<.1	<.1
UN01	09-09-96	5.6	<.02	<.01	<.2	<.1	<.1	<.1	<.1
NU11-TEN	10-31-97	7.9	.10	<.01	<.2	<.1	<.1	<.1	<.1
NU26-TEN	11-21-97	8.1	<.02	<.01	<.2	<.1	<.1	<.1	<.1
OU05-TEN	11-13-97	8.0	<.02	<.01	<.2	<.1	<.1	<.1	<.1
PS14	02-27-98	5.9	.03	<.004	<.1	<.1	<.1	<.1	<.1
PS09	03-04-98	6.1	.02	<.004	<.1	<.1	<.1	<.1	<.1
PS01	03-09-98	7.5	<.02	<.004	<.1	<.1	<.1	<.1	<.1
PS30	12-09-98	8.0	<.02	<.004	E.03	<.1	<.1	<.1	<.1
NE15	09-12-97	6.2	<.02	<.01	<.2	<.1	<.1	<.1	<.1
NE22	10-21-97	6.4	<.02	<.01	<.2	<.1	<.1	<.1	<.1
NE30*	12-10-97	7.5	<.02	<.004	<.1	<.1	<.1	<.1	<.1
CP03	07-16-98	7.6	<.02	<.004	<.1	<.1	<.1	<.1	<.1
CP18	08-25-98	6.2	<.02	<.004	<.1	<.1	<.1	<.1	<.1
CP26	09-23-98	7.7	<.02	<.004	<.1	<.1	<.1	<.1	<.1

Table 42. Concentrations of selected inorganic compounds and trace elements in field-blank samples in the study area, N.J. and N.Y.--Continued

Local Identifier	Date	Silica (mg/L as SiO2)	Boron (µg/L as B)	Iron (µg/L as Fe)	Manganese (µg/L as Mn)	Solids, residue at 180 deg. C (mg/L)	Bromide (mg/L as Br)	Specific conduct-ance, lab (µS/cm)	Acid neutralizing capacity, lab (mg/L as CaCO3)
AG05	09-03-96	0.02	--	23	<1	<1	<0.01	2	1.5
NU01	09-10-96	<.01	--	<3	<1	<1	<.01	2	1.4
NU09	10-02-96	<.01	--	<3	<1	<1	<.01	1	1.4
NU19	11-25-96	<.01	--	<3	<1	2	<.01	2	1.7
OU01	10-21-96	.02	--	<3	<1	<1	<.01	2	1.2
OU08	11-20-96	<.01	--	<3	<1	<1	<.01	2	1.4
UN01	09-09-96	<.01	--	<3	<1	<1	<.01	1	1.3
NU11-TEN	10-31-97	.03	11.5	6	<1	<1	<.01	2	2.0
NU26-TEN	11-21-97	<.01	9.6	8	<1	<1	<.01	2	2.1
OU05-TEN	11-13-97	<.01	13.6	<3	<1	6	<.01	2	2.3
PS14	02-27-98	<.10	--	<10	<4	<10	<.01	2	1.7
PS09	03-04-98	<.10	--	<10	<4	<10	.01	1	1.6
PS01	03-09-98	<.10	--	<10	<4	<10	<.01	4	1.6
PS30	12-09-98	<.05	--	<10	<3	<10	<.01	2	1.8
NE15	09-12-97	.03	13.5	<3	<1	<1	<.01	2	1.9
NE22	10-21-97	<.01	12.7	<3	<1	<1	<.01	1	2.1
NE30	12-10-97	<.10	<16.0	<10	<4	<10	<.01	3	1.7
CP03	07-16-98	<.10	<16.0	<10	<4	<10	--	1	1.9
CP18	08-25-98	<.10	<16.0	<10	<4	<10	<.01	1	1.6
CP26	09-23-98	<.10	<16.0	<10	<4	33	<.01	1	1.3

Table 43. Concentrations of selected pesticides in field-blank samples in the study area, N.J. and N.Y.

[<, less than; all concentrations are in micrograms per liter except as noted; *, well is located in New York State. A complete listing of pesticides analyzed for in each sample is included in table 2]

Local identifier	Date	Time	Propachlor	Butylate	Simazine	Prometon	Deethyl-atrazine	Cyanazine	Fonofos
AG06	09-04-96	1005	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003
NU03	09-11-96	1005	<.007	<.002	<.005	<.018	<.002	<.004	<.003
NU17	10-15-96	1005	<.007	<.002	<.005	<.018	<.002	<.004	<.003
NU22	12-17-96	1405	<.007	<.002	<.005	<.018	<.002	<.004	<.003
OU03	10-22-96	1005	<.007	<.002	<.005	<.018	<.002	<.004	<.003
OU13	11-21-96	1005	<.007	<.002	<.005	<.018	<.002	<.004	<.003
UN06	10-23-96	1405	<.007	<.002	<.005	<.018	<.002	<.004	<.003
NU11-TEN	10-31-97	0905	<.007	<.002	<.005	<.018	<.002	<.004	<.003
NU26-TEN	11-21-97	0905	<.007	<.002	<.005	<.018	<.002	<.004	<.003
OU05-TEN	11-13-97	0905	<.007	<.002	<.005	<.018	<.002	<.004	<.003
PS05	02-18-98	0905	<.007	<.002	<.005	<.018	<.002	<.004	<.003
PS11	03-05-98	0905	<.007	<.002	<.005	<.018	<.002	<.004	<.003
PS21	11-30-98	1105	<.007	<.002	<.005	<.018	<.002	<.004	<.003
NE15	09-12-97	1105	<.007	<.002	<.005	<.018	<.002	<.004	<.003
NE22	10-21-97	1805	<.007	<.002	<.005	<.018	<.002	<.004	<.003
NE30*	12-10-97	0905	<.007	<.002	<.005	<.018	<.002	<.004	<.003
CP03	07-16-98	1305	<.007	<.002	<.005	<.018	<.002	<.004	<.003
CP18	08-25-98	1405	<.007	<.002	<.005	<.018	<.002	<.004	<.003
CP26	09-23-98	1005	<.007	<.002	<.005	<.018	<.002	<.004	<.003

Table 43. Concentrations of selected pesticides in field-blank samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Alpha BHC	p,p'-DDE	Chlorpyrifos	Lindane	Dieldrin	Metolachlor	Malathion	Parathion	Diazinon
AG06	09-04-96	<0.002	<0.006	<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002
NU03	09-11-96	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
NU17	10-15-96	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
NU22	12-17-96	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
OU03	10-22-96	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
OU13	11-21-96	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
UN06	10-23-96	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
NU11-TEN	10-31-97	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
NU26-TEN	11-21-97	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
OU05-TEN	11-13-97	<.002	<.006	<.004	<.004	.0064	<.002	<.005	<.004	<.002
PS05	02-18-98	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
PS11	03-05-98	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
PS21	11-30-98	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
NE15	09-12-97	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
NE22	10-21-97	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
NE30	12-10-97	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
CP03	07-16-98	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
CP18	08-25-98	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002
CP26	09-23-98	<.002	<.006	<.004	<.004	<.001	<.002	<.005	<.004	<.002

Table 43. Concentrations of selected pesticides in field-blank samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Atrazine	Alachlor	Acetochlor	Metribuzin	2,6-Diethyl-aniline	Trifluralin	Ethal-fluralin	Phorate	Terbacil
AG06	09-04-96	<0.001	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007
NU03	09-11-96	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
NU17	10-15-96	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
NU22	12-17-96	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
OU03	10-22-96	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
OU13	11-21-96	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
UN06	10-23-96	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
NU11-TEN	10-31-97	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
NU26-TEN	11-21-97	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
OU05-TEN	11-13-97	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
PS05	02-18-98	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
PS11	03-05-98	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
PS21	11-30-98	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
NE15	09-12-97	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
NE22	10-21-97	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
NE30	12-10-97	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
CP03	07-16-98	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
CP18	08-25-98	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007
CP26	09-23-98	<.001	<.002	<.002	<.004	<.003	<.002	<.004	<.002	<.007

Table 43. Concentrations of selected pesticides in field-blank samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Linuron	Methyl parathion	EPTC	Pebulate	Tebuthiuron	Molinate	Ethoprop	Benfluralin	Carbofuran
AG06	09-04-96	<0.002	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.003
NU03	09-11-96	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
NU17	10-15-96	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
NU22	12-17-96	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
OU03	10-22-96	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
OU13	11-21-96	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
UN06	10-23-96	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
NU11-TEN	10-31-97	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
NU26-TEN	11-21-97	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
OU05-TEN	11-13-97	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
PS05	02-18-98	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
PS11	03-05-98	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
PS21	11-30-98	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
NE15	09-12-97	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
NE22	10-21-97	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
NE30	12-10-97	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
CP03	07-16-98	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
CP18	08-25-98	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003
CP26	09-23-98	<.002	<.006	<.002	<.004	<.01	<.004	<.003	<.002	<.003

Table 43. Concentrations of selected pesticides in field-blank samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Terbufos	Pronamide	Disulfoton	Triallate	Propanil	Carbaryl	Thiobencarb	DCPA
AG06	09-04-96	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002
NU03	09-11-96	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
NU17	10-15-96	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
NU22	12-17-96	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
OU03	10-22-96	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
OU13	11-21-96	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
UN06	10-23-96	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
NU11-TEN	10-31-97	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
NU26-TEN	11-21-97	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
OU05-TEN	11-13-97	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
PS05	02-18-98	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
PS11	03-05-98	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
PS21	11-30-98	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
NE15	09-12-97	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
NE22	10-21-97	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
NE30	12-10-97	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
CP03	07-16-98	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
CP18	08-25-98	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002
CP26	09-23-98	<.013	<.003	<.017	<.001	<.004	<.003	<.002	<.002

Table 43. Concentrations of selected pesticides in field-blank samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Pendimethalin	Naprop-amide	Propargite	Methyl-azinphos	Per-methrin cis	Diazinon, D10 (surrogate) (percent recovery)	Tert-butylazine (surrogate) (percent recovery)	HCH alpha D6 (surrogate) (percent recovery)
AG06	09-04-96	<0.004	<0.003	<0.013	<0.001	<0.005	84.6	111	90.2
NU03	09-11-96	<.004	<.003	<.013	<.001	<.005	84.2	111	99.1
NU17	10-15-96	<.004	<.003	<.013	<.001	<.005	70.1	104	76.8
NU22	12-17-96	<.004	<.003	<.013	<.001	<.005	96.2	107	91.8
OU03	10-22-96	<.004	<.003	<.013	<.001	<.005	63.3	82.8	82.2
OU13	11-21-96	<.004	<.003	<.013	<.001	<.005	88.5	95.6	98.9
UN06	10-23-96	<.004	<.003	<.013	<.001	<.005	60.4	85.7	74.6
NU11-TEN	10-31-97	<.004	<.003	<.013	<.001	<.005	90.9	106	94.4
NU26-TEN	11-21-97	<.004	<.003	<.013	<.001	<.005	114	117	110
OU05-TEN	11-13-97	<.004	<.003	<.013	<.001	<.005	99.1	104	70.3
PS05	02-18-98	<.004	<.003	<.013	<.001	<.005	92.7	101	99.1
PS11	03-05-98	<.004	<.003	<.013	<.001	<.005	98.1	103	88.9
PS21	11-30-98	<.004	<.003	<.013	<.001	<.005	132	112	115
NE15	09-12-97	<.004	<.003	<.013	<.001	<.005	80.9	108	98.1
NE22	10-21-97	<.004	<.003	<.013	<.001	<.005	85.6	103	90.7
NE30	12-10-97	<.004	<.003	<.013	<.001	<.005	112	131	109
CP03	07-16-98	<.004	<.003	<.013	<.001	<.005	106	114	98.3
CP18	08-25-98	<.004	<.003	<.013	<.001	<.005	96.0	109	85.8
CP26	09-23-98	<.004	<.003	<.013	<.001	<.005	96.6	104	86.5

Table 44. Concentrations of selected pesticides in field-blank samples in the study area, N.J. and N.Y.

