Inorganic and Organic Constituents and Grain-Size Distribution in Streambed Sediment and Ancillary Data for the Connecticut, Housatonic, and Thames River Basins Study Unit, 1992–94

By SANDRA L. HARRIS

U.S. Geological Survey
Open-File Report 96-397

National Water-Quality Assessment

Marlborough, Massachusetts
1997

U.S. DEPARTMENT OF THE INTERIOR
BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY
Gordon P. Eaton, Director

For additional information write to:

Chief, Massachusetts-Rhode Island District
U.S. Geological Survey
Water Resources Division
28 Lord Road, Suite 280
Marlborough, MA 01752

Copies of this report can be purchased from:

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

CONTENTS

FIGURES

TABLES

CONVERSION FACTORS AND ABBREVIATED WATER-QUALITY UNITS

CONVERSION FACTORS

Multiply	By	To obtain
centimeter (cm)	0.3937	inch
gram (g)	0.03527	ounce, avoirdupois
hectare (ha)	2.471	acre
kilogram (kg)	2.205	pound avoirdupois
micrometer (μm)	0.0000394	inch
milliliter (mL)	0.0338	ounce, fluid
millimeter (mm)	0.03937	inch
square kilometer (km^2)	0.3861	square mile

ABBREVIATED WATER-QUALITY UNITS

Microgram per liter (μg/L) is a unit expressing the concentration of a chemical constituent in solution as weight (microgram) of solute per unit volume (liter) of water.

FOREWORD

The mission of the U.S. Geological Survey (USGS) is to assess the quantity and quality of the earth resources of the Nation and to provide information that will assist resource managers and policymakers at Federal, State, and local levels in making sound decisions. Assessment of water-quality conditions and trends is an important part of this overall mission.

One of the greatest challenges faced by water-resources scientists is acquiring reliable information that will guide the use and protection of the Nation's water resources. That challenge is being addressed by Federal, State, interstate, and local water-resource agencies and by many academic institutions. These organizations are collecting water-quality data for a host of purposes that include: compliance with permits and water-supply standards; development of remediation plans for specific contamination problems; operational decisions on industrial, wastewater, or water-supply facilities; and research on factors that affect water quality. An additional need for water-quality information is to provide a basis on which regional- and national-level policy decisions can be based. Wise decisions must be based on sound information. As a society we need to know whether certain types of water-quality problems are isolated or ubiquitous, whether there are significant differences in conditions among regions, whether the conditions are changing over time, and why these conditions change from place to place and over time. The information can be used to help determine the efficacy of existing water-quality policies and to help analysts determine the need for and likely consequences of new policies.

To address these needs, the U.S. Congress appropriated funds in 1986 for the USGS to begin a pilot program in seven project areas to develop and refine the National Water-Quality Assessment (NAWQA) Program. In 1991, the USGS began full implementation of the program. The NAWQA Program builds upon an existing base of water-quality studies of the USGS, as well as those of other Federal, State, and local agencies. The objectives of the NAWQA Program are to:

- Describe current water-quality conditions for a large part of the Nation's freshwater streams, rivers, and aquifers.
- Describe how water quality is changing over time.
- Improve understanding of the primary natural and human factors that affect water-quality conditions.

This information will help support the development and evaluation of management, regulatory, and monitoring decisions by other Federal, State, and local agencies to protect, use, and enhance water resources.

The goals of the NAWQA Program are being achieved through ongoing and proposed investigations of 60 of the Nation's most important river basins and aquifer systems, which are referred to as study units. These study units are distributed throughout the Nation and cover a diversity of hydrogeologic settings. More than two-thirds of the Nation's freshwater use occurs within the 60 study units and more than two-thirds of the people served by public water-supply systems live within their boundaries.

National synthesis of data analysis, based on aggregation of comparable information obtained from the study units, is a major component of the program. This effort focuses on selected water-quality topics using nationally consistent information. Comparative studies will explain differences and similarities in observed water-quality conditions among study areas and will identify changes and trends and their causes. The first topics addressed by the national synthesis are pesticides, nutrients, volatile organic compounds, and aquatic biology. Discussions on these and other water-quality topics will be published in periodic summaries of the quality of the Nation's ground and surface water as the information becomes available.

This report is an element of the comprehensive body of information developed as part of the NAWQA Program. The program depends heavily on the advice, cooperation, and information from many Federal, State, interstate, Tribal, and local agencies and the public. The assistance and suggestions of all are greatly appreciated.

Robert M. Hirsch

Robert M. Hirsch
Chief Hydrologist

PAGE v FOLLOWS

Inorganic and Organic Constituents and Grain-Size Distribution in Streambed Sediment and Ancillary Data for the Connecticut, Housatonic, and Thames River Basins Study Unit, 1992–94

By Sandra L. Harris

Abstract

Concentrations of inorganic and organic constituents, and grain-size distributions were analyzed for streambed-sediment samples collected at 43 sites in the Connecticut, Housatonic, and Thames River Basins study unit during 1992-94. These data were collected to define the occurrence and distribution of major and trace elements and hydrophobic organic chemicals in the study unit. Of the 45 elements analyzed for in these samples, 41 of them were detected at one or more of the sites, with 11 of the U.S. Environmental Protection Agency priority pollutants detected at nearly all sites. The most frequently detected chlorinated organic compounds included DDT, chlordane, and PCB. The most frequently detected semivolatile compounds were the polycyclic aromatic hydrocarbons chrysene, fluoranthene, and pyrene.

Ancillary data, including percentage by land-use class, percentage by bedrock type, number of permitted dischargers by class, and permitted volumes of discharge by class were tabulated for the drainage basin of each sample-site location. Most of the study unit is forested, with a few of the southern basins predominantly urban areas. In addition, most of the study unit is underlain by crystalline bedrock, however, the Connecticut River Valley of central Massachusetts and Connecticut is underlain by arkosic sedimentary bedrock; north-central Massachusetts and eastern Vermont is underlain by calcareous metamorphic rock; and the Housatonic River Valley in western Connecticut and Massachusetts and eastern New York is underlain by carbonate-rich bedrock. The largest number of permitted dischargers in the study unit are wastewater-treatment facilities and heavy industry, but the largest volumes of water are discharged from utilities as cooling water for thermoelectric power generation.

INTRODUCTION

This study was done as part of the U.S. Geological Survey's National Water Quality Assessment (NAWQA) Program, which uses an integrated approach of investigating physical, chemical, and biological components of an aquatic system to assess water quality on a basin-wide scale (Leahy and Wilber, 1991; Gurtz, 1994). Surface-water investigations for the study area include inorganic and organic analyses of water, streambed sediment, fish tissue, and benthic invertebrates (Gilliom and others, 1995). Streambed sediments are natural accumulators of trace elements and hydrophobic organic chemicals and integrate inputs from multiple natural, agricultural, and industrial sources. The chemistry of streambed sediment influences the biotic quality of a stream as benthic organisms ingest particulate matter and accumulate constituents (Forstner and Wittmann, 1979; Luoma, 1983). Subsequent ingestion of benthic organisms transfers accumulated constituents up through the food chain. Hence, streambed sediments were collected and analyzed to define the occurrence and distribution of trace elements and hydrophobic organic chemicals in each of the the study areas investigated as part of the NAWQA program.

The purpose of this report is to present the analysis of inorganic and organic constituents and grain-size distribution for streambed-sediment samples collected at 43 sites across the Connecticut, Housatonic, and Thames River Basins NAWQA Study Unit, and the associated ancillary data, which includes percentage by land-use class, percentage by bedrock type, number of permitted dischargers by class, and permitted volumes of discharge by class.

The basins that comprise the area in which this study was done are in the Connecticut, Housatonic, and Thames River Basins Study Unit; these basins include all drainage basins flowing into Long Island Sound from the coast of Connecticut. The study area includes eastern Vermont, western New Hampshire, west-central Massachusetts, nearly all of Connecticut, and small parts of New York and Rhode Island—an area of about 15,750 mi^2 (Grady and Garabedian, 1991). Although occupying less than 0.5 percent of the total area of the Nation, the study area is inhabited by about 4.5 million people—about 2 percent of the Nation's population (Grady and Garabedian, 1991).

Streambed-sediment samples were collected during three sampling periods: June-November 1992, July-September 1993, and August-September 1994. Sampling sites were selected to maximize the coverage of major basins in the study unit, in addition to the availability of fine sediments and ease of access to the sites for sample collection by wading. A total of 45 samples were collected from 43 sampling sites. The location and description of sampling sites where streambed sediment was collected are shown in figure 1 and table 1.

METHODS

Samples were collected following nationally consistent protocols (Shelton and Capel, 1994). Sampling took place during summer or autumn low flows to minimize seasonal variability. Samples were collected from the active stream channel using a stainless-steel scoop. Five to 15 representative subsamples of the oxidized portion of streambed sediment (top 1-2 cm) were collected for each site and thoroughly homogenized.

Inorganic Constituents

Samples for inorganic analyses were wet-sieved through a 63-μm mesh polyethylene sieve, using minimal amounts of additional native water. The supernatant was decanted after settling overnight in 500-mL plastic jars. All samples were submitted for analysis to the U.S. Geological Survey's Branch of Geochemistry Laboratory in Lakewood, Colorado. Inorganic samples were analyzed for 47 constituents, including three forms of carbon. For most of the inorganic constituents, decomposition methods were total digestions—greater than 95 percent of the constituent of interest was recovered during the analysis. Inorganic carbon was determined using partial digestion techniques. Details of inorganic decomposition and analytical methods are provided in Arbogast (1990).

Organic Constituents

Samples for organic constituent analyses were wet-sieved through a 2-mm stainless-steel sieve into 500-mL glass jars. All samples were submitted for analysis to the U.S. Geological Survey's National Water-Quality Laboratory (NWQL) in Lakewood, Colorado. Organic samples were analyzed for 32 chlorinated organic constituents, 64 semivolatile organic constituents, and three forms of carbon. In addition, six organic compounds were added (spiked) to the sediment samples as surrogates to use as indicators of compound recoveries from the samples (Jones, 1987). Details of organic decomposition and analytical methods are provided in Wershaw and others (1987) and Fishman (1993). The NWQL performs regular quality assurance using blind samples, internal reference samples, and surrogates (Jones, 1987).

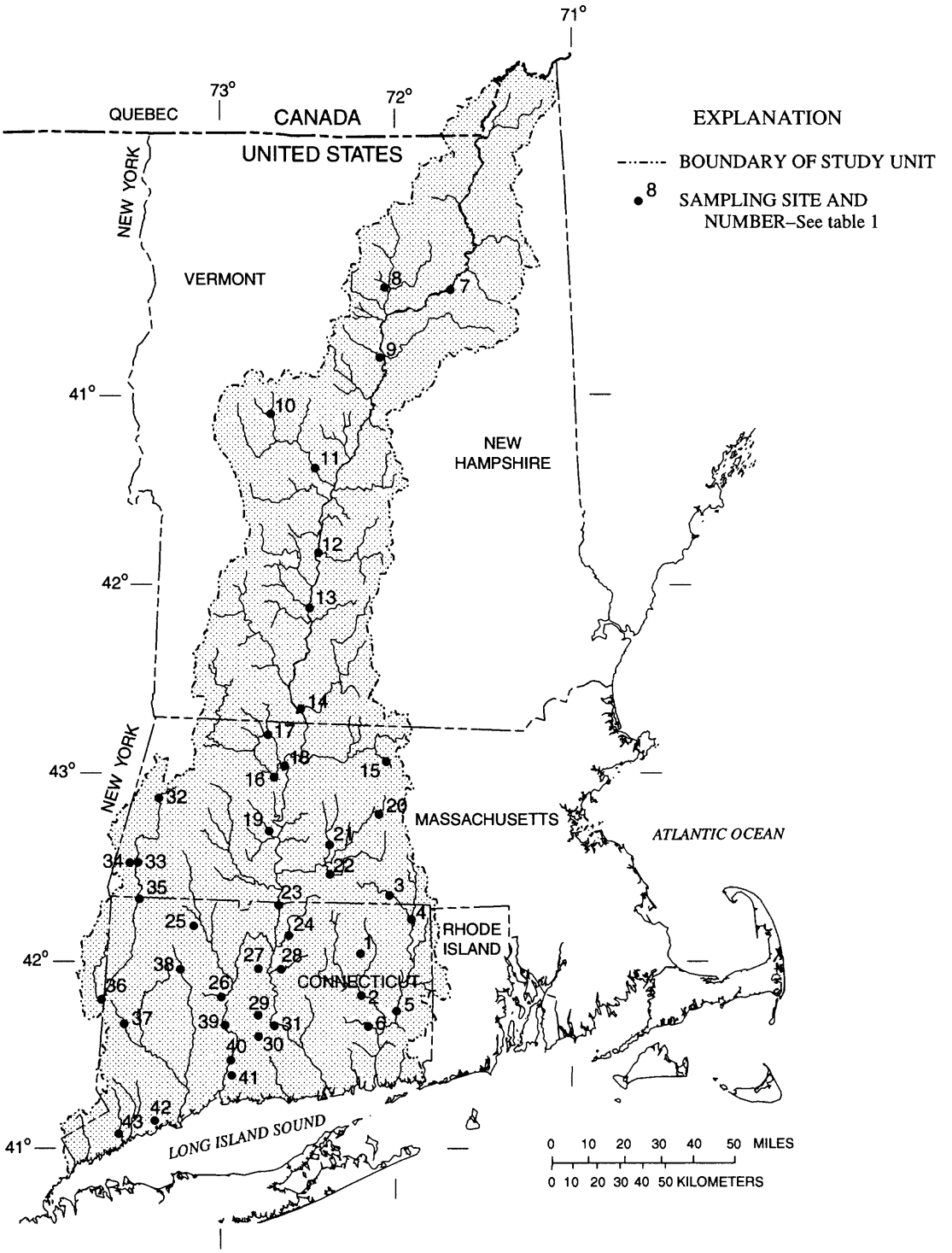

Figure 1. Location of sampling sites where streambed sediment was collected for analysis of inorganic and organic constituents, grain-size distribution, and ancillary data, Connecticut, Housatonic, and Thames River Basins, 1992–94.

Grain-Size Distribution

Samples for grain-size distribution analysis were wet-sieved through a 2-mm stainless steel sieve into a 500-mL plastic jar. Samples were submitted for analysis to the U.S. Geological Survey Sediment Laboratory in Lemoyne, Pennsylvania.

INORGANIC AND ORGANIC CONSTITUENTS IN STREAMBED SEDIMENT

Concentrations of 45 inorganic constituents by sampling site and basin are shown in table 2. Inorganic constituents that typically occur in concentrations of greater than 1,000 parts per million (>0.1 percent) are considered major elements; these include aluminum, calcium, iron, magnesium, phosphorus, potassium, sodium, titanium, and carbon (organic and inorganic). In this report, major elements are reported in concentration units of percent, or grams per 100 grams. All these elements, with the exception of sodium, show a less than ten-fold range of values for the sediment samples collected. Minor, or trace elements, typically occur in concentrations of less than 1,000 parts per million and are reported in concentration units of micrograms per gram. Several of these elements were not detected in the samples collected; these include bismuth, gold, holmium, and tantalum. Of the 41 elements detected at one or more sites, several were detected infrequently, for example, europium was only detected in three samples and molybdenum in two samples. Several of the U.S. Environmental Protection Agency's priority pollutants, including antimony, arsenic, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc, were detected at nearly all sites, and all showed a greater than a ten-fold range of values (table 2).

Concentrations of the chlorinated organic analyses by sampling site and basin are shown in table 3 and are reported in concentration units of micrograms per kilogram or parts per billion. These compounds either have been or are used as pesticides (or pesticide metabolites), or in the case of the polychlorinated biphenyls (PCBs), have been used as hydraulic and coolant fluids. Many of these compounds were never detected, including aldrin, chloroneb, DCPA, endrin, (alpha, beta)-BHC, lindane, heptachlor, heptachlor epoxide, hexachlorobenzene, isodrin, (*o,p*; *p,p*)-methoxychlor, oxychlordane, pentachloroanisole, and (*cis*, *trans*)-permethrin. The most frequently detected chlorinated organic compound in the collected samples was (*p,p*)-DDE, a metabolite of the now banned pesticide DDT. In addition to (*p,p*)-DDT and its metabolites (*p,p*-DDD; *o,p*-DDD; *p,p*-DDE), other organochlorine compounds detected five or more times in the samples included (*cis*, *trans*) chlordane and its metabolites (*cis, trans*)-nonchlor, dieldrin, and PCB. The three forms of carbon analyzed for the collected samples, including inorganic, organic, and total carbon, also are shown in table 3 in units of grams per kilogram.

Concentrations of the semivolatile organic analyses by sampling site and basin are shown in table 4 and are reported in concentration units of micrograms per kilogram or parts per billion. Of the 64 compounds shown in this table, 13 of them were not detected in any of the collected samples. Among the detected compounds, 10 of them were detected at 40 or more sites, and three (chrysene, fluoranthene, pyrene) were detected at all sites. The three compounds detected at all sites are polycyclic aromatic hydrocarbons; the sources of these these compounds are typically coal tar, petroleum, and combustion byproducts.

GRAIN-SIZE DISTRIBUTION IN STREAMBED SEDIMENT

Grain-size distribution data for each streambed-sediment sample are presented in table 5. The table gives the percentage of the sample in the sand, silt, or clay size ranges. Sediment particles range from less than 2 µm to greater than 63 µm for sand, from less than 63 µm to greater than 40 µm for silt, and less than 40 µm for clay. The sediment at sites where samples were collected were composed primarily of sand, with most sites having sand percentages greater than 80 percent. A small number of sites (7) had sediments that were greater than 20 percent silt, however, in all cases the clay content of the collected sediments was less than 5 percent.

ANCILLARY DATA

Land Use

Land use was calculated for the drainage basin for each sampling site using digital land-use and land-cover data. The digital data were extracted using the USGS Geographic Information Retrieval and Analysis System (GIRAS) (Mitchell and others, 1977) from 1:250,000-scale maps. The minimum polygon size ranges from 4 to 16 hectares, depending on land-use class (U.S. Geological Survey, 1990). The data extraction was based on the classification system and definitions of the Level II Land Use and Land Cover from Anderson and others (1976). The land-use and land-cover maps represent data as of the mid-1970's. The digital data were updated to include an area of recent urban/suburban development using 1990 population data (Hitt, 1994). Percentage of drainage basin area in the Level II land-use classes of Anderson and others (1976) are presented in table 6. Although the basin sizes range from less than 10 to more than 10,000 mi^2, most of the basin areas in the study unit are predominantly forested. A few of the southern basins are primarily urban (for example the Norwalk and Rooster Rivers), and several basins contain major agricultural areas (for example Broad Brook and Ten Mile River).

