

WATER QUALITY OF THE TIDAL POTOMAC RIVER AND ESTUARY HYDROLOGIC DATA REPORT 1981 WATER YEAR

Stephen F. Blanchard and Richard H. Coupe Jr.

with a section on

CHLOROPHYLL-A: COLLECTION AND ANALYSIS

Joan C. Woodward



U.S. GEOLOGICAL SURVEY
Open-File Report 82—575

1982

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information write to:

Chief Hydrologist
430 National Center
U.S. Geological Survey, WRD
Reston, Virginia 22092

Contents

	Page
Conversion tables.	1
Abstract	1
Introduction	2
Acknowledgments.	7
Methods of sample collection	8
Sampling at major stations	8
Sampling at intervening stations	9
Longitudinal sampling.	9
Sampling equipment	9
In situ measurements	10
Method of sample analysis.	10
Filtration of samples.	10
Sample analyses.	10
Chlorophyll-a: collection and analysis.	13
Introduction	13
Field method	13
Laboratory procedures.	15
Precision.	16
Comparison of methods.	17
Aid for using the data	19
References	21

ILLUSTRATIONS

Figure 1 - The Tidal Potomac River and Estuary	3a
Figure 2 - The tidal river zone.	3b
Figure 3 - The transition zone	3c
Figure 4 - The estuarine zone.	3d
Figure 5 - Chlorophyll-a filtering apparatus	14

TABLES

Table 1 - Methods of sample preservation	12
Table 2 - Precision of the Potomac Estuary Study chlorophyll-a method from field collection through laboratory analysis	16
Table 3 - Comparison of the Potomac Estuary Study and U.S. Geological Survey method of chlorophyll-a analysis . .	18

APPENDIXES

	Page
Appendix A - Data tables	23
A-1 Nutrient, sediment, and related data	23
A-2 Chlorophyll-a, pheophytin, dissolved oxygen, pH, specific conductance, temperature and Secchi depth data.	102
A-3 Major cation and anion data	257
A-4 Sediment size data	271
Appendix B - Tide tables	
B-1 High and low water predictions	275
B-2 Predicted tidal currents	281
Appendix C - Solar radiation data.	290

IPS and metric conversions

Multiply	by <u>Length</u>	To obtain
inches (in)	2.54 0.0254	centimeters (cm) meters (m)
feet (ft)	0.3048 30.48	meters (m) centimeters (cm)
miles (mi)	1.6093	kilometers (km)
nautical miles (nt mi)	1.8530	kilometers (km)
<u>Volume</u>		
U.S. gallons (gal)	3.785	liters (l)
cubic feet (ft ³)	0.02832	cubic meters (m ³)
<u>Flow</u>		
cubic feet/second (ft ³ /sec)	0.02832	cubic meters/second (m ³ /sec)
<u>Temperature</u>		
degrees Fahrenheit (F°)	(F° - 32) x .555	degrees Celcius (C°)
degrees Celcius (C°)	• (C° x 1.8) + 32	degrees Fahrenheit (F°)

Nitrogen and phosphorus species conversions

To convert mg/l of:	To mg/l of:	Multiply by
NH ₄	N	0.7765
NO ₃	N	0.2258
NO ₂	N	0.3045
N	NH ₄	1.289
N	NO ₃	4.429
N	NO ₂	3.284
PO ₄	P	0.3872
P	PO ₄	2.583

Factors for conversions to equivalent-weight units

Element and species Concentration in mg/l	To convert to milliequivalents/liter multiply by	To convert to millimoles/liter multiply by	To convert to microgram-atoms/liter multiply by
Alkalinity	0.19988	0.01998	19.98
Ammonium (NH_4^+)	.05544	.05544	55.44
Bicarbonate (HCO_3^-)	.01639	.01639	16.39
Calcium (Ca^{+2})	.04990	.02495	24.95
Chloride (Cl^-)	.02821	.02821	28.21
Fluoride (F^-)	.05264	.05264	52.64
Magnesium (Mg^{+2})	.08226	.04113	41.13
Nitrate (NO_3^-)	.01613	.01613	16.13
Nitrite (NO_2^-)	.02174	.02174	21.74
Nitrogen (N^{-3})	.07139	.07139	71.39
Phosphate (PO_4^{-3})	.03159	.01053	10.53
Phosphorus (P)	.03229	.03229	32.29
Potassium (K)	.02557	.02557	25.57
Silica (SiO_2)		.01644	16.44
Sodium (Na^{+2})	.04350	.04350	43.50
Sulfate (SO_4^{-2})	.02082	.01041	10.41

Equations for converting concentrations in milligrams per liter (mg/l) to milliequivalents per liter and millimoles per liter are presented by Hem (1970). An equation for converting milligrams per liter to microgram-atoms per liter ($\mu\text{g-at/l}$) is presented below.

concentrations in mg/l $\times 1000 \div$ formula weight = concentrations in $\mu\text{g-at/l}$

WATER QUALITY OF THE TIDAL POTOMAC RIVER AND ESTUARY
Hydrologic Data Report, 1981 Water Year

by

Stephen F. Blanchard and Richard H. Coupe, Jr.

ABSTRACT

This report contains data on the physical and chemical properties measured in the Tidal Potomac River and Estuary during the 1981 water year. Data were collected at least weekly at five stations and periodically at 15 stations and at two other stations near the mouth of the Potomac River in Chesapeake Bay. Each of the five stations represent a cross section at which the transport of selected dissolved and suspended materials can be computed. The remaining 17 stations are locations at which data were collected for special studies of selected phenomena, such as salt water migration and dissolved oxygen dynamics. Samples were routinely analyzed for chlorophyll-a, nitrogen, pheophytin, phosphorus, silica and suspended sediment. Additional samples were analyzed for adenosine triphosphate, algal growth potential, alkalinity, calcium, chloride, dissolved-solids residue, fluoride, iron, manganese, magnesium, nitrifying bacteria, organic carbon, potassium, seston, sodium, and sulfate. In addition, in situ measurements of dissolved oxygen, specific conductance, pH, temperature, solar radiation, and Secchi disk transparency were made.

INTRODUCTION

The Survey (U.S. Geological Survey) is conducting an interdisciplinary study of the Tidal Potomac River and Estuary. This study, for the first time, blends Survey research with RQA (river-quality assessment) in the study of an estuarine environment. The overall goal is to understand the major aspects of hydrodynamic, chemical, and biological processes and their interaction in a tidal river-estuarine system.

The first field efforts of the PES (Potomac Estuary Study) were in August 1977 (Smith and Herndon, 1979), and in January, April, and August 1978 (Smith and Herndon, 1980a, 1980b, 1980c). One of the results of that fieldwork and the research of Glenn (1978) was the selection of five major stations at which the transport of dissolved and suspended materials would be examined in detail. This report makes available data collected during the 1981 water year at those five stations, at 15 intervening stations, and at two stations near the mouth of the Potomac River in the Chesapeake Bay. This is the third in a series of three hydrologic data reports: one for each of three water years - 1979 (Blanchard and Hahl, 1981), 1980 (Blanchard, Coupe and Woodward, 1982) and 1981.

The Tidal Potomac River and Estuary can be divided into three distinctly different hydrodynamic zones (fig. 1). The tidal river zone contains fresh water and is strongly influenced by river flow but also experiences tides and their associated cyclical reversals of flow. The transition zone contains fresh and saline waters and is influenced by riverine and tidal flows. The estuarine zone contains only saline water and is strongly influenced by tidal flow. The sampling stations (figs. 2, 3, and 4) are located to document movement of selected dissolved and suspended materials through each major zone and to provide data for several research studies and the RQA.

Sampling stations are listed below and their respective hydrodynamic zone indicated. River distances, in kilometers, are measured from the center of a line drawn between Smith Point and Point Lookout at the mouth of the river (fig. 4).

Major stations

Station number	Station name	River distance (kilometer)	Date activated	Zone
01646580	Potomac River at Chain Bridge at Washington, D.C.	187.2	December, 1977	Riverine - tidal river boundary
01652590	Potomac River at Alexandria, Va.	168.0	October, 1978	Tidal river
01658710	Potomac River at Quantico, Va.	125.6	October, 1978	Tidal river - transition boundary

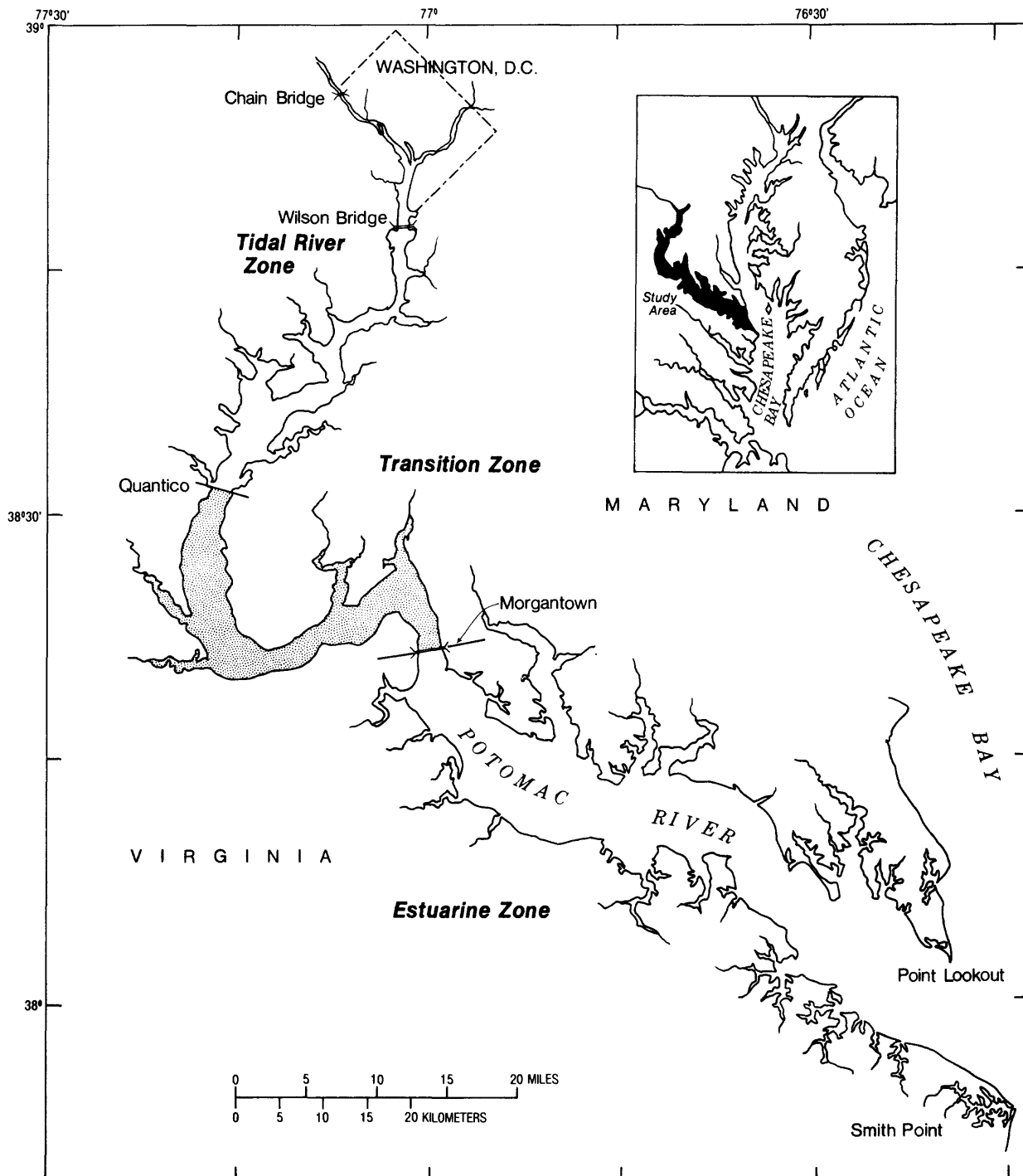


Figure 1.-- Tidal Potomac River and Estuary

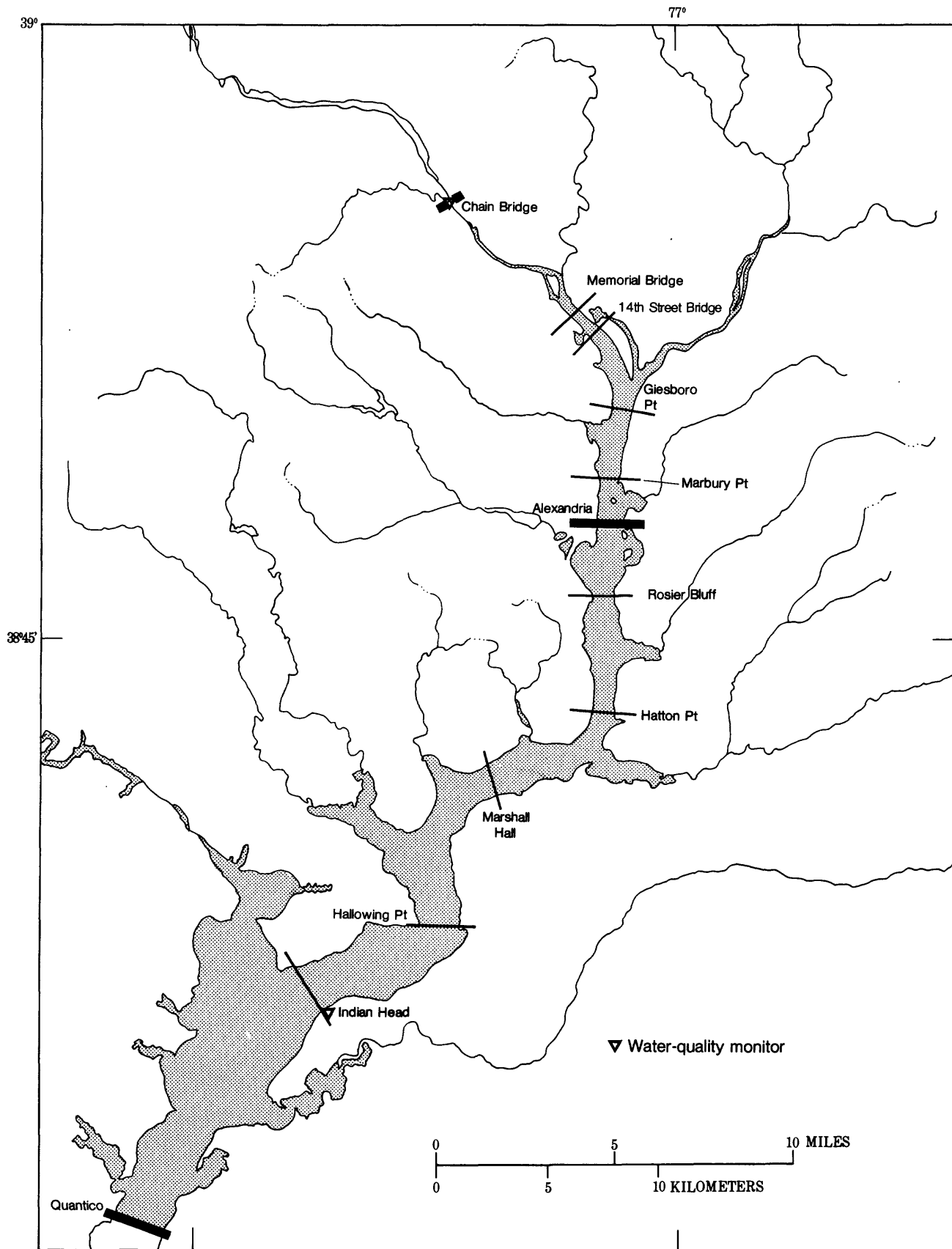


Figure 2.-- Tidal river zone showing major sampling stations (wide lines) and intervening sampling stations (narrow lines)

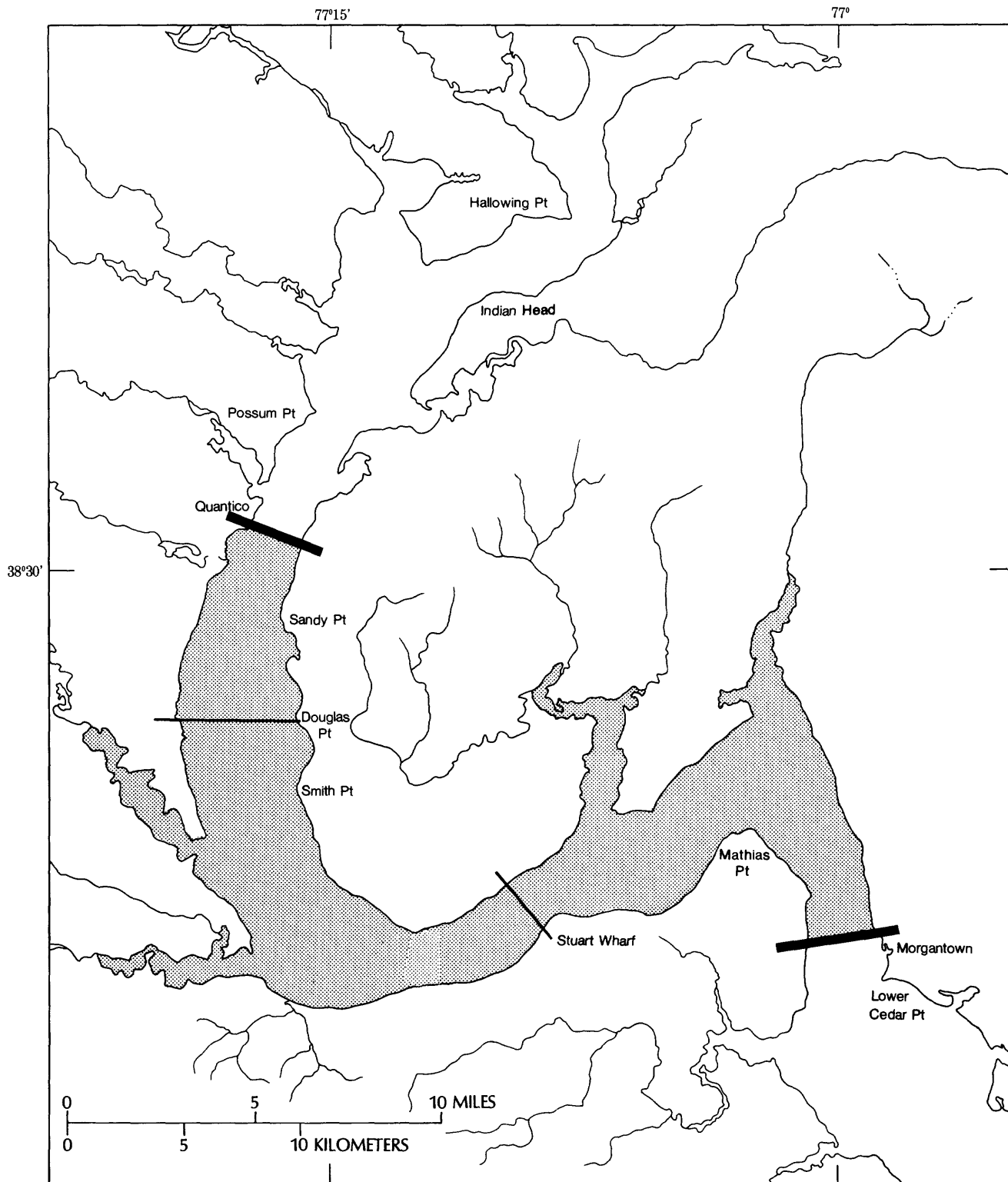


Figure 3.-- Transition zone showing major sampling stations (wide lines) and intervening sampling stations (narrow lines)

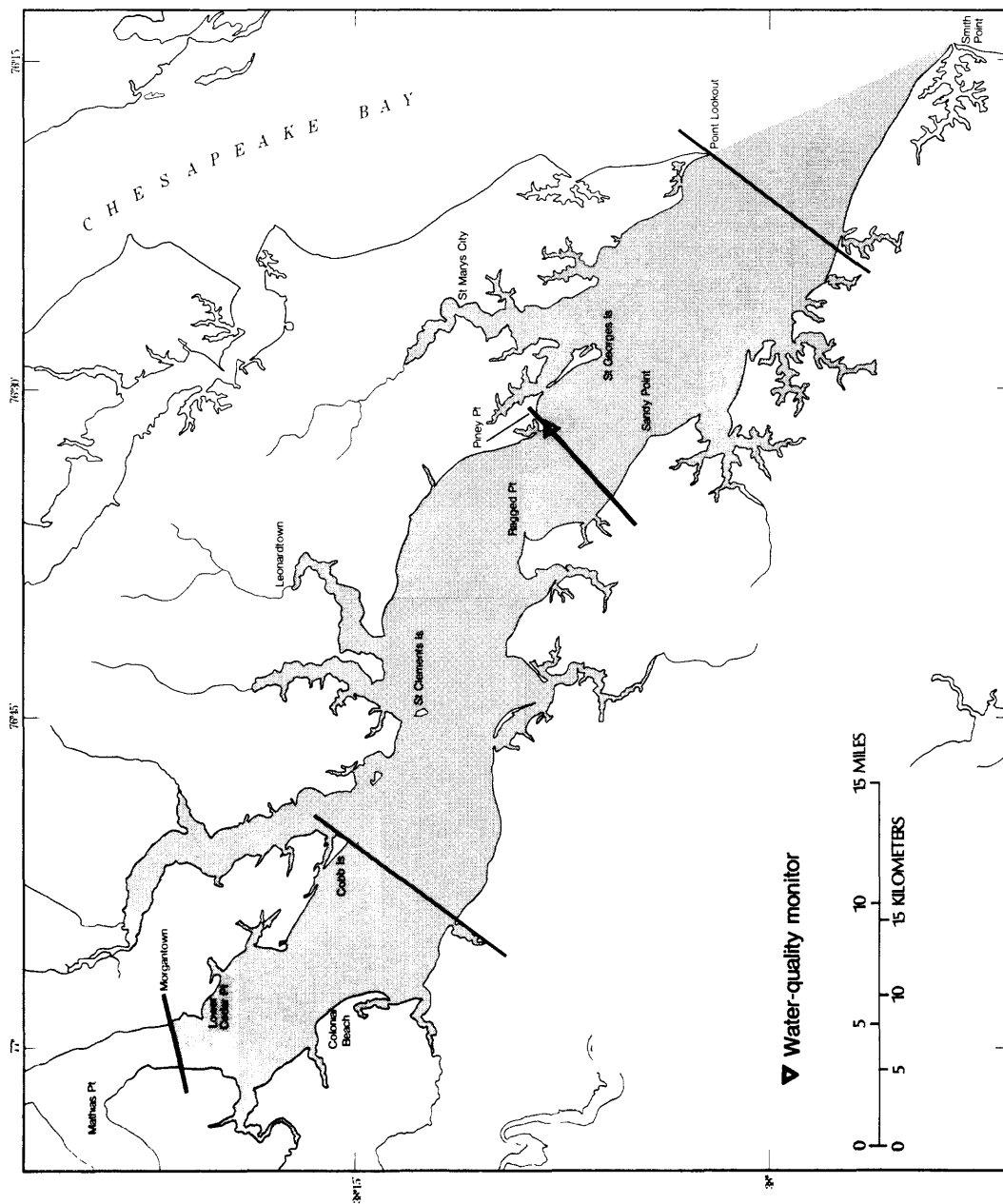


Figure 4.-- Estuarine zone showing major sampling stations (wide lines) and intervening sampling stations (narrow lines)

Station number	Station name	River distance (kilometer)	Date activated	Zone
01660800	Potomac River near Morgantown, Md.	80.4	February, 1979	Transition - estuarine boundary
01661475	Potomac River at Piney Point, Md.	29.8	July, 1979	Estuarine

Intervening stations

Station number	Station name	River distance (kilometer)	Zone
385315077031800	Potomac River at Memorial Bridge, Washington, D.C.	179.5	Tidal river
385223077022400	Potomac River at 14th Street Bridge, Washington, D.C.	177.3	Tidal river
385039077012600	Potomac River at Giesboro Point, Washington, D.C.	173.7	Tidal river
384852077020500	Potomac River at Marbury Point, Washington, D.C.	170.4	Tidal river
384852077014001	Blue Plains Sewage Treatment Plant, Outfall 001, Washington, D.C.		
384852077014002	Blue Plains Sewage Treatment Plant, Outfall 002, Washington, D.C.		
384605077015800	Potomac River at Rosier Bluff, Md.	165.6	Tidal river
384318077020300	Potomac River at Hatton Point, Md.	160.0	Tidal river
384136077054600	Potomac River at Marshall Hall, Md.	151.0	Tidal river

Station number	Station name	River distance (kilometer)	Zone
383818077072800	Potomac River at Hallowing Point, Va.	144.0	Tidal river
01655480	Potomac River at Indian Head, Md.	138.9	Tidal river
382640077159900	Potomac River at Douglas Point, Md.	116.7	Transition
382233077102000	Potomac River at Stuart Wharf, Va.	98.9	Transition
381516076503000	Potomac River at Cobb Island, Md.	60.0	Estuarine
380212076195000	Potomac River at Pt. Lookout, Md.	6.5	Potomac Estuary- Chesapeake Bay boundary

Chesapeake Bay stations

Station number	Station name	Latitude and Longitude	
380200076124100	Chesapeake Bay near Potomac River off Pt. Lookout, Md. Trench	38°02'00"	76°12'41"
375248076094200	Chesapeake Bay near Potomac River off Smith Pt., Va.	37°52'48"	76°09'42"

Data on dissolved and suspended material in water passing each sampling station during the 1981 water year are listed in appendix A. These data are listed in downstream order, starting with the Potomac River at Chain Bridge.

Samples were collected at least once a week at each of the five major stations. Samples were collected for predicted tidal conditions such as during periods of maximum flood velocity, maximum ebb velocity, high slack water, or low slack water. During periods of greatly increased river discharge, the tidal sequence of sampling was discontinued in favor of sampling several times a day. Predicted tidal currents and tidal stages for specific sampling times may be obtained from the National Ocean Survey's Tidal Current Tables (1979a, 1980a) and Tide Tables (1979b, 1980b). Relevant parts of these tables are reproduced in appendix B. The predicted tides do not always agree with actual conditions. Tidal stages were measured at Survey installations on the Potomac River at the following stations:

Station number	Station name	Date activated
01647600	Potomac River at Wisconsin Ave., Washington, D.C.	April, 1935
01652590	Potomac River at Alexandria, Va.	February, 1979
01655480	Potomac River at Indian Head, Md.	January, 1979
01658710	Potomac River at Quantico, Va.	April, 1979
01660800	Potomac River at Morgantown, Md.	January, 1979
01661475	Potomac River at Piney Point, Md.	August, 1979
01661590	Potomac River at Pt. Lookout, Md.	January, 1979

Data can be obtained for these stations through the PES Hydrodynamics Group (Oral commun., R. W. Schaffranek, U.S. Geol. Survey, Reston, VA., July, 1981).

In addition to the samples collected on a regular basis, a few sets of samples were collected at the major stations to compare point, depth-integrated, and composite samples. At intervening stations, the nature and frequency of sampling was determined by the demands of various research efforts.

In addition to the sampling program outlined above, three water-quality monitors and two pyranometers were in operation. The water-quality monitors were operated at Potomac River at Chain Bridge at Washington, D.C., Potomac River at Indian Head, Md., and Potomac River at Piney Point, Md. These monitors provided continuous records of dissolved oxygen, specific conductance, pH, and temperature at one point in the cross section. Data from these monitors are reported in the annual report series Water Resources Data for Maryland and Delaware (U.S. Geological Survey, 1982). The pyranometers were operated at Potomac River at Alexandria, Va., and Potomac River at Indian Head, Md. Eppley^{1/} pyranometers (Model PSP) were mounted on roof tops free from surrounding obstacles. The millivolt signal from each pyranometer was continuously recorded on Instrument Corporation of America strip chart recorders.

The daily insolation values were obtained by integrating the area under the trace of the millivolt output signal from the pyranometer. Data from these pyranometers are reported in appendix C.

^{1/} The mention of brand names in this report is for identification purposes and does not constitute endorsement by the U.S. Geological Survey.

ACKNOWLEDGMENTS

We would like to thank David Shultz for providing all the solar radiation, adenosine triphosphate, and nitrifying bacteria data in this report.

In addition we are grateful to the many people who live and work along the Tidal Potomac River and Estuary who have cooperated with us in making our fieldwork successful.

METHODS OF SAMPLE COLLECTION

To be truly representative, a water sample for analysis of both dissolved and suspended material must represent all the water and material passing through a cross section at the time of sampling. Such a sample is obtained by considering the distribution of the suspended material and dissolved constituents at the sampling site and by designing the sampling scheme to sample that distribution representatively at all depths and from bank to bank. Tidal rivers and estuaries present special problems in terms of obtaining representative samples. Tidally driven flow reversals create continually changing velocity profiles and may create stratification and opposing velocities, this compounds the problems of sample collection and complicates the computation of transported dissolved and suspended material. Superimposed on the semidiurnal tide of the Potomac River are changes in riverine flow and in oceanic tides. The result of these changes is that longitudinal mixing is not complete. Thus, sampling needs to be both rapid, from bank to bank and top to bottom, and repetitive to integrate the effects of the various pulses. To satisfy these requirements and to obtain spatially representative samples, two approaches were taken. (1) At cross sections where one vertical was determined to be representative of the entire cross section, that vertical was used for sample collection at that site. (2) At cross sections where one vertical was not representative, the sample was composited from two or more verticals.

Sampling at major stations.- Each zone of the Tidal Potomac River and Estuary presents different conditions that must be considered if a representative sample is to be obtained. The point of fresh water inflow for the Tidal Potomac River and Estuary is at Chain Bridge. The main channel at this cross section is a narrow canyon 49 m (meters) wide; this constriction insures thorough mixing. During flooding, samplers cannot be submerged more than 3 m because water velocities are about 4.5 m/s (meters/second). Therefore, samples were collected from the intake line of the water-quality monitor. The intake was 0.7 m below the low water stage and about 2.5 m from the right bank. When the monitor was not operating a mid-channel surface sample was obtained.

The Potomac River at Alexandria has two channels, and each is well mixed. However, the effluent from the Blue Plains Sewage Treatment Plant does not disperse to each channel equally. Therefore, separate depth-integrated samples were taken from each channel.

At Quantico, the boundary between tidal river and transition zones, there is only one channel; samples that represent the entire cross section were collected from one vertical in this channel. For the periods when the dissolved-solids concentration was less than 2.0 0/00 (parts per thousand) and no stratification existed, depth-integrated samples were collected; for periods when the dissolved-solids concentration was greater than 2.0 0/00, separate top and bottom samples were obtained.

In the lower end of the transition zone and in the estuarine zone of the tidal Potomac, specific conductance gradients exist in the water column. To obtain representative samples here, separate top and bottom samples were collected. For the Potomac River at Morgantown, Md., samples were collected as point samples taken from the water column in the main channel. In the estuarine zone of the tidal Potomac, at Piney Point, top and bottom

point samples were collected from specific sampling locations in the cross section.

Sampling at intervening stations.-Samples obtained at the intervening stations were collected in the same manner as those obtained at the nearest major station.

Longitudinal sampling.- In addition to the other sampling, each month a 2- to 3-day longitudinal river sampling cruise was made between Potomac River at Memorial Bridge, Washington, D.C. and Chesapeake Bay. Samples were collected at all of the five major stations, at the two Chesapeake Bay stations and at most of the intervening stations. The dates of the longitudinal sampling cruises are listed below.

October 21-22, 1980	April 15-16, 1981
November 17-18, 1980	May 19-20, 1981
December 15-16, 1980	June 30-July 1, 1981
January 22, 1981	July 27-28, 1981
February 4-5, 1981	August 17-19, 1981
March 3-4, 1981	September 21-22, 1981

Sampling equipment.-Equipment for estuarine water-quality sampling must be suited for unsteady and non-homogeneous flow conditions. The selection of samplers for a particular station was based on the flow characteristics and the dissolved-solids concentration at that station and the type of boat used for sampling. The following paragraphs describe the samplers used.