[<, less than; --, no data; E, estimated concentration; all concentrations are in micrograms per liter except as noted; *, well is located in New York State. A complete listing of pesticides analyzed for in each sample is included in table 3]

Local Identifier	Date	Time	Bromacil	Dicamba	Linuron	MCPA	MCPB	Methiocarb	Propoxur
AG06	09-04-96	1005	<0.035	<0.035	<0.018	<0.050	<0.035	<0.026	<0.035
NU03	09-11-96	1005	<.035	<.035	<.018	<.050	<.035	<.026	<.035
NU17	10-15-96	1005	<.035	<.035	<.018	<.050	<.035	<.026	<.035
NU22	12-17-96	1405	<.035	<.035	<.018	<.050	<.035	<.026	<.035
OU03	10-22-96	1005	<.035	<.035	<.018	<.050	<.035	<.026	<.035
OU13	11-21-96	1005	<.035	<.035	<.018	<.050	<.035	<.026	<.035
UN06	10-23-96	1405	<.035	<.035	<.018	<.050	<.035	<.026	<.035
NE15	09-12-97	1105	<.035	<.035	<.018	<.05	<.035	<.026	<.035
NE22	10-21-97	1805	<.035	<.035	<.018	<.05	<.035	<.026	<.035
NE30*	12-10-97	0905	<.035	<.035	<.018	<.17	<.14	<.026	<.035
CP03	07-16-98	1305	<.035	<.035	<.018	<.17	<.14	<.026	<.035
CP18	08-25-98	1405	<.035	<.035	<.018	<.17	<.14	<.026	<.035
CP26	09-23-98	1005	<.035	<.035	<.018	<.17	<.14	<.026	<.035

Local Identifier	Date	Bentazon	2,4-DB	Fluo-meturon	Oxamyl	2,4-D	2,4,5-T	Silvex	Triclopyr	Propham
AG06	09-04-96	<0.014	<0.035	<0.035	<0.018	<0.035	<0.035	<0.021	<0.050	<.0035
NU03	09-11-96	<.014	<.035	<.035	<.018	<.035	<.035	<.021	<.050	<.035
NU17	10-15-96	<.014	<.035	<.035	<.018	<.035	<.035	<.021	<.050	<.035
NU22	12-17-96	<.014	<.035	<.035	<.018	<.035	<.035	<.021	<.050	<.035
OU03	10-22-96	<.014	<.035	<.035	<.018	<.035	<.035	<.021	<.050	<.035
OU13	11-21-96	<.014	<.035	<.035	<.018	<.035	<.035	<.021	<.050	<.035
UN06	10-23-96	<.014	<.035	<.035	<.018	<.035	<.035	<.021	<.050	<.035
NE15	09-12-97	<.014	<.035	<.035	<.018	<.035	<.035	<.021	<.05	<.035
NE22	10-21-97	<.014	<.035	<.035	<.018	<.035	<.035	<.021	<.05	<.035
NE30*	12-10-97	<.014	<.24	<.035	<.018	<.15	<.035	<.021	<.25	<.035
CP03	07-16-98	<.014	<.24	<.035	<.018	<.15	<.035	<.021	<.25	<.035
CP18	08-25-98	<.014	<.24	<.035	<.018	<.15	<.035	<.021	<.25	<.035
CP26	09-23-98	<.014	<.24	<.035	<.018	<.15	<.035	<.021	<.25	<.035

Table 44. Concentrations of selected pesticides in field-blank samples in the study area, N.J. and N.Y.--Continued

Local Identifier	Date	Picloram	Oryzalin	Norflurazon	Neburon	1-Naphthol	Methomyl	Fenuron	Esfenvalerate	DNOC
AG06	09-04-96	<0.05	<0.019	<0.024	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035
NU03	09-11-96	<.05	<.019	<.024	<.015	<.007	<.017	<.013	<.019	<.035
NU17	10-15-96	<.05	<.019	<.024	<.015	<.007	<.017	<.013	<.019	<.035
NU22	12-17-96	<.05	<.019	<.024	<.015	<.007	<.017	<.013	<.019	<.035
OU03	10-22-96	<.05	<.019	<.024	<.015	<.007	<.017	<.013	<.019	<.035
OU13	11-21-96	<.05	<.019	<.024	<.015	<.007	<.017	<.013	<.019	<.035
UN06	10-23-96	<.05	<.019	<.024	<.015	<.007	<.017	<.013	<.019	<.035
NE15	09-12-97	<.05	<.019	<.024	<.015	<.007	<.017	<.013	<.019	<.035
NE22	10-21-97	<.05	<.019	<.024	<.015	<.007	<.017	<.013	<.019	<.035
NE30*	12-10-97	<.05	<.31	<.024	<.015	--	<.017	<.013	--	<.42
CP03	07-16-98	<.05	<.92	<.024	<.015	--	<.017	<.013	--	<.42
CP18	08-25-98	<.05	<.59	<.024	<.015	--	<.017	<.013	--	<.42
CP26	09-23-98	<.05	<.31	<.024	<.015	--	<.017	<.013	--	<.42

Local identifier	Date	Diuron	Dinoseb	Dichlorprop	Dichlobenil	Dacthal monoacid	Clopyralid	Chloro-thalonil	Chloramben	3Hydroxy-carbofuran
AG06	09-04-96	<0.02	<0.035	<0.032	<0.02	<0.017	<0.05	<0.035	<0.011	<0.014
NU03	09-11-96	<.02	<.035	<.032	<.02	<.017	<.05	<.035	<.011	<.014
NU17	10-15-96	<.02	<.035	<.032	<.02	<.017	<.05	<.035	<.011	<.014
NU22	12-17-96	<.02	<.035	<.032	<.02	<.017	<.05	<.035	<.011	<.014
OU03	10-22-96	<.02	<.035	<.032	<.02	<.017	<.05	<.035	<.011	<.014
OU13	11-21-96	<.02	<.035	<.032	<.02	<.017	<.05	<.035	<.011	<.014
UN06	10-23-96	<.02	<.035	<.032	<.02	<.017	<.05	<.035	<.011	<.014
NE15	09-12-97	<.02	<.035	<.032	<.02	<.017	<.05	<.035	<.011	<.014
NE22	10-21-97	<.02	<.035	<.032	<.02	<.017	<.05	<.035	<.011	<.014
NE30*	12-10-97	<.02	<.035	<.032	<1.2	<.017	<.23	<.48	<.42	<.014
CP03	07-16-98	<.02	<.035	<.032	<1.2	<.017	<.23	<.48	<.42	<.014
CP18	08-25-98	<.02	<.035	<.032	<1.2	<.017	<.23	<.48	<.42	<.014
CP26	09-23-98	<.02	<.035	<.032	<1.2	<.017	<.23	<.48	<.42	<.014

Table 44. Concentrations of selected pesticides in field-blank samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Carbofuran	Carbaryl	Bromoxnil	Aldicarb	Aldicarb sulfone	Aldicarb sulfoxide	Acifluorfen	BDMC, (surrogate) (percent recovery)
AG06	09-04-96	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035	86.0
NU03	09-11-96	<.028	<.008	<.035	<.016	<.016	<.021	<.035	E76.0
NU17	10-15-96	<.028	<.008	<.035	<.016	<.016	<.021	<.035	78.0
NU22	12-17-96	<.028	<.008	<.035	<.016	<.016	<.021	<.035	80.0
OU03	10-22-96	<.028	<.008	<.035	<.016	<.016	<.021	<.035	69.0
OU13	11-21-96	<.028	<.008	<.035	<.016	<.016	<.021	<.035	86.0
UN06	10-23-96	<.028	<.008	<.035	<.016	<.016	<.021	<.035	77.0
NE15	09-12-97	<.028	<.008	<.035	<.016	<.016	<.021	<.035	61
NE22	10-21-97	<.028	<.008	<.035	<.016	<.016	<.021	<.035	74
NE30*	12-10-97	<.12	<.008	<.035	<.55	<.1	<.021	<.035	79
CP03	07-16-98	<.12	<.008	<.035	<.55	<.1	<.021	<.035	82
CP18	08-25-98	<.12	<.008	<.035	<.55	<.1	<.021	<.035	72
CP26	09-23-98	<.12	<.008	<.035	<.55	<.1	<.021	<.035	66

Table 45. Concentrations of selected pesticides in field-blank samples in the study area, N.J. and N.Y.

[<, less than; --, no data; all concentrations are in micrograms per liter. A complete listing of pesticides analyzed for in each sample is included in table 4]

Local Identifier	Date	Time	Lindane	Chlordane, technical	Dieldrin	Heptachlor, epoxide	Picloram	2,4-D	Dicamba
AG06	09-04-96	1005	<0.004	<0.100	<0.001	<0.010	<0.010	<0.010	<0.010
NU03	09-11-96	1005	<.004	<.100	<.001	<.010	<.010	<.010	<.010
NU17	10-15-96	1005	<.004	<.100	<.001	<.010	<.010	<.010	<.010
NU22	12-17-96	1405	<.004	<.100	<.001	<.010	--	--	--
OU03	10-22-96	1005	<.004	<.100	<.001	<.010	<.010	<.010	<.010
OU13	11-21-96	1005	<.004	<.100	<.001	<.010	<.010	<.010	<.010
UN06	10-23-96	1405	<.004	<.100	<.001	<.010	<.010	<.010	<.010

Table 46. Concentrations of volatile organic compounds in field-blank samples in the study area, N.J. and N.Y.

[<, less than; --, no data; E, estimated concentration; all concentrations are in micrograms per liter except as noted; *, well is located in New York State]

Local identifier	Date	Time	Di-bromo-methane	Bromo-dichloro-methane	Carbon tetra-chloride	1,2 Di-chloro-ethane	Bromoform	Chloro-dibromo-methane	Chloro-form	Toluene
AG05	09-03-96	1105	<0.10	<0.100	<0.050	<0.050	<0.200	<0.100	E0.070	<0.050
NU01	09-10-96	1005	<.10	<.100	<.050	<.050	<.200	<.100	E.030	<.050
NU05	10-29-96	1405	<.10	E.010	<.050	<.050	<.200	E.010	E.060	<.050
NU08	09-18-96	1405	<.10	<.100	<.050	<.050	<.200	<.100	E.040	<.050
NU09	10-02-96	1005	<.10	E.010	<.050	<.050	<.200	<.100	E.060	<.050
NU19	11-25-96	1005	<.10	<.100	<.050	<.050	<.200	<.100	E.030	<.050
OU01	10-21-96	1005	<.10	E.010	<.050	<.050	<.200	<.100	E.050	<.050
OU08	11-20-96	1005	<.10	E.010	<.050	<.050	<.200	<.100	E.060	<.050
OU18	11-19-97	0905	<.05	<.048	<.088	<.134	<.104	<.182	E.0099	<.038
	11-19-97	0907	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
UN01	09-09-96	1005	<.10	<.100	<.050	<.050	<.200	<.100	E.030	<.050
UN02	12-22-96	1605	<.10	<.100	<.050	<.050	<.200	<.100	E.030	<.050
NU11-TEN	10-31-97	0905	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
	10-31-97	0907	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
NU26-TEN	11-21-97	0905	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
OU01-TEN	11-05-97	0905	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
	11-05-97	0907	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
OU05-TEN	11-13-97	0905	<.05	<.048	<.088	<.134	<.104	<.182	E.017	<.038
	11-13-97	0907	<.05	<.048	<.088	<.134	<.104	<.182	<.052	E.0037
OU06-TEN	11-17-97	0905	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
PS05	02-05-98	0905	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
PS11	03-05-98	0905	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
	03-05-98	0907	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
PS21	11-30-98	1105	<.05	<.048	<.088	<.13	<.1	<.18	<.052	<.05
	11-30-98	1107	<.05	<.048	<.088	<.13	<.1	<.18	<.052	<.05
NE15	09-12-97	1105	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
	09-12-97	1107	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
NE22	10-21-97	1805	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
NE30*	12-10-97	0905	<.05	<.048	<.088	<.134	<.104	<.182	<.052	E.016
	12-10-97	0907	<.05	<.048	<.088	<.134	<.104	<.182	<.052	E.017
CP03	07-16-98	1305	<.05	<.048	<.088	<.134	<.104	<.182	<.052	E.021
CP13	07-29-98	1005	<.05	<.048	<.088	<.134	<.104	<.182	<.052	E.03
CP26	09-23-98	1005	<.05	<.048	<.088	<.13	<.1	<.18	<.052	E.012
CP28	10-14-98	1505	<.05	<.048	<.088	<.13	<.1	<.18	<.052	<.05

Table 46. Concentrations of volatile organic compounds in field-blank samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Benzene	Acrolein	Acrylo-nitrile	Chloro-benzene	Chloro-ethane	Ethyl-benzene	Ethane hexa-chlor	Methyl-bromide	Methyl-cloride	Methy-lene chloride
AG05	09-03-96	<0.050	<2.00	<2.00	<0.050	<0.100	<0.050	<0.050	<0.100	<0.200	<0.100
NU01	09-10-96	<.050	<2.00	<2.00	<.050	<.100	<.050	<.050	<.100	E.030	<.100
NU05	10-29-96	<.050	<2.00	<2.00	E.004	<.100	<.050	<.050	<.100	<.200	<.100
NU08	09-18-96	<.050	<2.00	<2.00	<.050	<.100	<.050	<.050	<.100	E.030	<.100
NU09	10-02-96	<.050	<2.00	<2.00	<.050	<.100	E.005	<.050	<.100	<.200	<.100
NU19	11-25-96	<.050	<2.00	<2.00	E.020	<.100	E.030	<.050	<.100	<.200	<.100
OU01	10-21-96	<.050	<2.00	<2.00	E.004	<.100	<.050	<.050	<.100	<.200	<.100
OU08	11-20-96	<.050	<2.00	<2.00	E.004	<.100	<.050	<.050	<.100	<.200	<.100
OU18	11-19-97	<.032	--	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
	11-19-97	<.032	--	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
UN01	09-09-96	<.050	<2.00	<2.00	<.050	<.100	<.050	<.050	<.100	E.030	<.100
UN02	12-22-96	<.050	<2.00	<2.00	E.020	<.100	E.030	<.050	<.100	<.200	<.180
NU11-TEN	10-31-97	<.032	--	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
	10-31-97	<.032	--	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
NU26-TEN	11-21-97	<.032	--	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
OU01-TEN	11-05-97	<.032	--	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
	11-05-97	<.032	--	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
OU05-TEN	11-13-97	<.032	--	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
	11-13-97	<.032	--	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
OU06-TEN	11-17-97	<.032	--	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
PS05	02-05-98	<.032	<250	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
PS11	03-05-98	<.032	<250	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
	03-05-98	<.032	<250	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
PS21	11-30-98	<.1	--	<1.2	<.028	<.12	<.03	<.36	<.15	<.25	<.38
	11-30-98	<.1	--	<1.2	<.028	<.12	<.03	<.36	<.15	<.25	<.38
NE15	09-12-97	E.01	<1.43	<1.23	<.028	<.12	E.01	<.362	<.148	<.254	<.382
	09-12-97	E.008	<1.43	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
NE22	10-21-97	<.032	--	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
NE30*	12-10-97	<.032	<50	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
	12-10-97	<.032	<50	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
CP03	07-16-98	<.1	--	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
CP13	07-29-98	<.1	--	<1.23	<.028	<.12	<.03	<.362	<.148	<.254	<.382
CP26	09-23-98	<.1	--	<1.2	<.028	<.12	<.03	<.36	<.15	<.25	<.38
CP28	10-14-98	<.1	--	<1.2	<.028	<.12	<.03	<.36	<.15	<.25	<.38