The land-use percentages from table 6 were generalized further into four categories—urban, agricultural, forested, and other—consistent with the Level I land-use classes of Anderson and others (1976). Three of the environmental characteristics of sample-site locations were normalized to a common basis of per unit drainage basin area. The three characteristics include population, number of NPDES dischargers, and volume of permitted discharge; normalization resulted in the basin characteristics of population density, NPDES-discharger density, and volume of NPDES discharge per unit area. The generalized land-use percentages and normalized characteristics for each drainage basin are presented in table 7.

Bedrock

The study area can be subdivided into four areas based on the generalized chemical and mineralogical character of the near-surface bedrock. The four general bedrock areas are: (1) most of the study area, which is underlain by siliceous crystalline bedrock, (2) the area of the Connecticut River Valley in central Connecticut and Massachusetts that is underlain predominantly by arkosic sedimentary rocks, (3) areas in north-central Massachusetts and eastern Vermont that are underlain by calcareous metamorphic rocks, and (4) most areas of the Housatonic River Valley in western Connecticut and Massachusetts and eastern New York that are underlain by carbonate-rich rocks. The four bedrock areas were delineated and digitized by S.J. Grady (U.S. Geological Survey, written commun., 1996) from 1:250,000 maps prepared by Doll and others (1961), G.R. Robinson, Jr. (U.S. Geological Survey, written commun., 1992), and Peper (1995). Percentage of drainage basin area in the four bedrock areas were calculated for each sample-site location and are presented in table 8.

Point Sources

More than 700 point sources have permits to discharge into streams in the study area. Information about permitted dischargers was calculated from the U.S. Environmental Protection Agency (USEPA) National Pollutant Discharge Elimination System (NPDES) for each drainage basin containing a sampling-site location. The NPDES includes information such as permitted discharge volume, location, and Standard Industrial Classification code by class of discharge. The classes of discharge are (1) wastewater-treatment facilities and food processing, (2) textile manufacturers, (3) paper and paperboard products manufacturers, (4) wood and paper products, stone, glass, and concrete manufacturers, (5) chemicals, plastics, and printing, (6) metals manufacturers, including smelting and foundries, (7) heavy industry, including machinery and metal products (8) light industry, including electronics, instrument, and miscellaneous manufacturing, and (9) utilities and electricity production. The number of NPDES dischargers in the drainage basins of each

sampling-site locations are tabulated by class in table 9. The permitted volume, in thousands of gallons per day, of NPDES discharge in the drainage basins of each sampling-site locations are tabulated by class in table 10. The largest number of permitted dischargers are wastewater-treatment facilities and heavy industry (table 9), but the largest permitted volumes of discharged water are from the utilities (table 10) as they use large amounts of water for cooling during thermoelectric power generation.

REFERENCES CITED

Anderson, J.R., Hardy, E.E., Roach, J.T., and Witmer, R.E., 1976, A land use and land cover classification system for use with remote sensor data: U.S. Geological Survey Professional Paper 964, 28 p.

Arbogast, B.F. (ed.), 1990, Quality assurance manual for the Branch of Geochemistry, U.S. Geological Survey: U.S. Geological Survey Open-File Report 90-668, 311 p.

Doll, C.G., Cady, W.M., Thompson, J.B. Jr., and Billings, M.P., (eds. and compilers), 1961, Centennial geology map of Vermont: Montpelier, Vt., Vermont Geological Survey, 1:250,000.

Fishman, M.J. (ed.), 1993, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory—Determination of inorganic and organic constituents in water and fluvial sediments: U.S. Geological Survey Open-File Report 93-125, 217 p.

Forstner, Ulrich, and Wittmann, G.T.W. (eds.), 1979, Metal pollution in the aquatic environment: New York, Springer-Verlag, 486 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.

Grady, S.J., and Garabedian, S.P., 1991, National water-quality assessment program—The Connecticut River and Long Island Sound Coastal Rivers: U.S. Geological Survey Open-File Report 91-159, 1 p.

Gurtz, M.E., 1994, Design of biological components of the National Water-Quality Assessment (NAWQA) program, *in* Loeb, S.L., and Space, A. (eds.), Biological Monitoring of Aquatic Systems, Lewis Publishers, Boca Raton, Fla., p. 323–354.

Hitt, K.J., 1994, Refining 1970's land-use data with 1990 population data to indicate new residential development: U.S. Geological Survey Water-Resources Investigations Report 94-4250, 15 p.

Jones, B.E., 1987, Quality control manual of the U.S. Geological Survey's National Water-Quality Laboratory: U.S. Geological Survey Open-File Report 87-457, 17 p.

Leahy, P.P., and Wilber, W.G., 1991, National water-quality assessment program: U.S. Geological Survey Open-File Report 91-54, 1 p.

Luoma, S.N., 1983, Bioavailability of trace metals to aquatic organisms—a review: The Science of the Total Environment, v. 28, p. 1–22.

Mitchell, W.B., Guptill, S.C., Anderson, K.E., Fegeas, R.G., and Hallam, C.A., 1977, GIRAS—A geographic information retrieval and analysis system for handling land use and land cover data: U.S. Geological Survey Professional Paper 1059, 16 p.

Peper, J.D., 1995, Preliminary maps showing the chemical and mineralogic character of near-surface bedrock in the northern Connecticut River Basin, Vermont, New Hampshire, and Maine: U.S. Geological Survey Open-File Report 95-0069.

Shelton, L.R., and Capel, P.D., 1994, Guidelines for collecting and processing samples of stream bed sediment for analysis of trace elements and organic contaminants for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 94-458, 20 p.

U.S. Geological Survey, 1990, Land use and land cover digital data from 1:250,000- and 1:100,000-scale maps: U.S. Geological Survey, National Mapping Program Technical Instructions Data User's Guide 4, 33 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, book 5, chap. A3, 80 p.

TABLES 1–10

—PAGE 9 FOLLOWS—

Table 1. Descriptions of sampling sites where streambed sediment was collected for analysis of inorganic and organic constituents, grain-size distribution, and ancillary data, Connecticut, Housatonic, and Thames River Basins, 1992–94

[Site No.: See figure 1 for location of sampling sites. No., Number. Latitude and longitude are given in degrees, minutes, and seconds]

Site No.	Station or site identification No.	Station name	Latitude ° ′ ″	Longitude ° ′ ″	State	County
		Thames River Basin				
1	01121000	Mount Hope River near Warrenville, CT	41 50 37	72 10 10	09	015
2	01122610	Shetucket River at South Windham, CT	41 40 56	72 09 59	09	015
3	420420072010001	Quinebaug River at Sandersdale, MA	42 04 18	72 00 55	25	027
4	01125100	French River at North Grosvenordale, CT	41 58 41	71 54 03	09	015
5	01126850	Quinebaug River at Clayville, CT	41 37 18	71 58 51	09	011
6	01127500	Yantic River at Yantic, CT	41 33 31	72 07 19	09	011
		Connecticut River Basin				
7	01131400	Connecticut River near Lancaster, NH	44 25 38	71 40 46	33	007
8	01135300	Sleepers River near St Johnsbury, VT	44 26 04	72 02 22	50	005
9	01139000	Wells River at Wells River, VT	44 09 03	72 03 55	50	017
10	01142500	Ayers Brook at Randolph, VT	43 56 04	72 39 30	50	017
11	01144010	White River near West Hartford, VT	43 42 23	72 25 03	50	027
12	01152540	Sugar River near West Claremont, NH	43 23 53	72 23 37	33	019
13	01153150	Connecticut River at South Charlestown, NH	43 11 00	72 26 34	33	019
14	01160990	Ashuelot River at Hinsdale, NH	42 47 08	72 28 54	33	005
15	01163200	Otter River at Otter River, MA	42 35 18	72 02 29	25	027
16	01170005	Deerfield River at West Deerfield, MA	42 31 40	72 38 04	25	011
17	01170103	Green River at East Colrain, MA	42 41 59	72 39 56	25	011
18	01170500	Connecticut River at Montague City, MA	42 34 43	72 34 30	25	011
19	01171500	Mill River at Northampton, MA	42 19 05	72 39 21	25	015
20	01173000	Ware River at Intake Works, near Barre, MA	42 23 26	72 03 39	25	027
21	01175500	Swift River at West Ware, MA	42 16 04	72 19 59	25	015
22	420910072200001	Quaboag River at Palmer, MA	42 09 10	72 19 53	25	013
23	01183850	Connecticut River near Longmeadow, MA	42 01 53	72 36 14	25	013
24	01184490	Broad Brook at Broad Brook, CT	41 54 50	72 33 00	09	003
25	415645073025001	Still River at Nelsons Corner, CT	41 56 55	73 02 58	09	005
26	01189000	Pequabuck River at Forestville, CT	41 40 23	72 54 04	09	003
27	01191000	North Branch Park River at Hartford, CT	41 47 03	72 42 31	09	003
28	01192500	Hockanum River near East Hartford, CT	41 46 59	72 35 21	09	003
29	413615072423001	Mattabasset River near Little River, CT	41 36 09	72 42 29	09	007
30	01192883	Coginchaug River at Middlefield, CT	41 31 12	72 42 23	09	007
31	01192990	Connecticut River near Portland, CT	41 33 46	72 37 24	09	007
		Housatonic River Basin				
32	422640073144501	East Branch Housatonic River at Pittsfield, MA	42 26 43	73 14 40	25	003
33	421140073214501	Housatonic River at Great Barrington, MA	42 11 35	73 21 33	25	003
34	01198000	Green River at Great Barrington, MA	42 11 31	73 23 28	25	003
35	01198200	Konkapot River at Ashley Falls, MA	42 03 11	73 19 35	25	003
36	01200000	Tenmile River near Gaylordsville, CT	41 39 32	73 31 44	36	027
37	01201335	Housatonic River near Town Hill, CT	41 33 51	73 24 33	09	005
38	414640073071001	West Branch Naugatuck River near Torrington, CT	41 46 44	73 07 06	09	005
		Long Island Sound Coastal River Basins				
39	413345072531001	Quinnipiac River near Stillmans Corner, CT	41 33 48	72 52 54	09	009
40	412600072511501	Quinnipiac River at Quinnipiac, CT	41 25 54	72 51 04	09	009
41	01196580	Muddy River near North Haven, CT	41 22 07	72 50 31	09	009
42	01208869	Rooster River near Fairfield, CT	41 11 19	73 13 18	09	001
43	01209710	Norwalk River at Winnipauk, CT	41 08 07	73 25 36	09	001

Table 2. Concentrations of inorganic constituents and organic carbon in streambed sediment of the Connecticut, Housatonic, and Thames River Basins, 1992–94

[Site No.: See figure 1 for location of station or site and table 1 for description of station or site. Samples were analyzed by the U.S. Geological Survey's National Water-Quality Laboratory in Lakewood, Colorado. All values are in microgram per gram unless otherwise noted. No., number; <, actual value is less than value shown]

Site No.	Station or site identification No.	Date	Time	Aluminum (percent)	Anti-mony	Arsenic	Barium	Beryl-lium	Bismuth	Cad-mium
				Thames River Basin						
1	01121000	9-03-93	1345	6.1	0.3	3.3	440	2	<10	1.0
		8-03-94	1100	5.9	.4	3.8	460	2	<10	.8
2	01122610	9-03-93	1030	3.0	1.0	3.8	240	1	<10	2.5
3	420420072010001	8-08-94	1400	6.3	3.0	10	470	2	<10	2.9
4	01125100	8-04-94	0900	4.7	7.0	32	390	3	<10	5.5
5	01126850	7-20-93	1000	6.3	4.0	5.4	360	2	<10	2.3
6	01127500	9-03-93	0920	5.9	1.0	24	450	2	<10	1.7
				Connecticut River Basin						
7	01131400	7-22-93	0900	5.9	0.3	5.4	350	2	<10	0.4
8	01135300	8-05-93	0830	5.7	<.2	3.4	350	2	<10	.3
9	01139000	9-07-93	1300	6.6	.4	2.3	400	3	<10	.5
10	01142500	9-07-93	1600	8.2	.6	12	550	2	<10	.3
11	01144010	8-04-93	0935	7.6	.3	6.1	440	2	<10	.5
12	01152540	9-07-93	1700	6.6	.9	8.8	470	2	<10	.9
13	01153150	7-16-93	1145	7.5	.3	5.5	460	2	<10	.4
14	01160990	9-08-93	1400	6.0	.9	5.8	440	3	<10	4.2
15	01163200	9-08-93	1730	6.2	5.0	14	540	4	<10	2.6
		8-01-94	1400	5.8	4.0	22	530	3	<10	2.4
16	01170005	9-08-93	1000	8.3	.6	3.0	550	2	<10	1.0
17	01170103	9-08-93	0730	6.9	.4	3.4	370	2	<10	.9
18	01170500	7-15-93	1250	7.2	.3	4.3	400	2	<10	.6
19	01171500	8-15-94	1400	7.9	2.0	5.1	570	3	<10	1.1
20	01173000	9-08-93	1900	3.8	.8	12	270	2	<10	1.8
21	01175500	8-02-94	0930	5.9	.5	1.6	370	2	<10	.5
22	420910072200001	8-02-94	1500	5.5	2.0	6.4	500	2	<10	1.2
23	01183850	7-14-93	1330	8.2	.3	4.8	540	2	<10	.7
24	01184490	10-22-92	1445	7.0	1.0	6.0	790	2	<10	.8
25	415645073025001	8-17-94	1100	5.6	1.0	4.6	550	2	<10	1.1
26	01189000	11-17-92	1035	6.6	2.0	4.9	430	2	<10	3.3
27	01191000	8-11-94	0900	7.5	.5	5.5	550	2	<10	.8
28	01192500	10-21-92	1530	6.6	2.0	5.3	740	2	<10	2.0
29	413615072423001	8-10-94	0930	7.2	4.0	7.4	560	2	<10	6.2
30	01192883	8-10-94	1400	6.7	.6	8.7	510	2	<10	.7
31	01192990	7-13-93	1430	7.0	.3	3.7	430	2	<10	1.6
				Housatonic River Basin						
32	422640073144501	8-16-94	0900	6.5	6.0	11	500	2	<10	2.0
33	421140073214501	8-16-94	1830	6.7	2.0	9.9	530	2	<10	2.7
34	01198000	8-16-94	1600	8.0	.6	13	510	2	<10	.5
35	01198200	8-17-94	0900	6.8	<.1	3.8	600	2	<10	.4
36	01200000	10-19-92	1430	6.2	.9	6.2	440	2	<10	.3
37	01201335	7-21-93	0901	6.9	.6	4.7	530	2	<10	.8
38	414640073071001	8-17-94	1600	6.4	.7	3.7	550	2	<10	3.3
				Long Island Sound Coastal River Basins						
39	413345072531001	8-09-94	1400	6.5	1.0	8.0	620	2	<10	11
40	412600072511501	8-10-94	1700	6.6	3.0	6.7	680	2	<10	4.0
41	01196580	8-09-94	0930	6.0	.6	6.1	730	2	<10	.5
42	01208869	6-29-93	1100	6.1	2.0	8.3	430	4	<10	4.4
43	01209710	10-20-92	1640	6.0	2.0	7.8	490	3	<10	2.0

Table 2. Concentrations of inorganic constituents and organic carbon in streambed sediment of the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	Calcium (percent)	Cerium	Chromium	Cobalt	Copper	Europium	Gallium
				Thames River Basin						
1	01121000	9-03-93	1345	0.95	66	79	27	33	<2	14
		8-03-94	1100	.99	85	76	30	30	<2	18
2	01122610	9-03-93	1030	.84	48	50	26	64	<2	5
3	420420072010001	8-08-94	1400	1.0	130	190	20	96	<2	17
4	01125100	8-04-94	0900	1.2	270	630	18	620	<2	14
5	01126850	7-20-93	1000	2.1	100	100	10	57	<2	14
6	01127500	9-03-93	0920	1.6	77	78	31	140	<2	13
				Connecticut River Basin						
7	01131400	7-22-93	0900	1.1	92	66	11	14	<2	13
8	01135300	8-05-93	0830	3.6	73	70	15	23	<2	13
9	01139000	9-07-93	1300	2.1	80	65	11	20	<2	16
10	01142500	9-07-93	1600	.86	120	95	24	38	<2	19
11	01144010	8-04-93	0935	1.6	110	96	21	35	<2	18
12	01152540	9-07-93	1700	1.2	84	96	22	51	<2	13
13	01153150	7-16-93	1145	1.4	95	85	17	29	<2	17
14	01160990	9-08-93	1400	1.1	240	98	29	57	2	12
15	01163200	9-08-93	1730	.96	170	110	36	160	<2	12
		8-01-94	1400	1.0	140	80	39	110	<2	17
16	01170005	9-08-93	1000	1.8	140	98	21	40	2	20
17	01170103	9-08-93	0730	2.1	98	110	22	38	<2	15
18	01170500	7-15-93	1250	2.1	120	90	17	30	<2	16
19	01171500	8-15-94	1400	1.6	98	130	20	120	<2	22
20	01173000	9-08-93	1900	.64	65	38	41	54	<2	8
21	01175500	8-02-94	0930	2.0	85	57	10	20	<2	15
22	420910072200001	8-02-94	1500	1.4	91	110	20	65	<2	16
23	01183850	7-14-93	1330	1.4	95	98	20	43	<2	19
24	01184490	10-22-92	1445	1.2	84	75	15	71	<2	23
25	415645073025001	8-17-94	1100	1.9	110	100	16	130	<2	16
26	01189000	11-17-92	1035	1.7	140	98	17	260	<2	16
27	01191000	8-11-94	0900	1.1	90	76	19	50	<2	19
28	01192500	10-21-92	1530	1.2	98	190	16	170	<2	16
29	413615072423001	8-10-94	0930	.80	68	320	20	240	<2	18
30	01192883	8-10-94	1400	.74	64	60	19	35	<2	20
31	01192990	7-13-93	1430	1.7	110	83	15	47	<2	16
				Housatonic River Basin						
32	422640073144501	8-16-94	0900	2.5	82	84	21	100	<2	19
33	421140073214501	8-16-94	1830	2.7	96	79	19	78	<2	21
34	01198000	8-16-94	1600	.64	120	69	24	42	<2	22
35	01198200	8-17-94	0900	1.5	140	51	16	24	2	19
36	01200000	10-19-92	1430	3.7	79	55	17	28	<2	17
37	01201335	7-21-93	0901	2.0	120	57	17	33	<2	16
38	414640073071001	8-17-94	1600	2.1	120	120	19	200	<2	18
				Long Island Sound Coastal River Basins						
39	413345072531001	8-09-94	1400	1.2	100	120	19	100	<2	19
40	412600072511501	8-10-94	1700	1.1	79	700	21	330	<2	18
41	01196580	8-09-94	0930	.95	72	52	17	38	<2	22
42	01208869	6-29-93	1100	1.5	92	81	23	140	<2	14
43	01209710	10-20-92	1640	1.6	110	92	17	81	<2	15