The Niskin samplers are open cylinders having spring loaded stoppers at each end. These samplers are lowered while open to the sampling depth. The stoppers are triggered shut; and the captured water is then brought into the boat and distributed into the sample containers. These are point samplers, designed for use in still waters and which may be used in flowing water if the sampling vessel is drifting with the current. In its usual vertical configuration, the length of the cylinder causes the sample to be representative of a 0.8-m depth interval. These samplers can also be oriented to sample horizontally, thus restricting the sampled depth interval to the diameter of the cylinder (0.08 m).

An open bottle with a vent tube was used to collect depth-integrated samples. This sampler consists of a weighted, capped 4-l bottle. The cap has an 8-mm diameter hole in it and the bottle has a hole in its shoulder. The hole in the shoulder is fitted with a 4-mm-diameter tube that extends about 15-cm above the bottle cap. This arrangement allows air to escape from the tube and water to flow smoothly into the bottle through the hole in the cap. This sampler may be used as long as water velocities do not exceed 0.3 m/s and may be used in faster flowing water if the sampling vessel is drifting with the current.

The pumping sampler consists of an intake house, a shipboard pump or submersible pump, and a discharge hose. The shipboard pump was a Teel compact marine-utility pump. The intake hose used with this pump was a 1.9-cm diameter garden hose. The submersible pump was a Gould 1/2 horsepower, 10-cm diameter pump. The intake hose used with this pump was a 2.5-cm-diameter garden hose. The pumping rates for the shipboard pump and the submersible pump were 17.7 liters per minute and 37.9 liters per minute, respectively. The discharge from the pump is routed first into a manifold, which contains sensors that measure dissolved oxygen, specific conductance, pH and temperature, and then through a tube from which samples are collected. The pumping sampler is a point sampler that provides the opportunity to evaluate changes in water quality with depth instantaneously to determine the need to obtain additional samples. This sampler can be used to sample flowing or still waters. Care must be taken to insure that the sampling hose is shaded from the sun and that hose connections are tight to prevent alteration of the sample as it is being collected.

In situ measurements.- A Secchi disk was used to obtain water transparency measurements, and a Hydrolab Digital 4041 water-quality-measurement system was used to measure dissolved oxygen, specific conductance, pH, temperature. The water-quality-measurement system was calibrated before and after use and was checked periodically against laboratory standards. The Hydrolab-system measurements were made at points at which water samples were collected and at several other intermediate points in the water column. In situ measurements were also made at sites along the major station cross sections other than those from which water-quality samples were collected. A summary of the types of samplers used is as follows:

Tidal river zone:	Open bottle with vent tube
Transition zone: (including Potomac River at Quantico)	For dissolved solids < 2.0 (0/00), open bottle with vent tube For dissolved solids > 2.0 (0/00), Niskin bottle
Estuarine zone:	Niskin bottle

METHOD OF SAMPLE ANALYSIS

Filtration of samples.- Dissolved material is defined as substances in a water sample that will pass through a 0.45 micron (μ) filter. All samples analyzed for dissolved constituents were collected after 500 ml of sample were passed through a 142mm diameter, 0.45 Millipore type HA filter. The sample was passed through the filter using a peristaltic pump. Dissolved organic carbon samples were filtered through a glass fiber filter. The glass fiber filters for organic carbon were baked before use at 450°C for 4 hours to reduce blanks.

Sample analyses.- Concentrations of algal-growth potential, alkalinity, calcium, chloride, dissolved-solids residue, fluoride, iron, manganese, magnesium, nitrogen, organic carbon, phosphorus, potassium, seston, silica,

sodium, and sulfate reported herein were determined at the Atlanta Central Water Quality Laboratory of the U.S. Geological Survey, by methods described by Skougstad and others (1979) and American Public Health Association and others (1975). Adenosine triphosphate (ATP) samples were extracted according to the procedures described by Stephens and Shultz (1981) and analyzed according to the procedures outlined by Shultz and Stephens (1980). Numbers of Nitrosomonas sp. and Nitrobacter sp. were based on the most probable number (MPN) method by procedures described by Greeson and others (1977). Sediment concentrations were determined at the Harrisburg, Pennsylvania Sediment Laboratory of the U.S. Geological Survey by methods described by Guy (1962).

A summary of sample preservation procedures is presented in table 1. The samples shipped to the Atlanta Central Laboratory generally arrived there within 48 hours from the time of sample collection.

Table 1.- Methods of sample preservation

<u>Constituent</u>	<u>Container type</u>	<u>Preservation</u>
Nitrogen species	Plastic bottle	Chilled to 4°C and kept dark
Phosphorus species		
Silica		
Sulfate		
Fluoride		
Chloride		
Alkalinity		
Solids residue		
Algal growth potential		
Seston ash weight	Plastic bottle	Mercuric chloride
Seston total		
Sodium	Plastic bottle	Acidified with HNO ₃ and chilled to 4°C
Iron		
Calcium		
Magnesium		
Manganese		
Potassium		
Total organic carbon	Glass bottle	Chilled to 4°C and kept dark
Dissolved organic carbon		
Suspended sediment	Glass bottle	None
Chlorophyll-a	Glass vial	Submersed in 90% acetone, chilled, and kept dark
Pheophytin		
Adenosine triphosphate	Plastic bag	Chilled to 4°C and kept dark
Nitrifying bacteria		

CHLOROPHYLL-A: COLLECTION AND ANALYSIS

by
Joan C. Woodward

INTRODUCTION

More than 15,000 samples were collected and analyzed for chlorophyll-a as part of the Potomac Estuary Study from April 25, 1979, through September 22, 1981. The large volume of samples and the need for analytical results within a few days of sample collection dictated the use of simple and streamlined methods of collection and analysis. The methods described are based on those of Strickland and Parsons (1972), but modified to minimize the chance for errors in field procedures and the time required for analysis. Analytical results, in micrograms per liter ($\mu\text{g/l}$), are reported as uncorrected chlorophyll-a, chlorophyll-a corrected for pheophytin (corrected chlorophyll-a), and pheophytin in appendix A of this report, in Blanchard and Hahl (1981), and in Blanchard et al (1982).

FIELD METHODS

Processing chlorophyll samples in the field involved three steps: water collection, filtration, and initiation of the extraction process. Samples were collected with a Niskin bottle, with an open bottle with vent tube or with a pumping sampler. Immediately after collection, a measured amount of water was drawn through a Whatman GF/C 4.25cm diameter glass fiber filter by a hand vacuum pump. Vacuum pressure was kept at less than 12.5 cm mercury and was maintained until the filter paper, although damp, had no excess water. The filter paper was put immediately into a vial containing 90 percent acetone, capped tightly, shaken, and stored on ice in a chest-type cooler. From the time the water was taken from the river until the processed sample was stored on ice was usually less than 1 minute. Care was taken to shade the entire operation from the sun.

Field equipment was light weight, hand operated, and unbreakable. The filter funnel was plastic with magnetic rings that clamped shut. A plastic vacuum flask and a small hand-operated pressure-vacuum pump with a gage were used (fig. 5). Graduated cylinders for measuring the water to be filtered were glass (for more accurate readings), but a plastic cylinder was carried as a back-up.

Wide-mouthed glass vials of 20 or 30 ml capacity with Poly-Seal caps were used as sample containers. The vials were wrapped in masking tape to keep out light and to prevent breakage. Before each trip, an automatic dispensing pipet was used to put 15.0 ml of 90 percent spectronic-grade acetone into each prelabeled vial. The accuracy of the pipet was regularly checked and verified.

The amount of acetone in each vial could not be allowed to change because the concentration calculations were based on the 15.0 ml volume; therefore, loss of acetone from sealed vials was examined. For 2 weeks, 20 vials were carried in vehicles and boats at summer temperatures but shaded from direct

sunlight. When these vials were returned to the laboratory and the volume measured by a graduated cylinder, there was no measurable loss. Three vials were kept in the laboratory for 22 days at 24°C. They were weighed on day 0 and on day 22, and there was a weight loss of 0.0078 to 0.0096 g, or about 0.01 ml. In spite of these good results, the vials were treated conservatively. They remained refrigerated in the laboratory until taken into the field. If fieldwork involved prolonged exposure at summer temperatures, the vials were kept in a chest-type cooler before as well as after sampling. Once back at the laboratory, the samples were transferred to a refrigerator.

Strickland and Parsons recommend that a magnesium carbonate suspension be added to the sample as it is filtered to prevent it from becoming acid, but Holm-Hansen and Riemann (1978) found this step unnecessary. Based on the latter work and because the time between sample collection and initiation of the extraction process is very short in the PES method, no magnesium carbonate was added to the sample.

Most chlorophyll samples were collected by a pumping sampler. To determine if this system would affect the results, eight samples were collected and processed aboard an anchored boat in the tidal Potomac River at a time when analytical results showed uniform chlorophyll-a concentrations throughout the water column. Four samples were collected by a Niskin bottle and four by a pumping sampler. The arithmetic means (\bar{x}) and ranges of values for each collection method are listed below and indicate that chlorophyll-a and pheophytin are not altered as they passed through the pumping system.

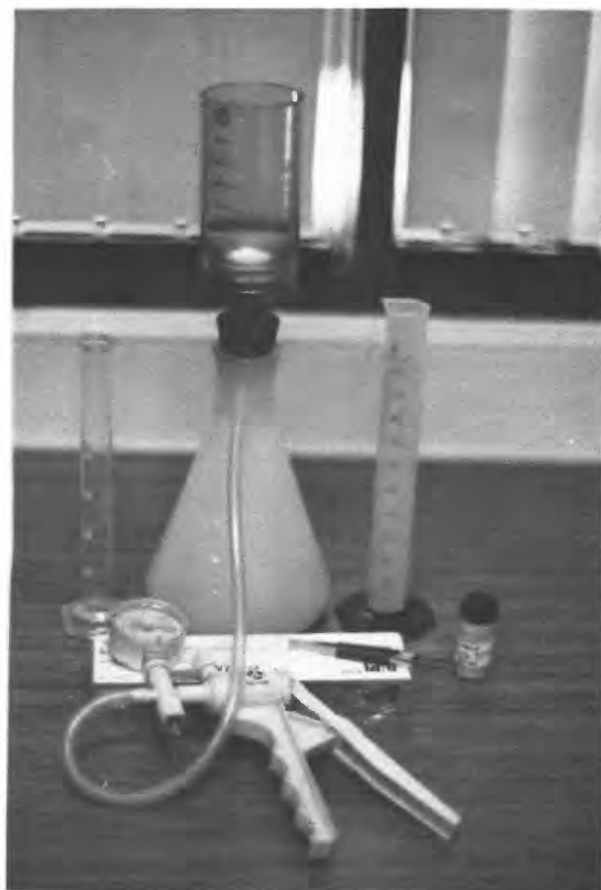


Figure 7. Chlorophyll-a filtering apparatus

		<u>Uncorrected</u> <u>chlorophyll-a</u>	<u>Corrected</u> <u>chlorophyll-a</u>	<u>Pheophytin</u>
		($\mu\text{g/l}$)	($\mu\text{g/l}$)	($\mu\text{g/l}$)
Niskin bottle	$\bar{x} =$	28.9	19.6	13.3
	range =	27.8 - 30.0	19.4 - 20.0	11.9 - 15.4
Pumping sampler	$\bar{x} =$	29.4	20.0	13.3
	range =	29.0 - 29.8	19.4 - 20.6	13.0 - 14.2

An additional test was done by collecting 28 pairs of samples from the estuarine zone by a vertically oriented Niskin bottle centered at 1 m and by a hose with its intake point at 1 m. The data support the results of the previous test. For each sample pair, the Niskin bottle result was subtracted from the pumping sampler result. The arithmetic mean and standard deviation (σ) of the differences are as follows: chlorophyll-a, $x = -0.2$, $\sigma = 5.5$; corrected chlorophyll-a, $x = -0.2$, $\sigma = 5.7$; and pheophytin, $x = -0.1$, $\sigma = 2.7$. These pairs of samples were collected at all seasons and at all times of day and represent corrected chlorophyll-a concentrations ranging from 10 to 130 $\mu\text{g/l}$. The samples were also collected when there were and were not strong chlorophyll-a gradients. These results indicate negligible effects of the hose and pumping system, particularly considering that the Niskin bottle sampled a vertical parcel of water 0.4 m either side of the hose intake point.

LABORATORY PROCEDURES

Chlorophyll extraction by the acetone was allowed to proceed for 20 hours in the field vial. After 20 hours, samples were removed from the refrigerator, placed in order, and covered so that they would not be exposed to light. One vial at a time was removed from under the cover, shaken vigorously, and poured from the field vial into a 30-ml plastic syringe. The syringe had a previously attached filter holder containing a 2.4 cm diameter Whatman GF/C glass fiber filter. The sample volume was read on the graduations on the side of the syringe to verify that there was no major loss of acetone from the sample vial. Although not precise, this check did detect losses of 1 ml or more of acetone. In such an event, the sample was flagged as invalid. The sample was then filtered into a laboratory vial, the label transferred from field to laboratory vial, and the extracted sample replaced under cover until analyzed.

The PES sample preparation differs in two ways from that of Strickland and Parsons' (1972). First, acetone was not added to the samples to bring them up to a standard volume, but rather, the PES method based its calculation on the initial 15.0 ml. Not adding acetone saved time but introduced a dilution error, making all concentrations reported by the PES method 3 to 6 percent low. This is because from 0.5 to 1.0 ml of water was contained in the filter when it was introduced into the field vial, making the total volume slightly higher than 15 ml. Second, the extracted sample was filtered, not centrifuged, before analysis. The filtration technique results in a more uniformly clear extract than centrifugation and is much more rapid. It was found that two people, one preparing the sample for analysis and the other analyzing the sample, can complete 150 to 200 chlorophyll-a analyses per day without loss of precision.

During the analysis, all chlorophyll-a in the sample is converted to pheophytin (chlorophyll degradation product) by acidification. Hydrochloric acid (0.1 N) was added to bring the sample to 3×10^{-3} molarity (M) (Holm-Hansen and Riemann, 1978), a weaker acid solution than that recommended by Strickland and Parsons (1972).

From April through October 1979, samples were analyzed by the spectrophotometric method and equations of Strickland and Parsons (1972). The filtrate was introduced into a spectrophotometer with a 1-cm-path-length cell

and absorbances read for 90 percent acetone and chlorophyll-a at wave lengths of 750 and 665 nanometers (nm), respectively. The sample was then acidified as described above, and, after stabilization, pheophytin and 90 percent acetone were read at the two wave lengths, respectively. Standards were prepared from pure chlorophyll-a extract supplied by Sigma Chemical Company and were used on a daily basis to insure consistency of the spectrophotometer.

From October 1979 through September 1981 a Turner Fluorometer Model 10 replaced the spectrophotometer. Lamp and filter recommendations of the manufacturer (Turner Designs, 1978) for determination of chlorophyll-a were followed. Using standards prepared from chlorophyll-a extract, the fluorometer was calibrated so that chlorophyll-a and pheophytin could be read directly. Calibration was verified on a daily basis. The fluorometric equations of Strickland and Parsons (1972) for chlorophyll-a, corrected chlorophyll-a, and pheophytin were used. Use of the fluorometer expedited field operations because only 30 ml of water was filtered for the fluorometric method, whereas 250 ml of filtrate was required for the spectrophotometric method. No other changes were made to accommodate use of the fluorometer.

To compare spectrophotometer and fluorometer results, fifteen samples, ranging from fresh water to salt water, with corrected chlorophyll-a concentrations ranging from 5 to 45 $\mu\text{g/l}$, were collected and processed normally. In the laboratory, one aliquot of sample was analyzed on the spectrophotometer and a second on the fluorometer. For each pair of samples, the results from the fluorometer were subtracted from those of the spectrophotometer. Means and standard deviations of these differences were as follows: chlorophyll-a, $\bar{x} = -0.1 \mu\text{g/l}$, $\sigma = 1.2$; corrected chlorophyll-a, $\bar{x} = -0.2 \mu\text{g/l}$, $\sigma = 1.8$; pheophytin, $\bar{x} = 0.7 \mu\text{g/l}$, $\sigma = 3.3$. The samples analyzed by the spectrophotometer and those analyzed by the fluorometer are comparable.

PRECISION

Precision of the spectrophotometric and fluorometric methods was examined by taking aliquots from a constantly stirred container of river water and processing each separately but identically. Arithmetic means and standard deviations are shown in table 2. The results indicate acceptable

Table 2.- Precision of the PES chlorophyll-a method from field collection through laboratory analysis

Method	Number of aliquots	Chlorophyll-a uncorrected ($\mu\text{g/l}$)		Chlorophyll-a corrected ($\mu\text{g/l}$)		Pheophytin ($\mu\text{g/l}$)	
		\bar{x}	σ	\bar{x}	σ	\bar{x}	σ
Spectrophotometric	6	29.4	0.9	26.8	0.8	2.0	0.4
	5	28.8	0.4	19.8	0.8	12.8	1.5
	5	17.5	0.2	14.7	0.4	3.2	0.4
Fluorometric	3 ^{a/}	135.4	1.3	123.0	1.3	29.2	0.8
	9	29.2	0.4	21.3	0.3	16.9	0.6
	4	10.4	0.0	6.0	0.2	8.9	0.3

^{a/} These three samples were not aliquots from one container but were collected individually over a 2-minute period.

precision with either instrument. To check analysis precision, the normal sampling routine involved periodic analysis of duplicate samples. Furthermore, vertical and longitudinal chlorophyll-a profiles were examined weekly to see if they were reasonable and if their behavior was consistent with other measurements, such as dissolved oxygen and conductance.

COMPARISON OF METHODS

The U.S. Geological Survey's standard method for chlorophyll-a analysis is that of high pressure liquid chromatography using dimethyl sulfoxide as the extractant (Greenson, 1979). Table 3 is a comparison of the results of the PES method, or modified Strickland and Parsons (1972) method, with those of the USGS's standard method, as analyzed in the Atlanta Central Water Quality Laboratory. The USGS standard method reports only chlorophyll-a and chlorophyll-b; it does not report uncorrected chlorophyll-a or pheophytin concentrations. Therefore, the comparisons shown in table 3 are PES results for chlorophyll-a corrected for pheophytin and USGS standard method results for chlorophyll-a separated from pheophytin; the concentrations should be equivalent.

The comparisons made while the spectrophotometer was in use (table 3) were separate samples, one collected by the Towson District Office (U.S. Geological Survey, 1980) and analyzed by the Atlanta Laboratory, and the other collected and analyzed by PES personnel. The comparisons made while the fluorometer was in use were done by pairs of aliquots taken from a stirred container. One aliquot was processed as per instructions and mailed to the Atlanta Central Water Quality Laboratory on dry ice, and the other was processed and analyzed by the PES method. Table 3 also shows the class or classes of phytoplankton that constituted at least 80 percent of the total population at each sampling location. The four major classes were diatoms (Bacillariophyta), green algae (Chlorophyta), blue-green algae (Cyanophyta), and single-celled, flagellated Cryptophyta. Results from both the USGS standard method and the PES method agree very well and were equally efficient in determining chlorophyll content of the organisms present.

In conclusion, the results of the PES chlorophyll method were reproducible; the precision was good; the hundreds of samples required for some field trips were processed in a few days, which allowed real-time planning input to data collection; the results agreed well with the USGS standard method result; and the corrected chlorophyll-a and pheophytin concentrations were logical and consistent when examined in relationship with other measurements.

Table 3.- Comparison of the PES method and the U.S. Geological Survey standard method of chlorophyll-a analysis

Location	Chlorophyll-a (µg/l)		Dominant class of phytoplankton present ^{a/}	Percent of total
	Standard method	PES method		
<u>Spectrophotometric</u>				
Chain Bridge	14.3 ^{b/}	15.6	Chlorophyta	78
			Bacillariophyta	22
Chain Bridge	48.5 ^{b/}	45.0	Chlorophyta	85
<u>Fluorometric</u>				
14th Street Bridge	7.5	4.5	Bacillariophyta	59
			Chlorophyta	34
Alexandria, Virginia channel	13.3	13.8	Bacillariophyta	38
			Chlorophyta	28
			Cryptophyta	25
Alexandria, Maryland channel, aliquot 1	17.6	26.9	Bacillariophyta	53
aliquot 2	20.5	26.3	Cryptophyta	26
aliquot 3	21.9	26.4		
Indian Head, shallows	35.9	37.8	Cyanophyta	59
			Bacillariophyta	22
Morgantown, surface	4.4	5.9	Cryptophyta	59
			Chlorophyta	26
Morgantown, bottom	3.8	3.0	Cryptophyta	69
			Bacillariophyta	15
Cobb Island	19.8	18.0	Cryptophyta	65
			Bacillariophyta	18
Piney Point	29.9	28.6	Bacillariophyta	83
Point Lookout	19.1	18.7	Bacillariophyta	89

^{a/} Phytoplankton identifications for Chain Bridge were obtained from the U.S. Geol. Survey (1980); the remainder were identified by Wapora, Inc.

^{b/} Chlorophyll-a samples were collected by the Towson, Maryland, District Office and are reported by the U.S. Geol. Survey (1980).

AIDS FOR USING THE DATA

Time.- From October 26, 1980, at 0200 hours through April 26, 1981, at 0200 hours, the times are Eastern Standard Time. For all other periods during the 1981 water year, times are Eastern Daylight Savings Time.

Sampling depth.- The sampling depths were measured by markings on a cable or from a dial on a calibrated reel-cable system. Sampling depths are reported to the nearest 0.1 ft and Secchi disk depth to the nearest inch. Samples that appear in the data tables without depths are depth-integrated samples except those from Chain Bridge, where samples are always from the surface or from the fixed intake line of the water-quality monitor.

Sample location.- All samples will appear in the data tables with a corresponding cross-section location, the distance from left bank looking downstream. This distance locates the specific sampling site along the cross-section line at which the water-quality sample was taken. Listed below are distances from the left bank that correspond to specific sampling sites; composite samples are indicated with a fictitious distance from left bank; i.e., 30,000, 40,000, or 50,000 feet.

<u>Station</u>	<u>Distance from left bank (ft)</u>	<u>Sampling site</u>
Potomac River	1350	Water-quality monitor intake
at Chain Bridge at	1240	Mid-channel surface sample
Washington, D.C.		
Potomac River at	3700	Coast Guard dock
Alexandria, Va.	30,000	Maryland channel composite ^{2/}
	40,000	Virginia channel composite ^{2/}
Potomac River at	6900	Special Services dock at
Quantico, Va.		Quantico Marine Base
Any station	50,000	Composite

Dissolved oxygen.- The dissolved oxygen values in this report are corrected for salinity by tables for oxygen saturation of seawater developed by Green and Carritt (1967).

Missing data.- Missing data in the data tables will appear as a dashed line.

Blue Plains Sewage Treatment Plant.- The data from these stations represent samples taken from the chlorinated effluent of the sewage treatment plant. The effluent is discharged into the river through two outfalls. The first outfall (outfall 001) is primary treated effluent; the second outfall (outfall 002) is secondary treated. All samples are 24-hour composite samples unless they appear with a time of day; these samples are instantaneous grab samples.

^{2/} The Alexandria, Va. cross-section has a channel on the Virginia side of the river separated by a tidal flat from the channel on the Maryland side of the river.

pH.- All of the pH values that appear in this report are about 0.5 unit low due to a defect in the pH electrode measuring system in the field equipment. It is our opinion that, after adding 0.5 to the pH values, the field observations are probably precise within ± 0.2 pH unit.

Parameter codes.- Each column heading in appendix A and appendix C has a number that is the parameter code used in the U.S. Geological Survey National Water Data Storage and Retrieval System (WATSTORE) to reference parameters related to water quality (Hutchison, 1975).

Remarks.- The value for each water-quality parameter may be qualified by a remark. The remark and the corresponding symbol that may be printed in the data tables are listed below.

<u>Symbol</u>	<u>Remark</u>
E	Estimated value
<	Actual value is known to be less than the value shown
>	Actual value is known to be greater than the value shown
M	Presence of material verified but not qualified
N	Presumptive evidence of presence of material
ND	Material specifically analyzed for but not detected

REFERENCES

- American Public Health Association, American Water Works Association, Water Pollution Control Federation, 1975, Standard methods for the examination of water and wastewater: Am. Public Health Assoc., 14th edition, 1193 p.
- Blanchard, S. F., and Hahl, D. C., 1981, Water quality of the Tidal Potomac River and Estuary, Hydrologic data report, 1979 water year: U.S. Geol. Survey Open-file Rept. 81-1074, 149 p.
- Blanchard, S. F., Coupe, R. H., Jr., and Woodward, J. C., 1982, Water quality of the Tidal Potomac River and Estuary, Hydrologic data report, 1980 water year: U.S. Geol. Survey Open-file Report 82-152, 349 p.
- Glenn, J. L., 1978, Temporal and spatial variations in nutrient and sediment concentrations in the Potomac Estuary; U.S. Geol. Survey Open-File Rept. 79-1588, p. 12-13.
- Green, E. J., and Carritt, D. E., 1967, New tables for oxygen saturation of seawater: Journal of Marine Research, 140 p.
- Greeson, P. E. and others, editors, 1977, Methods for collection and analysis of aquatic biological and microbiological samples: U.S. Geol. Survey Techniques of Water-Resources Investigations, Book 5, Chapter 4, 1977, p. 73-77.
- Greeson, P. E. (ed), 1979, A supplement to--Methods for collection and analysis of aquatic biological and microbiological samples (U.S. Geological Survey Techniques of Water-Resources Investigations, Book 5, chapter A4): U.S. Geol. Survey Open-file Rept. 79-1279.
- Guy, H. P., 1962, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Investigations, Book 5, Chapter 1, 58 p.
- Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water: U.S. Geol. Survey Water Supply Paper 1473, p. 81-82.
- Holm-Hansen, O., and Riemann, B., 1978, Chlorophyll-a determination: Improvements in methodology: OIKOS, v. 30, no. 3, p. 438-447.
- Hutchinson, N. E., compiler, 1975, Watstore--National Water Data Storage and Retrieval System of the U.S. Geological Survey -- user's guide: U.S. Geol. Survey Open-file Rept. 75-426, V. 3, Chapt. 4-A, p. 1-105.
- National Ocean Survey, 1979a, Tidal current tables 1980, Atlantic Coast of North America: National Ocean Survey, p. 64-68, 165, 166.
- _____, 1979b, Tide tables 1980, High and low water predictions, East Coast of North and South America: National Ocean Survey, p. 84-86, 223, 224.

- _____, 1980a, Tidal current tables 1981: National Ocean Survey, Atlantic Coast of North America, p. 64-68, 168.
- _____, 1980b, Tide tables 1981, High and low water predictions, East Coast of North and South America, p. 84-86, 219, 220.
- Shultz, D. J., and Stephens, D. W., 1980, Rapid and precise determination of ATP using a modified photometer: U.S. Geol. Survey Open-file Rept. 80-1194, 10 p.
- Skougstad, M. W. and others, editors, 1979, Methods for determination of inorganic substances in water and fluvial sediments: U.S. Geol. Survey Techniques of Water-Resources Investigations, Book 5, Chap. A1, 1979, 626 p.
- Smith, R. E. and Herndon, R. E., 1979, Physical and chemical properties of Potomac River and environs, August-September, 1977: U.S. Geol. Survey, Open-file Rept. 79-1635, 77 p.
- _____, 1980a, Physical and chemical properties of the Potomac River and environs, January 1978: U.S. Geol. Survey Open-file Rept. 80-742, 35 p.
- _____, 1980b, Physical and chemical properties of Potomac River and environs, April-May 1978: U.S. Geol. Survey Open-file Rept. 80-745, 57 p.
- _____, 1980c, Physical and chemical properties of Potomac River and environs, August 1978: U.S. Geol. Survey Open-file Rept. 80-746, 53 p.
- Stephens, D. W., and Shultz, D. J., 1981, Extraction and analysis of adenosine triphosphate from aquatic environments: U.S. Geol. Survey Water Resources Inv. Rept. 81-5, 28 p.
- Strickland, J. D. H., and Parsons, T. R., 1972, A Practical handbook of seawater analysis: Fisheries Research Board of Canada Bull. 167 (2nd ed), 310 p.
- Turner Designs, 1978, Operating and service manual, Model 10 Series fluorometers: Mountain View, Calif., 36 p.
- U.S. Geological Survey, 1980, Water resources data for Maryland and Delaware, water year 1979: U.S. Geol. Survey Open-file Rept. MD-DE-79-1, 398 p.
- U.S. Geological Survey, 1982, Water Resources Data for Maryland and Delaware, Water Year 1981: U.S. Geol. Survey Open-file Rept. MD-DE-81-1, 503 p.

APPENDIX A-1.- Nutrient, sediment, and related data

APPENDIX A-1

01646580 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SiO2	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N
OCT											
06...	1000	--	1350	3.8	.010	.97	--	.030	--	.30	.32
15...	1145	--	1350	.2	.010	.21	--	.030	--	.26	.41
23...	1035	--	1350	.8	.000	.59	--	.010	--	.31	.25
27...	1350	--	1350	--	--	--	--	--	--	--	.37
NOV											
06...	1500	--	1350	--	.000	.78	--	.060	--	.20	.25
10...	1610	--	1350	.2	.000	1.0	--	.020	--	.31	.42
17...	0940	--	1350	.2	.000	.76	--	.050	--	.14	.26
25...	0955	--	1350	.8	.010	.83	--	.000	--	.25	.39
DEC											
01...	0950	--	1350	4.5	.010	1.3	--	.030	--	.40	.52
11...	1015	--	1350	2.9	.010	1.5	--	--	--	.00	.31
19...	1250	--	1350	.8	.010	1.1	--	.050	--	.18	.31
24...	1025	--	1350	.4	.010	.86	--	.060	--	.26	.26
30...	1100	--	1350	.2	.010	1.4	--	.050	--	.08	.24
JAN											
06...	1035	--	1350	.1	.010	1.6	--	.000	--	.21	.18
15...	1530	--	1350	.1	.020	1.5	--	.320	--	.02	.52
21...	1040	--	1350	.2	.009	1.9	--	.010	--	--	.44
28...	1015	--	1350	.1	.010	1.7	--	.030	--	.22	.33
FEB											
02...	1115	--	1350	.3	.020	1.6	--	.050	--	.28	.39
03...	1300	--	1350	.3	.020	1.8	--	.050	--	.10	.53
04...	1650	--	1350	.8	.020	1.5	--	.070	--	.44	.68
10...	1200	--	1350	2.4	.020	1.7	--	.130	--	.58	.95
11...	1300	--	1350	2.5	.020	1.6	--	.120	--	.72	.95
12...	1120	--	1350	3.2	.030	1.7	--	.120	--	.44	1.30
13...	1915	--	1350	--	.040	2.8	--	.700	--	1.1	2.60
17...	0945	--	1350	3.5	.020	1.7	--	.120	--	.55	.87
23...	1040	--	1350	--	.030	.22	--	.190	--	.26	1.30
24...	1100	--	1350	--	.020	2.1	--	.120	--	.44	1.30
25...	1140	--	1350	--	.020	2.3	--	.090	--	.49	1.30
26...	1445	--	1350	--	.010	2.1	--	.070	--	.22	.99
27...	0900	--	1350	--	.010	1.9	--	.080	--	.33	.63
MAR											
03...	1530	--	1350	6.5	.020	2.2	--	.080	--	.19	.34
10...	1110	--	1350	5.3	.010	2.0	--	.050	--	.10	.26
16...	1445	--	1350	.6	.010	1.7	--	<.010	--	--	.38
25...	0940	--	1350	.9	<.010	1.1	--	.010	--	.23	.32
APR											
03...	1400	--	1350	.1	<.010	.44	--	.010	--	.26	.49

01646580 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L) AS P (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L) AS C (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT											
06...	1.3	.062	.050	--	--	47.2	13.0	52.9	--	--	--
15...	.50	.048	.014	--	--	3.5	6.4	6.6	--	--	--
23...	.91	.034	.023	--	--	--	--	--	--	--	9
27...	--	.062	--	--	--	--	--	--	--	--	--
NOV											
06...	1.0	.073	.054	--	--	5.5	2.7	6.8	--	--	5
10...	1.3	.052	.043	--	--	3.6	4.3	5.6	--	--	4
17...	.95	.050	.028	--	--	1.7	2.4	2.9	--	--	3
25...	1.1	.175	.046	--	--	11.9	3.4	13.4	--	--	24
DEC											
01...	1.7	.092	.082	--	--	7.4	5.5	9.9	--	--	18
11...	1.8	.035	.028	--	--	3.4	3.2	5.0	--	--	--
19...	1.3	.035	.015	--	--	2.3	1.0	2.8	--	--	5
24...	1.2	.040	.024	--	--	2.2	.5	2.4	--	--	3
30...	1.5	.045	.051	--	--	2.9	.9	2.9	--	--	1
JAN											
06...	1.8	.048	.036	--	--	2.2	1.0	2.7	--	--	3
15...	1.8	.076	.070	--	--	1.2	.7	1.5	--	--	3
21...	2.2	.075	.062	--	--	1.5	.8	1.8	--	--	1
28...	2.0	.053	.044	--	--	2.2	1.0	2.7	--	--	2
FEB											
02...	1.9	.101	.054	--	--	5.0	2.7	6.3	--	--	52
03...	2.0	.120	.056	--	--	7.6	3.0	9.0	--	--	42
04...	2.0	.117	.062	--	--	10.7	4.1	12.6	--	--	22
10...	2.4	.189	.119	--	--	7.2	2.5	8.3	--	--	13
11...	2.4	.170	.105	--	--	8.2	3.7	9.9	--	--	--
12...	2.3	.240	.065	--	--	30.0	8.1	33.5	--	--	105
13...	4.6	.572	.172	--	--	24.6	13.1	30.6	--	--	--
17...	2.4	.189	.097	--	--	10.8	4.0	12.6	--	--	--
23...	.67	.327	.075	--	--	38.3	20.3	47.6	--	--	--
24...	2.7	.335	.047	--	--	38.0	23.4	48.9	--	--	233
25...	2.9	.331	.069	--	--	--	--	--	--	--	216
26...	2.4	.190	.046	--	--	16.7	14.2	23.4	--	--	117
27...	2.3	.163	.034	--	--	10.7	10.8	15.8	--	--	30
MAR											
03...	2.5	.035	.044	--	--	6.0	5.1	8.4	--	--	15
10...	2.2	.072	.046	--	--	2.5	2.4	3.7	--	--	16
16...	1.9	.060	.029	--	--	7.0	3.2	8.5	--	--	12
25...	1.3	.055	.025	--	--	--	--	--	--	--	14
APR											
03...	.71	.044	.025	--	--	56.7	7.2	59.3	--	--	21

01646580 -- POTOMAC R AT CHAIN BRIDGE, AT WASH, DC
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

-- Cont.