Table 46. Concentrations of volatile organic compounds in field-blank samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Tetra-chloro-ethylene	Trichloro-fluoro-methane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,1-TENrichloro-ethane	1,1-2-TENrichloro-ethane	Ethane, 1,1,2,2-TENetra-chloro	Benzene-o-dichloro	1,2-Dichloro-propane
AG05	09-03-96	<0.050	<0.100	<0.050	<0.100	<0.050	<0.100	<0.100	<0.050	<0.050
NU01	09-10-96	<.050	E.010	<.050	<.100	<.050	<.100	<.100	<.050	E.008
NU05	10-29-96	<.050	<.100	<.050	<.100	<.050	<.100	<.100	<.050	E.010
NU08	09-18-96	<.050	E.060	<.050	<.100	<.050	<.100	<.100	<.050	E.008
NU09	10-02-96	<.050	<.100	<.050	<.100	<.050	<.100	<.100	<.050	E.010
NU19	11-25-96	E.010	<.100	<.050	<.100	<.050	<.100	<.100	E.002	<.050
OU01	10-21-96	<.050	<.100	<.050	<.100	<.050	<.100	<.100	<.050	E.010
OU08	11-20-96	<.050	<.100	<.050	<.100	<.050	<.100	<.100	<.050	E.010
OU18	11-19-97	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
	11-19-97	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
UN01	09-09-96	<.050	<.100	<.050	<.100	<.050	<.100	<.100	<.050	E.009
UN02	12-22-96	E.010	<.100	<.050	<.100	<.050	<.100	<.100	E.002	E.007
NU11-TEN	10-31-97	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
	10-31-97	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
NU26-TEN	11-21-97	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
OU01-TEN	11-05-97	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
	11-05-97	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
OU05-TEN	11-13-97	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
	11-13-97	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
OU06-TEN	11-17-97	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
PS05	02-05-98	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
PS11	03-05-98	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
	03-05-98	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
PS21	11-30-98	<.1	<.09	<.066	<.044	<.032	<.064	<.13	<.048	<.068
	11-30-98	<.1	<.09	<.066	<.044	<.032	<.064	<.13	<.048	<.068
NE15	09-12-97	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
	09-12-97	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
NE22	10-21-97	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
NE30*	12-10-97	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
	12-10-97	<.038	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
CP03	07-16-98	<.102	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
CP13	07-29-98	<.102	<.092	<.066	<.044	<.032	<.064	<.132	<.048	<.068
CP26	09-23-98	<.1	<.09	<.066	<.044	<.032	<.064	<.13	<.048	<.068
CP28	10-14-98	<.1	<.09	<.066	<.044	<.032	<.064	<.13	<.048	<.068

Table 46. Concentrations of volatile organic compounds in field-blank samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Trans-1,2-dichloro-ethene	Benzene, 1,2,4-TENrichloro	Benzene, 1,3-dichloro	Benzene 1,4-dichloro	Dichloro-difluoro-methane	Naph-TENhalene	Trans-1,3-dichloro-propene	cis 1,3-dichloro-propene	Vinyl chloride
AG05	09-03-96	<0.050	<0.200	<0.050	<0.050	<0.200	<0.200	<0.100	<0.100	<0.100
NU01	09-10-96	<.050	<.200	<.050	<.050	<.200	<.200	<.100	<.100	<.100
NU05	10-29-96	<.050	<.200	<.050	E.010	<.200	<.200	<.100	<.100	<.100
NU08	09-18-96	<.050	<.200	<.050	<.050	<.200	<.200	<.100	<.100	<.100
NU09	10-02-96	<.050	<.200	<.050	<.050	<.200	<.200	<.100	<.100	<.100
NU19	11-25-96	<.050	<.200	<.050	E.008	<.200	<.200	<.100	<.100	E.050
OU01	10-21-96	<.050	<.200	<.050	<.050	<.200	<.200	<.100	<.100	<.100
OU08	11-20-96	<.050	<.200	<.050	E.008	<.200	<.200	<.100	<.100	<.100
OU18	11-19-97	<.032	<.188	<.054	<.05	<.096	<.25	<.134	<.092	<.112
	11-19-97	<.032	<.188	<.054	<.05	<.096	<.25	<.134	<.092	<.112
UN01	09-09-96	<.050	<.200	<.050	<.050	<.200	<.200	<.100	<.100	<.100
UN02	12-22-96	<.050	<.200	<.050	E.008	<.200	<.200	<.100	<.100	E.080
NU11-TEN	10-31-97	<.032	<.188	<.054	<.05	<.096	E.068	<.134	<.092	<.112
	10-31-97	<.032	<.188	<.054	<.05	<.096	<.25	<.134	<.092	<.112
NU26-TEN	11-21-97	<.032	<.188	<.054	<.05	<.096	<.25	<.134	<.092	<.112
OU01-TEN	11-05-97	<.032	<.188	<.054	<.05	<.096	E.036	<.134	<.092	<.112
	11-05-97	<.032	<.188	<.054	<.05	<.096	<.25	<.134	<.092	<.112
OU05-TEN	11-13-97	<.032	<.188	<.054	<.05	<.096	E.071	<.134	<.092	<.112
	11-13-97	<.032	<.188	<.054	<.05	<.096	<.25	<.134	<.092	<.112
OU06-TEN	11-17-97	<.032	<.188	<.054	<.05	<.096	<.25	<.134	<.092	<.112
PS05	02-05-98	<.032	<.188	<.054	<.05	<.096	<.25	<.134	<.092	<.112
PS11	03-05-98	<.032	<.188	<.054	<.05	<.096	<.25	<.134	<.092	<.112
	03-05-98	<.032	<.188	<.054	<.05	<.096	<.25	<.134	<.092	<.112
PS21	11-30-98	<.032	<.19	<.054	<.05	<.14	<.25	<.13	<.09	<.11
	11-30-98	<.032	<.19	<.054	<.05	<.14	<.25	<.13	<.09	<.11
NE15	09-12-97	<.032	<.188	<.054	<.05	<.096	<.25	<.134	<.092	<.112
	09-12-97	<.032	<.188	<.054	<.05	<.096	<.25	<.134	<.092	<.112
NE22	10-21-97	<.032	<.188	<.054	<.05	<.096	<.25	<.134	<.092	<.112
NE30*	12-10-97	<.032	<.188	<.054	<.05	<.096	<.25	<.134	<.092	<.112
	12-10-97	<.032	<.188	<.054	<.05	<.096	<.25	<.134	<.092	<.112
CP03	07-16-98	<.032	<.188	<.054	<.05	<.138	<.25	<.134	<.092	<.112
CP13	07-29-98	<.032	<.188	<.054	<.05	<.138	<.25	<.134	<.092	<.112
CP26	09-23-98	<.032	<.19	<.054	<.05	<.14	<.25	<.13	<.09	<.11
CP28	10-14-98	<.032	<.19	<.054	<.05	<.14	<.25	<.13	<.09	<.11

Table 46. Concentrations of volatile organic compounds in field-blank samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Trichloro-ethylene	Hexa-chloro-butadiene	Methyl acrylate	Prehnitene	Isodurene	Bromo-ethene	Ether tertbutyl ethyl	Ether tertpentyl methyl	2Butene trans-1,4-dichloro
AG05	09-03-96	<0.050	<0.200	<2.00	<0.050	<0.050	<0.100	<0.100	<0.100	<5.00
NU01	09-10-96	<.050	<.200	<2.00	<.050	<.050	<.100	<.100	<.100	<5.00
NU05	10-29-96	<.050	<.200	<2.00	<.050	<.050	<.100	<.100	<.100	<5.00
NU08	09-18-96	<.050	<.200	<2.00	<.050	<.050	<.100	<.100	<.100	<5.00
NU09	10-02-96	<.050	<.200	<2.00	<.050	<.050	<.100	<.100	<.100	<5.00
NU19	11-25-96	<.050	<.200	<2.00	<.050	<.050	<.100	<.100	<.100	<5.00
OU01	10-21-96	<.050	<.200	<2.00	<.050	<.050	<.100	<.100	<.100	<5.00
OU08	11-20-96	<.050	<.200	<2.00	<.050	<.050	<.100	<.100	<.100	<5.00
OU18	11-19-97	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
	11-19-97	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
UN01	09-09-96	<.050	<.200	<2.00	<.050	<.050	<.100	<.100	<.100	<5.00
UN02	12-22-96	<.050	<.200	<2.00	<.050	<.050	<.100	<.100	<.100	<5.00
NU11-TEN	10-31-97	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
	10-31-97	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
NU26-TEN	11-21-97	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
OU01-TEN	11-05-97	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
	11-05-97	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
OU05-TEN	11-13-97	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
	11-13-97	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
OU06-TEN	11-17-97	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
PS05	02-05-98	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
PS11	03-05-98	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
	03-05-98	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
PS21	11-30-98	<.038	<.14	<1.4	<.23	<.2	<.1	<.054	<.11	<.7
	11-30-98	<.038	<.14	<1.4	<.23	<.2	<.1	<.054	<.11	<.7
NE15	09-12-97	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
	09-12-97	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
NE22	10-21-97	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
NE30*	12-10-97	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
	12-10-97	<.038	<.142	<.612	<.23	<.24	<.1	<.054	<.112	<.692
CP03	07-16-98	<.038	<.142	<1.36	<.23	<.24	<.1	<.054	<.112	<.692
CP13	07-29-98	<.038	<.142	<1.36	<.23	<.24	<.1	<.054	<.112	<.692
CP26	09-23-98	<.038	<.14	<1.4	<.23	<.2	<.1	<.054	<.11	<.7
CP28	10-14-98	<.038	<.14	<1.4	<.23	<.2	<.1	<.054	<.11	<.7

Table 46. Concentrations of volatile organic compounds in field-blank samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Meth-acrylate ethyl	Carbon disulfide	Acetate vinyl	cis-1,2-dichloro-ethene	2-Hexanone	Styrene	O-xylene	1,1-Dichloro-propene	2,2-Dichloro-propane
AG05	09-03-96	<1.00	E0.010	<5.00	<0.050	<5.00	<0.050	<0.050	<0.050	<0.050
NU01	09-10-96	<1.00	<.050	<5.00	<.050	<5.00	<.050	<.050	<.050	<.050
NU05	10-29-96	<1.00	<.050	<5.00	<.050	<5.00	<.050	<.050	<.050	<.050
NU08	09-18-96	<1.00	<.050	<5.00	<.050	<5.00	<.050	<.050	<.050	<.050
NU09	10-02-96	<1.00	<.050	<5.00	<.050	<5.00	<.050	<.050	<.050	<.050
NU19	11-25-96	<1.00	<.050	<5.00	<.050	<5.00	E.010	E.010	<.050	<.050
OU01	10-21-96	<1.00	<.050	<5.00	<.050	<5.00	<.050	<.050	<.050	<.050
OU08	11-20-96	<1.00	E.010	<5.00	<.050	<5.00	<.050	E.009	<.050	<.050
OU18	11-19-97	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
	11-19-97	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
UN01	09-09-96	<1.00	<.050	<5.00	<.050	<5.00	<.050	<.050	<.050	<.050
UN02	12-22-96	<1.00	<.050	<5.00	<.050	<5.00	E.010	E.010	<.050	<.050
NU11-TEN	10-31-97	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
	10-31-97	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
NU26-TEN	11-21-97	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
OU01-TEN	11-05-97	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
	11-05-97	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
OU05-TEN	11-13-97	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
	11-13-97	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
OU06-TEN	11-17-97	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
PS05	02-05-98	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
PS11	03-05-98	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
	03-05-98	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
PS21	11-30-98	<.28	<.37	--	<.038	<.7	<.042	<.06	<.026	<.078
	11-30-98	<.28	<.37	--	<.038	<.7	<.042	<.06	<.026	<.078
NE15	09-12-97	<.278	<.08	--	<.038	<.746	<.042	E.01	<.026	<.078
	09-12-97	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
NE22	10-21-97	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
NE30*	12-10-97	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
	12-10-97	<.278	<.08	--	<.038	<.746	<.042	<.064	<.026	<.078
CP03	07-16-98	<.278	<.37	--	<.038	<.746	<.042	<.064	<.026	<.078
CP13	07-29-98	<.278	<.37	--	<.038	<.746	<.042	<.064	<.026	<.078
CP26	09-23-98	<.28	<.37	--	<.038	<.7	<.042	<.06	<.026	<.078
CP28	10-14-98	<.28	<.37	--	<.038	<.7	<.042	<.06	<.026	<.078