Table 2. Concentrations of inorganic constituents and organic carbon in streambed sediment of the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	Gold	Holmium	Iron (percent)	Lanthanum	Lead	Lithium	Magnesium (percent)
				Thames River Basin						
1	01121000	9-03-93	1345	<8	<4	5.1	34	54	30	0.73
		8-03-94	1100	<8	<4	5.9	47	55	20	.78
2	01122610	9-03-93	1030	<8	<4	3.5	28	120	10	.42
3	420420072010001	8-08-94	1400	<8	<4	4.1	63	270	30	.79
4	01125100	8-04-94	0900	<8	<4	3.9	68	310	30	.56
5	01126850	7-20-93	1000	<8	<4	2.6	47	68	20	.71
6	01127500	9-03-93	0920	<8	<4	4.6	39	140	30	1.0
				Connecticut River Basin						
7	01131400	7-22-93	0900	<8	<4	2.8	49	20	30	0.66
8	01135300	8-05-93	0830	<8	<4	2.9	39	21	40	1.1
9	01139000	9-07-93	1300	<8	<4	2.5	45	37	60	.82
10	01142500	9-07-93	1600	<8	<4	5.0	63	32	50	.93
11	01144010	8-04-93	0935	<8	<4	5.1	58	30	50	1.1
12	01152540	9-07-93	1700	<8	<4	4.5	42	81	30	.89
13	01153150	7-16-93	1145	<8	<4	4.1	51	25	40	1.1
14	01160990	9-08-93	1400	<8	<4	5.1	130	92	30	.61
15	01163200	9-08-93	1730	<8	<4	6.0	91	180	20	.41
		8-01-94	1400	<8	<4	6.1	75	160	20	.41
16	01170005	9-08-93	1000	<8	<4	5.0	70	50	50	1.1
17	01170103	9-08-93	0730	<8	<4	4.5	49	37	50	1.3
18	01170500	7-15-93	1250	<8	<4	4.7	62	33	30	1.1
19	01171500	8-15-94	1400	<8	<4	4.7	54	160	60	1.1
20	01173000	9-08-93	1900	<8	<4	4.4	35	140	10	.31
21	01175500	8-02-94	0930	<8	<4	2.6	49	44	20	.74
22	420910072200001	8-02-94	1500	<8	<4	4.5	49	110	20	.77
23	01183850	7-14-93	1330	<8	<4	4.5	52	41	50	1.2
24	01184490	10-22-92	1445	<8	<4	3.8	45	79	40	.90
25	415645073025001	8-17-94	1100	<8	<4	4.5	56	180	20	1.1
26	01189000	11-17-92	1035	<8	<4	4.6	75	180	30	.97
27	01191000	8-11-94	0900	<8	<4	4.0	48	80	50	1.0
28	01192500	10-21-92	1530	<8	<4	4.0	53	180	30	.86
29	413615072423001	8-10-94	0930	<8	<4	4.2	35	120	60	1.0
30	01192883	8-10-94	1400	<8	<4	4.4	34	58	60	.81
31	01192990	7-13-93	1430	<8	<4	4.0	56	43	40	.98
				Housatonic River Basin						
32	422640073144501	8-16-94	0900	<8	<4	5.1	43	200	50	1.7
33	421140073214501	8-16-94	1830	<8	<4	4.5	53	110	50	1.8
34	01198000	8-16-94	1600	<8	<4	5.4	74	45	70	1.1
35	01198200	8-17-94	0900	<8	<4	4.1	74	32	30	1.2
36	01200000	10-19-92	1430	<8	<4	3.6	46	32	50	1.7
37	01201335	7-21-93	0901	<8	<4	4.2	63	36	40	1.5
38	414640073071001	8-17-94	1600	<8	<4	4.4	65	160	40	1.3
				Long Island Sound Coastal River Basins						
39	413345072531001	8-09-94	1400	<8	<4	4.3	54	120	40	0.90
40	412600072511501	8-10-94	1700	<8	<4	4.3	41	140	50	.97
41	01196580	8-09-94	0930	<8	<4	3.6	38	52	40	.78
42	01208869	6-29-93	1100	<8	<4	4.5	55	300	50	.99
43	01209710	10-20-92	1640	<8	<4	4.0	62	170	50	1.2

Table 2. Concentrations of inorganic constituents and organic carbon in streambed sediment of the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	Manganese	Mercury	Molybdenum	Neodymium	Nickel	Niobium	Phosphorus (percent)
				Thames River Basin						
1	01121000	9-03-93	1345	1,900	0.26	<2	30	41	12	0.18
		8-03-94	1100	2,400	.15	<2	39	40	15	.17
2	01122610	9-03-93	1030	2,300	.28	<2	20	32	10	.41
3	420420072010001	8-08-94	1400	990	.31	<2	50	47	18	.19
4	01125100	8-04-94	0900	1,700	.97	<2	50	110	17	.35
5	01126850	7-20-93	1000	750	.15	<2	39	25	17	.17
6	01127500	9-03-93	0920	3,700	.28	<2	32	43	13	.40
				Connecticut River Basin						
7	01131400	7-22-93	0900	620	<0.02	<2	39	28	16	0.12
8	01135300	8-05-93	0830	1,500	.02	<2	33	42	10	.11
9	01139000	9-07-93	1300	3,500	.07	<2	38	26	10	.15
10	01142500	9-07-93	1600	4,000	<.02	<2	56	45	13	.14
11	01144010	8-04-93	0935	2,400	.02	<2	50	46	16	.14
12	01152540	9-07-93	1700	2,700	.18	<2	37	35	12	.20
13	01153150	7-16-93	1145	1,000	.04	<2	43	37	16	.13
14	01160990	9-08-93	1400	2,800	.23	<2	110	29	12	.29
15	01163200	9-08-93	1730	1,400	.46	3	69	44	12	.49
		8-01-94	1400	2,100	.31	<2	60	36	15	.41
16	01170005	9-08-93	1000	1,500	.07	<2	65	37	19	.16
17	01170103	9-08-93	0730	1,200	.06	<2	44	50	13	.13
18	01170500	7-15-93	1250	1,600	.04	<2	54	34	20	.14
19	01171500	8-15-94	1400	1,900	.20	<2	48	57	19	.21
20	01173000	9-08-93	1900	1,400	.24	<2	31	22	7	.21
21	01175500	8-02-94	0930	910	.06	<2	42	20	15	.12
22	420910072200001	8-02-94	1500	1,500	.28	<2	45	28	13	.27
23	01183850	7-14-93	1330	950	.07	<2	43	42	15	.14
24	01184490	10-22-92	1445	4,900	.16	<2	42	28	9	.25
25	415645073025001	8-17-94	1100	1,000	.37	<2	51	44	16	.23
26	01189000	11-17-92	1035	1,800	.52	<2	65	37	7	.26
27	01191000	8-11-94	0900	880	.13	<2	45	33	20	.11
28	01192500	10-21-92	1530	1,500	1.2	<2	48	35	7	.51
29	413615072423001	8-10-94	0930	1,300	.34	<2	32	63	18	.21
30	01192883	8-10-94	1400	2,900	.19	<2	32	26	16	.18
31	01192990	7-13-93	1430	1,100	.13	<2	48	33	16	.15
				Housatonic River Basin						
32	422640073144501	8-16-94	0900	1,600	0.31	<2	41	38	14	0.15
33	421140073214501	8-16-94	1830	2,000	1.0	<2	51	31	15	.20
34	01198000	8-16-94	1600	1,600	.05	<2	67	40	13	.13
35	01198200	8-17-94	0900	980	.88	<2	71	21	22	.14
36	01200000	10-19-92	1430	2,400	.06	<2	39	30	6	.13
37	01201335	7-21-93	0901	1,100	.17	<2	57	29	14	.14
38	414640073071001	8-17-94	1600	1,300	.14	<2	60	47	20	.28
				Long Island Sound Coastal River Basins						
39	413345072531001	8-09-94	1400	2,800	0.25	<2	48	56	16	0.21
40	412600072511501	8-10-94	1700	2,100	.48	3	39	130	15	.32
41	01196580	8-09-94	0930	5,500	.08	<2	36	23	15	.18
42	01208869	6-29-93	1100	1,300	.43	<2	44	57	15	.22
43	01209710	10-20-92	1640	740	.21	<2	51	36	11	.22

Table 2. Concentrations of inorganic constituents and organic carbon in streambed sediment of the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	Potassium (percent)	Scandium	Selenium	Silver	Sodium (percent)	Strontium	Sulfur
				Thames River Basin						
1	01121000	9-03-93	1345	1.1	14	2.2	0.3	0.720	120	0.21
		8-03-94	1100	.72	13	1.7	.3	<.005	130	.20
2	01122610	9-03-93	1030	.65	7	1.4	1.6	.560	79	.58
3	420420072010001	8-08-94	1400	1.7	12	0.9	.6	1.0	170	.26
4	01125100	8-04-94	0900	1.2	8	1.5	2.3	.970	140	1.3
5	01126850	7-20-93	1000	1.5	14	.3	.4	1.8	220	.10
6	01127500	9-03-93	0920	1.2	11	1.4	.8	1.1	170	.30
				Connecticut River Basin						
7	01131400	7-22-93	0900	1.4	10	0.2	<0.1	1.6	180	<0.05
8	01135300	8-05-93	0830	1.3	10	.4	.1	1.2	350	.12
9	01139000	9-07-93	1300	1.5	9	.7	.3	1.7	330	.11
10	01142500	9-07-93	1600	2.3	16	.4	.2	1.3	160	.08
11	01144010	8-04-93	0935	1.9	18	.4	<.1	1.4	210	.06
12	01152540	9-07-93	1700	1.4	15	.4	.6	1.4	150	.20
13	01153150	7-16-93	1145	1.8	16	.3	.1	1.6	210	.06
14	01160990	9-08-93	1400	1.3	13	.8	.9	1.2	120	.22
15	01163200	9-08-93	1730	1.7	9	1.0	3.6	1.1	180	.47
		8-01-94	1400	1.7	8	1.1	2.3	1.2	190	.41
16	01170005	9-08-93	1000	1.9	20	.6	.2	1.5	200	.13
17	01170103	9-08-93	0730	1.2	19	1.1	.3	1.1	170	.22
18	01170500	7-15-93	1250	1.5	20	.3	.2	1.6	220	.05
19	01171500	8-15-94	1400	1.9	17	.9	.5	1.4	190	.14
20	01173000	9-08-93	1900	.82	6	1.6	.3	.490	100	.51
21	01175500	8-02-94	0930	1.1	13	1.1	.3	1.8	170	.15
22	420910072200001	8-02-94	1500	.99	12	1.4	.4	1.2	210	.20
23	01183850	7-14-93	1330	2.2	18	.4	.7	1.6	200	.08
24	01184490	10-22-92	1445	1.6	14	1.3	.3	1.5	140	.18
25	415645073025001	8-17-94	1100	1.8	12	.7	1.1	1.3	150	.19
26	01189000	11-17-92	1035	1.4	15	.8	1.3	1.9	140	.13
27	01191000	8-11-94	0900	2.1	15	.6	1.0	1.7	160	.21
28	01192500	10-21-92	1530	1.3	14	1.0	3.0	1.8	110	.24
29	413615072423001	8-10-94	0930	1.7	15	.7	1.9	2.2	120	.16
30	01192883	8-10-94	1400	1.4	16	1.0	.2	1.9	99	.17
31	01192990	7-13-93	1430	1.6	16	.3	.8	1.7	200	.07
				Housatonic River Basin						
32	422640073144501	8-16-94	0900	2.1	12	0.9	1.9	0.780	100	0.27
33	421140073214501	8-16-94	1830	2.3	12	.8	1.0	.760	100	.16
34	01198000	8-16-94	1600	2.1	15	.9	.2	.990	92	.13
35	01198200	8-17-94	0900	2.4	14	.7	.2	1.1	130	.15
36	01200000	10-19-92	1430	2.2	10	.8	.3	.820	93	.12
37	01201335	7-21-93	0901	2.4	12	.4	.3	.990	120	.12
38	414640073071001	8-17-94	1600	1.9	14	.8	5.7	1.4	160	.20
				Long Island Sound Coastal River Basins						
39	413345072531001	8-09-94	1400	1.4	14	0.9	3.5	1.5	120	0.17
40	412600072511501	8-10-94	1700	1.5	15	1.0	17	1.6	110	.19
41	01196580	8-09-94	0930	1.3	13	.9	.2	1.3	87	.14
42	01208869	6-29-93	1100	1.5	13	1.5	1.0	1.1	140	.38
43	01209710	10-20-92	1640	1.5	12	1.1	2.0	1.2	160	.35

Table 2. Concentrations of inorganic constituents and organic carbon in streambed sediment of the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	Tantalum	Titanium (percent)	Thorium	Tin	Uranium	Vanadium
				Thames River Basin					
1	01121000	9-03-93	1345	<40	0.470	24	<10	5.2	96
		8-03-94	1100	<40	.460	22	<10	4.6	92
2	01122610	9-03-93	1030	<40	.190	14	20	3.7	62
3	420420072010001	8-08-94	1400	<40	.440	21	20	5.7	93
4	01125100	8-04-94	0900	<40	.320	18	50	8.4	79
5	01126850	7-20-93	1000	<40	.530	20	10	5.7	68
6	01127500	9-03-93	0920	<40	.410	12	10	5.3	90
				Connecticut River Basin					
7	01131400	7-22-93	0900	<40	0.440	18	<10	5.4	66
8	01135300	8-05-93	0830	<40	.300	12	<10	2.7	69
9	01139000	9-07-93	1300	<40	.280	12	<10	10	58
10	01142500	9-07-93	1600	<40	.360	15	<10	3.4	110
11	01144010	8-04-93	0935	<40	.620	14	<10	3.7	120
12	01152540	9-07-93	1700	<40	.430	14	<10	4.6	110
13	01153150	7-16-93	1145	<40	.470	14	<10	4.5	100
14	01160990	9-08-93	1400	<40	.440	38	10	11	83
15	01163200	9-08-93	1730	<40	.430	27	20	8.1	64
		8-01-94	1400	<40	.440	33	10	7.9	65
16	01170005	9-08-93	1000	<40	.700	15	<10	5.2	130
17	01170103	9-08-93	0730	<40	.530	10	<10	3.9	130
18	01170500	7-15-93	1250	<40	.830	17	<10	5.8	120
19	01171500	8-15-94	1400	<40	.480	16	20	7.0	120
20	01173000	9-08-93	1900	<40	.230	11	10	3.0	55
21	01175500	8-02-94	0930	<40	.430	15	<10	8.1	71
22	420910072200001	8-02-94	1500	<40	.410	18	<10	4.4	87
23	01183850	7-14-93	1330	<40	.420	14	<10	4.6	120
24	01184490	10-22-92	1445	<40	.390	10	<10	5.0	97
25	415645073025001	8-17-94	1100	<40	.460	14	10	5.3	79
26	01189000	11-17-92	1035	<40	.390	20	<10	8.6	110
27	01191000	8-11-94	0900	<40	.430	13	<10	5.0	100
28	01192500	10-21-92	1530	<40	.320	14	20	7.3	86
29	413615072423001	8-10-94	0930	<40	.370	14	90	3.8	100
30	01192883	8-10-94	1400	<40	.360	12	<10	5.0	110
31	01192990	7-13-93	1430	<40	.560	18	<10	4.9	97
				Housatonic River Basin					
32	422640073144501	8-16-94	0900	<40	0.340	12	30	3.1	89
33	421140073214501	8-16-94	1830	<40	.360	14	<10	3.1	73
34	01198000	8-16-94	1600	<40	.230	17	<10	4.1	89
35	01198200	8-17-94	0900	<40	.560	17	<10	5.5	70
36	01200000	10-19-92	1430	<40	.240	14	<10	2.5	68
37	01201335	7-21-93	0901	<40	.410	18	<10	4.3	71
38	414640073071001	8-17-94	1600	<40	.490	18	10	8.7	95
				Long Island Sound Coastal River Basins					
39	413345072531001	8-09-94	1400	<40	0.390	17	20	6.1	110
40	412600072511501	8-10-94	1700	<40	.360	17	60	4.9	110
41	01196580	8-09-94	0930	<40	.320	15	<10	5.2	100
42	01208869	6-29-93	1100	<40	.430	17	20	5.4	120
43	01209710	10-20-92	1640	<40	.470	14	<10	7.9	87