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SI02	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N
		(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)	(00625)	(00623)	
APR	1305	--	1350	.1	.030	.56	--	.090	--	.02	.70	.11	
08...	1515	--	1350	3.9	.020	1.3	--	.140	--	.31	1.80	.45	
14...	1800	--	1350	6.9	.010	.11	--	.050	--	.25	.75	.30	
15...	1520	--	1350	7.1	.010	.13	--	.050	--	--	.44	<.10	
16...	1130	--	1350	5.9	.010	1.4	--	.060	--	.13	.46	.19	
20...	1125	--	1350	4.3	<.010	1.1	--	.170	--	.14	.62	.31	
MAY	1350	--	1350	2.7	<.010	.62	--	.050	--	.30	.54	.35	
07...	1330	--	1350	3.6	.500	2.9	--	.700	--	.00	.70	.69	
14...	0725	--	1350	5.2	.020	.96	--	.060	--	.41	.54	.47	
19...	1050	--	1350	--	<.010	.32	--	.030	--	.26	.64	.29	
27...													
JUN	1240	--	1350	4.7	.020	.92	--	.090	--	.58	.50	.67	
01...	1035	--	1350	7.6	.020	.37	--	.080	--	.42	.55	.50	
11...	1610	--	1350	8.1	--	--	--	--	--	--	--	--	
17...	1440	--	1350	6.6	.030	1.6	--	.050	--	.39	--	.44	
24...	1100	--	1350	5.8	<.010	1.1	--	<.010	--	--	.66	.48	
30...													
JUL	1400	--	1350	4.7	.010	.85	--	.020	--	.47	.71	.49	
08...	0845	--	1350	5.1	<.010	1.0	--	.030	--	.27	.41	.30	
15...	1350	--	1350	3.7	.010	.64	--	<.010	--	--	.42	.19	
20...	1155	--	1350	3.2	<.010	.46	--	<.010	--	--	2.60	.49	
28...													
AUG	1500	--	1350	2.6	.010	.24	--	.070	--	.57	.92	.64	
06...	0850	--	1350	2.8	.010	.25	--	.060	--	.41	.98	.47	
12...	1010	--	1350	1.9	<.010	.03	--	.060	--	.56	.77	.62	
18...	1420	--	1350	1.0	<.010	.04	--	.060	--	.28	.63	.34	
24...													
SEP	1100	--	1350	1.6	.020	.25	--	.090	--	.44	.72	.53	
01...	1500	--	1350	4.1	.020	1.2	--	.040	--	.42	.32	.46	
08...	1520	--	1350	5.0	.010	1.0	--	.070	--	.33	.56	.40	
18...	1420	--	1350	5.0	<.010	.93	--	.050	--	.20	.47	.25	
24...													

APPENDIX A-1

01646580 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	P-POS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
APR											
08....	.67	.076	.022	--	--	66.7	10.8	71.0	--	--	--
14....	1.8	.323	.064	--	--	75.5	77.0	112	--	--	247
15....	.41	.176	.036	--	--	31.4	34.6	47.7	--	--	--
16....	--	.153	.022	--	--	27.3	20.0	36.7	--	--	192
20....	1.6	.098	.026	--	--	26.7	8.2	30.3	--	--	18
28....	1.4	.034	<.001	--	--	37.2	4.5	38.8	--	--	30
MAY											
07....	.97	.066	.019	--	--	32.7	12.9	38.5	--	--	19
14....	3.6	.100	.036	--	--	28.0	11.1	33.0	--	--	31
19....	1.4	.103	.064	--	--	8.8	10.2	13.6	--	--	25
27....	.61	.100	.014	--	--	161	23.0	169	--	--	16
JUN											
01....	1.6	.085	.048	--	--	26.4	20.5	36.0	--	--	45
11....	.87	.105	.049	--	--	3.7	6.5	6.8	--	--	42
17....	--	--	--	--	--	6.6	8.8	10.8	--	--	--
24....	2.0	.160	.083	--	--	--	--	--	--	--	57
30....	1.6	.075	.036	--	--	11.9	15.2	19.1	--	--	--
JUL											
08....	1.3	.093	.038	--	--	46.2	19.9	55.2	--	--	30
15....	1.3	.088	.049	--	--	7.0	9.8	11.7	--	--	23
20....	.83	.043	.026	--	--	16.7	9.4	21.0	--	--	9
28....	.95	.052	.029	--	--	33.5	14.4	40.0	--	--	18
AUG											
06....	.88	.315	.147	--	--	46.1	41.1	65.4	--	--	17
12....	.72	.130	.014	--	--	82.0	32.3	96.5	--	--	64
18....	.65	.107	.021	--	--	64.8	44.8	85.6	--	--	30
24....	.38	.049	.047	--	--	--	--	--	--	--	10
SEP											
01....	.78	.078	.037	--	--	5.6	6.2	8.5	--	--	23
08....	1.7	.100	.112	--	--	3.0	5.0	5.4	--	--	24
18....	1.4	.100	.075	--	--	2.2	3.7	3.9	--	--	14
24....	1.2	.083	.066	--	--	1.9	2.9	3.2	--	--	12

385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM LEFT BANK)	SILICA, DIS- SOLVED (MG/L) AS SiO2	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L) AS N	
		(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)	(00625)	(00623)
OCT 02...	1200	--	50000	4.3	.010	.95	.060	.110	.32	.23	.38	.34
JUL 08...	2350	--	50000	4.4	.010	.86	.050	<.010	.46	--	.51	.52
20...	0930	--	50000	4.2	.010	.50	.060	.030	.62	.53	.68	.56
20...	2140	--	50000	3.7	.010	.50	.010	<.010	.71	--	.72	.47
21...	0815	--	50000	3.6	.020	.52	.020	<.010	.58	--	.60	.31
21...	1945	--	50000	3.6	.020	.49	.040	<.010	.60	--	.64	.44
22...	0840	--	50000	3.6	.020	.63	.030	.040	.66	.43	.69	.47
AUG 06...	1050	--	50000	1.7	.070	.52	.110	.110	.77	.48	.88	.59
24...	1945	--	50000	1.2	.020	.09	.140	.130	.60	.26	.74	.39
25...	0930	--	50000	1.4	.020	.07	.140	.150	.68	.25	.82	.40
25...	2000	--	50000	1.5	.020	.05	.150	.200	.56	.20	.71	.40
26...	0915	--	50000	1.4	.010	.06	.180	.210	.42	.23	.60	.44
26...	1900	--	50000	1.4	.020	.08	.120	.140	.52	.45	.64	.59
SEP 04...	0915	--	50000	--	.030	.31	.120	.130	.63	.48	.75	.61

APPENDIX A-1

385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	P+OS- PHOS- TOTAL (MG/L AS P) (00665)	P+OS- PHOS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT 02....	1.3	.073	.055	3.2	--	3.4	2.0	4.3	--	--	2
JUL 08....	1.4	.087	.043	3.7	1.9	51.4	15.8	58.3	1.2	1.2	25
20....	1.1	.078	.023	5.1	2.4	38.4	12.3	43.8	5.9	5.9	14
20....	.97	.020	.045	6.8	2.0	48.5	8.6	51.9	.8	.8	9
21....	.83	.078	.024	4.5	2.9	30.0	9.2	34.0	4.0	4.0	11
21....	.93	.077	.024	4.1	2.4	42.3	7.9	45.5	1.0	1.0	13
22....	1.1	.081	.033	3.1	1.6	20.3	8.2	24.0	.7	.7	13
AUG 06....	1.1	.066	.022	4.6	3.3	38.3	15.8	45.4	--	--	5
24....	.48	.082	.018	3.8	4.2	20.0	10.3	24.7	--	--	13
25....	.47	.066	.019	3.4	3.0	13.6	11.0	18.8	--	--	12
25....	.45	.048	.022	4.0	3.1	16.1	9.9	20.6	.6	.6	14
26....	.50	.055	.013	3.5	4.4	13.4	14.7	20.4	.1	.1	8
26....	.67	.037	.029	4.1	4.1	23.8	6.6	26.6	1.1	1.1	6
SEP 04....	.92	.045	.027	--	--	14.0	5.8	16.6	--	--	--

APPENDIX A-1

385223077022400 - POTOMAC RIVER AT 14TH STREET BR WASH DC

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L-BANK) (00009)	SILICA, DIS- SOLVED (MG/L) AS SI02) (00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L) AS N) (00623)
OCT												
21...	0725	--	1800	.9	.010	.55	.040	.010	.45	.36	.49	.37
NOV												
18...	1555	--	1800	.5	.000	.58	--	.050	--	.24	.26	.29
DEC												
16...	1700	--	1800	2.1	.010	1.3	.000	.020	.26	.19	.26	.21
FER												
04...	0730	--	1800	.5	.010	1.5	.080	.030	.26	.23	.34	.26
MAR												
04...	1055	--	1800	16	.020	2.4	--	.080	--	.18	.46	.26
APR												
15...	0655	--	1800	6.0	<.010	1.1	--	.080	--	--	.58	<.10
MAY												
19...	0700	--	1800	6.4	.020	.98	--	.090	--	.45	.75	.54
JUN												
30...	0815	--	1800	6.5	.010	1.1	--	.020	--	.36	.70	.38
JUL												
15...	1810	--	1800	5.7	.020	1.1	<.010	.040	--	.17	.60	.21
28...	1415	--	1800	2.6	<.010	.17	--	.030	--	.32	1.00	.35
AUG												
18...	1650	--	1800	3.6	.020	.51	.160	.050	.47	.44	.63	.49
SEP												
10...	0640	--	1800	4.2	.030	1.2	--	.090	--	.41	.54	.50
22...	1050	--	1800	4.5	.010	1.1	--	.090	--	.38	.65	.47

APPENDIX A-1

395223077022400 - POTOMAC RIVER AT 14TH STREET BR WASH DC --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DISE- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT 21....	.92	.054	.007	3.9	--	38.7	14.1	45.0	8.4	--	8
NOV 18....	.87	.045	.034	4.0	--	--	--	--	4.9	--	4
DEC 16....	1.5	.059	.020	--	--	1.8	1.4	2.4	--	--	14
FEB 04....	1.8	.088	.055	--	--	2.5	1.4	3.1	--	--	19
MAR 04....	2.7	.104	.056	--	--	4.7	3.1	6.1	22	.2	11
APR 15....	--	.086	.036	--	--	28.5	41.6	48.3	33	--	160
MAY 19....	1.4	.090	.062	--	--	--	--	--	--	--	14
JUN 30....	1.5	.090	.050	--	--	--	--	--	29	--	19
JUL 15....	1.3	.071	.044	--	--	--	--	--	--	--	11
AUG 28....	.52	.060	.006	--	--	32.1	14.3	38.5	--	--	15
SEP 18....	1.0	.058	.016	5.2	1.6	48.2	9.9	52.3	--	--	188
SEP 10....	1.7	.065	.083	--	--	--	--	--	--	--	12
SEP 22....	1.6	.096	.077	2.2	--	--	--	--	--	--	13

385039077012500 - POTOMAC RIVER AT GEISBORO POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMP- LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SILICA, DIS- SOLVED (MG/L) AS SI02 (00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N (00613)	NITRO- GEN, N02+N03 DIS- SOLVED (MG/L) AS N (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	VITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	VITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N (00623)
OCT												
02...	1230	--	50000	4.8	.110	.71	.830	.260	.67	.71	1.50	.97
21...	0755	--	375	2.5	.090	2.0	.830	.820	.37	.14	1.20	.96
NOV												
18...	1525	--	375	.7	.020	1.3	.220	.240	.35	.37	.57	.61
DEC												
16...	1640	--	50000	--	.010	1.7	.130	.140	.23	.20	.36	.34
FER												
04...	0840	--	375	1.0	.020	2.0	.300	.310	.27	.27	.57	.58
MAR												
04...	1030	--	375	5.4	.020	1.9	.110	.110	.22	.16	.33	.27
25...	1430	--	50000	--	--	--	.030	--	.23	--	.26	--
MAY												
19...	0725	--	375	5.2	.020	1.2	--	.250	--	.45	.89	.70
JUN												
30...	0845	--	375	5.9	.030	1.5	--	.120	--	.50	.75	.62
JUL												
08...	2255	--	50000	4.4	.020	1.1	.030	<.010	.58	--	.61	.42
18...	0855	--	50000	4.9	.060	1.9	.360	.210	.94	.59	1.30	.80
20...	2045	--	50000	4.3	.050	1.4	.130	.080	.69	.27	.82	.35
21...	0745	--	50000	4.0	.040	.66	.030	.030	.71	.37	.74	.40
21...	1845	--	50000	3.8	.030	.62	.040	.020	.33	.25	.37	.27
22...	0815	--	50000	3.4	.040	.62	.080	.030	.65	.54	.73	.57
28...	1330	--	375	2.7	.070	.46	--	.150	--	.51	.72	.66
AUG												
06...	1115	--	50000	2.0	.070	.77	.090	.070	1.3	.38	1.40	.45
18...	1620	--	375	2.3	.120	.72	.110	.120	.51	.38	.62	.50
24...	1915	--	50000	2.3	.120	1.4	.180	.160	.54	.49	.72	.65
25...	0900	--	50000	2.1	.100	1.1	.190	.170	.75	.61	.94	.78
25...	1925	--	50000	2.0	.150	1.6	.220	.230	.68	.56	.90	.79
26...	0845	--	50000	2.0	.130	1.3	.250	.300	.95	.38	1.20	.68
26...	1825	--	50000	2.2	.180	1.8	.260	.300	.84	.68	1.10	.98

APPENDIX A-1

385039077012500 - POTOMAC RIVER AT GEISHORO POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	P-HOS- PHORUS, DIS- SOLVED (MG/L AS P) (00566)	CARON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT											
02...	1.7	.118	.034	6.4	--	14.5	11.0	19.7	--	--	25
21...	3.0	.128	.047	4.4	--	30.0	9.8	34.3	25	--	9
NOV											
18...	1.9	.108	.041	--	--	18.7	5.6	21.1	--	--	15
DEC											
16...	2.0	.082	.015	--	--	2.7	2.8	4.0	--	--	5
FEB											
04...	2.6	.113	.092	--	--	3.2	1.1	3.7	--	--	10
MAR											
04...	2.2	.073	.043	--	--	3.9	2.6	5.1	29	.7	10
25...	--	.063	--	--	--	--	--	--	--	--	--
MAY											
19...	1.9	.185	.098	--	--	--	--	--	--	--	21
JUN											
30...	2.1	.110	.064	--	--	--	--	--	--	--	21
JUL											
08...	1.5	.083	.036	3.2	2.7	34.4	10.0	38.8	46	.7	22
20...	2.7	.149	.052	6.3	2.9	37.1	14.8	43.8	--	9.2	21
20...	1.8	.102	.026	7.2	2.8	55.0	14.0	61.0	--	2.2	20
21...	1.1	.091	.056	3.7	3.0	38.0	17.6	46.0	--	2.7	15
21...	.89	.030	.022	5.3	1.6	45.9	13.0	51.6	--	.8	17
22...	1.2	.088	.016	4.8	3.2	34.0	21.1	43.8	--	1.0	19
28...	1.1	.072	.033	--	--	31.7	14.2	38.1	--	--	15
AUG											
06...	1.2	.201	.033	4.4	3.4	59.5	18.8	67.8	--	4.1	20
18...	1.2	.094	.023	4.8	1.5	45.9	17.1	53.6	12	--	16
24...	2.1	.108	.034	4.3	3.7	48.0	12.8	53.5	--	--	10
25...	1.9	.105	.031	4.4	6.5	34.3	19.2	43.1	--	--	17
25...	2.4	.117	.052	4.5	3.7	--	--	--	--	5.6	12
26...	2.0	.131	.041	5.3	4.4	40.8	15.7	47.8	--	4.9	12
26...	2.8	.143	.069	4.3	3.8	51.2	13.2	57.0	--	12	9

384852077020500 - POTOMAC RIVER AT MARBURY POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/L) AS SI02	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	(00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	(00608)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N	(00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N	(00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N	(00623)
OCT																							
02...	1315	--	50000			5.1		.330		1.6		1.50		1.50		.50		.80		2.00		2.3	
21...	0825	--	50000			3.0		.130		2.3		1.20		1.20		.50		.00		1.70		1.2	
NOV																							
18...	1515	--	50000			1.0		.030		1.9		.460		.460		.50		.33		.96		.79	
DEC																							
16...	1550	--	50000			3.4		.020		1.7		.160		.150		.25		.19		.41		.34	
FEB																							
04...	0855	--	1200			.8		.020		1.9		.280		.280		.23		.06		.51		.34	
MAR																							
04...	1015	--	1200			6.5		.020		2.0		.090		.110		.32		.22		.41		.33	
25...	1400	--	50000			--		--		--		.140		--		.49		--		.63		--	
JUL																							
08...	2220	--	50000			4.8		.040		1.7		.130		.040		.64		.42		.77		.46	
20...	0925	--	50000			4.8		.050		1.5		.550		.440		.95		.66		1.50		1.1	
20...	2000	--	50000			4.8		.070		1.9		.430		.320		.87		.36		1.30		.68	
21...	0730	--	50000			4.3		.060		1.7		.190		.190		.73		.41		.92		.60	
21...	1800	--	50000			3.8		.050		.98		.070		.090		.82		.45		.89		.54	
22...	0750	--	50000			3.8		.050		1.2		.170		.140		.93		.49		1.10		.63	
AUG																							
06...	1155	--	50000			2.3		.100		1.4		.220		.220		1.1		.49		1.30		.71	
18...	1600	--	50000			2.4		.140		.99		.200		.130		.57		.38		.77		.51	
24...	1830	--	50000			2.0		.180		1.7		.290		.240		.58		.51		.87		.75	
25...	0820	--	50000			2.3		.170		1.7		.320		.280		.68		.31		1.00		.59	
25...	1900	--	50000			1.8		.180		1.8		.270		.310		1.0		.20		1.30		.51	
26...	0815	--	50000			1.6		.200		1.9		.270		.330		1.0		.33		1.30		.66	
26...	1800	--	50000			1.4		.200		2.0		.170		.210		.79		.43		.96		.64	
SEP																							
04...	0945	--	50000			--		.230		1.8		.370		.370		.59		.31		.96		.68	

APPENDIX A-1

 384852077020500 - POTOMAC RIVER AT MARBURY POINT --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00580)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT 02....	3.9	.126	.057	--	--	--	--	--	--	--	19
21....	3.5	.113	.052	4.5	--	--	--	--	--	--	11
NOV 18....	2.7	.157	.069	5.8	--	16.2	6.0	18.9	--	--	16
DEC 16....	2.0	.107	.053	--	--	2.8	3.6	4.5	--	--	14
FEB 04....	2.2	.208	.073	--	--	3.3	1.5	4.0	--	--	6
MAR 04....	2.3	.102	.046	--	--	5.7	4.2	7.6	--	.5	31
25....	--	.117	--	--	--	--	--	--	--	--	--
JUL 08....	2.2	.129	.072	5.5	2.6	25.6	7.9	29.0	--	.4	31
20....	2.7	.164	.052	6.2	2.8	33.6	19.4	42.5	--	8.5	29
20....	2.6	.091	.031	8.0	2.9	50.3	12.5	55.6	--	6.5	14
21....	2.3	.130	.061	4.3	5.0	33.6	16.9	41.3	--	2.4	17
21....	1.5	.119	.044	5.1	2.4	52.0	17.0	59.5	--	.9	18
22....	1.8	.142	.038	4.9	2.4	36.4	19.8	45.4	--	4.4	21
AUG 06....	2.1	.142	.071	4.5	3.7	58.3	24.0	69.1	--	2.5	25
18....	1.5	.130	.027	2.7	1.6	46.6	19.1	55.2	--	--	24
24....	2.5	.136	.041	5.1	4.4	50.4	16.5	57.7	--	--	22
25....	2.3	.136	.053	6.9	3.5	38.4	18.5	46.8	--	--	21
25....	2.3	.114	.049	4.9	3.4	61.5	14.2	67.5	--	8.8	18
26....	2.6	.128	.037	1.8	3.9	54.7	17.6	62.4	--	7.4	16
26....	2.6	.128	.035	4.4	4.3	73.0	10.8	77.2	--	11	18
SEP 04....	2.5	.139	.073	--	--	35.4	14.1	41.9	--	--	--

01652590

- POTOMAC R AT ALEXANDRIA, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

- 36 -

APPENDIX A-1

01652590 -- POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L) AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L) AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L) AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADEN- OSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
JCT											
02...	2.8	.125	.047	6.2	--	8.0	6.2	10.9	--	--	17
02...	3.7	.115	.052	4.6	--	8.4	6.4	11.4	--	--	18
07...	4.3	.117	.070	--	--	--	--	--	--	--	--
15...	4.0	.095	.046	--	--	10.0	4.9	12.2	--	--	16
15...	5.3	.137	.058	--	--	11.6	5.6	14.1	--	--	18
21...	4.0	.103	.043	4.5	--	--	--	--	27	--	20
21...	4.6	.134	.043	4.8	--	26.5	8.5	30.2	31	--	23
27...	4.2	.156	.074	--	--	--	--	--	--	--	20
VOV											
06...	3.1	.142	.084	--	--	--	--	--	--	--	23
06...	6.1	.165	.101	--	--	11.4	4.6	13.5	--	--	14
10...	6.1	.228	.139	--	--	15.1	4.8	17.2	--	--	17
10...	3.0	.146	.086	--	--	15.0	4.8	17.1	--	--	20
18...	3.7	.164	.076	5.6	--	9.1	8.2	12.9	--	--	33
25...	1.9	.173	.068	--	--	6.5	6.7	9.6	--	--	33
25...	3.4	.127	.089	--	--	6.1	3.9	7.9	--	--	25
DEC											
02...	2.7	.129	.058	--	--	8.9	6.9	12.1	--	--	26
02...	3.1	.134	.060	--	--	13.2	5.6	15.7	--	--	29
08...	2.5	.133	.055	--	--	5.0	4.4	7.0	--	--	41
08...	4.4	.152	.119	--	--	6.4	4.1	8.3	--	--	46
16...	6.4	.129	.069	--	--	3.7	3.6	5.4	--	--	17
16...	3.2	.131	.031	--	--	2.5	5.0	4.9	--	--	21
24...	4.2	.196	.093	--	--	1.2	1.4	1.9	--	--	12
24...	2.8	.141	.073	--	--	3.5	4.3	5.5	--	--	24
29...	2.3	.122	.059	--	--	3.0	2.5	4.2	--	--	17
29...	4.0	.155	.053	--	--	1.9	2.0	2.8	--	--	17
JAN											
07...	2.9	.128	.075	--	--	2.6	2.2	3.6	--	--	--
15...	3.1	.146	.086	--	--	2.2	1.1	2.7	--	--	8
15...	4.3	.166	.105	--	--	1.7	.6	2.0	--	--	5
23...	6.2	.186	.108	--	--	1.7	1.1	2.2	--	--	10
23...	3.5	.172	.095	--	--	2.3	2.3	3.4	--	--	18
28...	5.3	.172	.089	--	--	2.8	1.3	3.4	--	--	7
28...	4.6	.142	.073	--	--	4.2	1.9	5.1	--	--	10
FEB											
02...	5.6	.194	.089	--	--	4.4	1.2	4.9	--	--	26
02...	4.1	.195	.098	--	--	4.0	1.7	4.8	--	--	27
04...	3.1	.162	.087	--	--	4.3	1.6	5.0	--	--	9
04...	4.7	.204	.125	--	--	4.5	1.1	4.9	--	--	12

01652590 -- POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L' BANK)	SILICA, DIS- SOLVED (MG/L) AS SI02	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	NITRO- GEN, NITRO- AMMONIA TOTAL (MG/L) AS N	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	NITRO- AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- AM- MONIA + ORGANIC DIS. (MG/L) AS N
		(00003)	(00009)	(00955)	(00613)	(00610)	(00608)	(00605)	(00625)	(00623)
FEB										
11...	1120	--	500	1.9	.030	--	.480	--	1.40	1.1
11...	1150	--	3400	1.7	.020	--	.500	--	1.40	1.1
12...	1445	--	3400	2.0	.030	--	.160	--	1.00	.95
17...	1140	--	600	4.2	.020	--	.470	--	1.30	1.1
17...	1200	--	3400	3.7	.020	--	.240	--	.93	.98
23...	1225	--	600	--	.040	--	.420	--	1.40	.83
23...	1300	--	3400	--	.040	--	.360	--	1.10	.82
24...	1315	--	600	--	.040	--	.800	--	1.80	1.3
24...	1400	--	3400	--	.030	--	.160	--	.64	.53
25...	1555	--	600	--	.020	--	.430	--	1.50	.92
25...	1640	--	3400	--	.030	--	.110	--	1.00	.45
26...	1545	--	600	--	.020	--	.620	--	1.30	.97
26...	1600	--	3400	--	.020	--	.090	--	.87	.47
27...	1040	--	600	--	.050	--	1.70	--	1.00	1.1
27...	1050	--	3400	--	.020	--	.110	--	.59	.54
MAR										
04...	0945	--	600	7.5	.020	.670	.670	.25	.92	.95
04...	1000	--	3400	6.5	.020	.120	.140	.35	.47	.38
11...	1015	--	600	6.5	.020	--	.290	--	.66	.46
11...	1030	--	3400	6.1	.020	--	.270	--	.53	.44
18...	0705	--	3400	5.7	.020	--	.280	--	.70	.42
18...	0725	--	600	6.4	.020	--	.370	--	.64	.70
25...	1530	--	3400	2.6	.010	--	.100	--	.65	.34
25...	1550	--	600	4.9	.030	--	.700	--	1.00	.94
31...	1340	--	600	2.5	.030	--	.640	--	1.20	.78
31...	1350	--	3400	1.5	.030	--	.480	--	.75	.69
APR										
06...	1245	--	500	.8	.030	--	.710	--	1.80	1.5
06...	1320	--	3400	.1	.020	--	.290	--	1.40	.71
14...	2050	--	600	1.9	.010	--	.040	--	.75	.71
14...	2115	--	3400	3.0	.020	--	.050	--	.97	.33
15...	0745	--	3400	3.9	.020	--	.050	--	.30	.32
15...	0815	--	600	3.2	.030	--	.190	--	1.20	.73
16...	1140	--	600	6.6	.020	--	.200	--	.77	.21
17...	1130	--	3400	7.0	.010	--	.120	--	1.10	.43
17...	1200	--	600	6.5	.020	--	.470	--	1.40	.83
21...	1245	--	3400	6.8	.020	--	.140	--	.67	.71
21...	1310	--	600	7.2	.020	--	.500	--	1.20	1.2
28...	1235	--	3400	4.4	.020	--	.240	--	.85	.53
28...	1320	--	600	4.8	.030	--	.590	--	1.30	.86

APPENDIX A-1

01652590 -- POTOMAC R AT ALEXANDRIA, VA. --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
FER											
11...	3.7	.195	.101	--	--	6.0	4.7	8.2	--	--	35
11...	3.6	.210	.103	--	--	7.8	4.5	9.9	--	--	32
12...	2.6	.189	.098	--	--	7.2	3.7	8.8	--	--	23
17...	5.1	.163	.117	--	--	2.4	2.3	3.5	--	--	21
17...	3.2	.205	.118	--	--	4.4	3.6	6.0	--	--	25
23...	3.0	.210	.109	--	--	18.5	7.4	21.8	--	--	38
23...	3.3	.223	.101	--	--	19.1	9.2	23.2	--	--	63
24...	4.0	.259	.140	--	--	7.7	4.9	10.0	--	--	162
24...	2.4	.211	.059	--	--	19.8	12.5	25.6	--	--	89
25...	3.9	.422	.063	--	--	19.2	12.2	24.8	--	--	139
25...	2.7	.350	.059	--	--	20.5	14.5	27.2	--	--	180
26...	4.7	.309	.071	--	--	6.9	6.8	10.1	--	--	87
26...	2.7	.185	.058	--	--	12.4	10.5	17.3	--	--	13
27...	5.3	.223	.079	--	--	4.1	4.1	6.1	--	--	--
27...	2.7	.149	.051	--	--	--	--	--	--	--	--
MAR											
04...	6.1	.225	.093	--	--	1.7	2.4	2.8	38	.3	17
04...	2.4	.108	.049	--	--	4.9	4.8	7.2	22	.0	34
11...	3.8	.166	.031	--	--	5.1	2.7	6.4	--	--	34
11...	2.7	.145	.017	--	--	8.7	6.4	11.7	--	--	22
18...	3.0	.121	.050	--	--	--	--	--	--	--	17
18...	4.1	.141	.055	--	--	--	--	--	--	--	26
25...	1.7	.104	.048	--	--	18.6	5.1	20.8	--	--	12
25...	5.1	.307	.225	--	--	8.8	2.3	9.8	--	--	99
31...	3.6	.204	.116	--	--	23.2	5.7	25.6	--	--	14
31...	2.5	.234	.204	--	--	23.3	9.2	27.4	--	--	22
APR											
06...	3.2	.190	.053	--	--	35.1	16.2	42.4	--	--	40
06...	1.4	.151	.040	--	--	54.1	26.5	66.2	--	--	55
14...	.84	.155	.095	--	--	27.0	24.5	38.5	--	--	36
14...	.85	.122	.055	--	--	59.0	33.7	74.5	--	--	105
15...	.75	.087	.046	--	--	26.5	25.8	38.6	43	--	70
15...	2.2	.138	.092	--	--	36.9	22.5	47.3	50	--	34
16...	2.1	.138	.039	--	--	--	--	--	--	--	105
17...	1.8	.194	.037	--	--	--	--	--	--	--	110
17...	3.6	.221	.080	--	--	--	--	--	--	--	48
21...	2.1	.083	.044	--	--	--	--	--	--	--	46
21...	4.3	.194	.087	--	--	16.8	5.0	19.0	--	--	23
28...	1.7	.090	.001	--	--	43.0	18.8	51.5	--	--	44
28...	4.3	.170	.037	--	--	72.5	12.5	77.5	--	--	22