Table 46. Concentrations of volatile organic compounds in field-blank samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	1,3-Dichloropropane	Toluene o-ethyl	Benzene 123-TENrimethyl	Benzene 124-TENrimethyl	Isopropylbenzene	Benzene N-propy	Benzene 135-TENrimethyl	O-Chloro-TENoluene	Toluene p-chlor
AG05	09-03-96	<0.050	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
NU01	09-10-96	<.050	<.05	<.05	<.050	<.050	<.050	<.050	<.050	<.050
NU05	10-29-96	<.050	<.05	<.05	<.050	<.050	<.050	<.050	<.050	<.050
NU08	09-18-96	<.050	<.05	<.05	<.050	<.050	<.050	<.050	<.050	<.050
NU09	10-02-96	<.050	<.05	<.05	<.050	<.050	<.050	<.050	<.050	<.050
NU19	11-25-96	<.050	<.05	<.05	<.050	<.050	<.050	<.050	<.050	<.050
OU01	10-21-96	<.050	<.05	<.05	<.050	<.050	<.050	<.050	<.050	<.050
OU08	11-20-96	<.050	<.05	<.05	<.050	<.050	<.050	<.050	<.050	<.050
OU18	11-19-97	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
	11-19-97	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
UN01	09-09-96	<.050	<.05	<.05	E.007	<.050	<.050	<.050	<.050	<.050
UN02	12-22-96	<.050	<.05	<.05	<.050	<.050	<.050	<.050	<.050	<.050
NU11-TEN	10-31-97	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
	10-31-97	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
NU26-TEN	11-21-97	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
OU01-TEN	11-05-97	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
	11-05-97	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
OU05-TEN	11-13-97	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
	11-13-97	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
OU06-TEN	11-17-97	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
PS05	02-05-98	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
PS11	03-05-98	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
	03-05-98	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
PS21	11-30-98	<.12	<.1	<.12	<.056	<.032	<.042	<.044	<.042	<.056
	11-30-98	<.12	<.1	<.12	<.056	<.032	<.042	<.044	<.042	<.056
NE15	09-12-97	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
	09-12-97	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
NE22	10-21-97	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
NE30*	12-10-97	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
CP03	07-16-98	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
CP13	07-29-98	<.116	<.1	<.124	<.056	<.032	<.042	<.044	<.042	<.056
CP26	09-23-98	<.12	<.1	<.12	<.056	<.032	<.042	<.044	<.042	<.056
CP28	10-14-98	<.12	<.1	<.12	<.056	<.032	<.042	<.044	<.042	<.056

Table 46. Concentrations of volatile organic compounds in field-blank samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Methane bromo chloro	Benzene n-butyl	Benzene	Benzene tert-butyl	p-Isopropyl-TENolue ne	Methyl iodide	123-TENrichl oro-propane	Ethane, 1112-TENetra-chloro	1,2,3-TENrichl oro benzene
AG05	09-03-96	<0.100	<0.050	<0.050	<0.050	<0.050	<0.05	<0.200	<0.050	<0.200
NU01	09-10-96	<.100	<.050	<.050	<.050	<.050	<.05	<.200	<.050	<.200
NU05	10-29-96	<.100	<.050	<.050	<.050	<.050	<.05	<.200	<.050	<.200
NU08	09-18-96	<.100	<.050	<.050	<.050	<.050	<.05	<.200	<.050	<.200
NU09	10-02-96	<.100	<.050	<.050	<.050	<.050	<.05	<.200	<.050	<.200
NU19	11-25-96	<.100	<.050	<.050	<.050	<.050	<.05	<.200	<.050	<.200
OU01	10-21-96	<.100	<.050	<.050	<.050	<.050	<.05	<.200	<.050	<.200
OU08	11-20-96	<.100	<.050	<.050	<.050	<.050	<.05	<.200	<.050	<.200
OU18	11-19-97	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
	11-19-97	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
UN01	09-09-96	<.100	<.050	<.050	<.050	<.050	<.05	<.200	<.050	<.200
UN02	12-22-96	<.100	<.050	<.050	<.050	<.050	<.05	<.200	<.050	<.200
NU11-TEN	10-31-97	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
	10-31-97	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
NU26-TEN	11-21-97	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
OU01-TEN	11-05-97	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
	11-05-97	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
OU05-TEN	11-13-97	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
	11-13-97	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
OU06-TEN	11-17-97	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
PS05	02-05-98	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
PS11	03-05-98	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
	03-05-98	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
PS21	11-30-98	<.044	<.19	<.048	<.1	<.11	<.21	<.16	<.044	<.27
	11-30-98	<.044	<.19	<.048	<.1	<.11	<.21	<.16	<.044	<.27
NE15	09-12-97	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
	09-12-97	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
NE22	10-21-97	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
NE30*	12-10-97	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
	12-10-97	<.044	<.186	<.048	<.096	<.11	<.076	<.07	<.044	<.266
CP03	07-16-98	<.044	<.186	<.048	<.096	<.11	<.208	<.162	<.044	<.266
CP13	07-29-98	<.044	<.186	<.048	<.096	<.11	<.208	<.162	<.044	<.266
CP26	09-23-98	<.044	<.19	<.048	<.1	<.11	<.21	<.16	<.044	<.27
CP28	10-14-98	<.044	<.19	<.048	<.1	<.11	<.21	<.16	<.044	<.27

Table 46. Concentrations of volatile organic compounds in field-blank samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	1,2-Dibromo ethane	Freon-113	Methyl tert-butyl ether	Propene 3-chloro	Methyl isobutyl ketone	Acetone	Bromo-benzene	Ether ethyl	Di-isopropyl ether
AG05	09-03-96	<0.100	<0.050	<0.100	<0.10	<5.00	<5.00	<0.050	<0.10	--
NU01	09-10-96	<.100	<.050	<.100	<.10	<5.00	5.10	<.050	<.10	--
NU05	10-29-96	<.100	<.050	<.100	<.10	<5.00	2.60	<.050	<.10	--
NU08	09-18-96	<.100	<.050	<.100	<.10	<5.00	5.20	<.050	<.10	--
NU09	10-02-96	<.100	<.050	E.050	<.10	<5.00	<5.00	<.050	<.10	--
NU19	11-25-96	<.100	<.050	<.100	<.10	<5.00	<5.00	<.050	<.10	--
OU01	10-21-96	<.100	<.050	<.100	<.10	<5.00	E3.00	<.050	<.10	--
OU08	11-20-96	<.100	<.050	<.100	<.10	<5.00	<5.00	<.050	<.10	--
OU18	11-19-97	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
	11-19-97	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
UN01	09-09-96	<.100	<.050	<.100	<.10	<5.00	5.00	<.050	<.10	--
UN02	12-22-96	<.100	<.050	<.100	<.10	<5.00	20	<.050	<.10	--
NU11-TEN	10-31-97	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
	10-31-97	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
NU26-TEN	11-21-97	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
OU01-TEN	11-05-97	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
	11-05-97	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
OU05-TEN	11-13-97	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
	11-13-97	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
OU06-TEN	11-17-97	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
PS05	02-05-98	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
PS11	03-05-98	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
	03-05-98	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
PS21	11-30-98	<.036	<.032	<.17	<.2	<.37	<5	<.036	<.17	<.098
	11-30-98	<.036	<.032	<.17	<.2	<.37	<5	<.036	<.17	<.098
NE15	09-12-97	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
	09-12-97	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
NE22	10-21-97	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
NE30*	12-10-97	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
	12-10-97	<.036	<.032	<.112	<.196	<.374	<4.90	<.036	<.17	<.098
CP03	07-16-98	<.036	<.032	<.166	<.196	<.374	E5.9	<.036	<.17	<.098
CP13	07-29-98	<.036	<.032	<.166	<.196	<.374	<4.90	<.036	<.17	<.098
CP26	09-23-98	<.036	<.032	<.17	<.2	<.37	<5	<.036	<.17	<.098
CP28	10-14-98	<.036	<.032	<.17	<.2	<.37	<5	<.036	<.17	<.098

Table 46. Concentrations of volatile organic compounds in field-blank samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Meth-acrylo-nitrite	Methyl-ethyl-ketone	Meth-acrylate methyl	Furan, tetra-hydro	Dibromo-chloro-propane	Meta/ para-xylene	Ethane 12-DICL (surrogate) (percent recovery)	Toluene D8 (surrogate) (percent recovery)	Benzene 14BRFL (surrogate) (percent recovery)
AG05	09-03-96	<2.00	<5.00	<1.00	<5.00	<0.500	<0.050	103	99.0	101
NU01	09-10-96	<2.00	E1.20	<1.00	E.90	<.500	<.050	104	101	100
NU05	10-29-96	<2.00	E.400	<1.00	E.30	<.500	E.008	104	98.0	105
NU08	09-18-96	<2.00	E1.20	<1.00	E.90	<.500	<.050	105	98.0	100
NU09	10-02-96	<2.00	<5.00	<1.00	<5.00	<.500	<.050	101	97.0	100
NU19	11-25-96	<2.00	<5.00	<1.00	6.00	<.500	E.030	105	99.0	98.0
OU01	10-21-96	<2.00	<5.00	<1.00	<5.00	<.500	<.050	104	97.0	98.0
OU08	11-20-96	<2.00	E.300	<1.00	E.20	<.500	E.010	102	100	102
OU18	11-19-97	<.57	<1.65	<.35	<1.15	<.214	<.064	96	95	95
	11-19-97	<.57	<1.65	<.35	<1.15	<.214	<.064	98	97	103
UN01	09-09-96	<2.00	E1.20	<1.00	E.80	<.500	<.050	103	100	102
UN02	12-22-96	<2.00	9.30	<1.00	18.9	<.500	E.020	102	96.0	97.0
NU11-TEN	10-31-97	<.57	<1.65	<.35	<1.15	<.214	<.064	101	98	100
	10-31-97	<.57	<1.65	<.35	<1.15	<.214	<.064	106	99	104
NU26-TEN	11-21-97	<.57	<1.65	<.35	<1.15	<.214	<.064	105	98	81
OU01-TEN	11-05-97	<.57	<1.65	<.35	<1.15	<.214	<.064	106	88	66
	11-05-97	<.57	<1.65	<.35	<1.15	<.214	<.064	107	89	74
OU05-TEN	11-13-97	<.57	<1.65	<.35	<1.15	<.214	<.064	106	87	64
	11-13-97	<.57	<1.65	<.35	<1.15	<.214	<.064	101	86	63
OU06-TEN	11-17-97	<.57	<1.65	<.35	<1.15	<.214	<.064	106	99	83
PS05	02-05-98	<.57	<1.65	<.35	<1.15	<.214	<.064	103	102	94
PS11	03-05-98	<.57	<1.65	<.35	<1.15	<.214	<.064	129	101	96
	03-05-98	<.57	<1.65	<.35	<1.15	<.214	<.064	129	101	98
PS21	11-30-98	<.57	<1.6	<.35	<9	<.21	<.06	129	103	107
	11-30-98	<.57	<1.6	<.35	<9	<.21	<.06	133	104	109
NE15	09-12-97	<.57	<1.65	<.35	<1.15	<.214	E.03	103	98	94
	09-12-97	<.57	<1.65	<.35	<1.15	<.214	<.064	103	99	92
NE22	10-21-97	<.57	<1.65	<.35	<1.15	<.214	<.064	96	97	88
NE30*	12-10-97	<.57	<1.65	<.35	<1.15	<.214	<.064	96	101	113
	12-10-97	<.57	<1.65	<.35	<1.15	<.214	<.064	93	97	117
CP03	07-16-98	<.57	<1.65	<.35	<8.79	<.214	<.064	79	104	81
CP13	07-29-98	<.57	<1.65	<.35	<8.79	<.214	<.064	94	99	78
CP26	09-23-98	<.57	<1.6	<.35	<9	<.21	<.06	100	99	99
CP28	10-14-98	<.57	<1.6	<.35	<9	<.21	<.06	107	98	95

Table 47. Concentrations of nutrients and organic carbon compounds in field-replicate samples in the study area, N.J. and N.Y.