Table 2. Concentrations of inorganic constituents and organic carbon in streambed sediment of the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site itentification No.	Date	Time	Ytter-bium	Yttrium	Zinc	Carbon, inorganic (percent)	Carbon, organic (percent)	Carbon, organic plus inorganic (percent)
				Thames River Basin					
1	01121000	9-03-93	1345	2	24	200	<0.01	9.09	9.09
		8-03-94	1100	2	24	200	<.01	8.92	8.92
2	01122610	9-03-93	1030	2	17	370	.02	10.2	10.2
3	420420072010001	8-08-94	1400	2	21	350	<.01	7.23	7.23
4	01125100	8-04-94	0900	2	22	1300	<.01	12.6	12.6
5	01126850	7-20-93	1000	3	31	160	<.01	2.87	2.87
6	01127500	9-03-93	0920	2	23	400	.09	9.07	9.16
				Connecticut River Basin					
7	01131400	7-22-93	0900	2	18	87	<0.01	1.80	1.80
8	01135300	8-05-93	0830	2	24	93	.58	3.62	4.20
9	01139000	9-07-93	1300	2	23	130	.03	5.68	5.71
10	01142500	9-07-93	1600	3	27	150	.12	2.23	2.35
11	01144010	8-04-93	0935	3	34	130	.14	2.11	2.25
12	01152540	9-07-93	1700	2	22	270	<.01	5.36	5.36
13	01153150	7-16-93	1145	3	27	110	<.01	1.82	1.82
14	01160990	9-08-93	1400	3	32	340	.01	7.03	7.04
15	01163200	9-08-93	1730	2	24	250	<.01	9.72	9.72
		8-01-94	1400	2	21	250	.04	8.39	8.43
16	01170005	9-08-93	1000	4	46	220	<.01	4.77	4.77
17	01170103	9-08-93	0730	4	37	200	.01	6.93	6.94
18	01170500	7-15-93	1250	4	37	130	<.01	1.82	1.82
19	01171500	8-15-94	1400	3	26	360	<.01	5.68	5.68
20	01173000	9-08-93	1900	1	13	200	<.01	14.6	14.6
21	01175500	8-02-94	0930	3	27	88	<.01	6.70	6.70
22	420910072200001	8-02-94	1500	2	22	210	<.01	7.59	7.59
23	01183850	7-14-93	1330	3	28	160	<.01	2.67	2.67
24	01184490	10-22-92	1445	2	24	150	.03	5.06	5.09
25	415645073025001	8-17-94	1100	3	27	330	.28	5.39	5.67
26	01189000	11-17-92	1035	3	27	350	.02	4.31	4.33
27	01191000	8-11-94	0900	2	25	220	.02	2.53	2.55
28	01192500	10-21-92	1530	2	25	390	.03	5.69	5.72
29	413615072423001	8-10-94	0930	2	21	370	.04	2.94	2.98
30	01192883	8-10-94	1400	2	22	190	<.01	4.73	4.73
31	01192990	7-13-93	1430	3	30	160	<.01	1.90	1.90
				Housatonic River Basin					
32	422640073144501	8-16-94	0900	2	22	440	0.94	5.45	6.39
33	421140073214501	8-16-94	1830	3	26	330	1.1	3.90	5.01
34	01198000	8-16-94	1600	3	23	190	.07	3.74	3.81
35	01198200	8-17-94	0900	4	38	160	.18	3.90	4.08
36	01200000	10-19-92	1430	2	19	110	1.1	3.80	4.90
37	01201335	7-21-93	0901	3	29	180	.60	2.77	3.37
38	414640073071001	8-17-94	1600	2	27	500	.30	5.23	5.53
				Long Island Sound Coastal River Basins					
39	413345072531001	8-09-94	1400	2	28	660	<0.01	4.56	4.56
40	412600072511501	8-10-94	1700	3	26	490	.03	4.89	4.92
41	01196580	8-09-94	0930	2	24	200	.07	4.60	4.67
42	01208869	6-29-93	1100	3	31	690	.07	9.42	9.49
43	01209710	10-20-92	1640	2	25	630	.09	6.67	6.76

Table 3. Concentrations of chlorinated organic constituents, organic carbon, and inorganic carbon in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94

[Site No.: See figure 1 for location of station or site and table 1 for description of station or site. Samples were analyzed by the U.S. Geological Survey's National Water-Quality Laboratory in Lakewood, Colorado. All values are in microgram per kilogram, dry weight, unless otherwise noted. E, estimated. No., number; g/kg, gram per kilogram, <, actual value is less than value shown]

Site No.	Station or site identification No.	Date	Time	Aldrin	*cis*-Chlordane	*trans*-Chlordane	Chloroneb	DCPA	*o,p'*-DDD	*p,p'*-DDD	*o,p'*-DDE
				Thames River Basin							
1	01121000	9-03-93	1345	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	1.1	<1.0
		8-03-94	1100	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0
2	01122610	9-03-93	1030	<2.0	<2.0	2.2	<10	<10	<6.0	<2.0	<2.0
3	420420072010001	8-08-94	1400	<1.0	7.2	<1.0	<5.0	<5.0	<14	E42	<1.0
4	01125100	8-04-94	0900	<1.0	<1.0	<2.0	<5.0	<5.0	<1.0	4.2	<1.0
5	01126850	7-20-93	1000	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	2.1	<1.0
6	01127500	9-03-93	0920	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	1.7	<5.0
				Connecticut River Basin							
7	01131400	7-22-93	0900	--	--	--	--	--	--	--	--
8	01135300	8-05-93	0830	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0
9	01139000	9-07-93	1300	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0
10	01142500	9-07-93	1600	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0
11	01144010	8-04-93	0935	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0
12	01152540	9-07-93	1700	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	2.3	<1.0
13	01153150	7-16-93	1145	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0
14	01160990	9-08-93	1400	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<3.0	<1.0
15	01163200	9-08-93	1730	<1.0	<1.0	<1.0	<5.0	<5.0	1.6	3.9	<1.0
		8-01-94	1400	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	2.1	<1.0
16	01170005	9-08-93	1000	<1.0	<1.0	<1.0	<5.0	<5.0	1.1	<3.0	<1.0
17	01170103	9-08-93	0730	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0
18	01170500	7-15-93	1250	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0
19	01171500	8-15-94	1400	<1.0	3.2	2.8	<5.0	<5.0	<1.0	5.6	<1.0
20	01173000	9-08-93	1900	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<2.0	<1.0
21	01175500	8-02-94	0930	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	1.4	<1.0
22	420910072200001	8-02-94	1500	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0
23	01183850	7-14-93	1330	<1.0	1.1	1.1	<5.0	<5.0	<1.0	2.2	<1.0
24	01184490	10-22-92	1445	<1.0	3.7	3.5	<5.0	<5.0	12	12	<1.0
25	415645073025001	8-17-94	1100	<1.0	<1.0	<1.0	<5.0	<5.0	11	11	<1.0
26	01189000	11-17-92	1035	<1.0	1.9	2.2	<5.0	<5.0	3.7	<1.0	<1.0
27	01191000	8-11-94	0900	<1.0	8.8	7.2	<5.0	<5.0	<1.0	6.4	<1.0
28	01192500	10-21-92	1530	<1.0	5.2	5.5	<5.0	<5.0	8.2	5.9	<1.0
29	413615072423001	8-10-94	0930	<1.0	5.8	1.5	<5.0	<5.0	<2.1	16	<1.0
30	01192883	8-10-94	1400	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	E2.3	<1.0
31	01192990	7-13-93	1430	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	3.0	<1.0
				Housatonic River Basin							
32	422640073144501	8-16-94	0900	<1.0	<1.0	<1.0	<5.0	<5.0	1.7	12	<1.0
33	421140073214501	8-16-94	1830	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	2.6	<1.0
34	01198000	8-16-94	1600	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0
35	01198200	8-17-94	0900	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0
36	01200000	10-19-92	1430	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0
37	01201335	7-21-93	0901	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0
38	414640073071001	8-17-94	1600	<1.0	3.0	<1.0	<5.0	<5.0	<1.0	7.5	<1.0
				Long Island Sound Coastal River Basins							
39	413345072531001	8-09-94	1400	<1.0	2.8	3.3	<5.0	<5.0	<1.0	E2.7	<1.0
40	412600072511501	8-10-94	1700	<1.0	1.8	1.4	<5.0	<5.0	<1.5	1.2	<1.0
41	01196580	8-09-94	0930	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0
42	01208869	6-29-93	1100	<1.0	14	15	<5.0	<5.0	2.2	5.5	1.0
43	01209710	10-20-92	1640	<1.0	2.9	2.5	<5.0	<5.0	2.0	<1.0	<1.0

Table 3. Concentrations of chlorinated organic constituents, organic carbon, and inorganic carbon in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	p,p′-DDE	o,p′-DDT	p,p′-DDT	Dieldrin	Endosulfan I	Endrin	Alpha-BHC	Beta-BHC
				Thames River Basin							
1	01121000	9-03-93	1345	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
		8-03-94	1100	1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
2	01122610	9-03-93	1030	<2.0	<4.0	<4.0	4.0	<2.0	<4.0	<2.0	<2.0
3	420420072010001	8-08-94	1400	28	<12	20	4.5	8.4	<2.0	<1.0	<1.0
4	01125100	8-04-94	0900	14	<2.0	<2.0	2.4	<1.0	<2.0	<1.0	<1.0
5	01126850	7-20-93	1000	2.8	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
6	01127500	9-03-93	0920	1.5	<3.0	<7.0	<1.0	<2.0	<2.0	<1.0	<1.0
				Connecticut River Basin							
7	01131400	7-22-93	0900	--	--	--	--	--	--	--	--
8	01135300	8-05-93	0830	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
9	01139000	9-07-93	1300	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
10	01142500	9-07-93	1600	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
11	01144010	8-04-93	0935	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
12	01152540	9-07-93	1700	<1.0	<2.0	<2.0	2.7	<1.0	<2.0	<1.0	<1.0
13	01153150	7-16-93	1145	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
14	01160990	9-08-93	1400	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
15	01163200	9-08-93	1730	1.6	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
		8-01-94	1400	1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
16	01170005	9-08-93	1000	3.2	<2.0	2.3	<1.0	<1.0	<2.0	<1.0	<1.0
17	01170103	9-08-93	0730	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
18	01170500	7-15-93	1250	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
19	01171500	8-15-94	1400	7.5	<2.0	10	<1.0	<1.0	<2.0	<1.0	<1.0
20	01173000	9-08-93	1900	1.1	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
21	01175500	8-02-94	0930	2.2	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
22	420910072200001	8-02-94	1500	1.9	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
23	01183850	7-14-93	1330	1.7	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
24	01184490	10-22-92	1445	11	3.8	30	2.1	<1.0	<2.0	<1.0	<1.0
25	415645073025001	8-17-94	1100	3.6	<2.0	12	<2.0	<1.0	<2.0	<1.0	<1.0
26	01189000	11-17-92	1035	<1.0	<2.0	2.4	<1.0	<1.0	<2.0	<1.0	<1.0
27	01191000	8-11-94	0900	9.4	<2.0	8.4	<1.0	E4.9	<2.0	<1.0	<1.0
28	01192500	10-21-92	1530	2.4	<2.0	9.6	1.7	<1.0	<2.0	<1.0	<1.0
29	413615072423001	8-10-94	0930	16	<2.0	4.9	<1.0	3.5	<2.0	<1.0	<1.0
30	01192883	8-10-94	1400	3.8	<2.0	4.4	<1.0	<1.0	<2.0	<1.0	<1.0
31	01192990	7-13-93	1430	1.2	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
				Housatonic River Basin							
32	422640073144501	8-16-94	0900	6.4	4.1	13	<1.0	<1.0	<2.0	<1.0	<1.0
33	421140073214501	8-16-94	1830	2.5	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
34	01198000	8-16-94	1600	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
35	01198200	8-17-94	0900	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
36	01200000	10-19-92	1430	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
37	01201335	7-21-93	0901	<2.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
38	414640073071001	8-17-94	1600	1.4	<2.0	<2.0	3.8	<1.0	<2.0	<1.0	<1.0
				Long Island Sound Coastal River Basins							
39	413345072531001	8-09-94	1400	2.2	<2.0	3.4	<1.0	<1.0	<2.0	<1.0	<1.0
40	412600072511501	8-10-94	1700	1.3	<2.0	<2.0	1.0	<1.0	<2.0	<1.0	<1.0
41	01196580	8-09-94	0930	4.3	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0
42	01208869	6-29-93	1100	2.2	9.8	25	9.0	<5.5	<2.0	<1.0	<1.0
43	01209710	10-20-92	1640	1.6	<2.0	3.2	<1.0	<1.0	<2.0	<1.0	<1.0

Table 3. Concentrations of chlorinated organic constituents, organic carbon, and inorganic carbon in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	Lindane	Hepta-chlor	Hepta-chlor epoxide	Hexa-chloro-benzene	Isodrin	Methoxy-chlor, *o,p'*	Methoxy-chlor, *p,p'*
				Thames River Basin						
1	01121000	9-03-93	1345	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
		8-03-94	1100	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
2	01122610	9-03-93	1030	<2.0	<2.0	<2.0	<50	<2.0	<10	<10
3	420420072010001	8-08-94	1400	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<6.0
4	01125100	8-04-94	0900	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<10
5	01126850	7-20-93	1000	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
6	01127500	9-03-93	0920	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
				Connecticut River Basin						
7	01131400	7-22-93	0900	--	--	--	--	--	--	--
8	01135300	8-05-93	0830	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
9	01139000	9-07-93	1300	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
10	01142500	9-07-93	1600	<1.0	<1.0	<1.0	<50	<1.0	<5.0	6.8
11	01144010	8-04-93	0935	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
12	01152540	9-07-93	1700	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
13	01153150	7-16-93	1145	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
14	01160990	9-08-93	1400	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
15	01163200	9-08-93	1730	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
		8-01-94	1400	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
16	01170005	9-08-93	1000	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
17	01170103	9-08-93	0730	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
18	01170500	7-15-93	1250	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
19	01171500	8-15-94	1400	<1.0	<1.0	<1.0	<50	<1.0	<7.0	<6.0
20	01173000	9-08-93	1900	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
21	01175500	8-02-94	0930	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
22	420910072200001	8-02-94	1500	<1.0	<1.0	<1.0	<50	<85	<5.0	<5.0
23	01183850	7-14-93	1330	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
24	01184490	10-22-92	1445	<1.0	<1.0	<1.0	<50	<1.0	<25	<10
25	415645073025001	8-17-94	1100	<1.0	<1.0	<1.0	<50	<1.0	<20	<5.0
26	01189000	11-17-92	1035	<1.0	<1.0	<1.0	<50	<1.0	<10	<10
27	01191000	8-11-94	0900	<1.0	<1.0	<1.0	<50	<46	<5.0	<5.0
28	01192500	10-21-92	1530	<1.0	<1.0	<1.0	<50	<1.0	--	<10
29	413615072423001	8-10-94	0930	<1.0	<1.0	<1.0	<50	<6.0	<5.0	<5.0
30	01192883	8-10-94	1400	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
31	01192990	7-13-93	1430	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
				Housatonic River Basin						
32	422640073144501	8-16-94	0900	<1.0	<1.0	<1.0	<50	<1.0	<30	<10
33	421140073214501	8-16-94	1830	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
34	01198000	8-16-94	1600	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
35	01198200	8-17-94	0900	<1.0	<1.0	<1.0	<50	<1.0	<7.0	<5.0
36	01200000	10-19-92	1430	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
37	01201335	7-21-93	0901	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
38	414640073071001	8-17-94	1600	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<10
				Long Island Sound Coastal River Basins						
39	413345072531001	8-09-94	1400	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
40	412600072511501	8-10-94	1700	<1.0	<1.0	<1.0	<50	<60	<5.0	<5.0
41	01196580	8-09-94	0930	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<5.0
42	01208869	6-29-93	1100	<1.0	<1.0	<2.0	<50	<1.0	<5.0	<8.0
43	01209710	10-20-92	1640	<1.0	<1.0	<1.0	<50	<1.0	<5.0	<13

Table 3. Concentrations of chlorinated organic constituents, organic carbon, and inorganic carbon in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	Mirex	*cis*-Nonachlor	*trans*-Nonachlor	Oxychlordane	PCB	Pentachloroanisole
				Thames River Basin					
1	01121000	9-03-93	1345	<1.0	<1.0	<1.0	<1.0	<50	<50
		8-03-94	1100	<1.0	<1.0	<1.0	<1.0	<50	<50
2	01122610	9-03-93	1030	<2.0	<2.0	<2.0	<2.0	<100	<50
3	420420072010001	8-08-94	1400	1.1	2.1	3.4	<1.0	230	<50
4	01125100	8-04-94	0900	<1.0	<1.0	<1.0	<1.0	60	<50
5	01126850	7-20-93	1000	<1.0	<1.0	<1.0	<1.0	62	<50
6	01127500	9-03-93	0920	<1.0	<1.0	1.8	<1.0	<50	<50
				Connecticut River Basin					
7	01131400	7-22-93	0900	--	--	--	--	--	--
8	01135300	8-05-93	0830	<1.0	<1.0	<1.0	<1.0	<50	<50
9	01139000	9-07-93	1300	<1.0	<1.0	<1.0	<1.0	<50	<50
10	01142500	9-07-93	1600	<1.0	<1.0	<1.0	<1.0	<50	<50
11	01144010	8-04-93	0935	<1.0	<1.0	<1.0	<1.0	<50	<50
12	01152540	9-07-93	1700	<1.0	<3.0	<1.0	<1.0	<50	<50
13	01153150	7-16-93	1145	<1.0	<1.0	<1.0	<1.0	<50	<50
14	01160990	9-08-93	1400	<1.0	<1.0	<1.0	<1.0	<50	<50
15	01163200	9-08-93	1730	<1.0	<2.0	<1.0	<1.0	<50	<50
		8-01-94	1400	<1.0	<1.0	<1.0	<1.0	<50	<50
16	01170005	9-08-93	1000	<1.0	<1.0	<1.0	<1.0	<50	<50
17	01170103	9-08-93	0730	<1.0	<1.0	<1.0	<1.0	<50	<50
18	01170500	7-15-93	1250	<1.0	<1.0	<1.0	<1.0	<50	<50
19	01171500	8-15-94	1400	<1.0	<1.0	2.2	<1.0	86	<50
20	01173000	9-08-93	1900	<1.0	<1.0	<1.0	<1.0	<50	<50
21	01175500	8-02-94	0930	<1.0	<1.0	<1.0	<1.0	<50	<50
22	420910072200001	8-02-94	1500	<1.0	<1.0	<1.0	<1.0	<50	<50
23	01183850	7-14-93	1330	<1.0	<1.0	1.1	<1.0	<50	<50
24	01184490	10-22-92	1445	<1.0	2.2	3.0	<1.0	<100	<5.0
25	415645073025001	8-17-94	1100	<1.0	<1.0	<2.0	<1.0	<50	<50
26	01189000	11-17-92	1035	<1.0	1.0	1.4	<1.0	<100	<5.0
27	01191000	8-11-94	0900	<1.0	<1.0	4.2	<1.0	<50	<50
28	01192500	10-21-92	1530	<1.0	2.3	3.6	<1.0	<100	<5.0
29	413615072423001	8-10-94	0930	1.6	<1.0	3.0	<1.0	330	<50
30	01192883	8-10-94	1400	<1.0	<1.0	<1.0	<1.0	<50	<50
31	01192990	7-13-93	1430	<1.0	<1.0	<1.0	<1.0	<50	<50
				Housatonic River Basin					
32	422640073144501	8-16-94	0900	--	<1.0	<1.0	<1.0	13,000	<50
33	421140073214501	8-16-94	1830	<3.0	<1.0	<1.0	<1.0	660	<50
34	01198000	8-16-94	1600	<1.0	<1.0	<1.0	<1.0	<50	<50
35	01198200	8-17-94	0900	<1.0	<1.0	<1.0	<1.0	<50	<50
36	01200000	10-19-92	1430	<1.0	<1.0	<1.0	<1.0	<100	<5.0
37	01201335	7-21-93	0901	<1.0	<1.0	<1.0	<1.0	130	<50
38	414640073071001	8-17-94	1600	<1.0	1.0	2.8	<1.0	<50	<50
				Long Island Sound Coastal River Basins					
39	413345072531001	8-09-94	1400	<1.0	<1.0	2.1	<1.0	180	<50
40	412600072511501	8-10-94	1700	<1.0	<1.0	1.2	<1.0	150	<50
41	01196580	8-09-94	0930	<1.0	<1.0	<1.0	<1.0	<50	<50
42	01208869	6-29-93	1100	<1.0	3.6	10	<2.0	<50	<50
43	01209710	10-20-92	1640	<1.0	1.3	2.1	<1.0	<100	<5.0