APPENDIX A-1

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION/ (FT FM L BANK) (00009)	SILICA, DIS- SOLVED (MG/L) AS SI02 (00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N (00613)	NITRO- GEN, N02+N03 DIS- SOLVED (MG/L) AS N (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L) AS N (00623)
MAY												
04....	0810	--	3400	2.5	.030	1.2	--	.430	--	.36	.99	.79
04....	0825	--	600	2.5	.020	1.3	--	.420	--	.23	1.30	.65
12....	0915	--	600	2.1	.030	4.3	--	1.10	--	.20	1.60	1.3
12....	0935	--	3400	3.3	.020	.93	--	.340	--	.45	1.80	.79
19....	0750	--	3400	5.5	.020	1.2	--	.360	--	.46	.99	.82
19....	0830	--	600	5.4	.030	2.0	--	.480	--	.52	.98	1.0
26....	1045	--	3400	5.9	.020	.90	--	.210	--	.00	.63	.15
26....	1115	--	600	5.7	.020	2.2	--	.420	--	.21	1.20	.63
JUN												
01....	1830	--	600	1.4	.030	1.4	--	.220	--	.51	.80	.73
01....	1850	--	3400	.8	.020	.96	--	.220	--	.65	.89	.87
11....	1330	--	3400	7.5	.020	1.1	--	.110	--	.31	.50	.42
11....	1345	--	500	7.3	.040	1.0	--	.410	--	.47	1.40	.88
17....	1345	--	600	8.0	--	--	--	--	--	--	--	--
17....	1410	--	3400	7.6	--	--	--	--	--	--	--	--
24....	1240	--	600	6.3	.050	2.0	--	.290	--	.57	.84	.86
24....	1300	--	3400	6.4	.030	1.3	--	.320	--	.47	.72	.79
30....	0925	--	3400	5.3	.050	1.6	--	.340	--	.57	.84	.91
30....	1010	--	600	5.8	.080	3.1	--	.410	--	.49	1.10	.90
JUL												
08....	2040	--	30000	5.2	.090	2.5	.220	.230	.72	.44	.94	.67
08....	2120	--	40000	4.6	.020	1.2	.050	<.010	.34	--	.39	.48
15....	1730	--	600	5.6	.070	2.1	--	.210	--	.25	1.10	.46
15....	1740	--	3400	5.7	.060	1.7	--	.340	--	.30	.79	.64
20....	0730	--	30000	4.8	.070	2.5	.300	.190	1.0	.91	1.30	1.1
20....	0750	--	40000	4.9	.060	1.7	.520	.460	.98	.74	1.50	1.2
20....	1820	--	30000	4.7	.070	2.0	.310	.210	1.1	.28	1.40	.49
20....	1900	--	40000	4.7	.060	1.7	.370	.230	.83	.34	1.20	.57
21....	0630	--	30000	4.6	.080	2.3	.430	.390	.97	.53	1.40	.92
21....	0650	--	40000	4.3	.060	1.6	.290	.280	.46	.56	.75	.84
21....	1700	--	30000	4.5	.080	2.7	.310	.300	1.1	.55	1.40	.85
21....	1720	--	40000	4.2	.070	1.7	.290	.240	1.1	.63	1.40	.87
22....	0645	--	30000	4.4	.080	2.3	.400	.420	1.2	.68	1.60	1.1
22....	0720	--	40000	3.9	.060	1.3	.210	.180	.89	.40	1.10	.58
28....	1205	--	600	3.0	.130	2.5	--	.470	--	.63	1.40	1.1
28....	1225	--	3400	3.0	.080	1.1	--	.360	--	.16	1.00	.52
AUG												
06....	1245	--	40000	1.3	.130	1.4	.170	.150	1.1	.44	1.30	.59
06....	1315	--	30000	1.5	.140	1.9	.090	.110	1.2	.55	1.30	.66
18....	1500	--	600	3.2	.240	2.2	.090	.090	.91	.30	1.00	.39

APPENDIX A-1

01652590 -- POTOMAC R AT ALEXANDRIA, VA. -- Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DISE- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DISE- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISE- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
MAY										
04...	2.0	.139	.043	--	--	20.3	35.1	--	--	46
04...	2.0	.134	.047	--	--	26.3	37.2	--	--	31
12...	5.6	.545	.200	--	--	--	--	--	--	23
12...	1.7	.143	.057	--	--	--	--	--	--	27
19...	2.0	.154	.080	--	--	--	--	42	--	33
19...	3.0	.246	.171	--	--	--	--	50	--	23
26...	1.1	.112	.059	--	--	--	--	--	--	19
26...	2.8	.194	.102	--	--	--	--	--	--	15
JUN										
01...	2.1	.143	.062	--	--	--	--	--	--	17
01...	1.8	.127	.055	--	--	--	--	--	--	29
11...	1.5	.086	.038	--	--	--	--	--	--	14
11...	1.9	.181	.058	--	--	--	--	--	--	26
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
24...	2.9	.146	.085	--	--	18.1	20.9	--	--	23
24...	2.1	.092	.057	--	--	4.2	7.0	--	--	26
30...	2.5	.116	.062	--	--	--	--	20	--	25
30...	4.0	.171	.090	--	--	--	--	--	--	17
JUL										
08...	3.2	.182	.087	8.0	4.4	46.0	47.5	65	2.1	--
08...	1.7	.096	.042	3.6	3.9	23.6	28.7	26	.0	20
15...	2.6	.121	.054	--	--	--	--	--	--	12
15...	2.3	.110	.066	--	--	--	--	--	--	30
20...	3.6	.157	.040	5.3	3.0	--	--	--	7.7	21
20...	2.9	.161	.049	5.6	3.0	38.6	48.6	--	9.7	36
20...	2.5	.130	.036	8.8	3.2	--	--	--	--	53
20...	2.3	.104	.032	4.6	2.8	58.6	64.8	--	4.8	32
21...	3.2	.165	.062	5.0	6.0	39.3	46.1	--	4.5	20
21...	2.4	.104	.104	4.6	3.2	33.2	40.9	--	4.2	16
21...	3.6	.162	.067	4.3	3.5	54.0	59.0	--	6.3	19
21...	2.6	.158	.065	5.1	3.6	43.4	51.2	--	5.2	21
22...	3.4	.161	.060	5.1	2.4	35.4	43.2	--	6.8	18
22...	1.9	.135	.063	4.6	2.4	35.9	44.8	--	4.6	18
28...	3.6	.150	.054	--	--	54.9	60.4	--	--	14
28...	1.6	.144	.063	--	--	33.3	41.4	--	--	31
AUG										
06...	2.0	.197	.048	7.6	3.6	78.3	85.3	--	6.9	31
06...	2.6	.153	.077	6.8	3.3	79.3	92.1	--	3.6	19
18...	2.6	.153	.033	6.4	3.1	75.5	79.1	24	--	17

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/L) AS SiO2	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	(00613)	VITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N	(00610)	VITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	(00608)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N	(00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	(00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N	(00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L) AS N	(00623)
AUG																							
18...	1515	--	40000			2.4	.190	.190	1.4	.230	.200	.74	.22	.97	.42								
24...	1745	--	30000			1.6	.200	.200	1.9	.150	.170	.85	.32	1.00	.49								
24...	1755	--	40000			1.4	.210	.210	2.4	.190	.170	.81	.52	1.00	.69								
25...	0720	--	30000			2.0	.220	.220	2.9	.210	.170	.99	.52	1.20	.69								
25...	0750	--	40000			1.8	.200	.200	1.8	.300	.250	.90	.36	1.20	.61								
25...	1755	--	30000			1.4	.210	.210	2.5	.150	.190	.95	.78	1.10	.97								
25...	1820	--	40000			1.2	.200	.200	1.8	.170	.190	.93	.60	1.10	.79								
26...	0715	--	30000			1.6	.210	.210	2.4	.260	.300	.84	.23	1.10	.53								
26...	0745	--	40000			1.1	.200	.200	1.9	.190	.240	.79	.49	.98	.73								
26...	1720	--	30000			1.3	.210	.210	2.1	.150	.180	.84	.45	.99	.63								
26...	1740	--	40000			1.1	.200	.200	1.8	.150	.190	.82	.42	.97	.61								
SEP																							
01...	1310	--	600			1.8	.330	.330	2.9	--	.310	--	.61	1.20	.92								
01...	1330	--	3400			1.7	.320	.320	2.0	--	.380	--	.44	1.30	.82								
10...	0720	--	3400			2.4	.220	.220	1.7	--	.250	--	.61	1.00	.86								
10...	0805	--	600			2.9	.360	.360	3.6	--	.290	--	.01	.73	.30								
16...	1230	--	600			3.5	.210	.210	3.2	--	.310	--	.47	.84	.78								
16...	1300	--	3400			3.5	.140	.140	1.9	--	.340	--	.33	.86	.67								
22...	0950	--	600			4.7	.160	.160	3.1	--	.370	--	.46	1.10	.83								
22...	1015	--	3400			4.9	.100	.100	1.7	--	.310	--	.47	.93	.78								

APPENDIX A-1

01552590 -- POTOMAC R AT ALEXANDRIA, VA. --Cont.
WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
AUG											
18...	1.8	.163	.046	5.5	3.5	48.5	18.7	56.9	43	--	26
24...	2.4	.146	.036	4.8	3.8	79.1	8.0	81.8	--	--	18
24...	3.1	.137	.040	4.0	3.9	64.7	12.6	69.8	--	--	16
25...	3.6	.151	.039	6.8	3.4	--	--	--	--	--	15
25...	2.4	.135	.036	4.3	3.4	53.8	19.7	62.6	--	--	17
25...	3.5	.154	.042	5.7	4.5	82.9	9.8	86.5	--	11	23
25...	2.6	.122	.030	4.6	4.9	53.0	17.3	70.5	--	6.7	15
26...	2.9	.170	.042	1.9	.8	51.5	22.1	61.5	--	6.6	15
26...	2.6	.133	.035	3.1	1.9	54.5	20.2	63.5	--	12	12
26...	2.7	.137	.040	6.4	4.1	64.0	17.4	71.5	--	10	20
26...	2.4	.149	.042	4.9	3.8	64.7	14.5	70.8	--	6.3	18
SEP											
01...	3.8	.153	.070	--	--	--	--	--	--	--	8
01...	2.8	.163	.059	--	--	--	--	--	--	--	13
10...	2.6	.095	.060	--	--	--	--	--	--	--	21
10...	3.9	.198	.118	--	--	--	--	--	--	--	23
16...	4.0	.235	.105	--	--	--	--	--	--	--	23
16...	2.6	.177	.080	--	--	--	--	--	--	--	30
22...	3.9	.306	.225	4.2	--	--	--	--	--	--	20
22...	2.5	.214	.128	3.7	--	--	--	--	--	--	23

APPENDIX A-1

384605077015900 - POTOMAC RIVER-AT ROSIER BLUFF

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/L) AS SiO2	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	(00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N	(00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	(00608)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N	(00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N	(00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N	(00623)
OCT																					
02...	1445	--	50000			5.1		.180		.06	1.70	1.70	1.70		.10		.00	1.80	1.80	1.4	
21...	0950	--	625			3.4		.140		2.5	1.40	1.50	1.50		.40		.60	1.80	1.80	2.1	
NOV																					
18...	1420	--	625			1.7		.050		3.6	.700	.710	.710		.30		.23	1.00	1.00	.94	
DEC																					
16...	1425	--	50000			4.4		.020		2.6	.450	.490	.490		.32		.17	.77	.77	.66	
FEB																					
04...	1020	--	625			1.2		.030		2.7	.760	.720	.720		.44		.11	1.20	1.20	.83	
MAR																					
04...	0925	--	625			6.8		.020		2.5	.210	.210	.210		.44		.22	.65	.65	.43	
MAY																					
19...	0850	--	625			4.3		.030		1.3	--	.430	.430		--		.44	.93	.93	.87	
JUL																					
08...	2000	--	50000			4.9		.040		1.4	.160	.120	.120		.63		.42	.79	.79	.54	
20...	0640	--	50000			4.8		.060		1.8	.480	.390	.390		1.1		.53	1.60	1.60	.92	
20...	1730	--	50000			4.6		.060		1.6	.220	.180	.180		.77		.51	.99	.99	.69	
21...	0600	--	50000			4.6		.070		1.7	.520	.500	.500		.98		.60	1.50	1.50	1.1	
21...	1610	--	50000			4.3		.080		1.7	.400	.360	.360		1.2		.74	1.60	1.60	1.1	
22...	0615	--	50000			4.2		.070		1.7	.460	.450	.450		1.1		1.3	1.60	1.60	1.7	
AUG																					
06...	1345	--	50000			1.1		.130		1.3	.110	.120	.120		1.1		.20	1.20	1.20	.32	
18...	0930	--	50000			--		.150		.74	.130	.010	.010		.97		.39	1.10	1.10	.40	
18...	1415	--	50000			2.3		.230		1.5	.070	.080	.080		1.0		.42	1.10	1.10	.50	
24...	1700	--	50000			1.2		.190		1.6	.120	.110	.110		.98		.53	1.10	1.10	.64	
25...	0645	--	50000			1.2		.190		1.6	.130	.130	.130		1.1		.63	1.20	1.20	.76	
25...	1730	--	50000			1.1		.200		1.6	.140	.150	.150		.96		.52	1.10	1.10	.67	
26...	0645	--	50000			.8		.170		1.5	.120	.150	.150		.86		.74	.98	.98	.89	
26...	1650	--	50000			1.0		.180		1.6	.110	.170	.170		.99		.43	1.10	1.10	.60	

APPENDIX A-1

384605077015800 - POTOMAC RIVER AT ROSIER BLUFF --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DISS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADEN- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT											
02...	1.5	.107	.042	5.6	--	8.2	5.5	10.8	--	--	12
21...	4.6	.101	.041	4.6	--	17.3	8.8	21.3	37	--	16
NOV											
18...	4.5	.146	.084	4.9	--	9.2	6.7	12.3	27	--	22
DEC											
16...	3.3	.134	.037	--	--	2.4	5.3	4.9	--	--	19
FEB											
04...	3.5	.175	.109	--	--	4.7	1.5	5.3	--	--	9
MAR											
04...	2.9	.121	.063	--	--	3.5	3.2	5.0	26	1.9	16
MAY											
19...	2.2	.156	.077	--	--	--	--	--	46	--	33
JUL											
08...	1.9	.110	.047	5.0	2.0	23.7	7.8	27.2	20	1.3	25
20...	2.7	.143	.048	5.6	2.9	37.4	14.3	43.8	--	9.6	18
20...	2.3	.076	.035	7.8	3.1	46.6	16.8	54.1	--	6.3	20
21...	2.8	.164	.078	--	3.4	33.1	12.5	38.7	--	5.6	16
21...	2.8	.157	.055	5.3	3.9	54.6	12.7	60.0	--	6.9	26
22...	3.4	.149	.061	5.3	3.2	35.4	15.6	42.5	--	.0	17
AUG											
06...	1.6	.119	.044	4.9	4.0	84.0	16.0	90.5	--	3.1	20
18...	1.1	.150	.088	--	--	--	--	--	--	--	--
18...	2.0	.171	.033	7.4	3.8	68.6	20.7	77.6	42	--	27
24...	2.2	.122	.030	5.0	3.4	63.7	--	--	--	--	17
25...	2.4	.127	.029	5.2	5.1	55.2	19.3	63.8	--	--	23
25...	2.3	.118	.024	4.9	4.3	66.8	13.0	72.1	--	14	16
26...	2.4	.123	.033	2.2	.9	54.3	16.5	61.6	--	6.5	16
26...	2.2	.126	.037	4.9	3.9	61.0	12.5	66.2	--	9.2	23

APPENDIX A-1

384318077020300 - POTOMAC RIVER AT HATTON POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION, LEFT FM RIGHT BANK	SILICA, DIS- SOLVED (MG/L) AS SiO2	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	NITRO- GEN, NITRO- AMMONIA TOTAL (MG/L) AS N	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N
OCT										
02...	--	50000	4.6	.160	1.9	1.20	1.20	.40	1.60	1.5
21...	--	50000	2.0	.090	2.0	.250	.270	.63	.88	.57
NOV										
18...	--	50000	1.6	.060	2.8	.720	.730	.48	1.20	1.2
DEC										
16...	--	50000	4.6	.020	2.5	.480	.510	.29	.77	.81
FEB										
04...	--	1000	1.6	.030	2.9	1.40	1.40	.00	1.30	1.4
MAR										
04...	--	1000	6.7	.020	2.3	.320	.300	.21	.53	.46
APR										
29...	--	50000	--	.030	1.5	.270	.270	.56	.83	.71
MAY										
19...	--	1000	3.7	.040	1.3	--	.450	--	.99	.97
JUN										
30...	--	1000	5.5	.050	1.8	--	.350	--	.81	.62
JUL										
08...	--	50000	4.8	.050	1.4	.270	.240	.93	1.20	.64
15...	--	1000	5.0	.050	1.3	.330	.350	.77	1.10	.58
20...	--	50000	4.8	.060	1.5	.450	.380	.85	1.30	1.1
20...	--	50000	4.6	.070	1.5	.440	.330	.76	1.20	.73
21...	--	50000	4.4	.070	1.5	.400	.300	.55	.95	.76
21...	--	50000	4.2	.070	1.6	.340	.320	1.1	1.40	.94
22...	--	50000	3.9	.070	1.6	.360	.380	1.0	1.40	.87
27...	--	1000	3.2	.080	1.5	--	.350	--	1.10	.88
28...	--	1000	2.4	.090	1.5	--	.420	--	1.40	1.0
29...	--	1000	2.4	.090	1.5	--	.280	--	1.90	.90
31...	--	50000	--	.110	1.1	--	.110	--	1.20	.51
31...	--	2400	--	.110	1.1	--	.240	--	1.20	.86
31...	--	50000	2.2	.080	1.1	--	.120	--	1.30	.45
AUG										
03...	--	50000	.9	.160	1.2	--	.080	--	.80	.43
1540	--	50000	1.3	.120	1.2	--	.070	--	--	.42
05...	--	50000	1.1	.130	1.3	--	.180	--	1.10	.57
06...	--	50000	1.0	.130	1.2	.150	.150	.95	1.10	.67
18...	--	50000	2.1	.270	1.3	.060	.080	.86	.92	.70
24...	--	50000	1.1	.170	1.3	.080	.090	.66	.74	.63
25...	--	50000	1.0	.170	1.3	.120	.130	.76	.88	.48
25...	--	50000	1.0	.190	1.7	.110	.170	.85	.97	.60
26...	--	50000	.8	.160	1.4	--	.200	--	--	.46

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (20154)
OCT											
02...	3.4	.100	.036	5.3	--	10.6	8.8	14.7	--	--	16
21...	2.6	.093	.012	4.6	--	10.4	6.9	13.6	24	--	21
NOV											
18...	4.0	.097	.061	4.4	--	6.8	5.0	9.1	22	--	13
DEC											
16...	3.3	.125	.055	--	--	2.5	6.4	5.5	--	--	32
FEB											
04...	4.3	.174	.087	--	--	8.6	4.4	10.6	--	--	17
MAR											
04...	2.8	.138	.057	--	--	4.1	5.4	6.6	27	1.2	35
APR											
29...	2.2	.116	.025	--	--	--	--	--	--	--	--
MAY											
19...	2.3	.111	.045	--	--	--	--	--	34	--	29
JUN											
30...	2.4	.129	.044	--	--	--	--	--	--	--	42
JUL											
04...	2.0	.116	.050	3.2	2.9	17.0	7.9	20.6	--	.5	34
15...	1.9	.099	.051	--	--	--	--	--	--	--	21
20...	2.6	.137	.047	6.3	3.5	25.3	13.2	31.3	--	1.0	32
20...	2.3	.072	.047	6.2	3.1	41.5	9.0	45.3	--	4.0	18
21...	2.3	.090	.031	5.7	3.1	29.4	9.8	33.8	--	6.2	28
21...	2.5	.139	.041	5.5	3.2	54.1	9.7	58.0	--	.0	22
22...	2.5	.132	.044	6.4	3.2	42.7	13.3	48.5	--	3.9	18
27...	2.4	.127	.072	--	--	32.8	10.6	37.5	--	--	--
28...	2.5	--	.019	--	--	56.2	17.1	63.8	--	--	27
29...	2.4	.146	.046	--	--	55.9	15.0	62.3	--	--	--
31...	1.6	.155	.047	--	--	--	--	--	--	--	--
31...	2.0	.163	.034	--	--	--	--	--	--	--	--
31...	1.6	.137	.050	--	--	--	--	--	--	--	--
AUG											
03...	1.6	.105	.009	--	--	--	--	--	--	--	18
04...	1.6	--	.012	--	--	--	--	--	--	--	--
05...	1.9	.144	.047	--	--	--	--	--	--	--	--
06...	1.9	.171	.046	5.3	3.7	59.7	11.1	64.3	--	6.1	--
18...	2.0	.155	.041	6.0	3.1	61.5	11.1	66.0	31	--	17
24...	1.9	.100	.058	6.4	3.3	--	--	--	--	--	14
25...	1.8	.118	.031	5.0	4.0	46.2	12.1	51.4	--	--	24
25...	2.3	.123	.026	4.0	3.7	71.6	14.1	77.4	--	29	24
26...	1.9	.041	.019	4.3	4.2	33.1	15.4	40.1	--	2.4	18

APPENDIX A-1

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SILICA, DIS- SOLVED (MG/L) AS SiO2 (00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00623)
AUG 26...	2100	--	5000	.8	.170	1.3	.120	.98	.53	1.10	.65	
SEP 16...	1020	--	1000	1.5	--	--	--	--	--	.50	--	
22...	0920	--	1000	3.5	.140	2.1	.320	--	.42	.85	.74	

APPENDIX A-1

384318077020300 - POTOMAC RIVER AT HATTON POINT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00655)	P-OS- PHOSPH- ORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
AUG 26...	2.0	.112	.038	5.1	4.0	51.1	10.4	55.4	--	6.2	18
SEP 16...	--	.109	.013	--	--	--	--	--	--	--	24
22...	2.8	.158	.082	3.8	--	--	--	--	--	--	28

384136077054500 - POTOMAC RIVER AT MARSHALL HALL

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMP- LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SILICA, DIS- SOLVED (MG/L) AS SI02 (00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N (00613)	NITRO- GEN, N02+N03 DIS- SOLVED (MG/L) AS N (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00623)
OCT												
02...	1620	--	50000	3.5	.130	1.8	.350	.360	1.1	.37	1.40	.73
21...	1100	--	50000	3.3	.100	2.4	.910	.910	.49	.39	1.40	1.3
NOV												
18...	1230	--	50000	1.3	.050	2.6	.640	.680	.56	.21	1.20	.89
DEC												
16...	1320	--	50000	4.1	.020	2.4	.390	.530	.42	.17	.81	.70
FEB												
04...	1115	--	2300	1.8	.030	2.9	1.60	1.60	.00	.20	1.60	1.8
MAR												
04...	0840	--	2300	6.7	.020	2.6	--	.310	--	.23	.90	.54
APR												
15...	0915	--	2300	2.5	.070	3.8	--	.350	--	.25	.62	.60
29...	1130	--	50000	--	.030	1.6	.340	.330	.49	.22	.83	.55
MAY												
19...	0925	--	2300	2.6	.040	1.2	--	.380	--	.44	1.10	.82
JUN												
30...	1140	--	2300	5.7	.060	1.7	--	.320	--	.45	.88	.77
JUL												
08...	1830	--	50000	4.8	.060	1.3	.310	.350	.61	.56	.92	.91
20...	0725	--	50000	4.0	.050	1.3	.330	.180	.77	.61	1.10	.79
20...	1745	--	50000	4.4	.060	1.4	.380	.320	.42	.39	.80	.71
21...	0940	--	50000	3.8	.050	1.3	.270	.160	.57	.26	.84	.42
21...	1745	--	50000	4.1	.060	1.4	.290	.300	.91	.55	1.20	.85
22...	0715	--	50000	4.1	.060	1.5	.320	.310	.78	.53	1.10	.84
28...	1100	--	2300	2.6	.070	1.5	--	.400	--	.27	1.40	.67
AUG												
06...	1515	--	50000	1.4	.110	1.2	.270	.300	1.1	.27	1.40	.57
18...	1200	--	50000	1.6	.210	1.1	.080	.090	.79	.33	.86	.42
24...	1900	--	50000	.9	.180	1.1	.120	.120	.77	.70	.89	.82
25...	0750	--	50000	.9	.160	1.2	.180	.170	.71	.49	.89	.66
25...	2145	--	50000	.8	.160	1.2	.130	.150	.80	.41	.93	.56
26...	0815	--	50000	.6	<.010	1.1	.110	.180	.65	.34	.76	.52
26...	2015	--	50000	.6	.130	1.0	.090	.070	.76	.37	.85	.44
SEP												
0945	0945	--	2300	.6	.060	1.5	--	.090	--	.42	.93	.51
22...	0855	19.0	2300	2.8	.130	2.0	--	.210	--	.23	.76	.44

384136077054500 - POTOMAC RIVER AT MARSHALL HALL ---Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	P-OS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT											
02...	2.5	.102	.025	5.6	--	23.3	14.6	30.0	--	--	12
21...	3.7	.098	.021	5.2	--	17.4	10.6	22.4	--	--	21
NOV											
18...	3.5	.099	.047	--	--	9.1	10.1	13.9	18	--	20
DEC											
16...	3.1	.162	.061	--	--	8.4	13.3	14.7	--	--	43
FEB											
04...	4.7	.141	.079	--	--	11.5	9.5	15.9	--	--	44
MAR											
04...	3.1	.080	.073	--	--	4.4	6.4	7.5	12	1.2	179
APR											
15...	4.4	.114	.055	--	--	44.9	57.0	71.9	44	--	63
29...	2.2	.094	.067	--	--	--	--	--	--	--	--
MAY											
19...	2.0	.099	.048	--	--	--	--	--	--	--	32
JUN											
30...	2.5	.146	.053	--	--	--	--	--	23	--	--
JUL											
08...	2.2	.100	.037	4.0	2.6	14.4	8.4	18.3	29	.4	53
20...	2.1	.150	.040	5.8	3.0	24.3	16.6	32.0	--	1.2	58
20...	2.1	.060	.066	--	3.2	28.8	7.0	31.8	--	.9	19
21...	1.7	.091	.028	8.2	2.9	24.8	14.9	31.6	--	2.7	59
21...	2.3	.091	.063	5.0	2.4	30.0	9.2	34.0	--	2.3	24
22...	2.4	.114	.048	4.8	3.2	25.7	9.2	29.8	--	4.6	21
28...	2.2	.154	.043	--	--	33.2	17.8	41.4	--	--	42
AUG											
06...	1.8	.169	.154	4.8	4.4	31.0	14.0	37.5	--	4.4	25
18...	1.5	.137	.034	5.9	3.4	58.9	16.9	66.3	32	--	25
24...	1.9	.110	.040	6.2	3.2	35.6	17.3	43.5	--	--	23
25...	1.9	.125	.041	5.3	3.6	30.0	20.7	39.6	--	--	27
25...	1.8	.119	.028	4.3	4.1	45.0	15.6	51.9	--	9.2	29
26...	1.6	.030	.021	4.7	4.2	38.8	20.8	48.3	--	5.0	24
26...	1.4	.098	.023	6.4	4.0	52.2	14.2	58.4	--	5.9	28
SEP											
16...	2.0	.113	.032	--	--	22.6	20.6	32.3	--	--	31
22...	2.4	.147	.052	3.5	--	20.4	30.2	34.8	--	--	34

APPENDIX A-1

393818077072800 - POTOMAC RIVER AT HALLOWING POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SAMP- LING DEPTH (FT)	TIME (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SiO2	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	VITRO- GEN, N2+NO3 DIS- SOLVED (MG/L) AS N	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	VITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N
OCT												
02...	--	50000		2.8	.050	1.5	.060	.090	.89	.23	.95	.32
21...	--	50000		3.3	.130	2.5	1.10	1.20	.40	.10	1.50	1.3
NOV												
18...	--	50000		.9	.040	2.1	.390	.400	.56	.47	.95	.87
DEC												
16...	--	50000		2.6	.020	2.1	.310	.320	.43	.31	.74	.63
FEB												
04...	--	50000		2.0	.030	2.6	1.50	1.50	.00	.00	1.50	1.5
MAR												
04...	--	4020		6.4	.020	2.6	--	.280	--	.34	1.20	.62
MAY												
19...	--	4020		1.7	.040	1.2	--	.340	--	.45	.99	.79
JUN												
08...	--	50000		--	.030	1.1	.290	.250	.53	.33	.82	.58
JUL												
08...	--	50000		4.6	.080	1.6	.290	.320	1.0	.55	1.30	.87
15...	--	4020		4.1	.040	1.2	.100	.140	.50	.29	.60	.43
20...	--	50000		3.6	.030	.94	.120	.070	.98	.52	1.10	.59
20...	--	50000		3.7	.030	.90	.060	.030	.65	.33	.71	.36
21...	--	50000		3.6	.030	.92	.110	.090	.68	.46	.79	.55
21...	--	50000		3.5	.050	1.2	.160	.180	.69	.54	.85	.72
22...	--	50000		3.6	.040	1.1	.130	.110	.86	.42	.97	.53
27...	--	50000		2.5	.040	.85	--	.030	--	.35	.68	.38
28...	--	4020		2.6	.050	1.1	--	.200	--	.70	1.10	.90
29...	--	50000		2.3	.030	.57	--	.030	--	.30	.84	.33
31...	--	50000		1.6	.030	.78	--	.060	--	.35	.97	.41
AUG												
03...	--	50000		1.4	.100	.96	--	.150	--	.36	.81	.51
04...	--	50000		1.6	.070	1.1	--	.180	--	.56	.80	.74
05...	--	4020		1.4	--	--	--	--	--	--	--	--
06...	--	50000		1.5	.060	.97	.170	.150	1.0	.48	1.20	.63
07...	--	50000		1.6	.060	.93	--	.220	--	.62	.95	.84
18...	--	50000		1.4	.170	.84	.070	.090	.93	.32	1.00	.41
24...	--	50000		.8	.100	.86	.040	.030	.90	.60	.94	.63
25...	--	50000		.7	.120	.87	.080	.080	.92	.38	1.00	.46
25...	--	50000		.6	.120	.89	.190	.130	.75	.47	.94	.60
26...	--	50000		.8	.120	.76	.080	.100	.70	.32	.78	.42
26...	--	50000		1.4	.100	.64	.070	.100	.57	.51	.64	.61
SEP												
10...	--	4020		.8	.160	1.1	--	.070	--	.56	.55	.63

383818077072800 - POTOMAC RIVER AT HALLOWING POINT ---Cont.