[<, less than; --, no data; Medium code 6 designates an environmental sample and Medium code S designates a replicate sample; mg/L, milligrams per liter]

Local identifier	Medium code	Date	Time	Nitrogen, ammonia (mg/L as N)	Nitrogen, nitrite (mg/L as N)	Nitrogen, ammonia + organic (mg/L as N)	Nitrogen, No_2+No_3 (mg/L as N)	Phos-phorus (mg/L as P)	Phos-phorus, ortho (mg/L as P)	Carbon, organic (mg/L as C)
AG05	6	09-03-96	1100	<0.015	<0.01	0.11	4.90	<0.01	<0.01	0.50
	S	09-03-96	1101	<.015	<.01	<.2	4.90	<.01	<.01	.40
NU01	6	09-10-96	1000	<.015	<.01	<.2	7.30	<.01	<.01	.90
	S	09-10-96	1001	.020	<.01	<.2	6.40	<.01	<.01	.80
NU09	6	10-02-96	1000	<.015	<.01	<.2	2.60	<.01	<.01	.50
	S	10-02-96	1001	<.015	<.01	<.2	2.60	<.01	<.01	.40
NU19	6	11-25-96	1000	<.015	<.01	<.2	7.90	.01	<.01	1.0
	S	11-25-96	1001	.030	<.01	<.2	7.70	<.01	<.01	.80
OU01	6	10-21-96	1000	.120	<.01	<.2	2.00	<.01	<.01	1.4
	S	10-21-96	1001	.120	<.01	<.2	1.90	<.01	<.01	1.4
OU08	6	11-20-96	1000	.200	.01	.3	<.050	<.01	<.01	3.2
	S	11-20-96	1001	.190	<.01	.3	<.050	<.01	<.01	3.1
UN01	6	09-09-96	1000	.020	<.01	<.2	.180	<.01	<.01	1.6
	S	09-09-96	1001	<.015	<.01	<.2	.190	<.01	<.01	1.7
PS05	6	02-05-98	0900	<.02	<.01	<.1	3.1	.07	.03	.2
	S	02-05-98	0901	--	--	--	--	--	--	.2
PS14	6	02-27-98	0900	.41	<.01	.4	7.3	<.01	.02	.5
	S	02-27-98	0901	.41	<.01	.4	7.2	<.01	.02	--
PS09	6	03-04-98	0900	<.02	<.01	<.1	1.0	<.01	<.01	.2
	S	03-04-98	0901	<.02	<.01	<.1	1.0	<.01	<.01	--
PS11	6	03-05-98	0900	<.02	<.01	<.1	1.6	<.01	.01	.3
	S	03-05-98	0901	--	--	--	--	--	--	.3
PS01	6	03-09-98	1400	.02	<.01	<.1	2.0	<.01	.01	.2
	S	03-09-98	1401	<.02	<.01	<.1	1.9	<.01	.01	--
PS21	6	11-30-98	1100	.03	<.01	<.1	5.3	<.05	<.01	.2
	S	11-30-98	1101	--	--	--	--	--	--	.2
PS30	6	12-09-98	1400	<.02	<.01	<.1	5.9	<.05	.01	.2
	S	12-09-98	1401	<.02	<.01	<.1	6.0	<.05	.01	--
NE08	6	09-02-97	1100	.11	<.01	<.2	<.05	.10	.10	.2
	S	09-02-97	1101	.11	<.01	<.2	<.05	.09	.09	.2
NE12	6	10-20-97	0900	.01	<.01	<.2	1.4	<.01	<.01	.6
	S	10-20-97	0901	.02	.01	.2	1.4	<.01	<.01	.6
NE20	6	11-12-97	0900	<.02	.03	<.1	.20	.01	.02	.2
	S	11-12-97	0901	.06	.02	<.1	.20	.01	.03	.3
CP09	6	07-28-98	1000	.04	<.01	<.1	<.05	.05	.06	.2
	S	07-28-98	1001	.04	<.01	<.1	<.05	.06	.06	.2
CP24	6	09-16-98	0800	.18	.01	.2	1.9	<.01	<.01	1.0
	S	09-16-98	0801	.17	.01	.2	1.8	<.01	<.01	1.0

Table 48. Concentrations of inorganic compounds and trace elements in field-replicate samples in the study area, N.J. and N.Y.

[<, less than; --, no data; deg. C, degrees Celsius; lab, laboratory; Medium code 6 designates an environmental sample and Medium code S designates a replicate sample; mg/L, milligrams per liter; µg/L; micrograms per liter; µS/cm, microsiemens per centimeter at 25 degrees Celsius]

Local Identifier	Medium code	Date	Time	pH lab (standard units)	Calcium (mg/L as Ca)	Magnesium (mg/L as Mg)	Sodium (mg/L as Na)	Potassium (mg/L as K)	Chloride (mg/L as Cl)	Sulfate (mg/L as So4)
AG05	6	09-03-96	1100	5.1	28	8.5	2.5	1.2	9.6	64
	S	09-03-96	1101	5.2	28	8.6	2.5	1.2	9.3	64
NU01	6	09-10-96	1000	5.1	12	8.5	18	1.8	25	45
	S	09-10-96	1001	4.9	11	8.5	18	1.9	24	46
NU09	6	10-02-96	1000	4.8	13	2.9	20	3.4	52	11
	S	10-02-96	1001	4.8	13	2.8	20	3.5	50	11
NU19	6	11-25-96	1000	4.4	14	5.6	53	2.7	99	18
	S	11-25-96	1001	4.4	14	5.6	54	2.6	100	18
OU01	6	10-21-96	1000	6.2	35	8.2	26	5.1	36	30
	S	10-21-96	1001	6.2	35	8.1	26	4.7	37	30
OU08	6	11-20-96	1000	5.5	3.6	.97	27	.50	33	41
	S	11-20-96	1001	5.4	3.7	1.0	27	.50	34	41
UN01	6	09-09-96	1000	4.8	2.6	1.4	2.5	1.6	4.3	14
	S	09-09-96	1001	4.9	2.5	1.4	2.4	1.5	4.3	14
PS14	6	02-27-98	0900	5.3	3.4	3.3	11	2.6	15	4.5
	S	02-27-98	0901	5.2	3.5	3.4	11	2.6	15	4.5
PS09	6	03-04-98	0900	5.2	.49	.77	2.3	.4	3.5	<.1
	S	03-04-98	0901	5.3	.50	.77	2.3	.4	3.7	<.1
PS01	6	03-09-98	1400	5.7	4.8	1.7	3.1	1.3	7.3	2.0
	S	03-09-98	1401	5.7	4.7	1.6	3.0	1.2	7.5	1.9
PS30	6	12-09-98	1400	4.7	3.3	4.4	3.5	1.8	10	3.4
	S	12-09-98	1401	4.7	3.4	4.5	3.6	2.0	10	3.2
NE08	6	09-02-97	1100	8.1	23	5.3	6.2	.6	1.2	4.9
	S	09-02-97	1101	8.1	23	5.3	6.2	.6	1.2	4.9
NE12	6	10-20-97	0900	6.4	74	23	16	2.6	150	17
	S	10-20-97	0901	6.4	74	22	16	2.6	160	17
NE20	6	11-12-97	0900	6.7	9.4	2.9	5.3	.8	2.7	11
	S	11-12-97	0901	6.8	9.3	2.8	5.0	1.9	2.4	11
CP09	6	07-28-98	1000	5.9	4.0	.76	3.7	1.5	2.3	12
	S	07-28-98	1001	6.0	4.0	.77	3.6	1.5	2.3	12
CP24	6	09-16-98	0800	6.1	6.4	5.2	21	5.7	36	11
	S	09-16-98	0801	6.2	6.3	5.1	21	5.6	36	11

Table 48. Concentrations of inorganic compounds and trace elements in field-replicate samples in the study area, N.J. and N.Y.--Continued

Local Identifier	Date	Fluoride (mg/L as F)	Silica (mg/L as SiO2)	Boron (µg/L as B)	Iron (µg/L as Fe)	Manganese (µg/L as Mn)	Solids, residue at 180 deg. C (mg/L)	Bromide (mg/L as Br)	Specific conduct-ance lab (µS/cm)	Acid neutralizing capacity (mg/L as CaCO3)
AG05	09-03-96	<0.10	9.4	--	5	12	172	0.010	257	5.5
	09-03-96	<.10	9.5	--	5	12	167	.020	257	5.6
NU01	09-10-96	<.10	8.4	--	10	67	148	.050	257	3.7
	09-10-96	<.10	8.5	--	13	68	143	.050	262	3.6
NU09	10-02-96	<.10	2.8	--	4	23	144	.020	240	1.4
	10-02-96	<.10	2.8	--	5	22	129	.020	241	1.7
NU19	11-25-96	.20	5.7	--	11	73	248	.12	464	1.7
	11-25-96	.10	5.8	--	14	74	253	.12	471	1.7
OU01	10-21-96	<.10	3.1	--	6	170	198	.060	387	95
	10-21-96	<.10	3.0	--	5	130	209	.060	386	95
OU08	11-20-96	<.10	1.4	--	13,000	21	135	.020	236	--
	11-20-96	<.10	1.5	--	14,000	23	129	.030	236	--
UN01	09-09-96	.10	4.2	--	22	58	39	.020	61	1.2
	09-09-96	<.10	4.3	--	43	58	33	<.010	59	1.5
PS14	02-27-98	<.1	7.0	--	<10	22	70	.02	129	5.8
	02-27-98	<.1	7.3	--	<10	22	69	.02	130	5.6
PS09	03-04-98	<.1	5.5	--	13	7	<10	.03	29	2.9
	03-04-98	<.1	5.5	--	19	7	<10	.03	28	2.7
PS01	03-09-98	<.1	9.0	--	20	19	47	.04	67	9.2
	03-09-98	<.1	8.9	--	17	19	46	.03	69	9.1
PS30	12-09-98	<.1	9.2	--	<10	16	59	.04	102	<1.0
	12-09-98	<.1	9.3	--	<10	16	61	.04	102	1.4
NE08	09-02-97	.2	13	9.9	60	180	116	.01	188	91
	09-02-97	.2	13	13.0	59	180	117	<.01	188	91
NE12	10-20-97	<.1	22	18.5	270	27	425	.15	717	92
	10-20-97	<.1	22	17.8	260	28	438	.15	717	90
NE20	11-12-97	<.1	24	11.5	<3	<1	77	<.01	102	35
	11-12-97	.1	23	4.9	<3	<1	78	.01	103	35
CP09	07-28-98	<.1	20	17.6	1300	12	55	--	59	9.1
	07-28-98	<.1	21	16.1	1300	13	57	--	60	8.9
CP24	09-16-98	<.1	4.5	43.6	560	15	115	.05	212	21
	09-16-98	<.1	4.5	44.4	540	15	121	.04	216	20

Table 49. Concentrations of selected pesticides in field-replicate samples in the study area, N.J. and N.Y.

[<, less than; E, estimated concentration; all concentrations are in micrograms per liter except as noted; Medium code 6 designates an environmental sample and Medium code S designates a replicate sample. A complete listing of pesticides analyzed for in each sample is included in table 2]

Local identifier	Medium Code	Date	Time	Acetochlor	Alachlor	Atrazine	Benfluralin	Butylate	Carbaryl	Carbofuran	Cyanazine
AG06	6	09-04-96	1000	<0.002	0.060	0.676	<0.002	<0.002	<0.003	E0.066	<0.004
	S	09-04-96	1001	<.002	.043	.669	<.002	<.002	<.010	E.072	<.004
NU03	6	09-11-96	1000	<.002	<.002	.004	<.002	<.002	<.003	<.003	<.004
	S	09-11-96	1001	<.002	<.002	.004	<.002	<.002	<.003	<.003	<.004
NU17	6	10-15-96	1000	<.002	<.002	.013	<.002	<.002	<.003	<.003	<.004
	S	10-15-96	1001	<.002	<.002	.013	<.002	<.002	<.003	<.003	<.004
NU22	6	12-17-96	1400	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
	S	12-17-96	1401	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
OU03	6	10-22-96	1000	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
	S	10-22-96	1001	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
OU13	6	11-21-96	1000	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
	S	11-21-96	1001	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
UN06	6	10-23-96	1400	<.002	<.002	.008	<.002	<.002	<.003	<.003	<.004
	S	10-23-96	1401	<.002	<.002	.009	<.002	<.002	<.003	<.003	<.004
PS05	6	02-18-98	0900	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
	S	02-18-98	0901	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
PS11	6	03-05-98	0900	.0604	E.0039	.0341	<.002	<.002	<.003	<.003	.0087
	S	03-05-98	0901	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
PS21	6	11-30-98	1100	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
	S	11-30-98	1101	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
NE08	6	09-02-97	1100	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
	S	09-02-97	1101	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
NE12	6	10-20-97	0900	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
	S	10-20-97	0901	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
NE20	6	11-12-97	0900	<.002	<.002	E.00079	<.002	<.002	<.003	<.003	<.004
	S	11-12-97	0901	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
CP09	6	07-28-98	1000	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
	S	07-28-98	1001	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
CP24	6	09-16-98	0800	<.002	<.002	E.0028	<.002	<.002	<.003	<.003	<.004
	S	09-16-98	0801	<.002	<.002	.0045	<.002	<.002	<.003	<.003	<.004