Table 3. Concentrations of chlorinated organic constituents, organic carbon, and inorganic carbon in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	*cis*-Permethrin	*trans*-Permethrin	Toxaphene	Alpha-BHC, D6, surrogate	Biphenyl 3,5-Dichloro, surrogate
				Thames River Basin				
1	01121000	9-03-93	1345	<5.0	<5.0	<200	57	63
		8-03-94	1100	<17	<5.0	<200	84	E58
2	01122610	9-03-93	1030	<9.0	<8.0	<400	67	76
3	420420072010001	8-08-94	1400	<20	<100	<200	98	E66
4	01125100	8-04-94	0900	<10	<65	<200	63	E57
5	01126850	7-20-93	1000	<5.0	<5.0	<200	65	67
6	01127500	9-03-93	0920	<12	<12	<200	64	76
				Connecticut River Basin				
7	01131400	7-22-93	0900	--	--	--	--	--
8	01135300	8-05-93	0830	<5.0	<5.0	<200	32	59
9	01139000	9-07-93	1300	<5.0	<5.0	<200	64	48
10	01142500	9-07-93	1600	<5.0	<5.0	<200	73	63
11	01144010	8-04-93	0935	<5.0	<5.0	<200	65	58
12	01152540	9-07-93	1700	<100	<50	<200	66	57
13	01153150	7-16-93	1145	<5.0	<5.0	<200	56	44
14	01160990	9-08-93	1400	<50	<50	<200	60	60
15	01163200	9-08-93	1730	<20	<20	<200	67	57
		8-01-94	1400	<5.0	<200	65	51	77
16	01170005	9-08-93	1000	<5.0	<10	<200	61	45
17	01170103	9-08-93	0730	<5.0	<5.0	<200	67	54
18	01170500	7-15-93	1250	<5.0	<5.0	<200	60	57
19	01171500	8-15-94	1400	<15	<5.0	<200	92	83
20	01173000	9-08-93	1900	<5.0	<10	<200	64	43
21	01175500	8-02-94	0930	<5.0	<5.0	<200	70	50
22	420910072200001	8-02-94	1500	<5.0	<5.0	<200	87	E54
23	01183850	7-14-93	1330	<5.0	<5.0	<200	76	56
24	01184490	10-22-92	1445	--	--	<200	110	97
25	415645073025001	8-17-94	1100	--	--	<200	88	67
26	01189000	11-17-92	1035	--	--	<200	65	90
27	01191000	8-11-94	0900	<6.0	<36	<200	130	E52
28	01192500	10-21-92	1530	--	--	<200	120	95
29	413615072423001	8-10-94	0930	<10	<5.0	<200	69	E43
30	01192883	8-10-94	1400	<5.0	<5.0	<200	93	E76
31	01192990	7-13-93	1430	<5.0	<5.0	<200	83	60
				Housatonic River Basin				
32	422640073144501	8-16-94	0900	--	--	<200	72	76
33	421140073214501	8-16-94	1830	<5.0	<5.0	<200	76	59
34	01198000	8-16-94	1600	<5.0	<5.0	<200	76	55
35	01198200	8-17-94	0900	<5.0	<5.0	<200	75	71
36	01200000	10-19-92	1430	<20	<20	<200	88	77
37	01201335	7-21-93	0901	<5.0	<5.0	<200	76	83
38	414640073071001	8-17-94	1600	--	--	<200	48	56
				Long Island Sound Coastal River Basins				
39	413345072531001	8-09-94	1400	<35	<20	<200	94	E49
40	412600072511501	8-10-94	1700	<5.0	<12	<200	91	E51
41	01196580	8-09-94	0930	<5.0	<5.0	<200	58	65
42	01208869	6-29-93	1100	<29	<29	<200	71	51
43	01209710	10-20-92	1640	<5.0	<29	<200	70	42

Table 3. Concentrations of chlorinated organic constituents, organic carbon, and inorganic carbon in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	Octachloro-biphenyl, surrogate	Carbon, inorganic (g/kg)	Carbon, organic (g/kg)	Carbon, organic plus inorganic (g/kg)
			Thames River Basin				
1	01121000	9-03-93	1345	74	<0.1	12	12
		8-03-94	1100	E61	<.1	34	34
2	01122610	9-03-93	1030	79	<.1	49	49
3	420420072010001	8-08-94	1400	E65	<.1	78	78
4	01125100	8-04-94	0900	E70	<.1	37	37
5	01126850	7-20-93	1000	53	<.1	27	27
6	01127500	9-03-93	0920	54	<.1	35	35
			Connecticut River Basin				
7	01131400	7-22-93	0900	--	--	--	--
8	01135300	8-05-93	0830	65	3.2	11	14
9	01139000	9-07-93	1300	55	<.1	6.6	6.6
10	01142500	9-07-93	1600	75	<.1	6.4	6.4
11	01144010	8-04-93	0935	73	.3	3.2	3.5
12	01152540	9-07-93	1700	53	<.1	24	24
13	01153150	7-16-93	1145	44	<.1	16	16
14	01160990	9-08-93	1400	65	<.1	13	13
15	01163200	9-08-93	1730	56	<.1	22	22
		8-01-94	1400	<.1	14	14	
16	01170005	9-08-93	1000	52	<.1	14	14
17	01170103	9-08-93	0730	57	<.1	14	14
18	01170500	7-15-93	1250	56	<.1	8.3	8.3
19	01171500	8-15-94	1400	85	.2	32	32
20	01173000	9-08-93	1900	42	<.1	59	59
21	01175500	8-02-94	0930	70	<.1	21	21
22	420910072200001	8-02-94	1500	E58	<.1	22	22
23	01183850	7-14-93	1330	44	<.1	22	22
24	01184490	10-22-92	1445	43	.7	18	19
25	415645073025001	8-17-94	1100	63	1.9	26	28
26	01189000	11-17-92	1035	39	.5	3.7	4.2
27	01191000	8-11-94	0900	E76	<.1	22	22
28	01192500	10-21-92	1530	38	.5	12	12
29	413615072423001	8-10-94	0930	E76	.2	32	32
30	01192883	8-10-94	1400	E65	.1	31	31
31	01192990	7-13-93	1430	52	<.1	7.7	7.7
			Housatonic River Basin				
32	422640073144501	8-16-94	0900	48	7.9	22	30
33	421140073214501	8-16-94	1830	60	13	19	32
34	01198000	8-16-94	1600	70	.4	20	20
35	01198200	8-17-94	0900	72	1.9	15	17
36	01200000	10-19-92	1430	42	7.9	12	20
37	01201335	7-21-93	0901	87	6.5	13	20
38	414640073071001	8-17-94	1600	56	2.7	25	28
			Long Island Sound Coastal River Basins				
39	413345072531001	8-09-94	1400	E86	<0.1	18	18
40	412600072511501	8-10-94	1700	E54	<.1	15	15
41	01196580	8-09-94	0930	67	<.1	16	16
42	01208869	6-29-93	1100	43	.9	20	21
43	01209710	10-20-92	1640	30	1.7	19	21

Table 4. Concentrations of semivolatile organic constituents in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94

[Site No.: See figure 1 for location of station or site and table 1 for description of station or site. Samples were analyzed by the U.S. Geological Survey's National Water-Quality Laboratory in Lakewood, Colorado. All values are in microgram per kilogram, dry weight, unless otherwise noted. E, estimated. No., number. <, actual value is less than value shown. --, no data]

Site No.	Station or site identification No.	Date	Time	Acenaph-thylene	Acenaph-thene	Acri-dine	N-Nitroso-Di-n-Propyl Amine	N-Nitroso-Diphenyl-amine	Anthra-cene	2-Methyl-anthra-cene
				Thames River Basin						
1	01121000	9-03-93	1345	43	<50	<50	<50	<50	45	15
		8-03-94	1100	140	22	22	<50	<50	110	57
2	01122610	9-03-93	1030	64	29	<50	<50	<50	1,100	--
3	420420072010001	8-08-94	1400	330	180	260	<50	<50	1,200	820
4	01125100	8-04-94	0900	840	130	<50	<50	<50	910	330
5	01126850	7-20-93	1000	190	28	<50	<50	<50	240	63
6	01127500	9-03-93	0920	620	51	120	<50	<50	790	180
				Connecticut River Basin						
7	01131400	7-22-93	0900	--	--	--	--	--	--	--
8	01135300	8-05-93	0830	<50	<50	<50	<50	<50	<50	<50
9	01139000	9-07-93	1300	15	<50	<50	<50	<50	20	<50
10	01142500	9-07-93	1600	<50	<50	<50	<50	<50	<50	<50
11	01144010	8-04-93	0935	<50	<50	<50	<50	<50	<50	<50
12	01152540	9-07-93	1700	93	95	<50	<50	<50	250	37
13	01153150	7-16-93	1145	18	<50	<50	<50	<50	16	<50
14	01160990	9-08-93	1400	140	37	<50	<50	<50	250	54
15	01163200	9-08-93	1730	85	9	17	<50	<50	160	36
		8-01-94	1400	91	12	7	<50	<50	120	42
16	01170005	9-08-93	1000	26	<50	<50	<50	<50	46	11
17	01170103	9-08-93	0730	<50	<50	<50	<50	<50	<50	<50
18	01170500	7-15-93	1250	16	12	<50	<50	<50	53	11
19	01171500	8-15-94	1400	110	E33	E45	<50	<50	170	E39
20	01173000	9-08-93	1900	43	8	<50	<50	<50	79	19
21	01175500	8-02-94	0930	<50	<50	<50	<50	<50	<50	<50
22	420910072200001	8-02-94	1500	110	30	25	<50	<50	130	59
23	01183850	7-14-93	1330	92	32	<50	<50	<50	100	37
24	01184490	10-22-92	1445	610	170	160	<50	<50	830	200
25	415645073025001	8-17-94	1100	850	130	140	<50	<50	880	190
26	01189000	11-17-92	1035	260	82	110	<50	<50	530	140
27	01191000	8-11-94	0900	200	51	150	<50	19	390	100
28	01192500	10-21-92	1530	340	110	130	<50	51	580	180
29	413615072423001	8-10-94	0930	290	44	<50	<50	<50	480	390
30	01192883	8-10-94	1400	640	61	62	<50	<50	610	170
31	01192990	7-13-93	1430	48	<50	<50	<50	<50	60	17
				Housatonic River Basin						
32	422640073144501	8-16-94	0900	170	380	190	<50	<50	960	150
33	421140073214501	8-16-94	1830	68	E10	<50	<50	<50	76	<50
34	01198000	8-16-94	1600	E15	<50	<50	<50	<50	E12	<50
35	01198200	8-17-94	0900	E16	<50	<50	<50	<50	E18	<50
36	01200000	10-19-92	1430	42	54	42	<50	<50	93	50
37	01201335	7-21-93	0901	75	25	<50	<50	<50	130	28
38	414640073071001	8-17-94	1600	730	220	220	<50	<50	1,000	160
				Long Island Sound Coastal River Basins						
39	413345072531001	8-09-94	1400	150	20	37	<50	<50	210	73
40	412600072511501	8-10-94	1700	170	29	34	<50	22	160	54
41	01196580	8-09-94	0930	87	E11	<50	<50	<50	97	<50
42	01208869	6-29-93	1100	370	180	160	<50	<50	920	170
43	01209710	10-20-92	1640	330	76	63	<50	<50	510	91

Table 4. Concentrations of semivolatile organic constituents in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	Benzo(a) anthracene	Dibenzo(a,h) anthracene	9,10-Anthraquinone	1,2,4-Trichlorobenzene	*O*-Dichlorobenzene	*M*-Dichlorobenzene
				Thames River Basin					
1	01121000	9-03-93	1345	65	<50	730	<50	<50	<50
		8-03-94	1100	E270	79	110	<50	<50	<50
2	01122610	9-03-93	1030	410	160	--	<50	<50	<50
3	420420072010001	8-08-94	1400	E4,100	350	760	<50	<50	<50
4	01125100	8-04-94	0900	2,500	290	400	<50	<50	<50
5	01126850	7-20-93	1000	320	93	190	<50	<50	<50
6	01127500	9-03-93	0920	1,700	160	730	<50	<50	<50
				Connecticut River Basin					
7	01131400	7-22-93	0900	--	--	--	--	--	--
8	01135300	8-05-93	0830	<50	<50	<50	<50	<50	<50
9	01139000	9-07-93	1300	6	<50	24	<50	<50	<50
10	01142500	9-07-93	1600	140	<50	<50	<50	<50	<50
11	01144010	8-04-93	0935	17	<50	<50	<50	<50	<50
12	01152540	9-07-93	1700	260	150	150	<50	<50	<50
13	01153150	7-16-93	1145	46	<50	11	<50	<50	<50
14	01160990	9-08-93	1400	630	250	150	<50	<50	<50
15	01163200	9-08-93	1730	79	<50	130	<50	<50	<50
		8-01-94	1400	280	64	74	<50	<50	<50
16	01170005	9-08-93	1000	<50	<50	22	<50	<50	<50
17	01170103	9-08-93	0730	46	<50	<50	<50	<50	<50
18	01170500	7-15-93	1250	46	<50	15	<50	<50	<50
19	01171500	8-15-94	1400	590	130	220	<50	<50	<50
20	01173000	9-08-93	1900	630	250	52	<50	<50	<50
21	01175500	8-02-94	0930	22	<50	<50	<50	<50	<50
22	420910072200001	8-02-94	1500	E370	86	80	<50	<50	<50
23	01183850	7-14-93	1330	400	120	83	<50	<50	<50
24	01184490	10-22-92	1445	990	340	620	<50	<50	<50
25	415645073025001	8-17-94	1100	2600	600	1,100	<50	<50	<50
26	01189000	11-17-92	1035	970	300	390	<50	<50	<50
27	01191000	8-11-94	0900	E1,500	260	480	<50	<50	<50
28	01192500	10-21-92	1530	1,300	380	530	<50	<50	<50
29	413615072423001	8-10-94	0930	E1,100	240	360	<50	<50	<50
30	01192883	8-10-94	1400	1,500	250	410	<50	<50	<50
31	01192990	7-13-93	1430	670	65	35	<50	<50	<50
				Housatonic River Basin					
32	422640073144501	8-16-94	0900	2,700	600	880	68	E7	E15
33	421140073214501	8-16-94	1830	180	<50	52	<5	<50	<50
34	01198000	8-16-94	1600	E27	<50	<50	<50	<50	<50
35	01198200	8-17-94	0900	E38	<50	E13	<50	<50	<50
36	01200000	10-19-92	1430	200	100	180	<50	<50	<50
37	01201335	7-21-93	0901	320	93	79	<50	<50	<50
38	414640073071001	8-17-94	1600	3,000	720	1,700	<50	<50	<50
				Long Island Sound Coastal River Basins					
39	413345072531001	8-09-94	1400	E600	140	210	<50	<50	<50
40	412600072511501	8-10-94	1700	E450	120	150	<50	<50	<50
41	01196580	8-09-94	0930	280	86	110	<50	<50	<50
42	01208869	6-29-93	1100	2,000	380	770	<50	<50	<50
43	01209710	10-20-92	1640	1,100	350	380	<50	<50	<50

Table 4. Concentrations of semivolatile organic constituents in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	P-Di-Chloro-benzene	Azoben-zene	Nitro-benzene	Pen-tachloro-nitro-benzene	9H-Carba-zole	Chry-sene	P-Cresol
				Thames River Basin						
1	01121000	9-03-93	1345	<50	<50	<50	<50	16	87	14
		8-03-94	1100	<50	<50	<50	<50	44	320	40
2	01122610	9-03-93	1030	<50	<50	<50	<50	--	630	390
3	420420072010001	8-08-94	1400	<50	<50	<50	<50	510	4,300	59
4	01125100	8-04-94	0900	<50	<50	<50	<50	140	2,300	65
5	01126850	7-20-93	1000	16	<50	<50	<50	45	420	24
6	01127500	9-03-93	0920	<50	130	<50	<50	270	2,800	1,100
				Connecticut River Basin						
7	01131400	7-22-93	0900	--	--	--	--	--	--	--
8	01135300	8-05-93	0830	<50	<50	<50	<50	<50	12	<50
9	01139000	9-07-93	1300	<50	<50	<50	<50	<50	7	<50
10	01142500	9-07-93	1600	<50	<50	<50	<50	<50	220	<50
11	01144010	8-04-93	0935	<50	<50	<50	<50	<50	19	<50
12	01152540	9-07-93	1700	<50	<50	<50	<50	94	420	79
13	01153150	7-16-93	1145	<50	<50	<50	<50	<50	71	15
14	01160990	9-08-93	1400	<50	<50	<50	<50	67	750	<50
15	01163200	9-08-93	1730	<50	<50	<50	<50	56	99	<50
		8-01-94	1400	<50	<50	<50	<50	44	290	17
16	01170005	9-08-93	1000	<50	<50	<50	<50	12	9	<50
17	01170103	9-08-93	0730	<50	<50	<50	<50	<50	59	28
18	01170500	7-15-93	1250	<50	<50	<50	<50	11	71	<50
19	01171500	8-15-94	1400	<50	<50	<50	<50	88	700	90
20	01173000	9-08-93	1900	<50	<50	<50	<50	19	750	<50
21	01175500	8-02-94	0930	<50	<50	<50	<50	<50	30	40
22	420910072200001	8-02-94	1500	<50	<50	<50	<50	55	400	11
23	01183850	7-14-93	1330	<50	<50	<50	<50	29	530	15
24	01184490	10-22-92	1445	<50	<50	<50	<50	330	2,200	54
25	415645073025001	8-17-94	1100	<50	<50	<50	<50	360	2,900	510
26	01189000	11-17-92	1035	<50	<50	<50	<50	260	1,100	<50
27	01191000	8-11-94	0900	6	<50	<50	<50	210	1,600	74
28	01192500	10-21-92	1530	<50	<50	<50	<50	240	1,900	91
29	413615072423001	8-10-94	0930	11	<50	<50	<50	170	1,300	52
30	01192883	8-10-94	1400	<50	<50	<50	<50	160	1,500	38
31	01192990	7-13-93	1430	<50	<50	<50	<50	17	1,000	89
				Housatonic River Basin						
32	422640073144501	8-16-94	0900	78	<50	<50	<50	620	2,800	150
33	421140073214501	8-16-94	1830	<50	<50	<50	<50	E21	190	E28
34	01198000	8-16-94	1600	<50	<50	<50	<50	<50	E28	E43
35	01198200	8-17-94	0900	<50	<50	<50	<50	<50	E38	51
36	01200000	10-19-92	1430	<50	<50	<50	<50	110	250	<50
37	01201335	7-21-93	0901	<50	<50	<50	<50	38	420	<50
38	414640073071001	8-17-94	1600	<50	<50	<50	<50	570	3,600	140
				Long Island Sound Coastal River Basins						
39	413345072531001	8-09-94	1400	<50	<50	<50	<50	94	750	51
40	412600072511501	8-10-94	1700	<50	<50	<50	<50	68	550	72
41	01196580	8-09-94	0930	<50	<50	<50	<50	E36	370	<50
42	01208869	6-29-93	1100	<50	<50	<50	<50	350	3,200	120
43	01209710	10-20-92	1640	<50	<50	<50	<50	160	1,500	120