APPENDIX A-1

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT											
02...	1.8	.090	.024	5.1	--	38.3	20.3	47.6	--	--	10
21...	3.8	.091	.028	4.8	--	42.7	17.1	50.3	17	--	23
NOV											
18...	3.0	.079	.030	5.4	--	18.0	11.0	23.1	30	--	20
DEC											
16...	2.7	.158	.019	--	--	19.4	15.0	26.4	--	--	38
FEA											
04...	4.1	.130	.070	--	--	7.4	7.0	10.6	--	--	24
MAR											
04...	3.2	.096	.055	--	--	3.5	7.5	7.1	34	1.5	52
MAY											
19...	2.0	.123	.024	--	--	--	--	--	38	--	41
JUN											
08...	1.7	.071	.048	--	--	--	--	--	--	--	--
JUL											
04...	2.5	.097	.029	4.6	3.2	26.9	11.1	31.9	38	--	--
15...	1.6	.076	.019	--	--	--	--	--	--	--	27
20...	1.5	.160	.026	6.1	3.1	37.3	23.2	48.0	--	3.3	73
20...	1.3	.074	.028	6.4	3.6	58.7	19.2	67.2	--	9.6	43
21...	1.5	.093	.080	12	3.0	47.5	21.0	57.0	--	7.3	54
21...	1.9	.103	.001	4.1	2.4	32.6	11.0	37.5	--	1.0	25
22...	1.6	.120	.031	4.2	2.4	40.8	19.2	49.5	--	2.5	33
27...	1.2	.128	.035	--	--	--	--	--	--	--	--
28...	2.0	.126	.049	--	--	28.7	15.9	36.0	--	--	42
29...	.90	.141	.041	--	--	--	--	--	--	--	--
31...	1.2	.209	.089	--	--	--	--	--	--	--	--
AUG											
03...	1.5	.107	.011	--	--	--	--	--	--	--	--
04...	1.8	.139	.020	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
06...	1.6	.152	.113	5.0	3.4	37.9	15.7	44.9	--	3.0	29
07...	1.8	.136	.036	--	--	--	--	--	--	--	--
18...	1.3	.134	.038	5.7	2.9	52.9	18.3	61.0	14	--	22
24...	1.5	.116	.034	6.7	3.4	56.9	17.7	64.7	--	--	29
25...	1.3	.110	.028	5.2	3.8	55.0	17.2	62.6	--	--	30
25...	1.5	.114	.038	3.2	3.8	60.0	15.4	66.6	--	--	28
26...	1.2	.036	.009	4.1	7.3	51.2	20.9	60.6	--	9.2	33
26...	1.3	.089	.036	5.4	3.8	58.4	8.8	61.9	--	8.0	14
SEP											
10...	1.7	.073	.062	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER, 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- SECTION (FT FM L BANK)	SAMPLE									
				LOC- ATION, CROSS SECTION	SILICA, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L)
		(00003)	(00009)		(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00625)	(00607)	(00623)
SEP													
16...	0900	--	4020		1.1	.050	1.1	--	.110	--	1.00	.43	.54
22...	0825	--	4020		1.4	.100	1.6	--	.130	--	.76	.44	.57

APPENDIX A-1

383818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-		PHOS-		PHOS-	CARBON,		CARBON,		CHLORO-		PHEOPHY		CHLORO-		ALGAL		ADE-		SEDI-	
	GEN-	DIS-	TOTAL	SOLVED	DIS-	ORGANIC	ORGANIC	ORGANIC	PHYLL A	PHYLL A	FLUORO-	-TIN A	FLUORO-	PHYLL A	FLUORO-	GROWTH	POTEN-	TRI-	PHOS-	MENT,	SUS-
	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(ATP)	(UG/L)	(MG/L)	(MG/L)
	AS P)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	AS C)	AS C)	AS C)	AS C)	AS C)	AS C)	AS C)	AS C)	AS C)	AS C)	AS C)	AS C)	AS C)
	(00602)	(00665)	(00665)	(00666)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)
SFP	1.6	.143	.132	.029	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	39
16...	2.2	.132	.132	.046	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	39
22...																					

APPENDIX A-1

01655480

-- POTOMAC R AT INDIAN HEAD, MD

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(000003)	SAMPLE LOC- ATION, CROSS SECTION, (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SiO2)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N)	(00613)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N)	(00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N)	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N)	(00625)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N)	(00623)	
OCT																					
02...	1800	--	50000		2.4		.030		1.2		.060		.080		.45		.22		.51		.30
21...	1255	--	50000		1.6		.060		1.1		.120		.080		.74		.28		.86		.36
NOV																					
18...	1000	--	50000		1.0		.030		1.7		.310		.270		.33		.35		.64		.62
DEC																					
16...	1120	--	50000		2.1		.020		2.0		.280		.240		.47		.22		.75		.46
FEB																					
04...	1210	--	1500		2.2		.030		2.3		1.20		1.10		.30		.00		1.50		.82
MAR																					
04...	0750	--	1500		6.4		.020		2.6		--		.250		--		.32		.80		.57
APR																					
15...	1000	--	1500		.8		.040		3.0		--		.300		--		.05		.80		.35
MAY																					
19...	1025	--	1500		.9		.040		1.3		--		.350		--		.41		.94		.76
30...	1040	--	5300		1.4		.040		1.2		--		.350		--		.45		1.10		.80
JUN																					
08...	1130	--	50000		--		.030		.97		.160		.130		.94		.36		1.10		.49
30...	1320	--	1500		5.3		.040		1.4		--		.110		--		.42		1.70		.53
30...	1340	--	5300		5.0		.020		.97		--		<.010		--		--		.89		.49
JUL																					
08...	1640	--	50000		4.2		.070		1.4		.200		.160		1.1		.75		1.30		.91
20...	1120	--	50000		3.6		.030		.83		.080		.070		1.0		.41		1.10		.48
20...	1950	--	50000		3.6		.030		.88		.060		.050		.72		.50		.78		.55
21...	0745	--	50000		3.7		.030		.85		.100		.050		.68		.69		.78		.74
21...	1940	--	50000		3.3		.030		.87		.090		.050		1.0		.53		1.10		.58
22...	0915	--	50000		3.2		.030		.86		.120		.050		.81		.73		.93		.78
28...	0935	--	1500		2.4		.040		1.1		--		.190		--		.39		1.00		.58
28...	0955	--	5300		2.5		.030		.54		--		.050		--		.29		1.10		.34
AUG																					
06...	1700	--	50000		1.6		.050		.87		.130		.160		.87		.38		1.00		.54
18...	0950	--	50000		2.1		.140		.73		.060		.080		.90		.23		.96		.31
24...	2110	--	50000		1.5		.100		.67		.070		.060		1.0		.61		1.10		.67
25...	1000	--	50000		1.5		.110		.73		.080		.110		1.0		.64		1.10		.75
25...	1900	--	50000		1.6		.100		.64		.070		.110		.84		.60		.91		.71
26...	1015	--	50000		1.8		.100		.55		.070		.110		.91		.30		.98		.41
26...	1835	--	50000		2.6		.090		.38		.060		.090		.65		.36		.71		.45
SEP																					
22...	0755	--	1500		1.2		.070		1.1		--		.150		--		.82		.88		.97
22...	0810	--	5300		1.1		.050		.97		--		.080		--		.59		.61		.67

APPENDIX A-1

01655480 - POTOMAC R AT INDIAN HEAD, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L) AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L) AS P) (00665)	PHOS- PHORUS, DISS- SOLVED (MG/L) AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00680)	CARBON, ORGANIC DISS- SOLVED (MG/L) AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
JUL										
02...	1.5	.097	.030	5.7	--	33.3	22.7	43.9	--	16
21...	1.5	.110	.008	4.6	--	54.2	18.3	62.3	--	19
NOV										
18...	2.3	.073	.029	4.2	--	25.0	12.5	30.7	--	16
DEC										
16...	2.5	.122	.000	--	--	18.9	14.8	25.8	--	28
FEB										
04...	3.1	.110	.043	--	--	--	--	--	--	28
MAR										
04...	3.2	.079	.058	--	--	--	--	--	.7	38
APR										
15...	3.4	.123	.049	--	--	--	--	--	--	101
MAY										
19...	2.1	.108	.025	--	--	--	--	--	--	36
19...	2.0	.129	.020	--	--	--	--	--	--	47
JUN										
09...	1.5	.089	.032	--	--	--	--	--	--	--
30...	1.9	.138	.036	--	--	--	--	--	--	69
30...	1.5	.115	.014	--	--	--	--	--	--	39
JUL										
08...	2.3	.092	.034	5.6	3.1	38.7	11.1	43.5	3.4	36
08...	1.3	.121	.029	7.7	2.9	52.2	20.1	61.2	9.5	25
20...	1.4	.080	.098	6.7	3.7	57.2	22.7	67.4	--	45
21...	1.6	.078	.041	6.5	2.9	45.9	22.8	56.3	5.8	37
21...	1.5	.112	.001	6.0	2.4	55.2	17.6	62.9	5.6	--
22...	1.6	.138	.040	5.4	3.2	40.2	15.2	47.0	3.2	37
28...	1.7	.143	.050	--	--	32.3	15.0	39.1	--	42
28...	.88	.153	.035	--	--	--	--	--	--	36
AUG										
06...	1.4	.162	.042	8.7	3.3	--	--	--	3.6	18
18...	1.0	.137	.053	5.9	2.7	47.8	16.4	55.0	--	34
24...	1.3	.120	.030	7.1	3.4	52.1	17.8	60.0	--	22
25...	1.5	.116	.025	4.6	3.5	51.4	17.0	58.9	--	27
25...	1.4	.112	.043	5.6	3.4	51.3	15.2	58.0	5.4	20
26...	.96	.025	.012	4.2	4.3	47.7	21.2	57.3	6.3	30
26...	.83	.118	.046	5.0	3.6	55.3	15.5	62.1	--	22
SEP										
22...	2.1	.139	.040	4.1	--	--	--	--	--	34
22...	1.6	.126	.044	4.1	--	--	--	--	--	35

01558710 - POTOMAC RIVER AT QUANTICO, VA.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SI02	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L) AS N
		(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00625)	(00623)
OCT											
02...	1850	--	50000	2.8	.060	.48	.120	.140	.82	.94	.25
09...	1415	--	6000	--	.040	.67	--	.030	--	.91	.36
16...	0940	3.0	5000	2.0	.030	.65	--	.040	--	.49	.33
16...	0950	25.0	5000	2.0	.030	.70	--	.010	--	.51	.36
21...	1350	3.0	6000	2.2	.020	.81	.070	.050	.71	.78	.39
21...	1400	29.0	5000	2.2	.020	.68	.070	.040	.80	.87	.45
30...	1600	3.0	6000	--	.030	.96	--	.120	--	.73	.52
30...	1610	29.0	6000	--	.010	.72	--	.120	--	.76	.49
NOV											
04...	0945	3.0	50000	2.0	.020	.48	--	.130	--	.63	.49
04...	0950	25.0	50000	2.3	.020	.48	--	.250	--	1.00	1.2
04...	1030	3.0	5000	2.1	.020	.50	--	.100	--	.76	.32
04...	1045	27.0	5000	2.0	.020	.38	--	.140	--	.65	.51
10...	1200	3.0	5000	2.2	.020	1.2	--	.170	--	.73	.44
10...	1205	27.0	5000	2.4	.020	1.1	--	.180	--	.63	.40
12...	1900	3.0	5000	1.4	.030	1.5	--	.210	--	.81	.55
12...	1905	25.0	6000	1.5	.030	1.4	--	.220	--	.70	.42
13...	0715	3.0	5000	1.3	.040	1.5	--	.200	--	.59	.25
13...	0720	27.0	5000	1.8	.020	1.2	--	.180	--	.57	.37
18...	0920	3.0	5000	1.5	.020	1.2	.170	.200	.44	.61	.65
18...	0925	27.0	5000	1.6	.020	1.1	.180	.160	.62	.80	.69
25...	1140	2.0	5000	1.5	.020	1.1	--	.140	--	.55	.49
25...	1145	27.0	5000	1.6	.020	1.1	--	.140	--	.59	.52
DEC											
02...	1200	27.0	5000	1.2	.030	1.8	--	.280	--	.67	.58
02...	1210	3.0	5000	1.2	.040	2.0	--	.360	--	.62	.63
08...	1010	3.0	5000	1.0	.020	1.7	--	.130	--	.58	.32
08...	1015	27.0	5000	.9	.010	1.2	--	.030	--	.53	.33
15...	1710	27.0	5000	.8	.020	1.6	--	.160	--	.43	.49
16...	0900	3.0	5000	1.0	.020	1.7	.220	.160	.25	.47	.46
16...	0905	27.0	6000	.9	.020	1.6	.160	.160	.45	.61	.55
29...	1215	3.0	5900	1.5	.010	1.5	--	.560	--	.64	.51
29...	1230	29.0	5900	.8	.010	1.2	--	.060	--	.46	.30
JAN											
15...	1110	3.0	6900	1.6	.000	.02	--	.010	--	.88	.39
23...	1850	24.0	6900	1.6	.020	1.4	--	.230	--	.68	.35
23...	1900	3.0	6900	1.7	.020	1.5	--	.250	--	.57	.27
29...	1120	3.0	6000	1.9	.020	1.6	--	.310	--	.76	.56
29...	1130	25.0	6000	1.4	.020	1.3	--	.170	--	.41	.30
FEB											
04...	1250	2.0	5000	1.9	.020	1.8	.500	.460	.25	.75	.71

APPENDIX A-1

01658710 -- POTOMAC RIVER AT QUANTICO, VA. ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DISSOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT											
02...	.73	.105	.045	6.5	--	22.4	12.7	28.2	--	--	24
09...	1.0	.111	.021	--	--	18.8	10.0	23.3	--	--	22
16...	.98	.097	.019	--	--	41.0	15.1	47.8	--	--	3
16...	1.1	.094	.013	--	--	24.1	18.5	32.7	--	--	16
21...	1.2	.098	.032	4.2	--	--	--	--	--	--	10
21...	1.1	.134	.022	5.1	--	26.4	17.3	34.4	--	--	44
30...	1.5	.089	.036	--	--	33.4	20.4	42.8	--	--	14
30...	1.2	.092	.036	--	--	13.7	21.6	24.0	--	--	24
NOV											
04...	.97	.098	.031	--	--	32.0	8.5	35.7	--	--	16
04...	1.7	.096	.027	--	--	24.0	15.0	30.9	--	--	27
04...	.82	.070	.025	--	--	18.0	8.0	21.6	--	--	12
04...	.89	.084	.027	--	--	25.5	13.5	31.7	--	--	20
10...	1.6	.080	.027	--	--	20.1	13.2	26.2	--	--	22
10...	1.5	.135	.052	--	--	19.4	25.6	31.5	--	--	62
12...	2.1	.077	.027	--	--	23.8	14.0	30.2	--	--	17
12...	1.8	.132	.032	--	--	25.0	24.2	36.4	--	--	59
13...	1.8	.076	.017	--	--	24.0	11.8	29.4	--	--	13
13...	1.6	.073	.033	--	--	17.4	10.9	22.5	--	--	17
18...	1.9	.123	.047	5.5	--	--	--	--	--	--	6
18...	1.8	.071	.025	5.1	--	16.1	13.1	22.2	--	--	15
25...	1.6	.078	.032	--	--	17.1	5.5	19.5	--	--	27
25...	1.6	.080	.032	--	--	15.4	7.5	18.9	--	--	24
DEC											
02...	2.4	.051	.015	--	--	26.9	7.2	30.0	--	--	19
02...	2.6	.054	.030	--	--	21.5	4.8	23.5	--	--	6
08...	2.0	.066	.016	--	--	39.2	5.7	41.4	--	--	12
08...	1.5	.093	.016	--	--	40.9	10.3	45.2	--	--	24
15...	2.1	.057	.056	--	--	36.3	14.8	43.0	--	--	25
16...	2.2	.076	.011	--	--	--	--	--	--	--	16
16...	2.2	.090	.001	--	--	--	--	--	--	--	26
29...	2.0	.064	.023	--	--	14.6	8.2	18.3	--	--	10
29...	1.5	.095	.019	--	--	19.5	11.4	24.8	--	--	31
JAN											
15...	.41	.096	.031	--	--	9.8	2.6	10.9	--	--	4
23...	1.8	.093	.038	--	--	15.7	5.7	18.2	--	--	20
23...	1.4	.063	.047	--	--	14.5	3.5	16.0	--	--	12
29...	2.2	.054	.030	--	--	22.6	2.9	23.7	--	--	7
29...	1.6	.066	.010	--	--	21.4	4.2	23.1	--	--	15
FEB											
04...	2.5	.076	.010	--	--	29.8	3.7	31.1	--	--	10

APPENDIX A-1

01658710												-- POTOMAC RIVER AT QUANTICO, VA. --Cont.											
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981																							
DATE:		TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM LI BANK) (00009)	SILICA, DIS- SOLVED (MG/LI AS SI02) (00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRO- AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/LI AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)														
FER																							
04...	1255	30.0	5000	1.7	.020	.360	.350	.54															
11...	1650	26.0	6000	--	.030	--	.370	--															
11...	1655	2.0	6000	1.8	.020	--	.390	--															
17...	0930	3.0	6000	1.7	.030	--	.870	--															
17...	0935	25.0	6000	1.7	.030	--	.620	--															
23...	1615	3.0	6000	--	.040	--	.720	--															
23...	1625	26.0	6000	--	.040	--	.750	--															
24...	1400	27.0	6000	--	.040	--	.720	--															
24...	1410	3.0	6000	--	.040	--	.670	--															
25...	1550	25.0	6000	--	.020	--	.430	--															
25...	1600	3.0	6000	--	.020	--	.420	--															
27...	1340	3.0	6000	--	.020	--	.400	--															
27...	1350	28.0	6000	--	.030	--	.400	--															
MAR																							
03...	1935	--	6000	4.6	.030	--	.380	--															
04...	0700	--	6000	4.5	.030	--	.440	--															
11...	1415	--	6000	5.7	.030	--	.420	--															
18...	0900	--	6000	6.8	.020	--	.370	--															
24...	1330	--	6000	5.7	.030	--	.380	--															
APR																							
01...	1400	--	6000	6.6	.020	--	.380	--															
09...	1315	--	6000	6.0	.040	--	.370	--															
15...	1050	--	6000	3.7	<.010	--	.030	--															
16...	0920	--	6000	2.7	--	--	--	--															
22...	1300	--	6000	4.5	.030	--	.230	--															
29...	1300	--	6000	5.2	.030	--	.200	--															
MAY																							
04...	0935	--	6000	4.4	.020	--	.110	--															
12...	1500	--	5000	--	.010	--	.060	--															
19...	1120	--	6000	.2	.030	--	.060	--															
29...	1300	--	6000	.3	.020	--	.050	--															
JUN																							
01...	1700	--	6000	1.3	.030	--	.060	--															
11...	1720	--	6000	2.3	.050	--	.110	--															
15...	1000	--	6000	3.7	.030	--	.070	--															
24...	1010	--	6000	5.4	.030	--	.090	--															
30...	1415	--	6900	4.9	--	--	--	--															
JUL																							
08...	1520	--	50000	3.8	.020	.010	.010	.94															
15...	1455	--	5000	3.8	.030	--	.030	--															

APPENDIX A-1

01658710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN SOLVED (MG/L) AS N	PHOS- PHORUS, TOTAL (MG/L) AS P	PHOS- PHORUS, DIS- SOLVED (MG/L) AS P	CARBON, ORGANIC TOTAL (MG/L) AS C	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	ALGAL GROWTH POTEN- TIAL (MG/L)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L)	SEDI- MENT, SUS- PENDED (MG/L)
04...	2.2	.074	.006	--	--	26.2	6.6	29.1	--	--	21
11...	2.8	.116	.009	--	--	32.8	6.0	35.3	--	--	34
11...	2.7	.090	.013	--	--	37.2	3.2	38.3	--	--	--
17...	3.4	.069	.032	--	--	--	--	--	--	--	8
17...	3.0	.087	.042	--	--	--	--	--	--	--	17
23...	3.0	.162	.077	--	--	11.8	9.7	16.4	--	--	26
23...	2.7	.173	.059	--	--	13.8	12.0	19.4	--	--	29
24...	3.4	.160	.067	--	--	--	--	--	--	--	36
24...	3.3	.155	.073	--	--	--	--	--	--	--	23
25...	3.2	.191	.094	--	--	11.6	15.8	19.1	--	--	64
25...	3.2	.243	.079	--	--	11.9	14.2	18.6	--	--	68
27...	3.1	.180	.065	--	--	2.0	10.0	6.8	--	--	41
27...	3.0	.185	.087	--	--	3.3	10.3	8.3	--	--	96
03...	2.5	.098	.056	--	--	--	--	--	--	--	21
04...	3.2	.124	.059	--	--	--	--	--	--	--	35
11...	2.7	.216	.018	--	--	5.4	17.3	13.8	--	--	83
18...	2.5	.196	.048	--	--	--	--	--	--	--	37
24...	2.7	.130	.065	--	--	--	--	--	--	--	61
01...	3.0	.131	.038	--	--	--	--	--	--	--	97
09...	2.4	.188	.056	--	--	11.0	18.2	19.7	--	--	83
15...	1.7	.107	.043	--	--	8.7	27.9	22.1	--	--	39
16...	--	--	--	--	--	10.5	19.7	19.9	--	--	62
19...	1.9	.194	.050	--	--	13.2	22.8	24.0	--	--	86
29...	1.9	.115	.029	--	--	15.4	13.9	21.9	--	--	43
04...	1.8	.126	.035	--	--	31.1	15.8	38.3	--	--	47
12...	1.6	.130	.025	--	--	--	--	--	--	--	33
19...	1.8	.152	.022	--	--	60.8	21.9	70.5	31	--	55
28...	1.4	.121	.011	--	--	--	--	--	--	--	41
01...	1.8	.133	.035	--	--	--	--	--	--	--	45
11...	3.0	.077	.010	--	--	--	--	--	--	--	18
15...	1.3	.110	.023	--	--	--	--	--	--	--	42
24...	1.5	.119	.056	--	--	--	--	--	--	--	31
30...	--	--	.054	--	--	--	--	--	35	--	26
08...	1.4	.113	.036	4.4	2.9	45.5	14.2	51.7	27	2.6	31
15...	1.3	.134	.038	--	--	--	--	--	--	--	26

01658710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SiO2	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N
		(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00625)	(00607)
JUL											
20...	1030	--	50000	3.5	.010	.36	.080	.040	.85	.93	.43
20...	2100	--	50000	3.6	.010	.38	.040	.030	.58	.72	.31
21...	0710	--	50000	3.7	.010	.49	.090	.050	.74	.83	.24
21...	2030	--	50000	3.4	.010	.45	.040	.040	.87	.91	.44
22...	1010	--	50000	3.2	.010	.48	.070	.020	.87	.94	.40
28...	0845	--	6000	3.2	.010	.38	--	.100	--	.81	.24
AUG											
06...	1800	--	50000	3.0	.010	.41	.120	.110	.85	.97	.41
17...	1745	--	6000	3.7	.050	.39	--	.080	--	1.10	.27
18...	0900	--	6900	4.2	.060	.33	.030	.040	.66	.69	.32
24...	2230	--	50000	3.9	.100	.32	.050	.050	1.1	1.10	.45
25...	1045	--	50000	3.7	.110	.32	.060	.080	.48	.54	.49
25...	1800	--	50000	3.7	.100	.31	.030	.050	.76	.79	.49
26...	1100	--	50000	3.9	.080	.28	.090	.080	.78	.87	.28
26...	1730	--	50000	4.4	.100	.26	.130	.070	.25	.38	.09
SEP											
03...	0845	--	6000	4.0	.070	.22	--	.080	--	1.20	.39
10...	1025	--	6000	3.3	.070	.29	--	.130	--	.85	.51
15...	0715	--	6000	2.7	.040	.37	--	.110	--	.54	.22
1800	1800	3.0	6000	2.2	.030	.69	--	.130	--	.96	.62
21...	1805	26.0	6000	2.7	.030	.51	--	.190	--	.76	.04
22...	0705	26.0	6000	2.8	.030	.57	--	.160	--	.85	.37
22...	0710	3.0	6000	2.6	.040	.73	--	.160	--	1.00	.29

01658710 -- POTOMAC RIVER AT QUANTICO, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
JUL											
20...	.83	.126	.039	6.4	3.1	37.0	14.9	43.7	--	4.9	24
20...	.72	.090	.048	6.1	2.2	39.2	17.6	47.1	--	5.0	36
21...	.78	.077	.048	8.2	2.4	36.3	19.5	45.2	--	3.0	28
21...	.93	.151	.045	4.4	2.4	46.6	18.5	54.9	--	5.8	27
22...	.90	.179	.055	5.9	3.1	39.6	19.5	48.5	--	3.7	47
28...	.72	.139	.073	--	--	--	--	--	--	--	23
AUG											
06...	.93	.134	.062	6.2	4.0	28.5	18.0	36.8	--	3.5	26
17...	.74	.131	.055	--	--	--	--	--	--	--	18
18...	.69	.152	.085	5.2	1.8	--	--	--	19	--	36
24...	.82	.120	.058	4.6	2.7	34.1	17.4	42.1	--	--	20
25...	.89	.133	.047	8.1	2.9	30.8	17.9	39.0	--	--	25
25...	.85	.121	.064	14	3.3	36.0	15.0	42.8	--	4.2	20
26...	.64	.159	.051	4.4	4.3	32.8	18.9	41.5	--	--	27
26...	.42	.057	.071	5.9	2.0	23.2	16.4	30.8	--	4.3	27
SEP											
03...	.69	.134	.047	--	--	--	--	--	--	--	34
10...	.93	.082	.050	--	--	--	--	--	--	--	29
16...	.70	.172	.056	--	--	--	--	--	--	--	41
21...	1.4	.197	.050	6.0	--	--	--	--	--	--	77
21...	.74	.197	.068	6.2	--	14.1	33.7	30.2	--	--	47
22...	1.1	.237	.070	4.3	--	19.3	55.2	45.8	--	--	93
22...	1.2	.185	.062	4.3	--	--	--	--	--	--	72

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LOC- TION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SiO2	NITRO- GEN, NITRITE DISELVED (MG/L) AS N	NITRO- GEN, NITRO- AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N
OCT										
21...	1535	3.0	2000	3.3	.010	.44	.040	.42	.52	.46
21...	1540	20.0	2000	3.5	.020	.44	.040	.17	.38	.21
21...	1605	--	11700	3.0	.020	.44	.020	.27	.71	.29
NOV										
17...	1845	2.0	2000	2.0	.010	.91	.130	.29	.44	.42
17...	1850	17.0	2000	2.2	.010	.62	.100	.23	.55	.33
18...	0840	2.0	2000	1.9	.020	.93	.140	.44	.63	.58
18...	0845	21.0	2000	2.1	.010	.77	.120	.48	.61	.60
18...	0900	--	11700	1.9	.020	1.0	.150	.38	.77	.53
DEC										
15...	1620	2.0	2000	.5	.020	1.3	.050	.22	.53	.27
15...	1625	15.0	2000	.4	.010	1.2	.010	.26	.45	.27
15...	1640	--	11700	.2	.020	1.3	.000	.24	.53	.24
FER										
04...	1400	2.0	2000	1.6	.020	1.5	.210	.24	.90	.45
04...	1405	26.0	2000	1.4	.020	1.4	.140	.30	.70	.44
04...	1420	--	11700	1.6	<.010	.01	.060	.42	.76	.48
MAR										
03...	1830	3.0	2000	3.6	.030	1.9	.390	.12	.81	.51
03...	1835	20.0	2000	3.5	.030	2.0	.380	.04	.78	.42
03...	1900	--	11700	4.0	.030	2.0	.370	.28	.84	.65
APR										
15...	1300	23.0	2000	4.5	.040	1.9	.450	.00	.61	.43
15...	1305	2.0	2000	4.2	.040	1.9	.480	.00	.83	.20
15...	1330	--	11700	5.0	.040	1.9	.390	.21	.52	.60
MAY										
19...	1250	20.0	2000	1.0	<.010	.01	.050	.23	.53	.28
19...	1255	2.0	2000	1.0	.020	1.1	.080	.47	.73	.55
19...	1320	--	11700	.4	<.010	.01	.030	.43	.91	.46
JUN										
30...	1535	2.0	2000	4.6	<.010	.72	<.010	--	.75	.42
30...	1540	24.0	2000	4.5	<.010	.68	.030	.39	1.20	.42
30...	1615	--	11700	4.2	<.010	.23	<.010	--	1.20	.33
JUL										
27...	2025	3.0	2000	3.3	<.010	.31	.010	.42	.99	.43
27...	2030	25.0	2000	3.4	<.010	.26	.050	.24	.63	.29
28...	0755	3.0	2000	3.5	<.010	.29	.030	.46	.76	.49
28...	0800	25.0	2000	3.5	<.010	.25	.030	.25	.78	.28
28...	0815	--	11700	3.3	<.010	.30	.070	.78	.95	.85
AUG										
17...	1700	3.0	2000	4.1	.050	.31	.050	.24	.71	.29

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DISSOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (UG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT											
21...	.90	.073	.046	4.9	--	--	--	--	--	--	12
21...	.65	.104	.054	5.1	--	13.0	8.6	17.0	--	--	46
21...	.73	.086	.028	4.9	--	27.8	13.1	33.7	--	--	27
NOV											
17...	1.3	.048	.037	--	--	10.2	4.6	12.3	--	--	5
17...	.95	.083	.105	--	--	12.9	5.1	15.2	--	--	9
18...	1.5	.057	.031	--	--	12.6	7.3	15.9	--	--	9
18...	1.4	.063	.031	--	--	9.8	8.3	13.6	--	--	9
18...	1.5	.071	.027	--	--	--	--	--	--	--	17
DEC											
15...	1.6	.065	.023	--	--	67.3	11.1	71.7	--	--	16
15...	1.5	.058	.023	--	--	37.8	8.0	41.1	--	--	17
15...	1.5	.111	.003	--	--	--	--	--	--	--	26
FER											
04...	2.0	.077	.004	--	--	50.4	2.6	50.9	--	--	13
04...	1.8	.049	.008	--	--	31.9	5.9	34.4	--	--	9
04...	.49	.056	.006	--	--	--	--	--	--	--	9
MAR											
03...	2.4	.110	.055	--	--	10.0	10.9	15.1	--	3.7	18
03...	2.4	.111	.053	--	--	9.7	7.6	13.2	--	1.7	18
03...	2.7	.104	.057	--	--	--	--	--	--	--	22
APR											
15...	2.3	.088	.042	--	--	7.5	20.1	17.1	--	--	88
15...	2.1	.100	.043	--	--	8.6	19.2	17.8	--	--	82
15...	2.5	.132	.043	--	--	--	--	--	--	--	36
MAY											
19...	.29	.018	.004	--	--	20.9	23.1	31.8	--	--	58
19...	1.7	.136	.034	--	--	34.5	23.2	45.3	--	--	47
19...	.47	.173	.020	--	--	--	--	--	--	--	65
JUN											
30...	1.1	.117	.054	--	--	42.4	11.0	47.1	--	--	22
30...	1.1	.229	.074	--	--	17.8	33.2	33.6	--	--	114
30...	.56	.189	.052	--	--	--	--	--	--	--	61
JUL											
27...	.74	.147	.053	--	--	--	--	--	--	--	43
27...	.55	.200	.047	--	--	--	--	--	--	--	31
28...	.78	.139	.043	--	--	--	--	--	--	--	18
28...	.53	.156	.048	--	--	23.3	16.4	30.9	--	--	38
28...	1.2	.204	.113	--	--	--	--	--	--	--	57
AUG											
17...	.60	.122	.076	--	--	--	--	--	--	--	10

APPENDIX A-1
382640077159900 - POTOMAC RIVER AT DOUGLAS POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED AS SID2)	NITRO- GEN, NITRITE DIS- SOLVED AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)
		(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00625)	(00623)
AUG	1705	24.0	2000	4.4	.080	.30	--	.040	--	.48	.42
17...	1725	--	11700	4.1	.040	.32	--	.080	--	.80	.54
SEP	21...	3.0	2000	3.6	.040	.43	--	.120	--	.61	.64
21...	1735	20.0	2000	4.0	.070	.53	--	.090	--	.61	.51
21...	1745	--	11700	3.6	.040	.43	--	.120	--	.59	.64

APPENDIX A-1

392640077159900 - POTOMAC RIVER AT DOUGLAS POINT --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00465)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00566)	CARRON, ORGANIC TOTAL (MG/L AS C) (00480)	CARRON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A, FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
AUG 17...	.72	.139	.073	--	--	9.3	18.8	18.3	--	--	22
17...	.86	.179	.084	--	--	--	--	--	--	--	36
SEP 21...	1.1	.122	.083	3.0	--	--	--	--	--	--	16
21...	1.0	.151	.098	3.3	--	6.7	18.3	15.5	--	--	41
21...	1.1	.135	.080	3.7	--	--	--	--	--	--	29