Table 49. Concentrations of selected pesticides in field-replicate samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	DCPA	Deethyl atrazine	Diazinon, D10 (surrogate) (percent recovery)	Dieldrin	EPTC	HCH alpha D6 (surrogate) (percent recovery)	Lindane	Linuron	Metolachlor	Metribuzin
AG06	09-04-96	E0.001	E0.098	82.9	<0.001	<0.002	95.2	<0.004	0.024	0.143	0.159
	09-04-96	<.002	E.066	81.1	<.001	<.002	79.7	<.004	.020	.161	.106
NU03	09-11-96	<.002	E.0022	71.4	<.001	<.002	83.9	<.004	<.002	<.002	<.004
	09-11-96	<.002	E.0022	78.1	<.001	<.002	96.2	<.004	<.002	<.002	<.004
NU17	10-15-96	<.002	E.0076	87.7	<.001	<.002	71.3	<.004	<.002	.019	<.004
	10-15-96	<.002	E.0054	89.6	<.001	<.002	88.6	<.004	<.002	.018	<.004
NU22	12-17-96	<.002	<.0020	79.1	.020	<.002	91.8	<.004	<.002	<.002	<.004
	12-17-96	<.002	E.0015	92.8	.019	<.002	92.7	<.004	<.002	<.002	<.004
OU03	10-22-96	<.002	<.0020	80.2	<.001	<.002	102	<.004	<.002	<.002	<.004
	10-22-96	<.002	<.0020	85.0	<.001	<.002	107	<.004	<.002	<.002	<.004
OU13	11-21-96	<.002	E.0028	90.8	<.001	<.002	110	<.004	<.002	<.002	<.004
	11-21-96	<.002	E.0028	91.2	<.001	<.002	110	<.004	<.002	<.002	<.004
UN06	10-23-96	<.002	E.0022	71.1	<.001	<.002	80.6	<.004	<.002	.004	<.004
	10-23-96	<.002	E.0024	66.8	<.001	<.002	84.5	<.004	<.002	.005	<.004
PS05	02-18-98	<.002	<.002	96.2	<.001	<.002	95.9	<.004	<.002	<.002	<.004
	02-18-98	<.002	<.002	93.3	<.001	<.002	106	<.004	<.002	<.002	<.004
PS11	03-05-98	<.002	E.0156	108	<.001	<.002	93.8	<.004	<.002	.671	<.004
	03-05-98	<.002	<.002	93.0	<.001	<.002	89.0	<.004	<.002	<.002	<.004
PS21	11-30-98	<.002	<.002	142	.0460	<.002	119	<.004	<.002	<.002	<.004
	11-30-98	<.002	<.002	138	.0477	<.002	121	<.004	<.002	<.002	<.004
NE08	09-02-97	<.002	<.002	91.0	<.001	<.002	101	<.004	<.002	<.002	<.004
	09-02-97	<.002	<.002	89.2	<.001	<.002	104	<.004	<.002	<.002	<.004
NE12	10-20-97	<.002	E.0028	93.5	<.001	<.002	95.2	<.004	<.002	<.002	<.004
	10-20-97	<.002	<.002	91.8	<.001	<.002	95.2	<.004	<.002	<.002	<.004
NE20	11-12-97	<.002	E.0106	94.6	<.001	<.002	73.0	<.004	<.002	<.002	<.004
	11-12-97	<.002	E.0093	84.9	<.001	<.002	73.3	<.004	<.002	<.002	<.004
CP09	07-28-98	<.002	<.002	84.2	<.001	<.002	91.7	<.004	<.002	<.002	<.004
	07-28-98	<.002	<.002	86.4	<.001	<.002	91.7	<.004	<.002	<.002	<.004
CP24	09-16-98	<.002	<.002	54.2	<.001	<.002	64.2	<.004	<.002	.102	<.004
	09-16-98	<.002	E.0021	88.6	<.001	<.002	90.6	<.004	<.002	.177	<.004

Table 49. Concentrations of selected pesticides in field-replicate samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Naprop-amide	p,p' DDE	Pendi-methalin	Prometon	Simazine	Tebuthiuron	Terbacil	Terbuthyl-azine (surrogate) (percent recovery)	Trifluralin
AG06	09-04-96	0.043	<0.006	0.028	<0.018	0.916	<0.010	<0.007	108	0.014
	09-04-96	.034	<.006	.020	<.018	.873	<.010	<.007	96.9	.0086
NU03	09-11-96	<.003	<.006	<.004	.344	<.005	<.010	<.007	91.1	<.002
	09-11-96	<.003	<.006	<.004	.383	<.005	<.010	<.007	100	<.002
NU17	10-15-96	<.003	<.006	<.004	<.018	.011	<.010	<.007	102	<.002
	10-15-96	<.003	<.006	<.004	<.018	.010	<.010	<.007	93.4	<.002
NU22	12-17-96	<.003	<.006	<.004	<.018	<.005	<.010	<.007	93.3	<.002
	12-17-96	<.003	<.006	<.004	<.018	<.005	<.010	<.007	94.4	<.002
OU03	10-22-96	<.003	<.006	<.004	<.018	<.005	<.010	<.007	82.4	<.002
	10-22-96	<.003	<.006	<.004	<.018	<.005	<.010	<.007	88.9	<.002
OU13	11-21-96	<.003	<.006	<.004	<.018	<.005	<.010	<.007	85.2	<.002
	11-21-96	<.003	<.006	<.004	<.018	<.005	<.010	<.007	84.5	<.002
UN06	10-23-96	<.003	<.006	<.004	<.018	E.0031	<.010	<.007	86.7	.004
	10-23-96	<.003	<.006	<.004	<.018	E.0031	<.010	<.007	92.1	<.002
PS05	02-18-98	<.003	E.00063	<.004	<.018	<.005	<.010	<.007	94.2	<.002
	02-18-98	<.003	<.006	<.004	<.018	<.005	<.010	<.007	100	<.002
PS11	03-05-98	<.003	<.006	<.004	E.0055	<.005	<.010	<.007	112	<.002
	03-05-98	<.003	<.006	<.004	.0214	.0109	<.010	<.007	92.8	<.002
PS21	11-30-98	<.003	<.006	<.004	<.018	<.005	<.010	<.007	117	<.002
	11-30-98	<.003	E.00086	<.004	<.018	<.005	<.010	<.007	122	<.002
NE08	09-02-97	<.003	<.006	<.004	<.018	<.005	<.010	<.007	117	<.002
	09-02-97	<.003	<.006	<.004	<.018	<.005	<.010	<.007	107	<.002
NE12	10-20-97	<.003	<.006	<.004	<.018	<.005	<.010	<.007	128	<.002
	10-20-97	<.003	<.006	<.004	<.018	<.005	<.010	<.007	124	<.002
NE20	11-12-97	<.003	E.0013	<.004	<.018	<.005	<.010	<.007	102	<.002
	11-12-97	<.003	<.006	<.004	<.018	<.005	<.010	<.007	96.3	<.002
CP09	07-28-98	<.003	<.006	<.004	<.018	<.005	<.010	<.007	109	<.002
	07-28-98	<.003	<.006	<.004	<.018	<.005	<.010	<.007	110	<.002
CP24	09-16-98	.005	<.006	<.004	E.0126	.0523	<.010	<.007	56.5	<.002
	09-16-98	.0072	<.006	<.004	E.0151	.0875	<.010	<.007	97.8	<.002

Table 50. Concentrations of selected pesticides in field-replicate samples in the study area, N.J. and N.Y.

[<, less than; E, estimated concentrations; all concentrations are in micrograms per liter except as noted; Medium code 6 designates an environmental sample and Medium code S designates a replicate sample. A complete listing of pesticides analyzed for in each sample is included in table 3]

Local identifier	Medium code	Date	Time	Dicamba	Bentazon	Fluo-meturon	2,4-D	Silvex	Picloram	Norflurazon
AG06	6	09-04-96	1000	<0.040	E0.030	<0.035	<0.035	<0.021	<0.05	<0.024
	S	09-04-96	1001	<.050	E.030	<.035	<.035	<.021	<.05	<.024
NU03	6	09-11-96	1000	<.035	<.014	<.035	<.035	<.021	<.05	<.024
	S	09-11-96	1001	<.035	<.014	<.035	<.035	<.021	<.05	<.024
NU17	6	10-15-96	1000	<.035	<.014	<.035	<.035	<.021	<.05	<.024
	6	10-15-96	1001	<.035	<.014	<.035	<.035	<.021	<.05	<.024
NU22	6	12-17-96	1400	<.035	<.014	<.035	<.035	<.021	<.05	<.024
	S	12-17-96	1401	<.035	<.014	<.035	<.035	<.021	<.05	<.024
OU03	6	10-22-96	1000	<.035	<.014	<.035	<.035	<.021	<.05	<.024
	S	10-22-96	1001	<.035	<.014	<.035	<.035	<.021	<.05	<.024
OU13	6	11-21-96	1000	<.035	<.014	<.035	<.035	<.021	<.05	<.024
	S	11-21-96	1001	<.035	<.014	<.035	<.035	<.021	<.05	<.024
UN06	6	10-23-96	1400	<.035	<.014	<.035	<.035	<.021	<.05	<.024
	S	10-23-96	1401	<.035	<.014	<.035	<.035	<.021	<.05	<.024
NE08	6	09-02-97	1100	<.035	<.014	<.035	<.035	<.021	<.05	<.024
	S	09-02-97	1101	<.035	<.014	<.035	<.035	<.021	<.05	<.024
NE12	6	10-20-97	0900	<.035	<.014	<.035	<.035	<.021	<.05	<.024
	S	10-20-97	0901	<.035	<.014	<.035	<.035	<.021	<.05	<.024
NE20	6	11-12-97	0900	<.035	<.014	<.035	<.035	<.021	<.05	<.024
	S	11-12-97	0901	<.035	<.014	<.035	<.035	<.021	<.05	<.024
CP09	6	07-28-98	1000	<.035	<.014	<.035	<.15	<.021	<.05	<.024
	S	07-28-98	1001	<.035	<.014	<.035	<.15	<.021	<.05	<.024
CP24	6	09-16-98	0800	<.035	<.014	<.035	<.15	<.021	<.05	<.024
	S	09-16-98	0801	<.035	<.014	<.035	<.15	<.021	<.05	<.024

Table 50. Concentrations of selected pesticides in field-replicate samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Methomyl	Fenuron	Diuron	Dinoseb	Carbofuran	Carbaryl	Aldicarb sulfoxide	BDMC (surrogate) (percent recovery)
AG06	09-04-96	<0.017	<0.013	0.06	0.080	E0.020	<0.008	<0.021	84
	09-04-96	<.017	<.013	.06	.110	E.020	<.008	<.021	81
NU03	09-11-96	<.017	<.013	<.02	<.035	<.028	<.008	<.021	92
	09-11-96	<.017	<.013	<.02	<.035	<.028	<.008	<.021	82
NU17	10-15-96	<.017	<.013	<.02	<.035	<.028	<.008	<.021	86
	10-15-96	<.017	<.013	<.02	<.035	<.028	<.008	<.021	85
NU22	12-17-96	<.017	<.013	<.02	<.035	<.028	<.008	<.021	77
	12-17-96	<.017	<.013	<.02	<.035	<.028	<.008	<.021	82
OU03	10-22-96	<.017	<.013	<.02	<.035	<.028	<.008	<.021	77
	10-22-96	<.017	<.013	<.02	<.035	<.028	<.008	<.021	73
OU13	11-21-96	<.017	<.013	<.02	<.035	<.028	<.008	<.021	76
	11-21-96	<.017	<.013	<.02	<.035	<.028	<.008	<.021	91
UN06	10-23-96	<.017	<.013	<.02	<.035	<.028	<.008	<.021	74
	10-23-96	<.017	<.013	<.02	<.035	<.028	<.008	<.021	E14
NE08	09-02-97	<.017	<.013	<.02	<.035	<.028	<.008	<.021	90
	09-02-97	<.017	<.013	<.02	<.035	<.028	<.008	<.021	82
NE12	10-20-97	<.017	<.013	<.02	<.035	<.028	<.008	<.021	102
	10-20-97	<.017	<.013	<.02	<.035	<.028	<.008	<.021	111
NE20	11-12-97	<.017	<.013	<.02	<.035	<.028	<.008	<.021	82
	11-12-97	<.017	<.013	<.02	<.035	<.028	<.008	<.021	78
CP09	07-28-98	<.017	<.013	<.02	<.035	<.12	<.008	<.021	82
	07-28-98	<.017	<.013	<.02	<.035	<.12	<.008	<.021	87
CP24	09-16-98	<.017	.05	1.9	<.035	<.12	<.008	<.021	75
	09-16-98	<.017	.07	1.9	<.035	<.12	<.008	<.021	80

Table 51. Concentrations of selected pesticides in field-replicate samples in the study area, N.J. and N.Y.

[<, less than; --, no data; all concentrations are in micrograms per liter; Medium code 6 designates an environmental sample and Medium code S designates a replicate sample. A complete listing of pesticides analyzed for in each sample is included in table 4]

Local Identifier	Medium code	Date	Time	Lindane	Chlordane, technical	Dieldrin	Heptachlor epoxide	Picloram	2,4-D	Dicamba
AG06	6	09-04-96	1000	<0.004	--	<0.001	--	<0.010	<0.010	0.030
	S	09-04-96	1001	<.004	<.100	<.001	<.010	<.010	<.010	.030
NU03	6	09-11-96	1000	<.004	<.100	<.001	<.010	<.010	<.010	<.010
	S	09-11-96	1001	<.004	<.100	<.001	<.010	<.010	<.010	<.010
NU17	6	10-15-96	1000	<.004	<.100	<.001	<.010	<.010	<.010	<.010
	S	10-15-96	1001	<.004	<.100	<.001	<.010	<.010	<.010	<.010
NU22	6	12-17-96	1400	<.004	<.100	.020	<.010	--	--	--
	S	12-17-96	1401	<.004	<.100	.019	<.010	--	--	--
OU03	6	10-22-96	1000	<.004	--	<.001	--	<.010	<.010	<.010
	S	10-22-96	1001	<.004	<.100	<.001	<.010	<.010	<.010	<.010
OU13	6	11-21-96	1000	<.004	<.100	<.001	<.010	<.010	<.010	<.010
	S	11-21-96	1001	<.004	<.100	<.001	<.010	<.010	<.010	<.010
UN06	6	10-23-96	1400	<.004	<.100	<.001	<.010	<.010	<.010	<.010
	S	10-23-96	1401	<.004	<.100	<.001	<.010	<.010	<.010	<.010

Table 52. Concentrations of volatile organic compounds in field-replicate samples in the study area, N.J. and N.Y.