Table 4. Concentrations of semivolatile organic constituents in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	Thiophene, dibenzo	4-Bromo phenyl-phenyl-ether	4-Chloro phenyl-phenyl-ether	Fluoranthene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	1-Methyl-9H-Fluorene
				Thames River Basin						
1	01121000	9-03-93	1345	16	<50	<50	170	50	51	6
		8-03-94	1100	30	<50	<50	520	270	290	26
2	01122610	9-03-93	1030	<50	<50	<50	1,100	550	520	<50
3	420420072010001	8-08-94	1400	190	<50	<50	6,900	5,400	3,800	42
4	01125100	8-04-94	0900	100	<50	<50	3,100	2,300	2,300	47
5	01126850	7-20-93	1000	35	<50	<50	780	290	310	<50
6	01127500	9-03-93	0920	120	<50	<50	4,600	1,900	520	<50
				Connecticut River Basin						
7	01131400	7-22-93	0900	--	--	--	--	--	--	--
8	01135300	8-05-93	0830	<50	<50	<50	31	9	10	<50
9	01139000	9-07-93	1300	<50	<50	<50	13	5	6	<50
10	01142500	9-07-93	1600	<50	<50	<50	370	100	160	<50
11	01144010	8-04-93	0935	<50	<50	<50	34	15	10	<50
12	01152540	9-07-93	1700	78	<50	<50	770	470	230	21
13	01153150	7-16-93	1145	<50	<50	<50	88	48	51	<50
14	01160990	9-08-93	1400	64	<50	<50	1,500	650	480	34
15	01163200	9-08-93	1730	29	<50	<50	190	67	74	<50
		8-01-94	1400	29	<50	<50	530	180	220	<50
16	01170005	9-08-93	1000	8	<50	<50	10	<50	<50	<50
17	01170103	9-08-93	0730	<50	<50	<50	110	35	45	<50
18	01170500	7-15-93	1250	13	<50	<50	88	48	51	<50
19	01171500	8-15-94	1400	E42	<50	<50	1,400	670	730	<50
20	01173000	9-08-93	1900	26	<50	<50	1,500	650	480	18
21	01175500	8-02-94	0930	<50	<50	<50	33	33	14	<50
22	420910072200001	8-02-94	1500	23	<50	<50	600	440	320	24
23	01183850	7-14-93	1330	27	<50	<50	730	510	440	<50
24	01184490	10-22-92	1445	170	<50	<50	4,400	1,200	600	70
25	415645073025001	8-17-94	1100	190	<50	<50	6,300	2,900	2,800	69
26	01189000	11-17-92	1035	110	<50	<50	2,700	560	310	55
27	01191000	8-11-94	0900	85	<50	<50	2,500	1,800	1,300	30
28	01192500	10-21-92	1530	120	<50	<50	3,700	1,300	800	62
29	413615072423001	8-10-94	0930	81	<50	20	2,000	1,600	1,600	37
30	01192883	8-10-94	1400	110	<50	<50	2,700	1,600	1,100	45
31	01192990	7-13-93	1430	12	<50	<50	1,300	880	720	<50
				Housatonic River Basin						
32	422640073144501	8-16-94	0900	240	<50	<50	6,300	2,500	3,000	55
33	421140073214501	8-16-94	1830	<50	<50	<50	350	260	260	E12
34	01198000	8-16-94	1600	<50	<50	<50	E43	E26	E31	<50
35	01198200	8-17-94	0900	<50	<50	<50	73	E43	E45	<50
36	01200000	10-19-92	1430	62	<50	<50	580	190	160	<50
37	01201335	7-21-93	0901	23	<50	<50	780	290	310	<50
38	414640073071001	8-17-94	1600	250	<50	<50	8,500	3,300	3,700	68
				Long Island Sound Coastal River Basins						
39	413345072531001	8-09-94	1400	44	<50	<50	1,400	700	760	30
40	412600072511501	8-10-94	1700	27	<50	<50	980	600	540	22
41	01196580	8-09-94	0930	<50	<50	<50	800	420	430	<50
42	01208869	6-29-93	1100	180	<50	<50	5,900	2,300	2,100	<50
43	01209710	10-20-92	1640	78	<50	<50	2,700	1,600	1,500	23

Table 4. Concentrations of semivolatile organic constituents in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	9H-Fluorene	Isophorone	Methane *bis*(2-Chloro ethoxy)	Naphthalene	2-Chloronaphthalene	1,2-Dimethyl naphthalene	1,6-Dimethyl naphthalene
				Thames River Basin						
1	01121000	9-03-93	1345	17	<50	<50	<50	<50	<50	<50
		8-03-94	1100	39	<50	<50	<50	<50	<50	13
2	01122610	9-03-93	1030	39	<50	<50	45	<50	<50	<50
3	420420072010001	8-08-94	1400	240	<50	<50	140	<50	8	31
4	01125100	8-04-94	0900	120	<50	<50	190	<50	18	56
5	01126850	7-20-93	1000	52	<50	<50	57	<50	<50	<50
6	01127500	9-03-93	0920	58	<50	<50	75	<50	<50	45
				Connecticut River Basin						
7	01131400	7-22-93	0900	--	--	--	--	--	--	--
8	01135300	8-05-93	0830	<50	<50	<50	<50	<50	<50	<50
9	01139000	9-07-93	1300	<50	<50	<50	<50	<50	<50	<50
10	01142500	9-07-93	1600	<50	<50	<50	<50	<50	<50	<50
11	01144010	8-04-93	0935	<50	<50	<50	<50	<50	<50	<50
12	01152540	9-07-93	1700	78	<50	<50	<50	<50	<5	20
13	01153150	7-16-93	1145	<50	<50	<50	<50	<50	<50	<50
14	01160990	9-08-93	1400	65	<50	<50	39	<50	<50	16
15	01163200	9-08-93	1730	21	<50	<50	29	<50	<50	9
		8-01-94	1400	15	<50	<50	<50	<50	<50	8
16	01170005	9-08-93	1000	13	<50	<50	<50	<50	<50	<50
17	01170103	9-08-93	0730	<50	<50	<50	<50	<50	<50	<50
18	01170500	7-15-93	1250	18	<50	<50	<50	<50	<50	<50
19	01171500	8-15-94	1400	53	<50	<50	E28	<50	<50	E9
20	01173000	9-08-93	1900	20	<50	<50	28	<50	<50	<50
21	01175500	8-02-94	0930	<50	<50	<50	<50	<50	<50	<50
22	420910072200001	8-02-94	1500	40	<50	<50	37	<50	<50	13
23	01183850	7-14-93	1330	27	<50	<50	31	<50	<50	<50
24	01184490	10-22-92	1445	240	<50	<50	110	<50	<50	64
25	415645073025001	8-17-94	1100	250	<50	<50	110	<50	E13	E33
26	01189000	11-17-92	1035	170	<50	<50	29	<50	<50	54
27	01191000	8-11-94	0900	99	<50	<50	29	<50	<50	18
28	01192500	10-21-92	1530	160	<50	<50	63	<50	<50	75
29	413615072423001	8-10-94	0930	89	<50	<50	59	<50	<50	16
30	01192883	8-10-94	1400	100	<50	<50	39	<50	9	49
31	01192990	7-13-93	1430	19	<50	<50	<50	<50	<50	<50
				Housatonic River Basin						
32	422640073144501	8-16-94	0900	450	<50	<50	230	<50	E12	E48
33	421140073214501	8-16-94	1830	E18	<50	<50	E17	<50	<50	E7
34	01198000	8-16-94	1600	<50	<50	<50	<50	<50	<50	<50
35	01198200	8-17-94	0900	<50	<50	<50	<50	<50	<50	<50
36	01200000	10-19-92	1430	63	<50	<50	120	<50	<50	59
37	01201335	7-21-93	0901	36	<50	<50	18	<50	<50	<50
38	414640073071001	8-17-94	1600	370	<50	<50	110	<50	E13	E34
				Long Island Sound Coastal River Basins						
39	413345072531001	8-09-94	1400	47	<50	<50	<50	<50	<50	8
40	412600072511501	8-10-94	1700	42	<50	<50	23	<50	<50	12
41	01196580	8-09-94	0930	E22	<50	<50	<50	<50	<50	E5
42	01208869	6-29-93	1100	260	<50	<50	54	<50	<50	73
43	01209710	10-20-92	1640	92	<50	<50	27	<50	<50	14

Table 4. Concentrations of semivolatile organic constituents in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	2,6-Dimethyl naphthalene	2-Ethyl-naptha-lene	2,3,6-Trimethyl-naphthlene	Penta-chloro-anisole	Benzo (g,h,i) perylene	Phenan-threne
				Thames River Basin					
1	01121000	9-03-93	1345	10	<50	<50	<50	66	230
		8-03-94	1100	36	<50	24	<50	E110	310
2	01122610	9-03-93	1030	120	<50	<50	<50	350	1,100
3	420420072010001	8-08-94	1400	62	17	23	<50	E550	3,200
4	01125100	8-04-94	0900	150	46	39	<50	E460	1,500
5	01126850	7-20-93	1000	36	<50	<50	<50	200	550
6	01127500	9-03-93	0920	130	<50	22	<50	350	2,300
				Connecticut River Basin					
7	01131400	7-22-93	0900	--	--	--	--	--	--
8	01135300	8-05-93	0830	17	<50	<50	<50	<50	<50
9	01139000	9-07-93	1300	<50	<50	<50	<50	<50	83
10	01142500	9-07-93	1600	7	<50	<50	<50	120	<50
11	01144010	8-04-93	0935	<50	<50	<50	<50	<50	<50
12	01152540	9-07-93	1700	67	7	9	<50	300	1,100
13	01153150	7-16-93	1145	<50	<50	<50	<50	34	37
14	01160990	9-08-93	1400	44	<50	13	<50	480	960
15	01163200	9-08-93	1730	23	<50	8	<50	46	410
		8-01-94	1400	13	<50	<50	<50	120	310
16	01170005	9-08-93	1000	19	<50	<50	<50	<50	110
17	01170103	9-08-93	0730	17	<50	<50	<50	<50	<50
18	01170500	7-15-93	1250	<50	<50	<50	<50	34	150
19	01171500	8-15-94	1400	E41	<50	<50	<50	300	680
20	01173000	9-08-93	1900	28	<50	14	<50	480	330
21	01175500	8-02-94	0930	<50	<50	<50	<50	<50	18
22	420910072200001	8-02-94	1500	37	<50	26	<50	E100	310
23	01183850	7-14-93	1330	26	<50	<50	<50	280	360
24	01184490	10-22-92	1445	86	33	50	<5.0	660	3,300
25	415645073025001	8-17-94	1100	68	E30	E43	<50	1,400	3,100
26	01189000	11-17-92	1035	51	<50	46	<5.0	200	2,000
27	01191000	8-11-94	0900	50	10	18	<50	E350	1,100
28	01192500	10-21-92	1530	71	<50	50	<5.0	470	2,200
29	413615072423001	8-10-94	0930	82	9	35	<50	E390	970
30	01192883	8-10-94	1400	83	17	26	<50	E360	1,100
31	01192990	7-13-93	1430	12	<50	<50	<50	510	170
				Housatonic River Basin					
32	422640073144501	8-16-94	0900	86	E19	E34	<50	1,300	4,300
33	421140073214501	8-16-94	1830	E37	<50	E6	<50	95	170
34	01198000	8-16-94	1600	E20	<50	<50	<50	<50	E20
35	01198200	8-17-94	0900	E12	<50	<50	<50	<50	E38
36	01200000	10-19-92	1430	70	<50	32	<5.0	100	760
37	01201335	7-21-93	0901	15	<50	<50	<50	200	370
38	414640073071001	8-17-94	1600	76	E17	51	<50	1,800	4,500
				Long Island Sound Coastal River Basins					
39	413345072531001	8-09-94	1400	23	<50	25	<50	E200	640
40	412600072511501	8-10-94	1700	33	<50	22	<50	E160	430
41	01196580	8-09-94	0930	77	<50	<50	<50	180	370
42	01208869	6-29-93	1100	40	<50	23	<50	1,100	3,200
43	01209710	10-20-92	1640	77	<50	11	<5.0	620	1,200

Table 4. Concentrations of semivolatile organic constituents in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	1-Methyl-phenanthrene	4,5-Methylene-phenanthrene	Phenanthridine	Phenol	2,4-Dichlorophenol	3,5-Xylenol	M-Cresol, 4-Chloro
				Thames River Basin						
1	01121000	9-03-93	1345	47	47	<50	12	<50	<50	<50
		8-03-94	1100	E75	E73	<50	49	<50	<50	<50
2	01122610	9-03-93	1030	--	--	--	130	<50	<50	<50
3	420420072010001	8-08-94	1400	E590	E600	<50	48	<50	<50	<50
4	01125100	8-04-94	0900	E660	E480	<50	57	<50	<50	<50
5	01126850	7-20-93	1000	130	140	<50	20	<50	<50	<50
6	01127500	9-03-93	0920	400	500	62	79	<50	<50	15
				Connecticut River Basin						
7	01131400	7-22-93	0900	--	--	--	--	--	--	--
8	01135300	8-05-93	0830	<50	<50	<50	19	<50	<50	<50
9	01139000	9-07-93	1300	12	15	<50	12	<50	<50	<50
10	01142500	9-07-93	1600	<50	<50	<50	23	<50	<50	<50
11	01144010	8-04-93	0935	<50	<50	<50	<50	<50	<50	<50
12	01152540	9-07-93	1700	120	120	<50	70	<50	<50	<50
13	01153150	7-16-93	1145	<50	11	<50	15	<50	<50	<50
14	01160990	9-08-93	1400	140	160	<50	36	<50	<50	<50
15	01163200	9-08-93	1730	57	72	<50	27	<50	<50	<50
		8-01-94	1400	46	54	10	20	<50	<50	<50
16	01170005	9-08-93	1000	13	19	<50	33	<50	<50	<50
17	01170103	9-08-93	0730	<50	<50	<50	14	<50	<50	<50
18	01170500	7-15-93	1250	19	21	<50	<50	<50	<50	<50
19	01171500	8-15-94	1400	70	110	E48	E30	<50	<50	<50
20	01173000	9-08-93	1900	51	49	<50	38	<50	<50	<50
21	01175500	8-02-94	0930	<50	<50	<50	35	<50	<50	<50
22	420910072200001	8-02-94	1500	E66	E65	<50	28	<50	<50	<50
23	01183850	7-14-93	1330	58	83	<50	11	<50	<50	<50
24	01184490	10-22-92	1445	200	500	97	45	<50	<50	<50
25	415645073025001	8-17-94	1100	440	640	110	69	<50	<50	<50
26	01189000	11-17-92	1035	250	320	88	85	<50	<50	<50
27	01191000	8-11-94	0900	E190	E280	<50	37	<50	<50	<50
28	01192500	10-21-92	1530	270	360	<50	74	<50	<50	<50
29	413615072423001	8-10-94	0930	E350	E300	<50	22	<50	<50	<50
30	01192883	8-10-94	1400	E280	E360	<50	28	<50	<50	<50
31	01192990	7-13-93	1430	30	35	<50	26	<50	<50	<50
				Housatonic River Basin						
32	422640073144501	8-16-94	0900	290	600	150	65	<50	<50	<50
33	421140073214501	8-16-94	1830	E27	E28	<50	E22	<50	<50	<50
34	01198000	8-16-94	1600	<50	<50	<50	E16	<50	<50	<50
35	01198200	8-17-94	0900	<50	<50	<50	E17	<50	<50	<50
36	01200000	10-19-92	1430	83	34	41	44	<50	<50	<50
37	01201335	7-21-93	0901	41	68	<50	<50	<50	<50	<50
38	414640073071001	8-17-94	1600	470	740	160	E47	<50	E9	<50
				Long Island Sound Coastal River Basins						
39	413345072531001	8-09-94	1400	E140	E130	<50	34	<50	<50	<50
40	412600072511501	8-10-94	1700	E77	E80	21	49	<50	<50	<50
41	01196580	8-09-94	0930	E30	60	<50	E37	<50	<50	<50
42	01208869	6-29-93	1100	410	520	78	49	<50	<50	<50
43	01209710	10-20-92	1640	130	250	<50	71	<50	<50	<50