382233077102000 - POTOMAC RIVER AT STUART WHARF											
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981											
DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SI(2)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	NITRO- GEN, NITRATE DIS- SOLVED (MG/L) AS N	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N	NITRO- GEN, AMMONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN, AMMONIA + ORGANIC TOTAL (MG/L) AS N
		(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)	(00623)
OCT											
21...	1640	3.0	3600	4.0	.020	.26	--	.080	--	.16	.24
21...	1645	16.0	3600	3.8	.020	.17	--	.090	--	.16	.25
NOV											
17...	1800	2.0	3600	2.0	.010	.35	--	.060	--	.22	.28
17...	1805	25.0	3600	1.7	.000	.19	--	.040	--	.04	.08
DEC											
15...	1535	2.0	3600	.4	.010	.62	--	.050	--	.07	.12
15...	1540	20.0	3600	.3	.010	.45	--	.080	--	.11	.19
FER											
04...	1500	2.0	3600	.8	.010	.84	--	.040	--	.32	.36
04...	1505	20.0	3600	.5	.010	.70	--	.050	--	.24	.29
MAR											
03...	1740	2.0	3600	2.4	.020	1.6	--	.320	--	.15	.47
03...	1745	23.0	3600	.5	.010	.52	--	.110	--	.09	.20
18...	1015	2.0	3600	3.1	.020	1.2	--	.330	--	.08	.41
18...	1020	22.0	3600	2.7	.020	1.1	--	.320	--	.00	.26
APR											
15...	1410	2.0	3600	5.0	.040	1.9	--	.350	--	.02	.37
15...	1415	23.0	3500	5.0	.040	1.8	--	.330	--	.00	.28
MAY											
19...	1400	2.0	3600	1.5	.010	.82	--	.090	--	.26	.35
19...	1405	26.0	3600	1.4	.060	.82	--	.110	--	.31	.42
JUN											
30...	1715	2.0	3600	4.2	.010	.38	--	.130	--	.57	.70
30...	1720	24.0	3600	4.2	.010	.33	--	.130	--	.58	.71
JUL											
27...	1925	3.0	3600	3.6	.010	.28	--	.080	--	.22	.30
27...	1930	26.0	3600	3.9	.020	.14	--	.220	--	.18	.40
AUG											
17...	1620	3.0	3600	4.9	.180	.32	--	.080	--	.60	.68
17...	1625	26.0	3500	5.0	.210	.33	--	.050	--	.27	.32
SEP											
21...	1630	22.0	3600	4.7	.160	.41	--	.020	--	.60	.62
21...	1635	3.0	3600	4.8	.140	.40	--	.010	--	.48	.49

APPENDIX A-1
382233077102000 - POTOMAC RIVER AT STUART WHARF --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT											
21...	.50	.062	.051	3.8	--	--	--	13.7	--	--	4
21...	.42	.284	.058	5.4	--	4.0	20.0	--	--	--	87
NOV											
17...	.63	.058	.039	--	--	9.1	5.0	11.4	--	--	9
17...	.27	.102	.035	--	--	10.0	11.6	15.5	--	--	33
DEC											
15...	.74	.064	.021	--	--	14.4	10.0	19.0	--	--	13
15...	.64	.104	.021	--	--	12.9	9.1	17.1	--	--	30
FEB											
04...	1.2	.060	.009	--	--	34.1	4.8	35.9	--	--	15
04...	.99	.155	.005	--	--	34.1	13.5	52.8	--	--	86
MAR											
03...	2.1	.089	.027	--	--	35.0	5.6	37.2	--	5.8	14
03...	.72	.110	.015	--	--	73.2	15.8	79.8	--	18	15
18...	1.6	.149	.029	--	--	21.3	8.6	25.2	--	--	25
18...	1.4	.179	.027	--	--	20.6	25.7	32.8	--	--	68
APR											
15...	2.3	.070	.049	--	--	5.5	10.8	10.6	--	--	--
15...	2.1	.102	.051	--	--	7.4	16.3	15.1	--	--	53
MAY											
19...	1.2	.119	.031	--	--	37.4	12.4	42.8	--	--	33
19...	1.4	.160	.033	--	--	17.2	21.4	27.3	--	--	63
JUN											
30...	1.1	.121	.076	--	--	15.5	6.0	18.2	--	--	29
30...	1.0	.139	.080	--	--	6.8	18.3	15.6	--	--	50
JUL											
27...	.58	.100	.067	--	--	--	--	--	--	--	20
27...	.54	.118	.073	--	--	11.1	25.5	23.3	--	--	29
AUG											
17...	1.0	.125	.086	--	--	--	--	--	--	--	20
17...	.65	.155	.108	--	--	5.8	21.1	16.0	--	--	43
SEP											
21...	1.0	.153	.087	--	--	3.7	9.4	8.2	--	--	43
21...	.89	.124	.089	--	--	--	--	--	--	--	27

APPENDIX A-1

01660800 - POTOMAC R NR MORGANTOWN, MD

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(000009)	SILICA, DIS- SOLVED (MG/L) AS SiO2)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N)	(00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N)	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N)	(00608)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N)	(00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N)	(00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N)	(00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L) AS N)	(00623)
OCT																							
01...	1800	3.0		1500		5.0		.150		.29		.010		.030		.38		.25		.39		.28	
01...	1805	59.0		1500		4.8		.140		.28		.030		.040		.37		.25		.40		.29	
09...	1120	3.0		1500		4.8		.090		.26		--		.050		--		.15		.46		.20	
09...	1125	65.0		1500		4.7		.080		.22		--		.050		--		.16		.49		.21	
14...	1530	3.0		1500		4.3		.050		.28		--		.030		--		.25		.50		.28	
14...	1535	70.0		1500		4.0		.030		.17		--		.020		--		.19		.29		.21	
21...	1735	2.0		1500		3.4		.020		.12		--		.030		--		.15		.42		.18	
21...	1740	67.0		1500		2.9		.010		.05		--		.090		--		.16		.35		.25	
27...	1315	3.0		1500		--		.010		.17		--		.130		--		.15		.58		.28	
27...	1320	52.0		1500		--		.010		.27		--		.100		--		.30		.70		.40	
NOV																							
05...	1600	57.0		1500		--		.010		.07		--		.070		--		.17		.40		.24	
05...	1605	2.0		1500		--		.010		.17		--		.090		--		.25		.35		.34	
13...	0720	2.0		1500		.9		.010		.03		--		.050		--		.11		.24		.16	
13...	0725	67.0		1500		2.0		.010		1.6		--		.090		--		.10		.24		.19	
17...	1705	2.0		1500		1.4		.000		.09		--		.000		--		.01		.44		.01	
17...	1710	61.0		1500		.9		.000		.02		--		.020		--		.00		.36		.02	
28...	1430	70.0		1500		.3		.000		.05		--		.000		--		.06		.13		.06	
28...	1440	3.0		1500		1.1		.010		.26		--		.030		--		.12		.16		.15	
DEC																							
04...	1340	60.0		1500		.5		.010		.23		--		.040		--		.15		.11		.19	
04...	1345	3.0		1500		.8		.010		.36		--		.030		--		.06		.30		.09	
09...	1620	2.0		1500		.4		.010		.32		--		.000		--		.11		.08		.11	
09...	1625	61.0		1500		.2		.010		.05		--		.010		--		.00		.07		.01	
15...	1435	2.0		1500		.2		.010		.23		--		.010		--		.31		.31		.32	
15...	1440	68.0		1500		.2		.010		.10		--		.050		--		.15		.07		.20	
JAN																							
02...	1410	3.0		1500		.2		.010		.35		--		.010		--		.18		.29		.19	
02...	1420	69.0		1500		.1		.010		.07		--		.050		--		.13		.27		.18	
22...	0910	2.0		1500		--		<.010		.22		--		.010		--		.20		.16		.21	
22...	0915	60.0		1500		.1		<.010		.19		--		.020		--		.08		.18		.10	
FEB																							
04...	1610	2.0		1500		.3		<.010		.47		--		<.010		--		--		.15		.14	
04...	1615	72.0		1500		.0		<.010		.26		--		.190		--		.09		.31		.28	
13...	1200	58.0		1500		.1		<.010		.36		--		.010		--		--		.10		<.10	
13...	1210	3.0		1500		.3		<.010		.49		--		<.010		--		--		.34		<.10	
19...	1345	57.0		1500		.1		<.010		.21		--		.010		--		--		.58		<.10	
19...	1355	3.0		1500		.5		<.010		.56		--		<.010		--		--		.40		.25	
26...	1630	59.0		1500		--		<.010		.37		--		.040		--		.39		.65		.43	
26...	1640	3.0		1500		--		.020		1.5		--		.210		--		.12		.74		.33	

APPENDIX A-1

01660800 - POTOMAC R NR MORGANTOWN, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT											
01...	.57	.105	.085	--	--	7.0	3.4	8.6	--	--	9
01...	.57	.107	.085	--	--	2.8	5.9	5.6	--	--	24
09...	.46	.091	.068	--	--	7.5	3.5	9.1	--	--	2
03...	.43	.126	.066	--	--	5.8	10.0	10.6	--	--	44
14...	.56	.059	.053	--	--	12.2	3.3	13.6	--	--	5
14...	.38	.058	.042	--	--	6.2	3.8	7.9	--	--	9
21...	.30	.053	.044	4.9	--	25.7	3.5	27.0	--	--	3
21...	.30	.056	.034	4.8	--	8.2	4.2	10.2	--	--	20
27...	.45	.130	.049	--	--	6.8	11.4	12.2	--	--	43
27...	.67	.075	.057	--	--	6.0	2.7	7.2	--	--	9
NOV											
05...	.31	.053	.024	--	--	8.6	8.9	12.8	--	--	11
05...	.51	.070	.061	--	--	11.4	2.6	12.5	--	--	3
13...	.19	.075	.018	--	--	18.9	2.5	19.8	--	--	4
13...	1.8	.053	.038	--	--	26.7	14.5	33.3	--	--	29
17...	.10	.042	.022	--	--	15.0	4.6	17.0	--	--	3
17...	.04	.054	.023	--	--	14.3	7.3	17.6	--	--	12
24...	.11	.066	.012	--	--	38.8	8.1	42.2	--	--	18
28...	.41	.054	.020	--	--	34.5	-5	33.8	--	--	34
DEC											
04...	.42	.083	.013	--	--	23.1	7.3	26.3	--	--	24
04...	.45	.047	.009	--	--	26.1	3.3	27.3	--	--	12
09...	.43	.046	.011	--	--	10.5	3.2	11.9	--	--	9
09...	.06	.095	.013	--	--	13.0	10.0	17.6	--	--	31
15...	.55	.038	.019	--	--	24.3	6.0	26.9	--	--	8
15...	.30	.085	.061	--	--	24.0	13.1	30.0	--	--	10
JAN											
02...	.54	.048	.019	--	--	16.2	4.1	18.0	--	--	3
02...	.25	.113	.062	--	--	27.2	13.4	33.4	--	--	45
22...	.43	.051	.021	--	--	17.3	2.4	18.3	--	--	7
22...	.29	.056	.020	--	--	27.2	4.0	28.7	--	--	6
FEB											
04...	.61	.035	.006	--	--	24.7	2.6	25.6	--	--	6
04...	.54	.075	.005	--	--	28.6	5.9	31.0	--	--	25
13...	--	.018	.008	--	--	14.5	13.5	20.8	--	--	11
13...	--	.047	.007	--	--	4.4	4.2	6.3	--	--	5
19...	--	.089	.008	--	--	50.6	19.2	59.1	--	--	30
19...	.81	.080	.010	--	--	45.6	2.6	46.2	--	--	3
26...	.80	.064	.055	--	--	73.8	6.1	75.6	--	--	6
26...	1.8	.054	.026	--	--	51.7	5.8	53.8	--	--	7

APPENDIX A-1

01660800 -- POTOMAC R NR MORGANTOWN, MD ---Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM LI BANK) (00009)	SILICA, DIS- SOLVED (MG/L) AS SI02 (00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N (00623)
MAR												
03...	1630	3.0	1500	1.4	.020	1.1	.160	.150	.39	.17	.55	.32
03...	1635	70.0	1500	.2	.010	.31	.040	.040	.38	.10	.42	.14
09...	1145	3.0	1500	1.0	.010	.70	--	.070	--	.20	.89	.27
09...	1150	57.0	1500	.7	.010	.51	--	.070	--	.30	1.10	.37
18...	1050	2.0	1500	2.1	.020	.88	--	.190	--	.06	.50	.25
18...	1055	72.0	1500	1.1	.010	.58	--	.090	--	.22	.56	.31
26...	1445	3.0	1500	2.2	.020	.79	--	.180	--	.29	.65	.47
26...	1455	61.0	1500	1.1	.020	.49	--	.050	--	.20	.87	.25
APR												
02...	1900	56.0	1500	1.6	.020	.53	--	.190	--	.39	.95	.58
02...	1910	3.0	1500	2.3	.020	.76	--	.280	--	.39	1.30	.67
07...	1220	63.0	1500	2.3	.020	.65	--	.320	--	.31	1.20	.63
07...	1230	3.0	1500	3.2	.030	.94	--	.330	--	.30	.87	.63
15...	1510	2.0	1500	4.7	.040	1.3	--	.400	--	.00	.65	.39
15...	1515	68.0	1500	2.4	.030	.63	--	.300	--	.00	.61	.30
23...	1325	3.0	1500	3.5	.020	.51	--	.160	--	.46	.79	.62
23...	1330	62.0	1500	1.6	.030	.45	--	.130	--	.27	1.00	.40
30...	1330	2.0	1500	1.7	.030	.72	--	.040	--	.26	.69	.30
30...	1340	59.0	1500	.6	.020	.22	--	.220	--	.15	.90	.37
MAY												
04...	1350	3.0	1500	1.6	.020	.59	--	.070	--	.23	.82	.30
04...	1355	69.0	1500	.9	.020	.37	--	.070	--	.28	.81	.35
11...	1220	58.0	1500	.7	.020	.33	--	.100	--	.64	.85	.74
11...	1230	2.0	1500	.5	.020	.36	--	.050	--	.56	.95	.61
19...	1455	78.0	1500	.3	.210	.19	--	.110	--	.27	.72	.38
19...	1500	2.0	1500	.4	.020	.58	--	.320	--	.02	.76	.34
28...	1335	57.0	1500	1.5	<.010	.13	--	.100	--	.44	.73	.54
28...	1345	2.0	1500	1.4	.010	.27	--	.040	--	.36	.70	.40
JUN												
01...	1420	79.0	1500	.5	.010	.10	--	.100	--	.49	.83	.59
01...	1430	2.0	1500	2.1	.010	.39	--	.080	--	.34	.69	.42
09...	1122	64.0	1500	2.6	.010	.11	--	.190	--	.42	.63	.61
09...	1125	2.0	1500	2.7	.010	.28	--	.040	--	.32	1.20	.36
15...	1440	56.0	1500	2.6	<.010	.01	--	.200	--	.14	--	.34
15...	1450	2.0	1500	3.8	.010	.42	--	.030	--	.22	1.10	.25
25...	1130	58.0	1500	--	<.010	.01	--	.430	--	.35	.80	.78
25...	1140	2.0	1500	3.7	.020	.15	--	.030	--	.38	.81	.41
30...	1900	2.0	1500	3.7	<.010	.10	--	.050	--	.36	.79	.41
30...	1910	68.0	1500	3.4	<.010	.03	--	.140	--	.28	.81	.42
JUL												
07...	1620	59.0	1500	4.1	<.010	.07	--	.220	--	.48	.87	.70

APPENDIX A-1

01560800 - POTOMAC R NR MORGANTOWN, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLOUR- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
MAR											
03...	1.4	.064	.011	--	--	48.2	2.6	48.8	--	10	5
03...	.45	.079	.017	--	--	99.6	15.8	106	--	--	5
09...	.97	.066	.015	--	--	44.5	5.1	46.4	--	--	9
09...	.88	.057	.016	--	--	57.4	10.6	61.7	--	--	26
18...	1.1	.086	.017	--	--	35.9	6.7	38.6	--	--	17
18...	.89	.085	.013	--	--	41.1	6.7	43.8	--	--	14
26...	1.3	.056	.027	--	--	17.3	2.9	18.4	--	--	9
26...	.74	.053	.020	--	--	27.4	6.2	30.0	--	--	12
APR											
02...	1.1	.058	.009	--	--	12.0	11.1	17.2	--	--	20
02...	1.4	.056	.021	--	--	4.8	4.5	6.9	--	--	10
07...	1.3	.177	.031	--	--	5.7	42.2	26.0	--	--	104
07...	1.6	.079	.036	--	--	4.9	6.7	8.1	--	--	29
15...	1.7	.075	.050	--	--	2.1	5.3	4.6	--	--	20
15...	.93	.059	.029	--	--	11.2	18.0	19.8	--	--	52
23...	1.1	.077	.021	--	--	32.7	7.3	35.8	--	--	14
23...	.85	.094	.005	--	--	65.0	23.6	75.5	--	--	39
30...	1.0	.056	.002	--	--	52.5	4.9	54.1	--	--	10
30...	.59	.096	.003	--	--	96.2	40.1	114	--	--	44
MAY											
04...	.89	.070	.010	--	--	47.4	7.6	50.4	--	--	18
04...	.72	.052	.004	--	--	62.3	11.4	66.9	--	--	24
11...	1.1	.055	.001	--	--	20.0	8.7	23.9	--	--	25
11...	.97	.060	<.001	--	--	39.4	11.5	44.4	--	--	11
19...	.57	.064	.008	--	--	33.8	15.7	41.0	--	--	13
19...	.92	.053	<.001	--	--	44.2	12.2	49.4	--	--	11
28...	.67	.042	.012	--	--	6.1	3.1	7.5	--	--	6
28...	.67	.048	.016	--	--	92.7	6.2	94.4	--	--	7
JUN											
01...	.69	.042	.036	--	--	21.8	3.5	23.1	--	--	8
01...	.81	.095	.022	--	--	46.2	5.5	48.2	--	--	14
09...	.72	.061	.039	--	--	2.4	3.4	4.0	--	--	6
09...	.64	.116	.014	--	--	71.1	10.1	75.0	--	--	8
15...	.35	<.001	--	--	--	2.6	5.9	5.5	--	--	11
15...	.67	.156	.056	--	--	20.9	5.0	23.0	--	--	9
25...	.79	.191	.167	--	--	2.9	5.7	5.6	--	--	15
25...	.56	.112	.043	--	--	260	-23.0	245	--	--	8
30...	.51	.103	.064	--	--	28.6	5.3	30.8	--	--	9
30...	.45	.141	.081	--	--	17.4	7.3	20.7	--	--	28
JUL											
07...	.77	.093	.050	--	--	6.1	32.5	21.8	--	--	18

01660800

- POTOMAC R NR MORGANTOWN, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	SILICA, DIS- SOLVED (MG/L) AS SI02) (00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N) (00613)	NITRO- GEN, NITRO- AMMONIA TOTAL (MG/L) AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N) (00623)
JUL											
07...	1630	2.0	1500	4.5	.010	--	.110	--	.48	.80	.59
15...	1315	2.0	1500	3.7	<.010	--	.020	--	.14	.38	.16
15...	1320	78.0	1500	3.2	<.010	--	.100	--	.26	.54	.36
24...	1045	63.0	1500	3.6	<.010	--	.050	--	.38	.55	.43
24...	1055	2.0	1500	3.7	<.010	--	.040	--	.32	.55	.36
27...	1830	1.6	1500	4.2	<.010	--	.090	--	.52	.70	.61
27...	1835	67.0	1500	3.9	<.010	--	.170	--	.00	.95	.14
AUG											
07...	1100	2.0	1500	4.4	<.010	--	.080	--	.27	.55	.35
07...	1110	57.0	1500	4.0	<.010	--	.070	--	.33	.59	.40
14...	1145	56.0	1500	4.2	.030	--	.100	--	.25	.41	.35
14...	1155	2.0	1500	4.7	.090	--	.030	--	.29	.59	.32
17...	1530	3.0	1500	4.6	.120	--	.060	--	.24	.51	.30
17...	1535	70.0	1500	4.4	.080	--	.070	--	.27	.50	.34
28...	1020	55.0	1500	5.1	.150	--	.100	--	.39	.37	.49
28...	1030	3.0	1500	5.0	.170	--	.040	--	.51	.51	.95
SEP											
02...	1530	59.0	1500	4.6	.180	--	.030	--	.42	--	.45
02...	1540	3.0	1500	4.7	.180	--	.020	--	.42	.51	.44
10...	1220	3.0	1500	4.7	.160	--	<.010	--	--	.42	.36
10...	1225	57.0	1500	4.1	.100	--	.080	--	.45	.60	.53
17...	1350	3.0	1500	4.3	.140	--	.010	--	--	.38	.10
17...	1400	62.0	1500	3.5	.110	--	.130	--	.04	.38	.17
21...	1550	3.0	1500	4.2	.150	--	.030	--	.43	.47	.46
21...	1555	67.0	1500	3.9	.150	--	.040	--	.48	.44	.52

APPENDIX A-1

01660800 - POTOMAC R NR MORGANTOWN, MD ---Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
JUL											
07...	.87	.103	.060	--	--	22.4	3.8	23.8	--	--	15
15...	.22	.084	.028	--	--	27.6	5.2	29.8	--	--	13
15...	--	.144	.105	--	--	2.5	5.5	5.2	--	--	16
24...	.46	.125	<.001	--	--	8.5	11.5	13.9	--	--	30
24...	.41	.114	<.001	--	--	83.0	4.6	84.0	--	--	10
27...	.70	.098	.049	--	--	13.7	4.1	15.5	--	--	9
27...	.18	.158	.058	--	--	4.2	12.4	10.2	--	--	9
AUG											
07...	.44	.096	.061	--	--	11.2	5.5	13.8	--	--	13
07...	.41	.074	.046	--	--	1.4	4.5	3.6	--	--	9
14...	.39	.109	.096	--	--	1.6	5.9	4.5	--	--	8
14...	.43	.095	.065	--	--	18.1	4.8	20.2	--	--	11
17...	.47	.111	.086	--	--	--	--	--	--	--	14
17...	.44	.152	.097	--	--	4.6	10.5	9.6	--	--	42
28...	.85	.110	.073	--	--	4.3	7.1	7.7	--	--	28
28...	.95	.110	.080	--	--	--	--	--	--	--	15
SEP											
02...	.89	--	.060	--	--	3.4	5.2	5.9	--	--	20
02...	.87	.094	.077	--	--	--	--	--	--	--	14
10...	.74	.072	.072	--	--	--	--	--	--	--	11
10...	.77	.057	.054	--	--	2.7	16.2	10.5	--	--	31
17...	--	.082	.062	--	--	--	--	--	--	--	13
17...	.46	.055	.048	--	--	2.6	5.1	5.1	--	--	15
21...	.84	.091	.073	--	--	--	--	--	--	--	15
21...	.87	.090	.070	2.7	2.0	3.0	4.3	5.0	--	--	15

APPENDIX A-1

381516076503000 - POTOMAC RIVER AT COBB ISLAND

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING DEPTH (FT)	LOC- TION, CROSS SECTION	SILICA, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L)	NITRO- GEN, AMMONIA TOTAL (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L)
		(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)	(00625)	(00623)
OCT												
21...	1840	2.0	6600	2.7	.000	.01	--	.030	--	.22	.46	.25
21...	1845	23.0	6600	1.4	.010	.03	--	.090	--	.03	.34	.12
22...	0820	2.0	6600	2.9	.000	.02	--	.000	--	.21	.35	.21
22...	0825	18.0	6600	1.6	.010	.02	--	.040	--	.03	.26	.07
22...	0845	2.0	20100	3.0	.010	.00	--	.030	--	.27	.52	.30
22...	0850	20.0	20100	2.3	.010	.00	--	.040	--	.23	.40	.27
NOV												
17...	1540	2.0	6600	1.2	.000	.03	--	.010	--	.05	.29	.06
17...	1545	21.0	6600	.7	.010	.04	--	.030	--	.14	.29	.17
17...	1605	2.0	20100	1.4	.000	.01	--	.000	--	.26	.39	.26
17...	1610	17.0	20100	1.2	.000	.01	--	.030	--	.26	.39	.29
DEC												
15...	1320	2.0	6600	.0	.020	.09	--	.050	--	.17	.02	.22
15...	1325	22.0	6600	.1	.010	.07	--	.060	--	.19	.08	.25
15...	1350	2.0	20100	.0	.010	.10	--	.040	--	.15	.01	.19
15...	1355	15.0	20100	.1	.010	.10	--	.040	--	.17	.94	.21
JAN												
22...	1110	2.0	6600	.0	<.010	.21	--	<.010	--	--	.16	.21
22...	1115	24.0	6600	.0	<.010	.08	--	.020	--	.14	.26	.16
22...	1125	2.0	20100	.0	<.010	.21	--	<.010	--	--	.26	.18
22...	1130	15.0	20100	.1	<.010	.14	--	.010	--	.13	.11	.14
FEB												
04...	1715	18.0	20100	.1	<.010	.13	--	.040	--	.19	.57	.23
04...	1720	2.0	20100	.1	<.010	.13	--	.030	--	.31	.45	.34
04...	1735	2.0	6600	.0	<.010	.13	--	.050	--	.03	<.10	.08
04...	1740	23.0	6600	.1	<.010	.07	--	.040	--	.22	.41	.26
05...	0825	23.0	6600	.0	<.010	.12	--	.030	--	.26	.36	.29
05...	0830	2.0	6600	.0	<.010	.16	--	.050	--	.19	.34	.24
MAR												
03...	1445	3.0	6600	<.1	<.010	.12	--	.050	--	.08	.30	.13
03...	1450	23.0	6600	.1	<.010	.13	--	.030	--	.08	.35	.11
03...	1510	3.0	20100	.5	.010	.76	--	.030	--	.20	.38	.23
03...	1515	15.0	20100	.5	.010	.63	--	.050	--	.17	.27	.22
03...	1550	2.0	20100	.9	.010	.59	--	.060	--	.27	.63	.33
18...	1150	18.0	20100	.8	.010	.54	--	.060	--	.14	.34	.20
18...	1155	2.0	20100	.2	<.010	.37	--	.010	--	.24	.23	.25
18...	1210	2.0	6600	.2	<.010	.37	--	.030	--	.15	.17	.18
18...	1215	24.0	6600	.2	.010	.37	--	.030	--	.15	.17	.18
APR												
02...	1720	19.0	6600	.7	<.010	.29	--	.030	--	.38	.62	.41
02...	1730	3.0	6600	.6	.010	.33	--	.020	--	.34	.70	.36

APPENDIX A-1

391516076503000 -- POTOMAC RIVER AT COBB ISLAND --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT											
21...	.25	.027	.014	--	--	26.3	2.9	27.4	--	--	5
21...	.15	.035	.016	--	--	18.4	8.7	22.3	--	--	14
22...	.23	.042	.018	--	--	25.5	2.9	26.6	--	--	7
22...	.09	.038	.019	--	--	12.4	6.6	15.4	--	--	10
22...	.30	.046	.030	4.2	--	26.2	.8	26.2	--	--	9
22...	.27	.033	.025	3.7	--	13.5	6.0	16.2	--	--	8
NOV											
17...	.09	.038	.016	--	--	24.5	3.9	26.0	--	--	1
17...	.21	.036	.033	--	--	13.0	7.6	16.5	--	--	3
17...	.27	.042	.012	--	--	28.9	5.8	31.3	--	--	1
17...	.30	.040	.026	--	--	17.1	2.6	18.1	--	--	2
DEC											
15...	.31	.026	.028	--	--	19.6	3.2	20.9	--	--	4
15...	.32	.043	.021	--	--	31.5	4.0	33.0	--	--	4
15...	.29	.045	.030	--	--	28.8	4.6	30.7	--	--	8
15...	.31	.072	.016	--	--	32.6	3.6	33.9	--	--	22
JAN											
22...	.42	.032	.019	--	--	9.8	1.9	10.6	--	--	3
22...	.24	.052	.021	--	--	21.0	4.3	22.8	--	--	4
22...	.39	.035	.019	--	--	13.2	1.8	13.9	--	--	4
22...	.29	.045	.018	--	--	26.1	2.3	26.9	--	--	6
FEB											
04...	.35	.034	.007	--	--	35.4	5.2	37.4	--	--	6
04...	.47	.017	.006	--	--	15.9	2.8	17.0	--	--	6
04...	.21	.019	.006	--	--	19.1	2.6	20.1	--	--	4
04...	.33	.035	.011	--	--	27.1	4.1	28.7	--	--	--
05...	.41	.017	.007	--	--	27.5	2.7	28.4	--	--	5
05...	.40	.017	.008	--	--	16.9	2.4	17.8	--	--	4
MAR											
03...	.25	.001	.017	--	--	15.6	2.2	16.4	--	5.6	3
03...	.24	.043	.015	--	--	26.4	9.8	30.8	--	5.2	10
03...	.99	.024	.010	--	--	23.6	3.5	24.9	--	6.4	4
03...	.85	.037	.015	--	--	63.0	9.1	66.5	--	5.7	7
18...	.92	.082	.018	--	--	48.1	3.5	49.2	--	--	11
18...	.74	.070	.016	--	--	45.0	5.5	47.0	--	--	37
18...	.62	.056	.023	--	--	29.5	4.4	31.2	--	--	8
18...	.55	.049	.017	--	--	29.0	4.8	31.0	--	--	8
APR											
02...	.70	.050	.011	--	--	38.2	2.6	39.0	--	--	5
02...	.69	.028	.005	--	--	30.7	2.0	31.2	--	--	5

APPENDIX A-1

---Cont.