[<, less than; --, no data; E, estimated concentration; all concentrations are in micrograms per liter except as noted; Medium code 6 designates an environmental sample and Medium code S designates a replicate sample]

Local identifier	Medium code	Date	Time	Di-bromo-methane	Bromo-dichloro-methane	Carbon tetra-chloride	1,2 Di-chloro-ethane	Bromoform	Chloro-dibromo-methane	Chloroform	Toluene
AG05	6	09-03-96	1100	--	--	--	--	--	--	--	--
	S	09-03-96	1101	<0.10	<0.100	<0.050	<0.050	<0.200	<0.100	<0.050	<0.050
NU01	6	09-10-96	1000	--	--	--	--	--	--	--	--
	S	09-10-96	1001	<.10	E.020	<.050	<.050	<.200	<.100	4.70	<.050
NU09	6	10-02-96	1000	--	--	--	--	--	--	--	--
	S	10-02-96	1001	<.10	<.100	<.050	<.050	<.200	<.100	.790	<.050
NU19	6	11-25-96	1000	--	--	--	--	--	--	--	--
	S	11-25-96	1001	<.10	<.100	<.050	<.050	<.200	<.100	E.020	<.050
OU01	6	10-21-96	1000	--	--	--	--	--	--	--	--
	S	10-21-96	1001	<.10	<.100	<.050	<.050	<.200	<.100	<.050	<.050
OU08	6	11-20-96	1000	--	--	--	--	--	--	--	--
	S	11-20-96	1001	<.10	<.100	<.050	<.050	<.200	<.100	<.050	<.050
UN01	6	09-09-96	1000	--	--	--	--	--	--	--	--
	S	09-09-96	1001	<.10	<.100	<.050	<.050	<.200	<.100	1.30	<.050
PS05	6	02-05-98	0900	<.05	<.048	<.088	<.134	<.104	<.182	.101	<.038
	S	02-05-98	0901	<.05	<.048	<.088	<.134	<.104	<.182	.102	<.038
PS11	6	03-05-98	0900	<.05	<.048	<.088	<.134	<.104	<.182	.259	<.038
	S	03-05-98	0901	<.05	<.048	<.088	<.134	<.104	<.182	.260	<.038
PS21	6	11-30-98	1100	<.05	<.048	E.014	<.13	<.1	<.18	.229	<.05
	S	11-30-98	1101	<.05	<.048	E.012	<.13	<.1	<.18	.232	<.05
NE08	6	09-02-97	1100	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
	S	09-02-97	1101	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
NE12	6	10-20-97	0900	<.05	<.048	<.088	<.134	<.104	<.182	E.04	<.038
	S	10-20-97	0901	<.05	<.048	<.088	<.134	<.104	<.182	E.04	<.038
NE20	6	11-12-97	0900	<.05	<.048	<.088	<.134	<.104	<.182	E.0072	<.038
	S	11-12-97	0901	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.038
CP09	6	07-28-98	1000	<.05	<.048	<.088	<.134	<.104	<.182	<.052	<.054
	S	07-28-98	1001	<.05	<.048	<.088	<.134	<.104	<.182	<.052	E.011
CP24	6	09-16-98	0800	<.05	<.048	<.088	<.13	<.1	<.18	2.60	<.05
	S	09-16-98	0801	<.05	<.048	<.088	<.13	<.1	<.18	2.61	<.05

Table 52. Concentrations of volatile organic compounds in field-replicate samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Benzene	Chloro-benzene	Chloro-ethane	Ethyl-benzene	Methyl-cloride	Methy-lene chloride	Tetra-chloro-ethylene	Trichloro-fluoro-methane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene
AG05	09-03-96	--	--	--	--	--	--	--	--	--	--
	09-03-96	<0.050	<0.050	<0.100	<0.050	<0.200	<0.100	<0.050	<0.100	<0.050	<0.100
NU01	09-10-96	--	--	--	--	--	--	--	--	--	--
	09-10-96	<.050	<.050	<.100	<.050	E.010	<.100	<.050	.510	<.050	E.010
NU09	10-02-96	--	--	--	--	--	--	--	--	--	--
	10-02-96	<.050	<.050	<.100	<.050	<.200	<.100	E.002	<.100	<.050	E.007
NU19	11-25-96	--	--	--	--	--	--	--	--	--	--
	11-25-96	<.050	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
OU01	10-21-96	--	--	--	--	--	--	--	--	--	--
	10-21-96	<.050	<.050	<.100	<.050	<.200	<.100	<.050	<.100	<.050	<.100
OU08	11-20-96	--	--	--	--	--	--	--	--	--	--
	11-20-96	<.050	<.050	E.030	E.005	E.050	<.100	<.050	<.100	.120	<.100
UN01	09-09-96	--	--	--	--	--	--	--	--	--	--
	09-09-96	<.050	<.050	<.100	<.050	E.010	<.100	<.050	E.050	<.050	<.100
PS05	02-05-98	<.032	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
	02-05-98	<.032	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
PS11	03-05-98	<.032	<.028	<.12	<.03	<.254	<.382	.130	<.092	<.066	.163
	03-05-98	<.032	<.028	<.12	<.03	<.254	<.382	.134	E.021	<.066	.165
PS21	11-30-98	<.1	<.028	<.12	<.03	<.25	<.38	.150	E.077	.563	.0975
	11-30-98	<.1	<.028	<.12	<.03	<.25	<.38	.147	E.076	.568	E.087
NE08	09-02-97	<.032	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
	09-02-97	<.032	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE12	10-20-97	<.032	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
	10-20-97	<.032	<.028	<.12	<.03	<.254	<.382	<.038	<.092	<.066	<.044
NE20	11-12-97	<.032	<.028	<.12	<.03	E.009	<.382	<.038	<.092	<.066	<.044
	11-12-97	<.032	<.028	<.12	<.03	E.01	<.382	<.038	<.092	<.066	<.044
CP09	07-28-98	<.1	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
	07-28-98	<.1	<.028	<.12	<.03	<.254	<.382	<.102	<.092	<.066	<.044
CP24	09-16-98	<.1	<.028	<.12	<.03	<.25	<.38	<.1	<.09	<.066	<.044
	09-16-98	<.1	<.028	<.12	<.03	<.25	<.38	<.1	<.09	<.066	<.044

Table 52. Concentrations of volatile organic compounds in field-replicate samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	1,1-1-Trichloro-ethane	Benzene-o-dichloro	1,2-Dichloro-propane	Trans-1,2-dichloro-ethene	Benzene, 1,3-dichloro	Benzene 1,4-dichloro-	Dichloro-difluoro-methane	Naph-thalene	Vinyl chloride
AG05	09-03-96	--	--	--	--	--	--	--	--	--
	09-03-96	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.200	<0.200	<0.100
NU01	09-10-96	--	--	--	--	--	--	--	--	--
	09-10-96	E.010	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU09	10-02-96	--	--	--	--	--	--	--	--	--
	10-02-96	E.003	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
NU19	11-25-96	--	--	--	--	--	--	--	--	--
	11-25-96	E.010	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
OU01	10-21-96	--	--	--	--	--	--	--	--	--
	10-21-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
OU08	11-20-96	--	--	--	--	--	--	--	--	--
	11-20-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
UN01	09-09-96	--	--	--	--	--	--	--	--	--
	09-09-96	<.050	<.050	<.050	<.050	<.050	<.050	<.200	<.200	<.100
PS05	02-05-98	E.0048	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
	02-05-98	E.0044	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
PS11	03-05-98	.587	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
	03-05-98	.587	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
PS21	11-30-98	.355	<.048	<.068	<.032	<.054	<.05	<.14	<.25	<.11
	11-30-98	.346	<.048	<.068	<.032	<.054	<.05	<.14	<.25	<.11
NE08	09-02-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
	09-02-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE12	10-20-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
	10-20-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
NE20	11-12-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
	11-12-97	<.032	<.048	<.068	<.032	<.054	<.05	<.096	<.25	<.112
CP09	07-28-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
	07-28-98	<.032	<.048	<.068	<.032	<.054	<.05	<.138	<.25	<.112
CP24	09-16-98	<.032	<.048	<.068	<.032	<.054	<.05	<.14	<.25	<.11
	09-16-98	<.032	<.048	<.068	<.032	<.054	<.05	<.14	<.25	<.11

Table 52. Concentrations of volatile organic compounds in field-replicate samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Trichloro-ethylene	Prehnitene	Ether tert-pentyl methyl	Carbon disulfide	cis-1,2-dichloro-ethene	Styrene	O-xylene	1,3-Dichloro-propane	Toluene o-ethyl
AG05	09-03-96	--	--	--	--	--	--	--	--	--
	09-03-96	E0.002	<0.050	<0.100	E0.006	<0.050	<0.050	<0.050	<0.050	<0.05
NU01	09-10-96	--	--	--	--	--	--	--	--	--
	09-10-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
NU09	10-02-96	--	--	--	--	--	--	--	--	--
	10-02-96	<.050	<.050	E.009	<.050	<.050	<.050	<.050	<.050	<.05
NU19	11-25-96	--	--	--	--	--	--	--	--	--
	11-25-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
OU01	10-21-96	--	--	--	--	--	--	--	--	--
	10-21-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
OU08	11-20-96	--	--	--	--	--	--	--	--	--
	11-20-96	<.050	<.050	<.100	E.020	<.050	E.003	<.050	<.050	<.05
UN01	09-09-96	--	--	--	--	--	--	--	--	--
	09-09-96	<.050	<.050	<.100	<.050	<.050	<.050	<.050	<.050	<.05
PS05	02-05-98	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
	02-05-98	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
PS11	03-05-98	.210	<.23	<.112	<.08	E.035	<.042	<.064	<.116	<.1
	03-05-98	.208	<.23	<.112	<.08	E.034	<.042	<.064	<.116	<.1
PS21	11-30-98	.190	<.23	<.11	<.37	E.0078	<.042	<.06	<.12	<.1
	11-30-98	.190	<.23	<.11	<.37	<.038	<.042	<.06	<.12	<.1
NE08	09-02-97	<.038	<.23	<.112	E.02	<.038	<.042	<.064	<.116	<.1
	09-02-97	<.038	<.23	<.112	E.04	<.038	<.042	<.064	<.116	<.1
NE12	10-20-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
	10-20-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
NE20	11-12-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
	11-12-97	<.038	<.23	<.112	<.08	<.038	<.042	<.064	<.116	<.1
CP09	07-28-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
	07-28-98	<.038	<.23	<.112	<.37	<.038	<.042	<.064	<.116	<.1
CP24	09-16-98	<.038	<.23	<.11	<.37	<.038	<.042	<.06	<.12	<.1
	09-16-98	<.038	<.23	<.11	<.37	<.038	<.042	<.06	<.12	<.1

Table 52. Concentrations of volatile organic compounds in field-replicate samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Benzene 123-Trimethyl	Benzene 124-Trimethyl	Isopropyl benzene	Benzene N-propy	Benzene 135-Trimethyl	O-chloro-toluene	Benzene n-butyl	Benzene sec butyl	Benzene tert-butyl
AG05	09-03-96	--	--	--	--	--	--	--	--	--
	09-03-96	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
NU01	09-10-96	--	--	--	--	--	--	--	--	--
	09-10-96	<.05	E.006	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU09	10-02-96	--	--	--	--	--	--	--	--	--
	10-02-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
NU19	11-25-96	--	--	--	--	--	--	--	--	--
	11-25-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
OU01	10-21-96	--	--	--	--	--	--	--	--	--
	10-21-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	<.050	<.050
OU08	11-20-96	--	--	--	--	--	--	--	--	--
	11-20-96	<.05	<.050	<.050	<.050	<.050	<.050	<.050	E.010	E.090
UN01	09-09-96	--	--	--	--	--	--	--	--	--
	09-09-96	<.05	E.010	<.050	<.050	<.050	<.050	<.050	<.050	<.050
PS05	02-05-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
	02-05-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
PS11	03-05-98	<.124	<.056	<.032	<.042	<.044	E.011	<.186	<.048	<.096
	03-05-98	<.124	<.056	<.032	<.042	<.044	E.011	<.186	<.048	<.096
PS21	11-30-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
	11-30-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
NE08	09-02-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
	09-02-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE12	10-20-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
	10-20-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
NE20	11-12-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
	11-12-97	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP09	07-28-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
	07-28-98	<.124	<.056	<.032	<.042	<.044	<.042	<.186	<.048	<.096
CP24	09-16-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1
	09-16-98	<.12	<.056	<.032	<.042	<.044	<.042	<.19	<.048	<.1