Table 4. Concentrations of semivolatile organic constituents in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	C8-Alkyl-phenol	*bis*(2-Ethylhexyl) Phthalate	Butyl-benzyl Phthalate	Di-n-butyl Phtha-late	Di-n-octyl Phtha-late	Diethyl Phtha-late
				Thames River Basin					
1	01121000	9-03-93	1345	<50	26	14	38	<50	<50
		8-03-94	1100	<50	E88	E64	47	<50	16
2	01122610	9-03-93	1030	<50	300	--	--	22	<50
3	420420072010001	8-08-94	1400	<50	E3,000	E270	87	240	6
4	01125100	8-04-94	0900	<50	E640	E150	55	<50	<50
5	01126850	7-20-93	1000	<50	75	22	63	<50	<50
6	01127500	9-03-93	0920	<50	2,300	<50	<50	<50	<50
				Connecticut River Basin					
7	01131400	7-22-93	0900	--	--	--	--	--	--
8	01135300	8-05-93	0830	<50	13	<50	42	<50	<50
9	01139000	9-07-93	1300	<50	11	9	16	<50	<50
10	01142500	9-07-93	1600	<50	170	<50	20	<50	14
11	01144010	8-04-93	0935	<50	32	14	67	<50	<50
12	01152540	9-07-93	1700	<50	760	<50	27	<50	27
13	01153150	7-16-93	1145	<50	57	13	44	<50	10
14	01160990	9-08-93	1400	<50	120	<50	24	<50	<5
15	01163200	9-08-93	1730	<50	19	<50	58	<50	5
		8-01-94	1400	<50	400	58	41	<50	<50
16	01170005	9-08-93	1000	<50	19	<50	23	<50	<50
17	01170103	9-08-93	0730	<50	21	<50	16	<50	12
18	01170500	7-15-93	1250	<50	57	13	37	<50	<50
19	01171500	8-15-94	1400	<50	1,400	E45	E43	E37	<50
20	01173000	9-08-93	1900	<50	120	<50	27	<50	<50
21	01175500	8-02-94	0930	<50	77	<50	31	<50	<50
22	420910072200001	8-02-94	1500	<50	E220	E58	38	E63	13
23	01183850	7-14-93	1330	<50	420	42	64	<50	<50
24	01184490	10-22-92	1445	<50	160	97	64	100	21
25	415645073025001	8-17-94	1100	<50	840	55	E47	E43	<50
26	01189000	11-17-92	1035	<50	970	140	74	120	<50
27	01191000	8-11-94	0900	<50	E1,700	190	99	E390	7
28	01192500	10-21-92	1530	<50	510	110	78	130	<50
29	413615072423001	8-10-94	0930	<50	E1,800	<50	96	<50	<50
30	01192883	8-10-94	1400	<50	E130	E77	45	<50	<50
31	01192990	7-13-93	1430	<50	710	<50	50	<50	<50
				Housatonic River Basin					
32	422640073144501	8-16-94	0900	<50	2,000	200	60	210	E39
33	421140073214501	8-16-94	1830	<50	450	<50	<50	<50	<50
34	01198000	8-16-94	1600	<50	<50	<50	<50	<50	<50
35	01198200	8-17-94	0900	<50	<50	<50	<50	<50	<50
36	01200000	10-19-92	1430	<50	110	<50	58	<50	<50
37	01201335	7-21-93	0901	<50	75	22	59	<50	<50
38	414640073071001	8-17-94	1600	<50	1,300	260	150	59	<50
				Long Island Sound Coastal River Basins					
39	413345072531001	8-09-94	1400	<50	E660	E75	57	E80	14
40	412600072511501	8-10-94	1700	<50	E900	E64	37	E78	13
41	01196580	8-09-94	0930	<50	73	E24	<50	<50	<50
42	01208869	6-29-93	1100	<50	900	70	48	55	<50
43	01209710	10-20-92	1640	<50	1,100	110	52	<50	10

Table 4. *Concentrations of semivolatile organic constituents in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94—Continued*

Site No.	Station or site identification No.	Date	Time	Dimethyl Phthalate	Pyrene	1-Methyl-pyrene	Benzo(a) Pyrene	Indeno (1,2,3-CD) pyrene	2,2´-Biquino-line	Quino-line
				Thames River Basin						
1	01121000	9-03-93	1345	<50	140	13	59	56	14	<50
		8-03-94	1100	28	470	89	320	230	61	<50
2	01122610	9-03-93	1030	<50	910	--	110	400	<50	<50
3	420420072010001	8-08-94	1400	11	5,200	480	3,500	1,000	<500	22
4	01125100	8-04-94	0900	8	3,000	910	2,200	850	76	10
5	01126850	7-20-93	1000	<50	660	44	330	220	12	<50
6	01127500	9-03-93	0920	<50	4,200	440	110	400	<50	<50
				Connecticut River Basin						
7	01131400	7-22-93	0900	--	--	--	--	--	--	--
8	01135300	8-05-93	0830	<50	24	<50	<50	<50	<50	<50
9	01139000	9-07-93	1300	<50	11	<50	<50	<50	<50	<50
10	01142500	9-07-93	1600	<50	460	74	170	110	<50	<50
11	01144010	8-04-93	0935	<50	28	<50	13	13	<50	<50
12	01152540	9-07-93	1700	<50	670	93	320	370	<50	5
13	01153150	7-16-93	1145	<50	88	12	48	40	<50	<50
14	01160990	9-08-93	1400	<50	1,400	160	450	670	<50	<50
15	01163200	9-08-93	1730	<50	170	22	79	76	<50	<50
		8-01-94	1400	<50	450	58	190	210	<50	<50
16	01170005	9-08-93	1000	<50	10	<50	<50	<50	<50	<50
17	01170103	9-08-93	0730	<50	97	9	29	40	<50	<50
18	01170500	7-15-93	1250	<50	88	12	48	40	<50	<50
19	01171500	8-15-94	1400	<50	1,100	62	590	510	<50	<50
20	01173000	9-08-93	1900	<50	1,400	160	450	670	<50	<50
21	01175500	8-02-94	0930	<50	33	15	26	<50	<50	<50
22	420910072200001	8-02-94	1500	17	500	78	340	230	<50	<50
23	01183850	7-14-93	1330	<50	690	85	470	320	<50	<50
24	01184490	10-22-92	1445	<50	3,700	310	1,200	230	200	<50
25	415645073025001	8-17-94	1100	<50	4,900	380	1,800	2,100	<50	<50
26	01189000	11-17-92	1035	<50	2,100	170	460	690	<50	<50
27	01191000	8-11-94	0900	8	2,000	170	1,300	680	<50	8
28	01192500	10-21-92	1530	<50	3,000	230	330	880	<50	<50
29	413615072423001	8-10-94	0930	<50	1,600	360	1,100	780	<50	<50
30	01192883	8-10-94	1400	<50	2,200	280	1,300	680	<50	8
31	01192990	7-13-93	1430	<50	1,400	190	830	520	<50	<50
				Housatonic River Basin						
32	422640073144501	8-16-94	0900	<50	4,600	220	1,600	2,000	<50	E19
33	421140073214501	8-16-94	1830	<50	310	<50	190	180	<50	<50
34	01198000	8-16-94	1600	<50	E40	<50	E28	<50	<50	<50
35	01198200	8-17-94	0900	<50	60	<50	E44	<50	<50	<50
36	01200000	10-19-92	1430	<50	420	64	190	150	210	<50
37	01201335	7-21-93	0901	<50	660	44	330	220	12	<50
38	414640073071001	8-17-94	1600	<50	6,100	370	2,000	2,500	<50	E15
				Long Island Sound Coastal River Basins						
39	413345072531001	8-09-94	1400	17	1,100	120	660	440	<50	<50
40	412600072511501	8-10-94	1700	17	760	76	520	390	<50	<50
41	01196580	8-09-94	0930	<50	570	<50	310	310	E14	<50
42	01208869	6-29-93	1100	<50	4,800	310	2,000	1,300	120	<50
43	01209710	10-20-92	1640	41	2,200	110	1,100	930	<50	<50

Table 4. Concentrations of semivolatile organic constituents in streambed sediment and spiked surrogates for samples in the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Date	Time	Benzo(c) quino-line	Iso-quino-line	2,4-Di-nitro-toluene	2,6-Di-nitro-toluene	Terphenyl D14-surro-gate	Benzene nitro (d5) surro-gate	Biphenyl 2-fluoro surro-gate
				Thames River Basin						
1	01121000	9-03-93	1345	<50	<50	<50	<500	70	30	24
		8-03-94	1100	<50	<50	<50	<500	99	71	69
2	01122610	9-03-93	1030	--	<50	<50	<500	--	52	41
3	420420072010001	8-08-94	1400	<50	21	<50	<500	100	74	63
4	01125100	8-04-94	0900	<50	25	<50	<500	99	84	78
5	01126850	7-20-93	1000	<50	<50	<50	<500	71	58	55
6	01127500	9-03-93	0920	<50	6	<50	<500	95	52	41
				Connecticut River Basin						
7	01131400	7-22-93	0900	--	--	--	--	--	--	--
8	01135300	8-05-93	0830	<50	<50	<50	<500	82	57	65
9	01139000	9-07-93	1300	<50	<50	<50	<500	71	47	41
10	01142500	9-07-93	1600	<50	<50	<50	<500	83	64	54
11	01144010	8-04-93	0935	<50	<50	<50	<500	69	62	57
12	01152540	9-07-93	1700	<50	<50	<50	<500	68	42	30
13	01153150	7-16-93	1145	<50	<50	<50	<500	51	45	44
14	01160990	9-08-93	1400	<50	<50	<50	<500	70	39	41
15	01163200	9-08-93	1730	<50	<50	<50	<500	73	40	37
		8-01-94	1400	<50	<50	<50	<500	90	46	63
16	01170005	9-08-93	1000	<50	<50	<50	<500	54	29	29
17	01170103	9-08-93	0730	<50	<50	<50	<500	68	44	37
18	01170500	7-15-93	1250	<50	<50	<50	<500	51	45	44
19	01171500	8-15-94	1400	<50	<50	<50	<500	68	54	50
20	01173000	9-08-93	1900	<50	<50	<50	<500	70	39	41
21	01175500	8-02-94	0930	<50	<50	<50	<500	93	56	73
22	420910072200001	8-02-94	1500	<50	<50	<50	<500	110	70	83
23	01183850	7-14-93	1330	<50	<50	<50	<500	79	58	63
24	01184490	10-22-92	1445	<50	<50	<50	<500	64	38	50
25	415645073025001	8-17-94	1100	<50	E24	<50	<500	76	73	66
26	01189000	11-17-92	1035	<50	<50	<50	<500	71	20	51
27	01191000	8-11-94	0900	<50	20	<50	<500	110	75	62
28	01192500	10-21-92	1530	<50	<50	<50	<500	69	37	50
29	413615072423001	8-10-94	0930	<50	<50	<50	<500	98	68	71
30	01192883	8-10-94	1400	<50	18	<50	<500	110	49	65
31	01192990	7-13-93	1430	<50	<50	<50	<500	72	43	64
				Housatonic River Basin						
32	422640073144501	8-16-94	0900	<50	E15	<50	<500	75	71	63
33	421140073214501	8-16-94	1830	<50	<50	<50	<500	80	56	55
34	01198000	8-16-94	1600	<50	<50	<50	<500	76	51	59
35	01198200	8-17-94	0900	<50	<50	<50	<500	78	64	64
36	01200000	10-19-92	1430	<50	70	<50	<500	63	51	55
37	01201335	7-21-93	0901	<50	<50	<50	<500	71	58	55
38	414640073071001	8-17-94	1600	<50	E27	<50	<500	77	67	64
				Long Island Sound Coastal River Basins						
39	413345072531001	8-09-94	1400	<50	<50	<50	<500	85	57	59
40	412600072511501	8-10-94	1700	<50	<50	<50	<500	89	71	86
41	01196580	8-09-94	0930	<50	<50	<50	<500	79	39	48
42	01208869	6-29-93	1100	<50	<50	<50	<500	51	37	41
43	01209710	10-20-92	1640	<50	<50	<50	<500	120	81	94

Table 5. Grain-size distribution of streambed-sediment samples from the Connecticut, Housatonic, and Thames River Basins, 1992–94

[Site No.: See figure 1 for locations of station or site and table 1 for description of station or site. Sand-sized particles range from less than 2 μm to greater than 63 μm, silt-sized particles range from less than 63 μm to greater than 40 μm, and clay-sized particles are less than 40 μm]

Site No.	Station or site identification No.	Date	Percentage of sample		
			Sand	Silt	Clay
		Thames River Basin			
1	01121000	9-03-93	97.35	2.53	0.11
		8-03-94	92.80	6.92	.28
2	01122610	9-03-93	84.33	12.63	3.04
3	420420072010001	8-08-94	76.79	22.36	.85
4	01125100	8-04-94	96.44	3.40	.16
5	01126850	7-20-93	66.08	31.33	2.59
6	01127500	9-03-93	89.45	9.43	1.12
		Connecticut River Basin			
7	01131400	7-22-93	82.98	16.65	0.38
8	01135300	8-05-93	84.95	14.39	.67
9	01139000	9-07-93	96.41	3.41	.18
10	01142500	9-07-93	84.93	14.34	.72
11	01144010	8-04-93	95.72	4.18	.10
12	01152540	9-07-93	89.99	9.08	.93
13	01153150	7-16-93	64.17	35.20	.63
14	01160990	9-08-93	93.80	5.77	.43
15	01163200	9-08-93	92.16	7.30	.54
		8-01-94	96.83	.97	.20
16	01170005	9-08-93	87.28	11.94	.78
17	01170103	9-08-93	87.24	11.69	1.07
18	01170500	7-15-93	87.74	11.68	.58
19	01171500	8-15-94	88.59	10.53	.88
20	01173000	9-08-93	92.29	5.76	1.95
21	01175500	8-02-94	94.72	4.99	.29
22	420910072200001	8-02-94	96.29	3.55	.16
23	01183850	7-14-93	92.05	7.03	.92
24	01184490	10-22-92	90.06	8.30	1.65
25	415645073025001	8-17-94	90.12	9.10	.78
26	01189000	11-17-92	98.35	1.56	.08
27	01191000	8-11-94	75.96	21.45	2.59
28	01192500	10-21-92	92.55	6.52	.92
29	413615072423001	8-10-94	68.61	26.72	4.67
30	01192883	8-10-94	88.06	10.69	1.25
31	01192990	7-13-93	81.74	17.62	.64
		Housatonic River Basin			
32	422640073144501	8-16-94	87.12	12.13	0.75
33	421140073214501	8-16-94	84.99	14.16	.85
34	01198000	8-16-94	85.45	13.40	1.14
35	01198200	8-17-94	90.78	8.91	.32
36	01200000	10-19-92	57.69	39.53	2.78
37	01201335	7-21-93	72.15	25.47	2.39
38	414640073071001	8-17-94	87.87	11.46	.66
		Long Island Sound Coastal River Basins			
39	413345072531001	8-09-94	92.17	7.08	0.75
40	412600072511501	8-10-94	93.93	5.60	.47
41	01196580	8-09-94	91.36	7.22	1.43
42	01208869	6-29-93	97.41	2.34	.25
43	01209710	10-20-92	91.58	7.72	.70

Table 6. Percentage of drainage-basin area in land-use categories by sampling site and basin where streambed sediment samples were collected in the Connecticut, Housatonic, and Thames River Basins, 1992–94

[Site No.: See figure 1 for locations of station or site and table 1 for description of station or site. Land-use categories from Anderson and others (1976). Land-use categories are shown in parentheses. Land-use data from mid-1970's extracted using the U.S. Geological Survey's Geographic Information and Analysis System (GIRAS) (Mitchell and others, 1977). Land-use data corrected for recent urban/suburban development using 1990 population data (Hitt, 1994). Percentages do not sum to 100 due to rounding. <, actual value is less than value shown. mi^2, square mile]

Site No.	Station or site identification No.	Drainage-basin area (mi^2)	Percentage of drainage-basin area in land-use category							
			Residential (11)	Commercial (12)	Transportation and utilities (14)	Mixed and other urban (13, 15, 16, 17)	Cropland and pasture (21)	Orchard (22)	Other agriculture (23, 24)	Deciduous forest (41)
Thames River Basin										
1	01121000	27.1	1.7	0.5	0.2	0.2	11.5	0	0	64.8
2	01122610	411	7.2	.9	.6	.7	10.6	.1	.1	57.3
3	420420072010001	122	7.3	.9	2.2	.9	6.9	.4	0	63.2
4	01125100	101	13.0	1.7	.8	1.9	5.0	.2	<.1	45.8
5	01126850	644	5.6	.7	1.0	1.3	11.5	.2	<.1	53.6
6	01127500	89.1	1.6	.6	1.2	.5	24.5	0	.3	66.8
Connecticut River Basin										
7	01131400	1,515	0.3	0.1	<0.1	0.1	5.5	0	0	26.2
8	01135300	42.9	.2	0	<.1	0	27.8	0	0	31.9
9	01139000	95.1	.4	<.1	.5	0	11.1	0	0	60.8
10	01142500	31.7	0	0	1.5	0	34.3	0	0	23.5
11	01144010	692	0.2	0	0	1.0	18.6	0	0	37.4
12	01152540	272	1.5	.2	1.1	.9	5.9	0	0	6.0
13	01153150	5,298	.7	.1	.6	.4	11.4	0	0	25.2
14	01160990	420	3.2	.4	.1	.7	3.7	0	<.1	16.0
15	01163200	34.2	14.1	3.0	2.2	2.3	3.1	0	.1	31.7
16	01170005	561	1.9	.1	.1	.8	9.0	.2	0	53.3
17	01170103	41.8	0	.2	0	.4	7.1	.6	0	41.8
18	01170500	7,873	1.4	.2	.5	.5	10.2	<.1	<.1	27.2
19	01171500	54.0	9.5	1.7	0	.7	8.7	.2	0	54.0
20	01173000	96.1	0.8	.3	0	.1	4.9	0	<.1	48.3
21	01175500	189	0.6	.1	0	.1	2.6	<.1	0	64.7
22	420910072200001	207	6.6	.8	.1	1.0	16.5	.3	0	54.9
23	01183850	9,650	3.1	.5	.6	.6	10.5	.1	<.1	30.9
24	01184490	14.7	5.8	.2	.4	1.7	54.6	0	.2	28.2
25	415645073025001	44.9	6.7	1.4	1.4	.5	6.1	0	0	77.1
26	01189000	44.9	35.0	3.8	0	3.8	6.6	0	0	43.4
27	01191000	26.6	32.9	8.2	0	7.1	22.4	0	.1	24.4
28	01192500	73.6	41.3	3.6	2.4	4.1	11.0	0	0	28.2
29	413615072423001	56.9	27.6	3.6	1.3	5.2	23.6	.6	0	35.1
30	01192883	30.1	4.6	.5	0	2.0	35.8	1.6	.3	53.1
31	01192990	10,894	5.0	.8	.6	.9	11.1	.1	<.1	31.6
Housatonic River Basin										
32	422640073144501	70.3	12.9	1.8	0.4	3.3	7.5	0	0.1	35.3
33	421140073214501	335	11.4	1.3	1.1	1.8	12.0	<.1	<.1	39.2
34	01198000	51.0	3.2	.5	.6	0	20.9	0	0	52.2
35	01198200	60.6	2.9	.2	0	0	12.8	0	.1	46.5
36	01200000	200	2.0	.5	<.1	.6	41.8	0	0	49.8
38	414640073071001	54.9	11.5	2.1	.8	.8	10.8	0	0	67.8
Long Island Sound Coastal River Basins										
39	413345072531001	57.3	35.6	5.4	2.1	3.0	9.8	0.3	0	40.6
40	412600072511501	108	39.4	5.6	2.6	5.1	11.2	.9	0	32.9
41	01196580	16.6	12.8	0	1.7	.7	36.4	1.7	0	42.1
42	01208869	8.1	79.5	6.0	0	11.8	0	0	0	1.4
43	01209710	32.9	44.4	2.4	0	3.7	4.2	0	0	44.3