381516076503000 - POTOMAC RIVER AT COBB ISLAND

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(000009)	SILICA, DIS- SOLVED (MG/L) AS SI02	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	(00613)	NITRO- GEN, NITRO- AMMONIA TOTAL (MG/L) AS N	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	(00608)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N	(00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	(00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N	(00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N	(00623)
APR																					
02...	1800	18.0		20100		1.3		.010		--		.100		.44		--		.94		.54	
02...	1810	3.0		20100		1.8		.020		--		.140		.52		--		.84		.66	
15...	1605	17.0		20100		2.0		.030		--		.210		.05		--		.40		.26	
15...	1610	2.0		20100		2.1		.030		--		.220		.00		--		.39		.17	
15...	1635	18.0		6600		.7		.020		--		.070		--		--		.75		.10	
15...	1640	2.0		6600		1.5		.030		--		.100		.20		--		.63		.30	
16...	0740	2.0		6600		2.3		.030		--		.240		.33		--		.73		.57	
16...	0745	23.0		6600		.8		.020		--		.070		.20		--		.70		.27	
MAY																					
19...	1600	2.0		20100		.1		.020		--		.070		.24		--		.61		.31	
19...	1605	19.0		20100		.1		.020		--		.060		.31		--		.70		.37	
19...	1630	29.0		6600		.8		.010		--		.150		.22		--		.35		.37	
19...	1635	2.0		6600		<.1		.020		--		.060		.20		--		.57		.26	
20...	0725	2.0		6600		.1		.020		--		.060		.26		--		.88		.32	
20...	0730	30.0		6600		.7		.010		--		.120		.30		--		.59		.42	
JUN																					
01...	1345	29.0		6600		2.1		.010		--		.090		.37		--		.54		.46	
01...	1355	2.0		6600		1.9		.010		--		.020		.34		--		.51		.36	
30...	2020	2.0		6600		3.6		<.010		--		.010		--		--		.68		.28	
30...	2025	24.0		6600		2.6		<.010		--		.230		.22		--		.56		.45	
JUL																					
01...	1005	2.0		6600		3.3		<.010		--		.010		.25		--		3.40		.26	
01...	1015	24.0		6600		3.4		<.010		--		<.010		--		--		1.30		.32	
01...	1035	2.0		20100		3.6		.010		--		.030		.36		--		.73		.39	
01...	1040	22.0		20100		3.6		.010		--		.010		.32		--		.68		.33	
15...	1100	2.0		6600		3.6		<.010		--		.010		.24		--		.66		.25	
15...	1105	23.0		6600		2.1		<.010		--		.100		.11		--		.50		.21	
15...	1110	2.0		20100		3.5		<.010		--		.010		.01		--		.46		.11	
15...	1115	18.0		20100		3.5		<.010		--		.020		.33		--		.51		.35	
27...	1710	3.0		6600		3.4		<.010		--		.050		.20		--		.56		.25	
27...	1715	22.0		6600		3.5		--		--		.200		.11		--		.39		.31	
27...	1735	3.0		20100		3.5		<.010		--		.050		.84		--		1.30		.89	
27...	1740	16.0		20100		3.6		<.010		--		.040		.59		--		.66		.63	
AUG																					
17...	1425	3.0		20100		4.5		<.010		--		.030		.22		--		.69		.25	
17...	1430	16.0		20100		4.5		<.010		--		.030		.19		--		.64		.22	
19...	0740	3.0		6600		4.2		<.010		--		.080		.12		--		.36		.20	
19...	0745	27.0		6600		3.6		<.010		--		.050		.16		--		.30		.21	
SEP																					
21...	1430	23.0		6600		2.6		.060		--		.120		.28		--		.51		.40	

APPENDIX A-1

381516076503000 - POTOMAC RIVER AT C09R ISLAND --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DISE- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DISE- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00580)	CARBON, ORGANIC DISE- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A METRIC CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70998)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE- D (MG/L) (80154)
APR											
02...	.99	.048	.008	--	--	22.9	7.7	26.2	--	--	5
02...	1.3	.039	.006	--	--	17.6	4.4	19.5	--	--	5
15...	.81	.047	.013	--	--	32.7	8.1	36.2	--	--	14
15...	.75	.050	.014	--	--	18.3	5.7	20.8	--	--	14
15...	--	.046	.006	--	--	82.2	12.9	87.2	--	--	17
15...	.77	.047	.007	--	--	51.9	9.9	55.9	--	--	20
15...	1.2	.052	.034	--	--	20.7	5.6	23.1	--	--	--
16...	.58	.052	.004	--	--	78.8	17.4	86.1	--	--	8
MAY											
19...	.51	.024	.003	--	--	42.9	5.0	44.7	--	--	4
19...	.56	.029	.001	--	--	41.3	4.2	42.7	--	--	3
19...	.41	.051	.007	--	--	37.2	11.7	42.4	--	--	4
19...	.48	.032	.001	--	--	46.2	6.5	48.7	--	--	4
20...	.53	.027	<.001	--	--	42.6	8.2	45.9	--	--	4
20...	.45	.032	.003	--	--	40.2	12.7	45.7	--	--	4
JUN											
01...	.48	.043	.035	--	--	5.1	3.2	6.6	--	--	4
01...	.50	.039	.006	--	--	23.3	5.5	25.6	--	--	2
30...	.29	.055	.024	--	--	21.5	3.2	22.8	--	--	2
30...	.47	.110	.095	--	--	2.4	3.0	3.8	--	--	3
JUL											
01...	.27	.075	.015	--	--	28.6	6.0	31.0	--	--	3
01...	.33	.079	.017	--	--	5.0	4.4	7.1	--	--	7
01...	.41	.066	.027	--	--	26.3	3.0	27.4	--	--	6
01...	.35	.065	.011	--	--	12.7	5.1	15.0	--	--	4
15...	--	.076	.023	--	--	25.3	4.5	27.2	--	--	4
15...	.22	.058	.043	--	--	1.4	3.3	3.0	--	--	4
15...	.12	.064	.015	--	--	24.0	6.9	27.0	--	--	7
15...	.36	.084	.031	--	--	10.2	4.7	12.4	--	--	9
27...	.28	.049	.031	--	--	10.9	6.2	13.8	--	--	3
27...	.33	.076	.048	--	--	1.8	3.4	3.4	--	--	3
27...	.90	.090	.036	--	--	--	--	--	--	--	3
27...	.65	.078	.023	--	--	17.9	6.4	20.8	--	--	5
AUG											
17...	.26	.125	.069	--	--	--	--	--	--	--	3
17...	.23	.109	.064	--	--	--	--	--	--	--	4
19...	.30	.088	.061	--	--	--	--	--	--	--	2
19...	.25	.117	.069	--	--	10.5	3.5	12.1	--	--	9
SEP											
21...	.54	.096	.072	2.6	--	1.9	4.7	4.2	--	--	26

APPENDIX A-1

381516076503000 - POTOMAC RIVER AT COBB ISLAND --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM BANK)	SILICA, DIS- SOLVED (MG/LI AS SI02)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/LI AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/LI AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
		(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00507)	(00625)	(00623)
SEP												
21...	1435	3.0	6600	3.2	.040	.11	--	.030	--	.27	.32	.30
21...	1500	16.0	20100	3.7	.110	.27	--	.030	--	.32	.42	.35
21...	1505	3.0	20100	3.7	.090	.22	--	.030	--	.24	.72	.27

APPENDIX A-1

391516076503000 - POTOMAC RIVER AT COBB ISLAND --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00655)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
SEP											
21...	.41	.071	.054	3.0	--	--	--	--	--	--	4.
21...	.62	.094	.059	3.2	--	--	4.4	36.0	--	--	27
21...	.49	.104	.065	3.9	--	--	--	--	--	--	8

01661475 - POTOMAC R AT PINEY POINT, MD
WATER QUALITY DATA- WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LQC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/LI AS SI02)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)	(00625)	(00623)
OCT										
01...	1545	3.0	4500	1.3	.020	.03	.020	.030	.19	.04
01...	1550	65.0	4500	.6	.050	.06	.050	.080	.21	.15
01...	1615	3.0	10800	1.9	.030	.04	.020	.040	.07	.00
01...	1620	33.0	10800	1.4	.050	.07	.030	.050	.08	.05
09...	0745	3.0	10800	1.6	.000	.00	.030	.030	.16	.24
09...	0750	32.0	10800	.7	.030	.15	.060	.12	.21	.18
09...	0800	3.0	4500	2.2	.000	.00	.010	.07	.27	.13
09...	0805	65.0	4500	.5	.030	.02	.070	.12	.47	.14
14...	1140	3.0	10800	1.0	.020	.03	.000	.14	.21	.14
14...	1145	34.0	10800	1.0	.020	.03	.020	.14	.32	.14
14...	1230	3.0	4500	.9	.020	.03	.010	.19	.24	.16
14...	1235	60.0	4500	.9	.020	.04	.030	.11	.38	.20
22...	1030	2.0	4500	1.5	.000	.01	.030	.04	.32	.14
22...	1035	71.0	4500	1.0	.020	.04	.160	.00	.25	.07
22...	1045	2.0	10800	1.5	.010	.00	.050	.10	.27	.11
22...	1050	30.0	10800	1.0	.020	.00	.120	.09	.15	.21
27...	0940	70.0	4500	--	.010	.02	.040	.31	.24	.35
27...	0945	3.0	4500	--	.010	.02	.100	.13	.27	.23
27...	0955	32.0	10800	--	.010	.03	.080	.14	.33	.22
27...	1000	3.0	10800	--	.010	.02	.090	.12	.23	.21
NOV										
05...	1140	2.0	10800	--	.010	.02	.040	.21	.44	.25
05...	1145	33.0	10900	--	.010	.02	.050	.23	.41	.28
05...	1300	2.0	4500	--	.020	.04	.060	.08	.26	.14
05...	1305	70.0	4500	--	.010	.03	.090	.15	.25	.24
13...	1025	2.0	10900	.4	.010	.04	.050	.06	.24	.11
13...	1030	40.0	10800	.4	.010	.04	.070	.01	.10	.08
13...	1100	2.0	4500	.3	.010	.02	.020	.26	.11	.28
13...	1110	62.0	4500	.3	.020	.15	.050	.15	.14	.20
17...	1405	2.0	10800	.7	.010	.02	.010	.17	.65	.18
17...	1410	27.0	10800	.3	.010	.03	.040	.15	.21	.19
17...	1420	2.0	4500	.5	.010	.33	.020	.25	.23	.27
17...	1425	73.0	4500	.3	.010	.78	.070	.21	.45	.28
28...	1110	3.0	4500	.2	.050	.58	.000	.01	.11	.01
28...	1120	65.0	4500	.3	.010	2.1	.020	.15	.10	.17
28...	1140	3.0	10800	.1	.020	.04	.010	.28	.26	.29
28...	1150	31.0	10800	.1	.010	.07	.000	.22	.13	.22
DEC										
09...	1340	34.0	10800	.1	.010	.24	.000	.01	.04	.01
09...	1345	2.0	10800	.1	.010	.03	.000	.01	.01	.01

APPENDIX A-1

01661475' - POTOMAC R AT PINEY POINT, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT											
01...	.07	.040	.023	--	--	17.6	4.0	19.3	--	--	11
01...	.21	.039	.024	--	--	11.2	3.1	12.5	--	--	6
01...	.04	.042	.021	--	--	7.8	4.8	10.0	--	--	6
01...	.12	.040	.022	--	--	17.5	1.9	18.2	--	--	22
09...	.24	.040	.017	--	--	6.4	6.3	9.4	--	--	17
09...	.33	.034	.021	--	--	12.2	3.3	13.6	--	--	11
09...	.13	.036	.015	--	--	5.7	4.8	7.9	--	--	3
09...	.16	.041	.020	--	--	14.6	3.2	15.9	--	--	10
14...	.17	.028	.009	--	--	9.8	5.6	12.4	--	--	6
14...	.19	.026	.017	--	--	17.1	3.7	18.6	--	--	20
14...	.23	.026	.008	--	--	6.2	4.5	8.3	--	--	1
14...	.18	.028	.010	--	--	13.4	2.7	14.5	--	--	2
22...	.08	.030	.070	4.0	--	7.0	18.6	16.0	--	--	28
22...	.15	.031	.034	3.2	--	15.9	2.3	16.8	--	--	2
22...	.15	.030	.021	3.7	--	5.1	5.3	7.6	--	--	17
22...	.21	.027	.022	3.5	--	6.0	4.8	8.2	--	--	22
27...	.37	.032	.018	--	--	17.3	3.3	18.7	--	--	4
27...	.25	.040	.018	--	--	7.4	4.9	9.7	--	--	6
27...	.25	.045	.015	--	--	16.3	4.3	18.2	--	--	1
27...	.23	.034	.016	--	--				--	--	
NOV											
05...	.27	.030	.016	--	--	21.8	2.0	22.4	--	--	11
05...	.30	.027	.014	--	--	13.9	4.0	15.6	--	--	6
05...	.18	.028	.011	--	--	18.3	4.0	20.0	--	--	9
05...	.27	.031	.007	--	--	6.2	4.3	8.2	--	--	6
13...	.15	.030	.012	--	--	16.6	2.7	17.6	--	--	4
13...	.12	.021	.011	--	--	10.1	3.4	11.6	--	--	2
13...	.30	.029	.012	--	--	15.4	3.3	16.8	--	--	5
13...	.35	.031	.010	--	--	10.6	3.3	12.1	--	--	21
17...	.20	.026	.015	--	--	18.5	3.1	19.8	--	--	9
17...	.22	.021	.021	--	--	9.0	3.2	10.4	--	--	3
17...	.60	.038	.015	--	--	20.3	2.1	21.0	--	--	10
17...	1.1	.032	.012	--	--	11.8	4.5	13.8	--	--	10
28...	.59	.037	.014	--	--	25.7	2.1	26.4	--	--	6
28...	2.3	.023	.011	--	--	37.5	1.8	37.8	--	--	7
28...	.33	.034	.014	--	--	24.8	2.1	25.5	--	--	9
28...	.29	.026	.043	--	--				--	--	5
DEC											
09...	.25	.024	.009	--	--	28.3	3.8	29.8	--	--	9
09...	.04	.023	.010	--	--	7.6	2.0	8.5	--	--	5

APPENDIX A-1

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SILICA, DIS- SOLVED (MG/LI AS SIO2)	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	(00613)	NITRO- GEN, NITRO- N2+N3 DIS- SOLVED (MG/LI AS N)	(00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	(00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	(00623)
DEC																					
09...	1405	2.0		4500		.1		.010		.03		--	--	--	.000		.01		.06		.01
09...	1410	65.0		4500		.1		.010		.02		--	--	--	.000		.03		.04		.03
15...	1125	2.0		4500		.0		.010		.04		--	--	--	.050		.15		.19		.20
15...	1130	72.0		4500		.1		.010		.06		--	--	--	.080		.05		.18		.13
15...	1155	20.0		10800		.0		.010		.04		--	--	--	.110		.16		.10		.27
15...	1200	2.0		10800		.0		.010		.15		--	--	--	.020		.33		.00		.35
JAN																					
02...	1010	3.0		4500		.1		.010		.07		--	--	--	.010		.13		.15		.14
02...	1020	69.0		4500		.1		.000		.01		--	--	--	.030		.10		.21		.13
02...	1030	3.0		10800		.1		.010		.08		--	--	--	.020		.18		.47		.20
02...	1040	30.0		10800		.1		.000		.02		--	--	--	.020		.13		.17		.15
22...	1425	2.0		4500		.0		<.010		.15		--	--	--	.010		.18		.16		.19
22...	1430	63.0		4500		--		<.010		.03		--	--	--	.040		--		.23		<.10
22...	1455	2.0		10800		.0		<.010		.05		--	--	--	.020		.13		.13		.15
27...	1500	20.0		10800		.0		<.010		.03		--	--	--	<.010		--		.26		<.10
27...	1300	3.0		10800		.0		<.010		.09		--	--	--	.040		.07		.15		.11
27...	1310	34.0		10900		.1		.010		.04		--	--	--	.070		--		.24		<.10
27...	1340	3.0		4500		.1		.010		.10		--	--	--	.060		--		.30		<.10
27...	1350	78.0		4500		.0		<.010		.12		--	--	--	.080		--		.31		<.10
FEB																					
05...	0940	2.0		10900		.0		<.010		.06		--	--	--	.050		.05		<.10		.10
05...	0945	20.0		10900		.0		<.010		.06		--	--	--	.030		.06		<.10		.09
05...	1005	70.0		4500		.1		<.010		.02		--	--	--	.050		.05		.19		<.10
05...	1010	3.0		4500		.0		<.010		.04		--	--	--	.050		.00		<.10		.04
13...	0800	28.0		10800		.0		<.010		.09		--	--	--	.050		.05		.25		.10
13...	0810	3.0		10900		.0		<.010		.07		--	--	--	.020		.08		.19		.10
13...	0840	3.0		4500		.0		<.010		.05		--	--	--	.030		--		.30		<.10
13...	0850	70.0		4500		.0		<.010		.04		--	--	--	.070		.07		.17		.14
19...	1110	31.0		10800		.1		.020		.05		--	--	--	.020		.17		.21		.19
19...	1120	3.0		10800		.1		<.010		.15		--	--	--	.030		.09		.18		.12
19...	1130	70.0		4500		.0		<.010		.03		--	--	--	.040		.16		.33		.20
19...	1140	3.0		4500		.1		<.010		.11		--	--	--	.030		.14		.44		.17
26...	1345	3.0		10800		--		<.010		.14		--	--	--	.020		.19		.48		.21
26...	1355	31.0		10800		--		<.010		.12		--	--	--	.020		.26		.28		.28
26...	1415	3.0		4500		--		<.010		.10		--	--	--	.040		.15		.12		.19
26...	1425	70.0		4500		--		<.010		.08		--	--	--	.010		.22		.22		.23
VAR																					
03...	1150	3.0		4500		.3		.010		.47		.030		.030		.16		.22		.19	
03...	1200	68.0		4500		.1		.010		.08		.040		.080		.07		.15		.15	
03...	1230	3.0		10800		.4		.010		.53		--	--	--	.020		.19		.30		.21

APPENDIX A-1

01561475 - POTOMAC R AT PINEY POINT, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L) AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L) AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L) AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70998)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
DEC											
09...	.04	.028	.011	--	--	9.0	1.9	9.8	--	--	4
09...	.05	.038	.009	--	--	39.5	6.9	42.2	--	--	11
15...	.24	.033	.032	--	--	11.3	2.5	12.4	--	--	6
15...	.19	.055	.012	--	--	49.7	9.2	53.4	--	--	19
15...	.31	.035	.010	--	--	12.0	2.4	13.0	--	--	13
15...	.50	.025	.017	--	--	12.8	2.2	13.7	--	--	7
JAN											
02...	.21	.041	.018	--	--	--	--	--	--	--	2
02...	.14	.071	.030	--	--	--	--	--	--	--	8
02...	.28	.043	.020	--	--	--	--	--	--	--	5
02...	.17	.075	.027	--	--	--	--	--	--	--	5
22...	.34	.033	.022	--	--	12.7	1.6	13.3	--	--	3
22...	--	.045	.019	--	--	14.6	2.6	15.6	--	--	9
22...	.20	.033	.021	--	--	14.6	1.1	14.9	--	--	5
22...	--	.041	.019	--	--	18.4	4.4	20.3	--	--	13
27...	.20	.025	.013	--	--	9.5	1.2	9.9	--	--	5
27...	--	.030	.018	--	--	16.5	2.0	17.2	--	--	6
27...	--	.021	.019	--	--	10.6	1.0	11.0	--	--	2
27...	--	.027	.019	--	--	16.8	1.5	17.2	--	--	7
FEB											
05...	.16	.013	.008	--	--	9.4	2.4	10.5	--	--	6
05...	.15	.014	.007	--	--	10.2	2.6	11.3	--	--	11
05...	--	.018	.007	--	--	20.1	4.8	22.1	--	--	--
05...	.08	.013	.007	--	--	8.9	1.8	9.6	--	--	5
13...	.19	.081	.011	--	--	8.0	1.7	8.7	--	--	7
13...	.17	.027	.013	--	--	8.9	2.2	9.8	--	--	5
13...	.4	.019	.010	--	--	6.8	1.9	7.6	--	--	5
13...	.18	.025	.010	--	--	7.2	1.4	7.8	--	--	6
19...	.24	.027	.015	--	--	10.0	1.8	10.8	--	--	1
19...	.27	.062	.010	--	--	2.4	1.0	2.9	--	--	1
19...	.23	.022	.014	--	--	5.5	1.8	6.3	--	--	1
19...	.28	.019	.014	--	--	2.2	1.0	2.6	--	--	1
26...	.35	.017	.014	--	--	10.3	3.0	11.6	--	--	3
26...	.40	.022	.014	--	--	10.5	3.5	12.1	--	--	2
26...	.29	.017	.014	--	--	9.7	1.8	10.4	--	--	2
26...	.31	.017	.013	--	--	11.6	2.1	12.4	--	--	2
MAR											
03...	.66	.026	.015	--	--	6.8	1.5	7.4	2.4	2.4	1
03...	.23	.031	.014	--	--	12.6	3.3	14.1	--	--	4
03...	.74	.017	.018	--	--	6.5	2.0	7.4	--	--	1

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SiO2)	NITRO- GEN, NITRITE DISE- SOLVED (MG/L) AS N)	NITRO- GEN, NO2+NO3 DISE- SOLVED (MG/L) AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N)	NITRO- GEN,AM- MONIA + ORGANIC DISE, (MG/L) AS N)	
MAR												
03...	1235	20.0	10800	.3	.010	.53	--	.040	--	.25	.33	.29
09...	1340	3.0	10800	.1	<.010	.33	--	.080	--	.19	.43	.27
09...	1350	33.0	10800	<.1	<.010	.29	--	.070	--	.22	.25	.29
09...	1400	3.0	4500	<.1	<.010	.29	--	.070	--	.24	.30	.31
09...	1410	70.0	4500	<.1	<.010	.28	--	.070	--	.09	.36	.16
18...	1340	2.0	10800	<.1	.010	.28	--	.030	--	.16	.27	.19
18...	1345	32.0	10800	<.1	<.010	.28	--	.020	--	.17	.35	.19
18...	1410	2.0	4500	<.1	.010	.29	--	.030	--	--	.19	<.10
18...	1415	81.0	4500	<.1	<.010	.25	--	.010	--	.14	.14	.15
26...	1120	3.0	10800	.3	.010	.30	--	<.010	--	--	.56	.19
26...	1130	27.0	10800	.2	.010	.27	--	.010	--	.28	.64	.29
26...	1150	3.0	4500	.2	<.010	.28	--	.010	--	.33	.40	.34
26...	1200	70.0	4500	.1	.010	.26	--	.030	--	.27	.46	.30
APR												
02...	1510	29.0	10800	.2	<.010	.28	--	.060	--	.29	.56	.35
02...	1520	3.0	10800	.1	<.010	.26	--	.040	--	.29	.42	.33
02...	1610	68.0	4500	.2	<.010	.20	--	.070	--	.28	.35	.35
02...	1620	3.0	4500	.1	<.010	.25	--	.040	--	.29	.33	.35
07...	0950	68.0	4500	.2	.010	.33	--	.080	--	.50	.34	.58
07...	1000	3.0	4500	.2	.020	.37	--	.050	--	.23	.60	.28
07...	1030	30.0	10800	.2	.010	.27	--	.040	--	.28	.55	.32
07...	1040	3.0	10800	.3	.010	.29	--	.030	--	.30	.50	.33
16...	0855	78.0	4500	.2	.010	.19	--	.070	--	.22	.67	.29
16...	0900	2.0	4500	.1	.010	.04	--	.040	--	.43	.79	.47
16...	0925	29.0	10800	.1	.010	.13	--	.050	--	.37	.60	.42
16...	0930	2.0	10800	.1	<.010	.02	--	.040	--	.25	.28	.29
23...	1000	3.0	4500	.1	.020	.10	--	.040	--	.20	.90	.24
23...	1005	75.0	4500	.1	.010	.11	--	.070	--	.18	.51	.25
23...	1100	3.0	10800	.3	.020	.20	--	.040	--	.35	.94	.39
23...	1110	18.0	10800	.1	<.010	.03	--	.040	--	.14	.72	.18
30...	1100	2.0	4500	<.1	.020	.19	--	.050	--	.26	.83	.31
30...	1110	68.0	4500	.1	<.010	.02	--	.080	--	.05	.61	.13
30...	1145	2.0	10800	.2	.020	.23	--	.050	--	.26	.84	.31
30...	1155	28.0	10400	<.1	.020	.07	--	.080	--	.17	.53	.25
MAY												
04...	1215	67.0	4500	.3	.010	.03	--	.090	--	.13	.71	.22
04...	1220	2.0	4500	.1	<.010	.02	--	.070	--	.20	.97	.27
04...	1235	3.0	10800	.1	.020	.07	--	.050	--	.16	.80	.21
04...	1240	28.0	10800	.1	<.010	.03	--	.060	--	.33	.67	.39
11...	1500	2.0	10800	.1	<.010	.02	--	.050	--	.18	1.50	.23

APPENDIX A-1

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (006502)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A METRIC CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADEN- OSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
MAR											
03...	.82	.024	.014	--	--	7.3	2.0	8.1	--	--	1
09...	.60	.023	.013	--	--	12.2	1.9	13.0	--	--	3
09...	.58	.023	.013	--	--	12.5	2.4	13.5	--	--	7
09...	.60	.021	.014	--	--	13.4	2.0	14.2	--	--	3
09...	.44	.025	.014	--	--	15.8	5.7	18.3	--	--	4
18...	.47	.051	.015	--	--	6.8	1.5	7.4	--	--	3
18...	.47	.035	.025	--	--	10.0	2.4	11.1	--	--	9
18...	--	.025	.015	--	--	6.5	1.3	7.0	--	--	4
18...	.40	.032	.015	--	--	10.4	2.8	11.6	--	--	8
26...	.49	.039	.027	--	--	9	1.4	1.6	--	--	4
26...	.55	.034	.017	--	--	9.2	1.4	9.7	--	--	8
26...	.62	.027	.015	--	--	1.6	1.3	2.2	--	--	3
26...	.55	.029	.015	--	--	3.4	1.3	3.9	--	--	6
APR											
02...	.63	.016	.014	--	--	12.6	2.5	13.6	--	--	6
02...	.59	.018	.008	--	--	13.0	2.7	14.2	--	--	4
02...	.55	.014	.005	--	--	8.9	2.0	9.7	--	--	5
02...	.58	.015	.005	--	--	10.2	2.1	11.1	--	--	6
07...	.91	.004	.015	--	--	17.3	3.5	18.7	--	--	9
07...	.65	.016	.003	--	--	34.6	5.0	36.5	--	--	5
07...	.59	.021	<.001	--	--	33.1	3.8	34.5	--	--	5
07...	.62	.021	.002	--	--	34.0	5.6	36.3	--	--	6
16...	.48	.023	.012	--	--	--	--	--	--	--	12
16...	.51	.032	.001	--	--	105	4.2	106	--	--	11
16...	.55	.014	.002	--	--	57.7	4.6	59.1	--	--	5
16...	.31	.033	.002	--	--	107	6.3	109	--	--	9
23...	.34	.022	.001	--	--	112	21.9	121	--	--	10
23...	.35	.017	.005	--	--	--	--	--	--	--	7
23...	.59	.030	.001	--	--	98.4	11.6	103	--	--	7
23...	.21	.023	<.001	--	--	106	4.2	106	--	--	4
30...	.50	.031	<.001	--	--	117	17.2	124	--	--	8
30...	.15	.019	.002	--	--	82.3	-.2	81.0	--	--	3
30...	.54	.032	.001	--	--	102	10.6	105	--	--	7
30...	.32	.020	.001	--	--	87.4	6.2	89.1	--	--	4
MAY											
04...	.25	.023	.004	--	--	75.9	10.2	79.7	--	--	5
04...	.29	.033	.004	--	--	106	4.4	107	--	--	9
04...	.28	.024	.002	--	--	105	3.1	105	--	--	6
04...	.42	.025	.005	--	--	105	5.1	106	--	--	6
11...	.25	.040	.004	--	--	79.7	8.1	82.5	--	--	14

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SiO2	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N	
		(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)	(00625)	(00623)
MAY												
11...	1510	38.0	10800	.1	<.010	.01	--	.060	--	.32	.78	.38
11...	1540	2.0	4500	.2	<.010	.03	--	.120	--	.51	.83	.63
11...	1550	75.0	4500	.1	<.010	.01	--	.060	--	.37	.81	.43
20...	0850	69.0	4500	.4	<.010	.02	--	.110	--	.22	.52	.33
20...	0855	2.0	4500	.1	<.010	.01	--	.040	--	.20	.42	.24
20...	0915	2.0	10800	<.1	<.010	.02	--	.070	--	.33	.42	.40
20...	0920	31.0	10800	.2	<.010	.01	--	.040	--	.32	.41	.36
28...	1830	3.0	10400	.1	<.010	.02	--	.020	--	.23	.59	.25
28...	1840	33.0	10800	.1	<.010	.02	--	.040	--	.27	.52	.31
28...	1925	3.0	4500	.1	<.010	.01	--	.030	--	.22	.64	.25
28...	1930	69.0	4500	.7	<.010	.02	--	.090	--	.33	.78	.42
JUN												
01...	1125	2.0	10800	.7	<.010	.02	--	.020	--	.47	.53	.49
01...	1130	32.0	10800	.6	<.010	.02	--	.060	--	.04	.47	.10
01...	1150	2.0	4500	.9	<.010	.01	--	.020	--	.37	.63	.39
01...	1200	78.0	4500	2.0	<.010	.02	--	.090	--	.23	.44	.32
10...	1200	2.0	10800	2.0	<.010	.15	--	.090	--	.19	.78	.28
10...	1205	22.0	10800	.6	<.010	.17	--	.060	--	.40	1.20	.46
10...	1240	2.0	4500	1.9	.010	.19	--	.050	--	.34	.56	.39
10...	1245	68.0	4500	1.2	<.010	.10	--	.170	--	.20	.60	.37
15...	1615	2.0	10800	2.0	<.010	.01	--	.040	--	.15	.40	.19
15...	1620	31.0	10800	1.4	<.010	.02	--	.090	--	.18	.41	.27
15...	1645	2.0	4500	2.0	<.010	.01	--	.040	--	.12	.42	.16
15...	1650	70.0	4500	1.8	.010	.04	--	.220	--	.22	.31	.44
25...	1320	64.0	4500	2.3	<.010	.03	--	.060	--	.30	1.10	.36
25...	1330	2.0	4500	2.2	<.010	.03	--	.070	--	.56	.73	.63
25...	1415	26.0	10800	2.4	<.010	.01	--	.040	--	.30	.53	.34
25...	1425	2.0	10800	2.0	<.010	.01	--	.080	--	.35	.68	.43
JUL												
01...	1210	3.0	10800	2.1	<.010	.01	--	.010	--	--	.52	.41
01...	1215	30.0	10800	1.3	.020	.03	--	.050	--	.38	.45	.43
01...	1245	3.0	4500	2.2	<.010	.01	--	.010	--	.35	.55	.36
01...	1250	73.0	4500	2.3	<.010	.01	--	.340	--	.23	.64	.57
07...	1230	32.0	10800	2.3	<.010	.02	--	.130	--	.32	.52	.45
07...	1240	2.0	10800	2.8	<.010	.02	--	.030	--	.37	.82	.40
07...	1320	77.0	4500	1.7	<.010	.04	--	.240	--	.31	.73	.55
07...	1330	2.0	4500	2.4	<.010	.01	--	.010	--	.58	.98	.59
15...	0900	3.0	4500	2.7	<.010	.01	--	.030	--	.26	.55	.29
15...	0905	71.0	4500	2.7	.010	.02	--	.230	--	.00	.41	.16
15...	0925	2.0	10800	3.3	<.010	.01	--	.020	--	.18	.67	.20

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	P-POS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
MAY											
11...	.39	.031	<.001	--	--	92.7	11.0	96.7	--	--	7
11...	.66	.029	<.001	--	--	93.6	.9	91.8	--	--	7
11...	.44	.020	<.001	--	--	--	--	--	--	--	7
20...	.35	.031	.002	--	--	63.2	19.2	71.6	--	--	5
20...	.25	.028	<.001	--	--	61.0	-3.7	58.4	--	--	4
20...	.42	.024	.004	--	--	59.6	-1.5	58.0	--	--	6
20...	.37	.028	.002	--	--	71.0	9.3	74.5	--	--	5
24...	.27	.017	.007	--	--	33.6	2.2	34.2	--	--	4
24...	.33	.020	.007	--	--	45.0	7.4	47.9	--	--	4
24...	.26	.016	.007	--	--	31.0	1.5	31.3	--	--	2
24...	.44	.046	.018	--	--	108	25.8	119	--	--	8
JUN											
01...	.51	.037	.007	--	--	18.6	2.8	19.6	--	--	1
01...	.12	.030	.004	--	--	31.0	10.6	35.7	--	--	3
01...	.40	.041	.009	--	--	24.2	2.5	25.0	--	--	4
01...	.34	.061	.020	--	--	58.9	31.5	73.3	--	--	11
10...	.43	.049	.010	--	--	24.7	4.5	26.5	--	--	3
10...	.63	.046	.016	--	--	6.1	2.5	7.3	--	--	4
10...	.59	.039	.010	--	--	15.8	3.1	17.1	--	--	4
10...	.47	.073	.056	--	--	12.4	4.2	14.2	--	--	5
15...	.20	.039	.001	--	--	12.4	2.8	13.5	--	--	3
15...	.29	.050	.022	--	--	1.0	2.0	2.0	--	--	6
15...	.17	.031	.003	--	--	11.4	3.8	13.1	--	--	3
15...	.49	.066	.051	--	--	--	--	--	--	--	4
25...	.39	.047	.015	--	--	1.1	2.1	2.1	--	--	2
25...	.65	.044	.025	--	--	16.7	2.5	17.7	--	--	3
25...	.35	.043	.014	--	--	--	--	--	--	--	3
25...	.44	.044	.028	--	--	36.9	4.3	38.4	--	--	3
JUL											
01...	.42	.051	.005	--	--	15.9	4.7	17.9	--	--	5
01...	.45	.049	.022	--	--	2.9	4.3	5.0	--	--	4
01...	.37	.054	.008	--	--	13.2	3.1	14.5	--	--	3
01...	.58	.127	.079	--	--	5.2	11.2	10.5	--	--	22
07...	.47	.050	.033	--	--	.3	3.1	1.8	--	--	3
07...	.42	.095	.049	--	--	77.6	9.8	81.2	--	--	5
07...	.59	.067	.050	--	--	1.6	9.4	5.6	--	--	3
07...	.60	.099	.027	--	--	10.4	9.3	10.7	--	--	2
15...	.30	.067	.032	--	--	15.9	5.5	18.4	--	--	4
15...	.18	.072	.069	--	--	1.4	2.0	2.4	--	--	4
15...	.21	.072	.026	--	--	20.0	5.3	22.2	--	--	5