Table 52. Concentrations of volatile organic compounds in field-replicate samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	p-Isopropyl-toluene	Methyl iodide	123-Trichloro-propane	Ethane, 1112-tetra-chloro	1,2-Dibromo ethane	Freon-113	Methyl tert-butyl ether	Acetone	Bromo-benzene
AG05	09-03-96	--	--	--	--	--	--	--	--	--
	09-03-96	<0.050	<0.05	<0.200	<0.050	<0.100	<0.050	<0.100	<5.00	<0.050
NU01	09-10-96	--	--	--	--	--	--	--	--	--
	09-10-96	<.050	<.05	<.200	<.050	<.100	<.050	.250	<5.00	<.050
NU09	10-02-96	--	--	--	--	--	--	--	--	--
	10-02-96	<.050	<.05	<.200	<.050	<.100	<.050	.270	<5.00	<.050
NU19	11-25-96	--	--	--	--	--	--	--	--	--
	11-25-96	<.050	<.05	<.200	<.050	<.100	<.050	<.100	<5.00	<.050
OU01	10-21-96	--	--	--	--	--	--	--	--	--
	10-21-96	<.050	<.05	<.200	<.050	<.100	<.050	16.8	<5.00	<.050
OU08	11-20-96	--	--	--	--	--	--	--	--	--
	11-20-96	<.050	<.05	<.200	<.050	<.100	<.050	3.80	<5.00	<.050
UN01	09-09-96	--	--	--	--	--	--	--	--	--
	09-09-96	<.050	<.05	<.200	<.050	<.100	<.050	E.050	<5.00	<.050
PS05	02-05-98	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
	02-05-98	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
PS11	03-05-98	<.11	<.076	<.07	<.044	<.036	<.032	.450	<4.90	<.036
	03-05-98	<.11	<.076	<.07	<.044	<.036	<.032	.429	<4.90	<.036
PS21	11-30-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036
	11-30-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036
NE08	09-02-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
	09-02-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
NE12	10-20-97	<.11	<.076	<.07	<.044	<.036	<.032	4.26	<4.90	<.036
	10-20-97	<.11	<.076	<.07	<.044	<.036	<.032	4.37	<4.90	<.036
NE20	11-12-97	<.11	<.076	<.07	<.044	<.036	<.032	<.112	<4.90	<.036
	11-12-97	<.11	<.076	<.07	<.044	<.036	<.032	.172	<4.90	<.036
CP09	07-28-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
	07-28-98	<.11	<.208	<.162	<.044	<.036	<.032	<.166	<4.90	<.036
CP24	09-16-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036
	09-16-98	<.11	<.21	<.16	<.044	<.036	<.032	<.17	<5	<.036

Table 52. Concentrations of volatile organic compounds in field-replicate samples in the study area, N.J. and N.Y.--Continued

Local identifier	Date	Ether ethyl	Di-isopropyl ether	Methyl-ethyl-ketone	Furan, tetra-hydro	Dibromo-chloro-propane	Meta/ para-xylene	Ethane 12-DICL (surrogate) (percent recovery)	Toluene D8 (surrogate) (percent recovery)	Benzene 14BRFL (surrogate) (percent recovery)
AG05	09-03-96	--	--	--	--	--	--	--	--	--
	09-03-96	<0.10	--	<5.00	<5.00	<0.500	<0.050	104	100	102
NU01	09-10-96	--	--	--	--	--	--	--	--	--
	09-10-96	<.10	--	<5.00	<5.00	<.500	<.050	106	99.0	101
NU09	10-02-96	--	--	--	--	--	--	--	--	--
	10-02-96	<.10	--	<5.00	<5.00	<.500	<.050	103	98.0	101
NU19	11-25-96	--	--	--	--	--	--	--	--	--
	11-25-96	<.10	--	<5.00	<5.00	<.500	<.050	106	98.0	97.0
OU01	10-21-96	--	--	--	--	--	--	--	--	--
	10-21-96	<.10	--	<5.00	<5.00	<.500	<.050	104	100	98.0
OU08	11-20-96	--	--	--	--	--	--	--	--	--
	11-20-96	<.10	--	E.500	<5.00	<.500	<.050	105	98.0	102
UN01	09-09-96	--	--	--	--	--	--	--	--	--
	09-09-96	<.10	--	<5.00	<5.00	<.500	<.050	106	100	101
PS05	02-05-98	<.17	<.098	<1.65	<1.15	<.214	<.064	99	102	93
	02-05-98	<.17	<.098	<1.65	<1.15	<.214	<.064	102	104	99
PS11	03-05-98	<.17	<.098	<1.65	<1.15	<.214	<.064	128	102	96
	03-05-98	<.17	<.098	<1.65	<1.15	<.214	<.064	127	100	98
PS21	11-30-98	<.17	<.098	<1.6	<9	<.21	<.06	127	103	107
	11-30-98	<.17	<.098	<1.6	<9	<.21	<.06	125	104	105
NE08	09-02-97	<.17	<.098	<1.65	<1.15	<.214	<.064	101	100	114
	09-02-97	<.17	<.098	<1.65	<1.15	<.214	<.064	96	101	103
NE12	10-20-97	<.17	<.098	<1.65	<1.15	<.214	<.064	102	98	97
	10-20-97	<.17	<.098	<1.65	<1.15	<.214	<.064	103	96	96
NE20	11-12-97	<.17	<.098	<1.65	<1.15	<.214	<.064	108	97	84
	11-12-97	<.17	<.098	<1.65	<1.15	<.214	<.064	101	97	87
CP09	07-28-98	<.17	<.098	<1.65	<8.79	<.214	<.064	121	99	92
	07-28-98	<.17	<.098	<1.65	<8.79	<.214	<.064	124	100	90
CP24	09-16-98	<.17	<.098	<1.6	<9	<.21	<.06	97	99	99
	09-16-98	<.17	<.098	<1.6	<9	<.21	<.06	97	100	100

REFERENCES CITED

Ayers, M.A., Kennen, J.G., Stackelberg, P.E., 2000, Water quality in the Long Island – New Jersey Coastal Drainages, New York and New Jersey, 1996-98, U.S. Geological Survey Circular 1201, 39 p.

Barringer, T. H., Dunn, D., Battaglin, W. A., and Vowinkel, E. F., 1990, Problems and methods involved in relating land use to ground-water quality, Water Resources Bulletin, v. 26, no. 1, p. 1-9.

Brenton, R.W., and Arnett, T.L., 1993, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory--Determination of dissolved organic carbon by uv-promoted persulfate oxidation and infrared spectrometry: U.S. Geological Survey Open-File Report 92-480, 12 p.

Childress, C.J., Foreman, W.T., Connor, B.F., Maloney, T.J., 1999, New reporting procedures based on long-term method detection levels and some considerations for interpretations of water-quality data provided by the U.S. Geological Survey National Water Quality Laboratory: U.S. Geological Survey Open-File Report 99-193, 19 p.

Christenson, S.C., and Rea, A., 1993, Ground-water quality in the Oklahoma City urban area *in* Regional Ground-Water Quality, Alley, W.A., ed., Van Nostrand Reinhold, New York, 634 p.

Clawges, R.M., Stackelberg, P.E., Ayers, M.A., and Vowinkel, E.F., 1999, Nitrate, volatile organic compounds, and pesticides in ground water – A summary of selected studies from New Jersey and Long Island, New York: U.S. Geological Survey Water-Resources Investigations Report 99-4027, 32 p.

Connor, B.F., Rose, D.L., Noriega, M.C., Murtagh, L.K., and Abney, S.R., 1998, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory – Determination of 86 volatile organic compounds in water by gas chromatography/mass spectrometry, including detections less than reporting limits: U.S. Geological Survey Open-File Report 97-829, 78 p.

Faires, L.M., 1993, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory--Determination of metals in water by inductively coupled plasma-mass spectrometry: U.S. Geological Survey Open-File Report 92-634, 28 p.

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

Gill, H.E., and Vecchioli, J., 1965, Availability of ground water in Morris County, New Jersey: State of New Jersey Department of Conservation and Economic Development, Division of Water Policy and Supply, Special Report 25, 37 p.

Gilliom, R.J., Alley, W.M., and Gurtz, M.E., 1995, Design of the National Water Quality Assessment Program: Occurrence and distribution of water-quality conditions: U.S. Geological Survey Circular 1112, 33 p.

Isphording, W. C., and Lodding, W., 1969, Facies changes in sediments of Miocene age in New Jersey, *in* Subitzky, Seymour, ed., Geology of selected areas in New Jersey and Eastern Pennsylvania and guidebook of excursions: Proceedings of the 1969 Annual Meeting of the Geological Society of America and Associated Societies, Atlantic City, New Jersey, 1969: New Brunswick, New Jersey, Rutgers University Press, p. 7-13.

Kasabach, H.F., 1966, Geology and ground-water resources of Hunterdon County, New Jersey: New Jersey Bureau of Geology Special Report No. 24, 38 p.

Koterba, M. T., Wilde, F.D., and Lapham, W. W., 1995, Ground-water data- collection protocols and procedures for the National Water-Quality Assessment program: collection and documentation or water-quality samples and related data: U. S. Geological Survey Open-File Report 95-399, 113 p.

Leamond, C.E., Haefner, R.J., Cauller, S.J., and Stackelberg, P.E., 1992, Ground-water quality in five areas of differing land use in Nassau and Suffolk Counties, Long Island, New York: U.S. Geological Survey Open-File Report 91-180, 67 p.

Menheer, M.A., and Bringham, M.E., 1997, Ground-water sampling methods and quality-control data for the Red River of the North Basin, Minnesota, North Dakota, and South Dakota, 1993-95: U.S. Geological Survey Water-Resources Investigation Report 96-4317, 34 p.

Michalski, A., 1990, Hydrogeology of the Brunswick (Passaic) Formation and implications for ground-water-monitoring practice: Ground-Water Monitoring Review, Fall 1990, p. 134-143.

Nawyn, J.P., 1998, Withdrawals of ground water and surface water in New Jersey, 1991-92: U.S. Geological Survey Open-File Report 98-282, 57 p.

Nemickas, B., and Carswell, L. D., 1976, Stratigraphic and hydrologic relationship of the Piney Point aquifer and the Alloway Clay Member of the Kirkwood Formation in New Jersey: Journal Research U. S. Geological Survey, v. 4, no. 1, Jan-Feb., p. 1-7.

New Jersey Department of Environmental Protection, 1993, New Jersey 1992 State water quality inventory report, chapter IV, 44 p.

New Jersey Department of Environmental Protection, 1996, Water for the 21st century: The vital Resource—New Jersey Statewide Water Supply Plan, chapter VI, 46 p.

Rima, D.R., 1955, Ground-water resources of the Lansdale area, Pennsylvania: Pennsylvania Geological Survey Progress Report 146, 24 p.

Scott, J. C., 1990, Computerized stratified random site-selection approaches for design of a ground-water-quality sampling network: U. S. Geological Survey Water-Resources Investigations Report 90-4101, 109 p.

Serfes, M.E., 1994, Natural ground-water quality in bedrock of the Newark Basin, New Jersey: New Jersey Geological Survey, Geological Survey Report GSR-35, 29 p.

Serfes, M.E., in press, Ground-water quality in the bedrock aquifers of the Highlands and Valley and Ridge Physiographic Provinces of New Jersey: New Jersey Geological Survey Report 39.

Sloto, R.A., and Schreffler, C.L., 1994, Hydrogeology and ground-water quality of northern Bucks County, Pennsylvania: U.S. Geological Survey Water-Resources Investigations Report 94-4109, 85 p.

Stackelberg, P.E., Hopple, J.A., and Kauffman, L.J., 1997, Occurrence of nitrate, pesticides, and volatile organic compounds in the Kirkwood-Cohansey aquifer system, southern New Jersey: U.S. Geological Survey Water-Resources Investigations Report 97-4241, 8 p.

Stackelberg, P.E., Kauffman, L.J., Baehr, A.L., and Ayers, M.A., 2000, Comparison of nitrate, pesticides, and volatile organic compounds in samples from monitoring and public-supply wells, Kirkwood-Cohansey aquifer system, southern New Jersey: U.S. Geological Survey Water-Resources Investigation Report 00-4123, 78 p.

Szabo, Z., Taylor, T.A., Payne, D.F., and Ivahnenko, T., 1997, Relation of hydrogeologic characteristics to distribution of radioactivity in ground water, Newark Basin, New Jersey: U.S. Geological Survey Water-Resources Investigations Report 95-4136, 134 p.

U.S. Geological Survey, 1999, The quality of our Nation's waters – Nutrients and pesticides: U.S. Geological Survey Circular 1225, 82 p.

Volkert, R.A., 1988, Geology, ground-water occurrence, and ground-water quality in the middle Proterozoic rocks of the New Jersey Highlands: Proceedings of Geology and Hydrology of New Jersey—A two day field course presented by Rutgers University, Department of Geological Sciences in cooperation with Cook College, New Brunswick, New Jersey, p. B1-B35.

Werner, S.L., Burkhardt, M.R., and DeRusseau S.N., 1996, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory – Determination of pesticides in water by Carbopak-B solid-phase extraction and high-performance liquid chromatography: U.S. Geological Survey Open-File Report 96-216, 42 p.

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

Zapecza, O. S., 1989, Hydrogeologic framework of the New Jersey Coastal Plain: Regional aquifer-system analysis--Northern Atlantic Coastal Plain: U. S. Geological Survey Professional Paper 1404-B, 49 p.

Zaugg, S.D., Sandstrom, M.W., Smith, S.G., and Fehlberg, K.M., 1995, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory – Determination of pesticides in water by C-18 solid-phase extraction and capillary-column gas chromatography/mass spectrometry with selected-ion monitoring: U.S. Geological Survey Open-File Report 95-181, 49 p.

Hibbs, Kathleen L., Stackelberg, Paul E., Kauffman, Leon J., and Ayers, Mark A.—WATER-QUALITY DATA FOR SELECTED WELLS IN NEW JERSEY AND NEW YORK, 1996-98—U.S. Geological Survey Open-File Report 01-378