Table 6. Percentage of drainage-basin area in land-use categories by sampling site and basin where streambed sediments samples were collected in the Connecticut, Housatonic, and Thames River Basins, 1992–94—*Continued*

Site No.	Station or site identification No.	Percentage of drainage-basin area in land-use category								
		Evergreen forest (42)	Mixed forest (43)	Streams (51)	Lakes and reservoirs (52, 53)	Forested and non-forested wetlands (61, 62)	Mines and gravel pits (75)	Transitional areas (76)	Other (32, 74, 84, 99)	Unclassified
					Thames River Basin					
1	01121000	7.0	11.6	0	2.1	0	0.3	0	0	0
2	01122610	2.5	16.5	0	2.2	.8	.3	.1	.1	0
3	420420072010001	5.3	2.4	0	2.5	7.4	.2	.2	0	0
4	01125100	4.2	18.5	0	5.7	1.2	.4	1.3	.3	0
5	01126850	4.2	15.9	.1	2.3	2.6	.3	.5	.1	0
6	01127500	.3	0	0	2.8	.6	.4	.2	.1	0
					Connecticut River Basin					
7	01131400	40.0	15.9	<0.1	1.1	3.0	<0.1	0	0.1	7.6
8	01135300	26.1	14.0	0	0	0	0	0	0	0
9	01139000	19.1	4.5	0	1.4	2.0	<.1	.1	0	0
10	01142500	7.4	33.4	0	0	0	0	0	0	0
11	01144010	2.8	39.8	<.1	.1	0	0	0	0	0
12	01152540	4.8	75.3	0	4.0	.3	0	0	0	0
13	01153150	23.4	33.4	.2	1.0	1.1	<.1	<.1	.1	2.2
14	01160990	35.6	35.3	0	1.8	3.1	<.1	.1	<.1	0
15	01163200	7.0	26.8	0	2.8	5.6	1.0	0	0	0
16	01170005	28.0	4.6	0	1.4	.6	0	.1	0	0
17	01170103	49.6	<.1	0	.4	<.1	0	0	0	0
18	01170500	23.3	32.2	.3	1.1	1.4	.1	.1	<.1	1.5
19	01171500	5.2	17.8	0	.6	1.4	.1	0	0	0
20	01173000	25.6	10.5	0	3.0	5.8	.5	.3	0	0
21	01175500	7.2	1.0	0	19.2	4.5	0	0	0	0
22	420910072200001	10.2	1.5	0	1.8	5.7	.6	.1	0	0
23	01183850	21.9	26.8	.3	1.4	1.8	.1	.1	.1	1.2
24	01184490	0	4.1	0	1.0	0	3.9	0	0	0
25	415645073025001	0	.4	0	2.9	.6	.7	.7	1.5	0
26	01189000	3.0	1.9	0	1.8	0	.2	.5	0	0
27	01191000	.2	.4	0	1.3	2.2	.2	0	.5	0
28	01192500	<.1	6.8	0	1.9	.3	.4	0	.2	0
29	413615072423001	.5	0	0	2.4	0	<.1	0	0	0
30	01192883	1.0	0	0	.7	0	.4	0	0	0
31	01192990	20.2	24.5	.4	1.5	1.8	.2	.1	.1	1.1
					Housatonic River Basin					
32	422640073144501	29.4	1.3	0	1.2	5.8	0.8	0.1	0	0
33	421140073214501	26.0	1.2	0	1.5	4.0	.5	0	0	0
34	01198000	20.5	0	0	.4	1.7	.1	0	0	0
35	01198200	34.1	0	0	1.4	1.5	.5	0	0	0
36	01200000	1.3	2.1	0	1.2	.5	.3	.1	0	0
38	414640073071001	0	2.4	0	2.9	0	<.1	.1	.8	0
					Long Island Sound Coastal River Basins					
39	413345072531001	0	0.6	0	1.5	0	1.2	0	0	0
40	412600072511501	0	.4	0	1.3	0	.7	0	0	0
41	01196580	1.0	0	0	2.2	.6	.8	0	0	0
42	01208869	0	0	0	1.2	0	0	0	0	0
43	01209710	0	0	0	1.0	0	0	0	0	0

Table 7. General land-use characteristics of the drainage basins of sample-site locations for streambed sediment in the Connecticut, Housatonic, and Thames River Basins, 1992–94

[Site No. : Site No.: See figure 1 for location of station or site and table 1 for description of station or site. Samples were analyzed by the U.S. Geological Survey's National Water-Quality Laboratory in Lakewood, Colorado. NPDES, National Pollution Discharge Elimination System. Discharge volume in thousands of gallons per day. <, actual value is less than value shown]

Site No.	Station or site identification No.	Drainage-basin area (square mile)	Percentage of drainage-basin area				Population density (people per square mile)	NPDES density (number per square mile)	NPDES discharge area (volume per square mile)
			Urban	Agri-culture	For-ested	Other			
Thames River Basin									
1	01121000	27.1	2.6	11.5	83.4	2.4	114	0	0
2	01122610	411	9.4	10.8	76.3	3.5	240	.017	2.4
3	420420072010001	122	11.3	7.3	70.9	10.3	282	.041	15.0
4	01125100	101	17.4	5.2	68.5	8.9	492	.040	3.6
5	01126850	644	8.6	11.7	73.7	5.9	250	.068	6.9
6	01127500	89.1	3.9	24.8	67.1	4.1	175	0	0
Connecticut River Basin									
7	01131400	1,515	0.5	5.5	82.1	11.8	14	0.005	1.0
8	01135300	42.9	.2	27.8	72.0	0	27	0	0
9	01139000	95.1	.9	11.1	84.4	3.5	14	0	0
10	01142500	31.7	1.5	34.3	64.3	0	12	0	0
11	01144010	692	1.2	18.6	80.0	0.1	29	.003	<.1
12	01152540	272	3.7	5.9	86.1	4.3	88	.040	4.7
13	01153150	5,298	1.8	11.4	82.0	4.6	40	.010	.8
14	01160990	420	4.4	3.7	86.9	5.0	105	.028	2.0
15	01163200	34.2	21.6	3.2	65.5	9.4	554	.117	17.8
16	01170005	561	2.9	9.2	85.9	2.1	30	.005	38.0
17	01170103	41.8	.6	7.7	91.4	.4	<1	0	0
18	01170500	7,873	2.6	10.2	82.7	4.5	54	.014	4.9
19	01171500	54.0	11.9	8.9	77.0	2.1	213	.056	4.1
20	01173000	96.1	1.2	4.9	84.4	9.6	88	0	0
21	01175500	189	.8	2.6	72.9	23.7	23	0	0
22	420910072200001	207	8.5	16.8	66.6	8.2	194	.053	1.9
23	01183850	9,650	4.8	10.6	79.6	5.0	111	.019	7.9
24	01184490	14.7	8.1	54.8	32.3	4.9	450	0	0
25	415645073025001	44.9	10.0	6.1	77.5	6.4	254	.178	9.4
26	01189000	44.9	42.6	6.6	48.3	2.5	1,206	.200	2.9
27	01191000	26.6	48.2	22.5	25.0	4.2	1,217	0	0
28	01192500	73.6	51.4	11.0	35.0	2.8	1,323	.109	15.6
29	413615072423001	56.9	37.7	24.2	35.6	2.4	1,174	.141	69.4
30	01192883	30.1	7.1	37.7	54.1	1.1	266	.100	.5
31	01192990	10,894	7.3	11.2	76.3	5.2	186	.028	10.1
Housatonic River Basin									
32	422640073144501	70.3	18.4	7.6	66.0	7.9	377	0.100	19.4
33	421140073214501	335	15.6	12.0	66.4	6.0	243	.054	10.7
34	01198000	51.0	4.3	20.9	72.7	2.2	53	0	0
35	01198200	60.6	3.1	12.9	80.6	3.4	49	0	0
36	01200000	200	3.1	41.8	53.2	2.1	97	.005	<.1
37	01201335	1,122	8.3	19.3	67.6	4.8	147	.029	4.1
38	414640073071001	54.9	15.2	10.8	70.2	3.8	524	.182	2.8
Long Island Sound Coastal River Basins									
39	413345072531001	57.3	46.1	10.1	41.2	2.7	1,149	0.384	5.0
40	412600072511501	108	52.7	12.1	33.3	2.0	1,478	.352	14.3
41	01196580	16.6	15.2	38.1	43.1	3.6	538	0	0
42	01208869	8.1	97.3	0	1.4	1.2	3,126	0	0
43	01209710	32.9	50.5	4.2	44.3	1.0	661	.122	2.9

Table 8. Percentage of drainage-basin area in type of bedrock by sampling site and basin where streambed sediment samples were collected in the Connecticut, Housatonic, and Thames River Basins, 1992–94

[Map No.: See figure 1 for locations of station or site and table 1 for description of station or site. mi^2, square mile]

Site No.	Station or site identification No.	Drainage-basin area (mi^2)	Percentage of drainage-basin area in bedrock type			
			Crystalline	Arkosic	Calcareous	Carbonate
		Thames River Basin				
1	01121000	27.1	100	0	0	0
2	01122610	411	100	0	0	0
3	420420072010001	122	100	0	0	0
4	01125100	101	100	0	0	0
5	01126850	644	100	0	0	0
6	01127500	89.1	100	0	0	0
		Connecticut River Basin				
7	01131400	1,515	100	0	0	0
8	01135300	42.9	0	0	100	0
9	01139000	95.1	37	0	63	0
10	01142500	31.7	25	0	75	0
11	01144010	692	52	0	48	0
12	01152540	272	97	0	3	0
13	01153150	5,298	73	0	27	0
14	01160990	420	100	0	0	0
15	01163200	34.2	100	0	0	0
16	01170005	561	86	0	14	0
17	01170103	41.8	51	0	49	0
18	01170500	7,873	77	1	22	0
19	01171500	54.0	22	4	74	0
20	01173000	96.1	100	0	0	0
21	01175500	189	100	0	0	0
22	420910072200001	207	100	0	0	0
23	01183850	9,650	76	5	19	0
24	01184490	14.7	20	80	0	0
25	415645073025001	44.9	100	0	0	0
26	01189000	44.9	86	14	0	0
27	01191000	26.6	0	100	0	0
28	01192500	73.6	58	42	0	0
29	413615072423001	56.9	0	100	0	0
30	01192883	30.1	18	82	0	0
31	01192990	10,894	73	10	17	0
		Housatonic River Basin				
32	422640073144501	70.3	83	0	0	17
33	421140073214501	335	63	0	0	37
34	01198000	51.0	67	0	0	33
35	01198200	60.6	60	0	0	40
36	01200000	200	59	0	0	41
37	01201335	1,122	66	0	0	34
38	414640073071001	54.9	100	0	0	0
		Long Island Sound Coastal River Basins				
39	413345072531001	57.3	30	70	0	0
40	412600072511501	108	16	84	0	0
41	01196580	16.6	0	100	0	0
42	01208869	8.1	100	0	0	0
43	01209710	32.9	91	0	0	9

Table 9. Number of National Pollution Discharge Elimination System (NPDES) dischargers by class for sampling sites and basin where streambed sediment samples were collected in the Connecticut, Housatonic, and Thames River Basins, 1992–94

[Map No.: See figure 1 for locations of station or site and table 1 for description of station or site. Standard Industrial Classification code by class of discharge is shown in parentheses]

Site No.	Station or site identification No.	Number of dischargers by class									
		Waste-water treat-ment (1)	Tex-tiles (2)	Paper and paper-board (3)	Wood and paper (4)	Chem-icals (5)	Metals (6)	Heavy indus-try (7)	Light indus-try (8)	Util-ities (9)	Total
Thames River Basin											
1	01121000	0	0	0	0	0	0	0	0	0	0
2	01122610	2	1	0	0	2	1	0	0	1	7
3	420420072010001	1	1	0	0	0	0	2	1	0	5
4	01125100	2	0	0	0	1	0	1	0	0	4
5	01126850	14	2	3	3	7	1	11	2	1	44
6	01127500	0	0	0	0	0	0	0	0	0	0
Connecticut River Basin											
7	01131400	6	0	2	0	0	0	0	0	0	8
8	01135300	0	0	0	0	0	0	0	0	0	0
9	01139000	0	0	0	0	0	0	0	0	0	0
10	01142500	0	0	0	0	0	0	0	0	0	0
11	01144010	2	0	0	0	0	0	0	0	0	2
12	01152540	4	1	2	1	0	0	3	0	0	11
13	01153150	36	1	5	2	1	0	6	1	0	52
14	01160990	5	3	1	1	1	0	1	0	0	12
15	01163200	1	0	0	2	0	0	1	0	0	4
16	01170005	1	1	0	0	0	0	0	0	1	3
17	01170103	0	0	0	0	0	0	0	0	0	0
18	01170500	58	6	17	6	2	0	14	2	3	108
19	01171500	0	0	0	0	2	1	0	0	0	3
20	01173000	0	0	0	0	0	0	0	0	0	0
21	01175500	0	0	0	0	0	0	0	0	0	0
22	420910072200001	3	1	0	0	1	2	3	1	0	11
23	01183850	80	11	26	11	12	4	25	5	9	183
24	01184490	0	0	0	0	0	0	0	0	0	0
25	415645073025001	2	0	0	0	0	1	5	0	0	8
26	01189000	0	0	0	0	0	2	6	0	1	9
27	01191000	0	0	0	0	0	0	0	0	0	0
28	01192500	2	1	0	0	0	0	3	0	2	8
29	413615072423001	2	0	0	0	1	1	4	0	0	8
30	01192883	0	0	0	1	0	0	2	0	0	3
31	01192990	111	13	28	13	19	14	81	9	19	307
Housatonic River Basin											
32	422640073144501	0	0	6	0	0	0	0	1	0	7
33	421140073214501	6	0	10	1	0	0	0	1	0	18
34	01198000	0	0	0	0	0	0	0	0	0	0
35	01198200	0	0	0	0	0	0	0	0	0	0
36	01200000	1	0	0	0	0	0	0	0	0	1
37	01201335	14	0	10	1	1	1	3	2	1	33
38	414640073071001	1	0	0	1	0	0	5	3	0	10
Long Island Sound Coastal River Basins											
39	413345072531001	0	0	0	0	2	5	12	3	0	22
40	412600072511501	1	1	0	0	2	10	15	8	1	38
41	01196580	0	0	0	0	0	0	0	0	0	0
42	01208869	0	0	0	0	0	0	0	0	0	0
43	01209710	0	0	0	0	0	1	0	2	1	4

Table 10. Permitted volumes of National Pollution Discharge Elimination System (NPDES) discharge by class for sampling site and basin where streambed sediment samples were collected in the Connecticut, Housatonic, and Thames River Basins, 1992–94

[Site No.: See figure 1 for locations of station or site and table 1 for description of station or site. Standard Industrial Classification code by class of discharge is shown in parentheses]

Site No.	Station or site identification No.	Volume of discharge by class in thousands of gallons per day									
		Wastewater treatment (1)	Textiles (2)	Paper and paperboard (3)	Wood and paper (4)	Chemicals (5)	Metals (6)	Heavy industry (7)	Light industry (8)	Utilities (9)	Total
					Thames River Basin						
1	01121000	0	0	0	0	0	0	0	0	0	0
2	01122610	750	20	0	0	126	75	0	0	2	973
3	420420072010001	31	26	0	0	0	0	1,641	138	0	1,836
4	01125100	336	0	0	0	24	0	3	0	0	363
5	01126850	1,525	31	208	8	230	3	2,278	150	30	4,463
6	01127500	0	0	0	0	0	0	0	0	0	0
					Connecticut River Basin						
7	01131400	242	0	1,200	0	0	0	0	0	0	1,442
8	01135300	0	0	0	0	0	0	0	0	0	0
9	01139000	0	0	0	0	0	0	0	0	0	0
10	01142500	0	0	0	0	0	0	0	0	0	0
11	01144010	29	0	0	0	0	0	0	0	0	29
12	01152540	815	48	391	2	0	0	19	0	0	1,275
13	01153150	2,442	48	1,704	8	70	0	41	5	0	4,318
14	01160990	598	89	98	28	40	0	9	0	0	862
15	01163200	380	0	0	224	0	0	4	0	0	608
16	01170005	6	110	0	0	0	0	0	0	21,200	21,316
17	01170103	0	0	0	0	0	0	0	0	0	0
18	01170500	5,349	249	2,471	289	110	0	9,032	30	21,286	38,816
19	01171500	0	0	0	0	210	10	0	0	0	220
20	01173000	0	0	0	0	0	0	0	0	0	0
21	01175500	0	0	0	0	0	0	0	0	0	0
22	420910072200001	223	3	0	0	16	23	124	1	0	390
23	01183850	13,088	333	3,923	513	918	59	9,234	258	48,349	76,675
24	01184490	0	0	0	0	0	0	0	0	0	0
25	415645073025001	360	0	0	0	0	6	57	0	0	423
26	01189000	0	0	0	0	0	58	57	0	15	130
27	01191000	0	0	0	0	0	0	0	0	0	0
28	01192500	1,020	90	0	0	0	0	7	0	32	1,149
29	413615072423001	3,750	0	0	0	65	15	119	0	0	3,949
30	01192883	0	0	0	2	0	0	13	0	0	15
31	01192990	30,950	452	4,445	630	1,105	234	21,526	494	49,829	109,665
					Housatonic River Basin						
32	422640073144501	0	0	789	0	0	0	0	577	0	1,366
33	421140073214501	1,265	0	1,738	10	0	0	0	577	0	3,590
34	01198000	0	0	0	0	0	0	0	0	0	0
35	01198200	0	0	0	0	0	0	0	0	0	0
36	01200000	7	0	0	0	0	0	0	0	0	7
37	01201335	1,974	0	1,738	10	16	267	51	591	9	4,656
38	414640073071001	14	0	0	6	0	0	83	48	0	151
					Long Island Sound Coastal River Basins						
39	413345072531001	0	0	0	0	18	62	140	65	0	285
40	412600072511501	400	29	0	0	18	374	162	563	3	1,549
41	01196580	0	0	0	0	0	0	0	0	0	0
42	01208869	0	0	0	0	0	0	0	0	0	0
43	01209710	0	0	0	0	0	60	0	18	18	96