01661475' - POTOMAC R AT PINEY POINT, MD ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/LI AS SID2)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRO- N02+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS, (MG/L AS N)
		(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)	(00625)
JUL											
0930	32.0	10800		2.0	<.010	.01	--	.160	--	.12	.45
1240	67.0	4500		2.8	<.010	.01	--	.270	--	.14	.58
1250	2.0	4500		2.6	<.010	.02	--	.010	--	.35	.54
1320	25.0	10800		2.5	<.010	.01	--	.020	--	.29	.44
1330	2.0	10800		2.7	<.010	.01	--	.020	--	.28	.56
1515	1.6	10800		2.7	<.010	.01	--	.010	--	.35	1.00
1520	29.0	10800		2.9	<.010	.01	--	.090	--	.32	.36
1530	3.0	4500		2.7	<.010	.02	--	.030	--	.33	.41
1535	77.0	4500		3.2	<.010	.01	--	.310	--	.00	.36
AUG											.16
07...	2.0	4500		3.3	<.010	.01	--	.040	--	.41	.45
07...	71.0	4500		3.3	<.010	.02	--	.280	--	.36	.64
07...	27.0	10800		3.2	<.010	<.01	--	.060	--	.35	.41
07...	1430	10800		3.4	<.010	<.01	--	.100	--	.26	.59
14...	75.0	4500		2.9	<.010	.01	--	.100	--	.20	.45
14...	2.0	4500		3.5	<.010	.01	--	.010	--	.26	.27
14...	2.0	10800		3.8	<.010	.02	--	.030	--	.21	.24
1400	28.0	10800		3.2	<.010	.01	--	.140	--	.23	.37
1120	1.6	10800		3.6	<.010	.01	--	.030	--	.13	.16
1125	26.0	10800		3.3	<.010	.01	--	.050	--	.20	.25
1135	70.0	4500		2.9	<.010	.01	--	.210	--	.23	.44
1140	1.6	4500		3.2	<.010	.01	--	.050	--	.12	.17
1150	27.0	10800		2.9	.050	.14	--	.060	--	.41	.47
1200	1.0	10800		3.2	.030	.07	--	.030	--	.25	.28
1225	73.0	4500		1.3	.070	.18	--	.040	--	.56	.60
1230	1.0	4500		2.7	.010	.03	--	.050	--	.22	.63
SEP											
02...	75.0	4500		1.3	.130	.29	--	.050	--	.24	.29
02...	2.0	4500		2.3	.020	.06	--	.040	--	.37	.41
02...	34.0	10800		2.5	.090	.21	--	.030	--	.21	.24
02...	2.0	10800		2.1	.020	.04	--	.030	--	.30	.53
10...	1.6	4500		2.5	<.010	.03	--	.030	--	.34	.33
10...	74.0	4500		2.2	<.010	.05	--	.120	--	.17	.37
10...	26.0	10800		2.0	.060	.16	--	.070	--	.45	.29
10...	1.6	10800		2.9	.030	.10	--	.030	--	.22	.52
1110	1.0	4500		2.9	.020	.08	--	.030	--	.30	.33
1130	72.0	4500		2.3	<.010	.10	--	.130	--	--	.19
1200	1.0	10800		2.6	.010	.08	--	.040	--	.28	.20
1220	37.0	10800		2.2	<.010	.08	--	.120	--	.28	.32
1130	80.0	4500		2.4	.090	.23	--	.090	--	.11	.20

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	P-10S- PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
JUL											
15...	.29	.060	.058	--	--	.9	1.8	1.8	--	--	4
24...	.42	.129	.057	--	--	1.3	4.5	3.4	--	--	11
24...	.38	.054	<.001	--	--	17.6	4.8	19.7	--	--	3
24...	.32	.040	<.001	--	--	3.0	8.8	7.2	--	--	1
24...	.31	.045	<.001	--	--	31.6	4.1	33.1	--	--	2
27...	.37	.034	.006	--	--	28.6	3.8	30.0	--	--	3
27...	.42	.028	.014	--	--	1.8	3.0	3.2	--	--	5
27...	.38	.050	<.001	--	--	--	--	--	--	--	9
27...	.17	.108	.077	--	--	.9	2.0	1.9	--	--	1
AUG											
07...	.45	.096	.029	--	--	54.3	4.8	55.9	--	--	1
07...	.66	.100	.085	--	--	.8	1.8	1.7	--	--	1
07...	--	.051	.028	--	--	1.9	1.9	2.3	--	--	1
07...	--	.064	.019	--	--	34.0	7.2	37.0	--	--	1
14...	.31	.111	.103	--	--	1.5	4.0	3.4	--	--	1
14...	.28	.070	.048	--	--	10.2	2.8	11.4	--	--	4
14...	.26	.505	.045	--	--	9.7	2.3	10.7	--	--	1
14...	.38	.137	.107	--	--	.2	3.9	2.1	--	--	1
17...	.17	.089	.056	--	--	20.9	3.3	22.2	--	--	4
17...	.26	.088	.077	--	--	9.0	3.0	10.3	--	--	8
17...	.45	.134	.120	--	--	6.5	10.4	11.4	--	--	24
17...	.18	.092	.075	--	--	17.0	3.5	18.4	--	--	3
28...	.61	.045	.034	--	--	3.6	3.3	5.2	--	--	4
28...	.35	.038	.028	--	--	7.9	2.9	9.2	--	--	2
28...	.78	.025	.072	--	--	16.0	31.4	31.0	--	--	16
28...	.66	.035	.019	--	--	15.4	3.2	16.8	--	--	1
SEP											
02...	.58	.036	.020	--	--	2.5	3.4	4.2	--	--	3
02...	.47	.028	.009	--	--	6.9	2.8	8.2	--	--	7
02...	.45	.024	.025	--	--	2.5	4.0	4.4	--	--	4
10...	.37	.031	.011	--	--	5.0	2.5	6.1	--	--	--
10...	.40	.023	.024	--	--	9.7	2.8	10.9	--	--	5
10...	.34	.048	.055	--	--	1.0	3.7	2.8	--	--	3
10...	.68	.042	.031	--	--	1.2	2.8	2.6	--	--	2
10...	.43	.038	.019	--	--	9.1	2.5	10.2	--	--	4
17...	--	.040	.014	--	--	10.5	3.0	11.8	--	--	3
17...	--	.063	.050	--	--	2.0	3.1	3.4	--	--	2
17...	.40	.054	.016	--	--	17.3	3.7	18.9	--	--	5
17...	--	.063	.050	--	--	1.4	2.2	2.5	--	--	4
21...	.43	.109	.085	2.5	--	3.0	2.7	4.3	--	--	17

01661475' - POTOMAC R AT PINEY POINT, MD -- Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SID2	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N
SEP			(00003)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00625)	(00623)
21...	1135	1.6	4500	2.5	<.010	.03	--	.040	--	.47	.48
21...	1220	1.6	10800	2.5	<.010	.03	--	.030	--	.27	.20
21...	1225	32.0	10800	2.4	.060	.14	--	.090	--	.40	.41

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DISS- SOLVED (MG/L AS P) (00566)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
SEP											
21...	.51	.092	.049	3.4	--	12.8	3.2	14.2	--	--	36
21...	.23	.073	.049	3.1	--	13.8	3.8	15.5	--	--	9
21...	.55	.079	.066	2.2	--	3.9	4.0	5.8	--	--	6

APPENDIX A-1

380212076195000 -- POTOMAC RIVER AT POINT LOOKOUT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SiO2	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N
(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)	(00625)	(00623)	(00623)
OCT											
22...	1240	2.0	4500	.7	.020	.10	--	.130	.02	.26	.15
22...	1245	50.0	4500	.6	.010	.02	--	.070	.10	.20	.17
22...	1320	2.0	24300	.9	.010	.02	--	.050	.07	.42	.12
22...	1325	20.0	24300	.9	.000	.02	--	.060	.12	.34	.18
NOV											
17...	1235	2.0	24300	.3	.010	.03	--	.060	.14	.36	.20
17...	1240	19.0	24300	.3	.010	.02	--	.040	.14	.28	.18
17...	1315	55.0	4500	.3	.010	.03	--	.050	.17	.22	.22
17...	1320	2.0	4500	.4	.010	.03	--	.070	.15	.18	.22
DEC											
15...	1000	2.0	24300	.1	.000	.01	--	.060	.11	.10	.17
15...	1005	22.0	24300	.1	.010	.03	--	.120	.30	.18	.42
15...	1025	2.0	4500	.1	.010	.47	--	.080	.15	.18	.23
15...	1030	53.0	4500	.1	.000	.01	--	.030	.34	.30	.37
JAN											
22...	1555	2.0	4500	.0	.010	.08	--	.040	--	.15	.10
22...	1600	57.0	4500	.0	<.010	.02	--	.010	--	.10	.10
22...	1625	2.0	24300	.0	<.010	.03	--	.020	--	.24	.10
22...	1630	19.0	24300	.0	<.010	.03	--	.020	.09	.22	.11
FEB											
05...	1100	3.0	4500	.1	.070	1.0	--	.040	.00	.10	.02
05...	1105	60.0	4500	.1	<.010	.02	--	.050	.04	.10	.09
05...	1135	20.0	24300	.0	<.010	.04	--	.050	.03	.10	.08
05...	1140	3.0	24300	.0	<.010	.04	--	.190	.00	.10	.01
MAR											
03...	1000	3.0	24300	.2	.010	.40	--	.040	.13	.30	.17
03...	1005	15.0	24300	.1	.010	.40	--	.040	.17	.28	.21
03...	1045	3.0	4500	.1	.010	.41	.030	.020	.10	.21	.12
03...	1050	53.0	4500	<.1	.010	.11	.040	.040	.12	.19	.16
APR											
16...	1045	2.0	24300	.1	.010	.11	--	.030	.21	.53	.24
16...	1050	18.0	24300	.1	.010	.12	--	.060	.17	.55	.23
16...	1110	2.0	4500	.1	.010	.13	--	.040	.19	.33	.23
16...	1115	55.0	4500	.1	<.010	.14	--	.040	.27	.39	.31
MAY											
20...	1025	2.0	4500	.1	<.010	.04	--	.050	.29	.69	.34
20...	1030	58.0	4500	.3	<.010	.01	--	.080	.17	.31	.25
20...	1045	20.0	24300	.1	.010	.02	--	.070	.18	.39	.25
20...	1050	2.0	24300	.2	<.010	.01	--	.040	.43	.65	.47
JUL											
27...	0925	3.0	24300	1.7	<.010	.02	--	.040	.52	.58	.56

APPENDIX A-1

380212076195000 - POTOMAC RIVER AT POINT LOOKOUT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00566)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT											
22...	.25	.030	.020	3.8	--	6.0	2.7	7.2	--	--	9
22...	.19	.035	.014	7.2	--	6.6	5.3	9.0	--	--	14
22...	.14	.028	.015	3.8	--	12.0	2.4	13.0	--	--	6
22...	.20	.030	.013	4.3	--	10.9	2.5	11.9	--	--	5
NOV											
17...	.23	.034	.021	--	--	13.5	3.9	15.2	--	--	2
17...	.20	.031	.020	--	--	11.4	3.8	13.1	--	--	5
17...	.25	.028	.019	--	--	11.2	3.5	12.8	--	--	4
17...	.25	.024	.027	--	--	14.6	2.8	15.7	--	--	3
DEC											
15...	.18	.000	.005	--	--	13.6	2.3	14.5	--	--	7
15...	.45	.016	.028	--	--	14.1	2.4	15.0	--	--	6
15...	.70	.029	.014	--	--	12.8	2.6	13.9	--	--	2
15...	.38	.029	.001	--	--	15.7	7.6	19.2	--	--	7
JAN											
22...	--	.027	.019	--	--	9.4	.9	9.7	--	--	6
22...	--	.045	.019	--	--	13.1	2.1	14.0	--	--	19
22...	--	.034	.019	--	--	14.0	2.2	14.9	--	--	6
22...	.14	.035	.019	--	--	14.0			--	--	10
FEB											
1.0	.16	.016	.011	--	--	6.6	1.1	7.0	--	--	7
.11	.011	.007	.007	--	--	8.2	1.8	8.9	--	--	8
.12	.034	.009	.009	--	--	13.3	6.2	16.1	--	--	15
.05	.016	.006	.006	--	--	9.0	3.4	10.5	--	--	--
MAR											
.57	.030	.017	.017	--	--	7.6	2.4	8.6	--	--	3
.61	.064	.012	.012	--	--	8.7	2.2	9.6	--	--	2
.53	.032	.012	.012	--	--	37.9	3.0	38.8	--	3.9	6
.27	.028	.013	.013	--	--	17.7	2.4	18.6	--	4.2	5
APR											
.35	.015	.003	.003	--	--	36.2	3.8	37.5	--	--	9
.35	.012	<.001	<.001	--	--	38.7	2.3	39.3	--	--	5
.35	.012	.002	.002	--	--	41.4	9.6	44.5	--	--	7
.45	.009	<.001	<.001	--	--	41.4	5.7	43.6	--	--	39
MAY											
.38	.023	.002	.002	--	--	36.3	3.2	37.3	--	--	5
.26	.027	<.001	<.001	--	--	68.8	7.2	71.2	--	--	7
.27	.023	<.001	<.001	--	--	57.6	5.0	59.2	--	--	7
.48	.030	<.001	<.001	--	--	57.0	4.8	58.5	--	--	7
JUL											
27...	.58	.036	.027	--	--	--	--	--	--	--	1

380212076195000 - POTOMAC RIVER AT POINT LOOKOUT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SI02	NITRO- GEN, VITRITE DIS- SOLVED (MG/L) AS N	NITRO- GEN, N02+N03 DIS- SOLVED (MG/L) AS N	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N	VITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N
		(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)	(00625)
JUL											
27...	0930	24.0	24300	1.7	<.010	.01	--	.030	--	.23	.67
27...	1010	3.0	4500	1.9	<.010	.02	--	.040	--	.23	.48
27...	1015	57.0	4500	2.9	.010	.05	--	.250	--	.26	.30
AUG											
19...	0910	3.0	4500	2.1	<.010	.01	--	.020	--	.25	.32
19...	0915	59.0	4500	2.6	<.010	.01	--	.210	--	.27	.45
19...	1015	3.0	24300	2.4	<.010	.01	--	.100	--	.14	.38
19...	1020	24.0	24300	1.8	.030	.03	--	.080	--	.24	.32
SEP											
10...	1635	3.0	4500	1.1	.010	.02	--	.040	--	.38	.32
10...	1640	57.0	4500	2.1	.160	.35	--	.070	--	.14	.41
21...	1025	3.0	24300	1.6	.010	.01	--	.040	--	.36	.86
21...	1030	26.0	24300	1.7	.020	.06	--	.050	--	.28	.41
21...	1050	3.0	4500	.9	.020	.07	--	.080	--	.31	.26
21...	1055	57.0	4500	2.0	.120	.29	--	.060	--	.19	.46

APPENDIX A-1

380212076195000 - POTOMAC RIVER AT POINT LOOKOUT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DISE- SOLVED (MG/L) AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L) AS P) (00565)	PHOS- PHORUS, DISE- SOLVED (MG/L) AS P) (00566)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00680)	CARBON, ORGANIC DISE- SOLVED (MG/L) AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE- D (MG/L) (80154)
JUL											
27...	.27	.021	.010	--	--	7.2	3.3	8.7	--	--	2
27...	.29	.005	.005	--	--	--	--	--	--	--	1
27...	.55	.117	.106	--	--	.9	1.4	1.6	--	--	4
AUG											
19...	.28	.093	.067	--	--	--	--	--	--	--	4
19...	.49	.146	.104	--	--	--	--	--	--	--	15
19...	.25	.089	.062	--	--	--	--	--	--	--	4
19...	.35	.101	.067	--	--	--	--	--	--	--	2
SEP											
10...	.44	.027	.020	--	--	--	--	--	--	--	1
10...	.56	.038	.036	--	--	1.2	1.7	2.0	--	--	1
21...	.41	.065	.059	2.7	--	--	--	--	--	--	1
21...	.39	.055	.065	3.0	--	10.8	6.0	13.6	--	--	1
21...	.46	.040	.095	2.3	--	--	--	--	--	--	5
21...	.54	.103	.076	2.5	--	4.0	3.1	5.4	--	--	--

380200076124100 - CHESAPEAKE BAY NR POTOMAC R / PT LOOKOUT TRENCH

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- DEPTH (000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(000009)	SILICA, DIS- SOLVED AS SI02	(00955)	NITRO- GEN, NITRITE DIS- SOLVED AS N	(00613)	NITRO- GEN, NITRITE DIS- SOLVED AS N	(00631)	NITRO- GEN, AMMONIA DIS- SOLVED AS N	(00610)	NITRO- GEN, AMMONIA DIS- SOLVED AS N	(00608)	NITRO- GEN, ORGANIC TOTAL AS N	(00605)	NITRO- GEN, ORGANIC DIS- SOLVED AS N	(00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL AS N	(00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. AS N	(00623)
OCT																							
22...	1500	2.0		--	--	.3		.010	.02	--	--	.030	--	--	.12	.30	--	.15		.12	.30	.15	
22...	1505	75.0		--	--	1.0		.020	.03	--	--	.160	--	--	.00	.33	--	.08		.00	.33	.08	
NOV																							
17...	1105	2.0		--	--	.3		.010	.03	--	--	.040	--	--	.13	.48	--	.17		.13	.48	.17	
17...	1110	75.0		--	--	.5		.010	.02	--	--	.080	--	--	.11	.33	--	.19		.11	.33	.19	
DEC																							
15...	0800	2.0		--	--	.0		.010	.02	--	--	.060	--	--	.07	.08	--	.13		.07	.08	.13	
15...	0805	75.0		--	--	.2		.010	.03	--	--	.130	--	--	.00	.29	--	.04		.00	.29	.04	
JAN																							
22...	1815	2.0		--	--	--		<.010	.01	--	--	.030	--	--	.13	.19	--	.16		.13	.19	.16	
22...	1820	72.0		--	--	--		<.010	.01	--	--	.060	--	--	.09	.14	--	.15		.09	.14	.15	
MAR																							
03...	0805	3.0		--	--	.1		<.010	.33	--	--	.040	--	--	.09	.34	--	.13		.09	.34	.13	
03...	0810	72.0		--	--	.1		<.010	.02	--	--	.090	--	--	.07	.26	--	.16		.07	.26	.16	
MAY																							
20...	1245	75.0		--	--	.5		<.010	.02	--	--	.080	--	--	.16	.45	--	.24		.16	.45	.24	
20...	1250	2.0		--	--	<.1		<.010	1.1	--	--	.040	--	--	.33	.81	--	.37		.33	.81	.37	
JUL																							
15...	0730	2.0		--	--	1.9		<.010	.02	--	--	.040	--	--	--	.33	--	4.10		--	.33	4.10	
15...	0735	75.0		--	--	2.3		<.010	.02	--	--	.140	--	--	.14	.61	--	.28		.14	.61	.28	
27...	0715	3.0		--	--	1.4		<.010	.01	--	--	.020	--	--	.25	.47	--	.27		.25	.47	.27	
27...	0720	80.0		--	--	2.9		<.010	.01	--	--	.230	--	--	.36	.70	--	.59		.36	.70	.59	
AUG																							
17...	0845	3.0		--	--	1.1		<.010	.01	--	--	.050	--	--	.20	.26	--	.25		.20	.26	.25	
17...	0850	74.0		--	--	2.9		.040	.04	--	--	.220	--	--	.13	.43	--	.35		.13	.43	.35	
SEP																							
21...	0852	3.0		--	--	1.1		.030	.06	--	--	.060	--	--	.50	.19	--	.56		.50	.19	.56	
21...	0855	83.0		--	--	2.3		.210	.47	--	--	.080	--	--	.10	.23	--	.18		.10	.23	.18	

APPENDIX A-1

380200076124100 - CHESAPEAKE BAY NR POTOMAC R / PT LOOKOUT TRENCH

--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	P-HOS- PHORUS, TOTAL (MG/L AS P) (00665)	P-HOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00580)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT											
22...	.17	.027	.019	3.6	--	13.1	3.1	14.4	--	--	7
22...	.11	.036	.028	3.0	--	1.7	2.5	2.9	--	--	20
NOV											
17...	.20	.029	.032	--	--	11.6	3.0	12.8	--	--	2
17...	.21	.034	.018	--	--	6.4	4.5	8.5	--	--	11
DEC											
15...	.15	.020	.052	--	--	11.8	4.1	13.6	--	--	1
15...	.07	.048	.012	--	--	15.0	7.5	18.4	--	--	17
JAN											
22...	.17	.031	.020	--	--	9.3	1.4	9.9	--	--	6
22...	.16	.052	.016	--	--	13.5	3.0	14.8	--	--	14
MAR											
03...	.45	<.001	.019	--	--	34.6	2.8	35.5	--	--	3
03...	.18	<.001	.027	--	--	11.2	2.9	12.5	--	--	10
MAY											
20...	.25	.041	.005	--	--	17.3	4.5	19.2	--	--	6
20...	1.5	.142	.025	--	--	49.6	5.4	51.6	--	--	4
JUL											
15...	--	.044	.028	--	--	5.6	2.9	6.9	--	--	4
15...	.30	.032	.029	--	--	1.4	1.0	1.8	--	--	5
27...	.28	.049	<.001	--	--	--	--	--	--	--	1
27...	.60	.074	.055	--	--	.4	.4	.6	--	--	4
AUG											
17...	.26	.087	.079	--	--	--	--	--	--	--	4
17...	.39	.151	.145	--	--	1.9	2.0	2.8	--	--	11
SEP											
21...	.62	.063	.095	2.7	--	--	--	--	--	--	--
21...	.65	.102	.098	1.8	--	1.5	2.0	2.5	--	--	1

375248076094200 - CHESAPEAKE BAY NR POTOMAC RIVER OFF SMITH POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SILICA, DIS- SOLVED (MG/L) AS SI02 (00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N (00613)	NITRO- GEN, N02+N03 DIS- SOLVED (MG/L) AS N (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N (00623)
OCT												
22...	1410	132	--	.6	.010	.03	--	.130	--	.11	.41	.24
22...	1415	2.0	--	.6	.010	.02	--	.020	--	.08	.27	.10
NOV												
17...	1150	2.0	--	.2	.010	.15	--	.050	--	.18	.21	.23
17...	1155	130	--	.6	.010	.02	--	.060	--	.12	.57	.18
DEC												
15...	0900	2.0	--	.1	.010	.01	--	.050	--	.09	.11	.14
15...	0905	117	--	.2	.000	.00	--	.110	--	.10	.21	.21
JAN												
22...	1710	2.0	--	.1	<.010	.02	--	.030	--	.08	.22	.11
22...	1715	130	--	.1	<.010	.04	--	.100	--	--	.19	<.10
MAR												
03...	0855	3.0	--	<.1	.010	.22	--	.050	--	.10	.34	.15
03...	0900	127	--	.1	<.010	.02	--	.120	--	.00	.41	.11
MAY												
20...	1135	130	--	.5	<.010	.01	--	.080	--	.21	.32	.29
20...	1140	2.0	--	.1	<.010	.02	--	.040	--	.21	.35	.25
JUL												
27...	0830	3.0	--	1.7	<.010	.02	--	.030	--	.24	.46	.27
27...	0835	90.0	--	2.8	<.010	.01	--	.170	--	.05	.44	.22
AUG												
19...	1210	3.0	--	1.2	<.010	.02	--	.040	--	.05	.31	.09
19...	1225	107	--	2.7	.100	.11	--	.230	--	.02	.24	.25
SEP												
21...	0930	3.0	--	1.3	.020	.01	--	.050	--	.27	.38	.32
21...	0935	120	--	2.2	.210	.48	--	.060	--	.12	.17	.18

APPENDIX A-1

375248076094200 - CHESAPEAKE BAY NR POTOMAC RIVER OFFI SMITH POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 22...	.27	.031	.030	6.0	--	--	2.7	11.6	--	--	5
22...	.12	.036	.015	3.4	--	10.5	--	--	--	--	27
NOV 17...	.39	.028	.019	--	--	13.9	2.9	15.1	--	--	4
17...	.20	.062	.016	--	--	9.3	8.0	13.1	--	--	35
DEC 15...	.15	.005	.006	--	--	8.4	4.6	10.5	--	--	7
15...	.21	.005	.010	--	--	12.3	12.5	18.2	--	--	23
JAN 22...	.13	.032	.019	--	--	10.0	.6	10.2	--	--	4
22...	--	.040	.024	--	--	15.5	5.3	17.8	--	--	20
MAR 03...	.37	<.001	.013	--	--	25.1	2.4	25.9	--	3.3	6
03...	.13	.029	.019	--	--	14.2	6.8	17.3	--	2.4	35
MAY 20...	.30	.027	.003	--	--	14.9	2.5	15.9	--	--	7
20...	.27	.021	<.001	--	--	41.2	2.1	41.7	--	--	5
JUL 27...	.29	.043	.003	--	--	--	--	--	--	--	1
27...	.23	.040	.030	--	--	1.3	1.1	1.9	--	--	1
AUG 19...	.11	.087	.078	--	--	--	--	--	--	--	2
19...	.36	.147	.118	--	--	--	--	--	--	--	7
SEP 21...	.33	.064	.078	--	--	--	--	--	--	--	2
21...	.66	.104	.096	2.9	2.3	1.8	4.6	4.0	--	--	10

APPENDIX A-2.- Chlorophyll-a, pheophytin, dissolved oxygen, pH, specific
conductance, temperature, and Secche depth data

01646580 APPENDIX A-2
 -- POTOMAC R AT CHAIN BRIDGE, AT WASH, DC
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
OCT					
15...	1145	1350	47.2	13.0	52.9
16...	2030	1350	6.3	5.1	8.7
23...	1035	1350	3.5	6.4	6.6
30...	1500	1350	1.5	3.1	3.0
NOV					
06...	1500	1350	5.5	2.7	6.8
10...	1610	1350	3.6	4.3	5.6
17...	0940	1350	1.7	2.4	2.9
17...	2000	1350	1.7	3.8	3.5
24...	1430	1350	3.8	2.7	5.0
24...	1530	1350	3.8	3.0	5.2
24...	1845	1350	3.3	2.9	4.6
25...	0945	1350	12.6	3.5	14.1
25...	0955	1350	11.9	3.4	13.4
25...	0900	1350	63.0	4.0	64.0
DEC					
01...	0950	1350	7.4	5.5	9.9
11...	1015	1350	3.4	3.2	5.0
19...	1250	1350	2.3	1.0	2.8
24...	1025	1350	2.2	.5	2.4
30...	1100	1350	2.9	.9	2.9
JAN					
05...	1035	1350	2.2	1.0	2.7
15...	1530	1350	1.2	.7	1.5
21...	1040	1350	1.5	.8	1.8
28...	1015	1350	2.2	1.0	2.7
29...	1400	1350	2.4	.8	2.7
30...	1500	1350	1.9	.8	2.3
FEB					
02...	1115	1350	5.0	2.7	6.3
03...	1300	1350	7.6	3.0	9.0
04...	1650	1350	10.7	4.1	12.6
07...	1640	1350	8.4	3.2	9.9
10...	1200	1350	7.2	2.5	8.3
11...	1300	1350	8.2	3.7	9.9
12...	1120	1350	30.0	8.1	33.5
13...	1915	1350	24.6	13.1	30.6
14...	1200	1350	14.3	5.9	17.0
15...	1625	1350	12.4	4.6	14.5
16...	1600	1350	13.5	6.4	16.4

APPENDIX A-2

01646580 - POTOMAC R AT CHAIN BRIDGE AT WASH, DC --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM LI BANK) (00009)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
FEB					
17...	0945	1350	10.8	4.0	12.6
18...	0950	1350	11.3	5.3	13.7
19...	1400	1350	11.9	4.7	14.0
19...	1605	1350	15.0	7.1	18.2
20...	1000	1350	23.0	8.4	26.8
21...	1245	1350	69.5	25.3	80.8
21...	1710	1350	97.0	37.9	114
21...	1910	1350	92.8	42.4	112
22...	0842	1350	91.9	46.6	113
22...	0945	1350	99.0	50.4	122
23...	1040	1350	38.3	20.3	47.6
23...	1105	1350	41.2	15.7	48.3
23...	1150	1350	42.0	20.8	51.5
24...	1100	1350	38.0	23.4	48.9
24...	1245	1350	41.0	23.9	52.0
24...	2210	1350	37.0	27.9	50.0
25...	1400	1350	24.5	19.8	33.8
25...	1500	1350	28.1	16.3	35.6
26...	1445	1350	16.7	14.2	23.4
26...	1505	1350	16.5	14.4	23.2
27...	0900	1350	10.7	10.8	15.8
27...	1310	1350	11.5	9.8	16.0
28...	1310	1350	7.7	7.7	11.3
28...	1335	1350	8.3	5.6	10.8
MAR					
01...	1135	1350	7.6	7.2	11.0
02...	1835	1350	6.6	6.6	9.7
03...	1428	1350	6.2	5.2	8.6
03...	1530	1350	6.0	5.1	8.4
04...	1910	1350	4.9	3.4	6.5
05...	1943	1350	5.0	3.3	6.6
07...	1200	1350	4.5	2.7	5.8
08...	1710	1350	3.4	2.7	4.6
09...	1720	1350	2.6	2.3	3.7
10...	1110	1350	2.5	2.4	3.7
10...	1650	1350	3.0	2.4	4.1
12...	1525	1350	3.4	3.1	4.8
13...	1535	1350	4.3	2.7	5.6
14...	1615	1350	5.0	3.5	6.6
15...	1335	1350	5.1	2.9	6.4

APPENDIX A-2

--Cont.

01646580

POTOMAC R AT CHAIN BRIDGE, AT WASH, DC

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
MAR					
16...	1220	1350	7.4	2.7	8.6
16...	1445	1350	7.0	3.2	8.5
18...	1225	1350	7.9	3.8	9.7
19...	1715	1350	5.6	2.0	6.5
20...	0905	1350	4.9	1.8	5.7
21...	1310	1350	5.1	1.7	5.9
22...	1425	1350	5.7	1.6	6.4
23...	2023	1350	6.5	2.7	7.7
24...	2014	1350	6.9	2.4	8.0
25...	2010	1350	7.8	3.1	9.2
26...	1350	1350	9.1	2.8	10.3
27...	1330	1350	10.4	3.3	11.8
29...	1350	1350	12.0	3.8	13.6
30...	1735	1350	18.9	5.6	21.3
APR					
01...	1610	1350	38.0	10.4	42.5
02...	1610	1350	43.0	9.8	47.2
03...	1400	1350	56.7	7.2	59.3
03...	1640	1350	57.2	9.4	60.9
04...	1330	1350	72.2	6.0	74.1
05...	1000	1350	80.0	20.9	89.0
07...	1845	1350	74.6	16.3	81.4
08...	1155	1350	69.8	15.1	76.2
08...	1305	1350	66.7	10.8	71.0
09...	1420	1350	80.6	14.0	86.2
11...	1015	1350	84.5	16.4	91.2
12...	1700	1350	115	17.0	122
13...	2130	1350	116	21.4	125
14...	0020	1350	78.2	55.7	104
14...	1515	1350	75.5	77.0	112
14...	1526	1350	16.2	11.8	21.7
14...	1920	1350	61.6	62.8	91.2
15...	1530	1350	45.4	48.2	68.2
15...	1800	1350	31.4	34.6	47.7
16...	1030	1350	30.9	24.6	42.4
16...	1510	1350	26.5	22.9	37.2
16...	1520	1350	27.3	20.0	36.7
17...	1513	1350	21.5	18.2	30.0
19...	1430	1350	11.1	13.0	17.3
19...	1200	1350	16.1	11.7	21.6

APPENDIX A-2

--Cont.

0-1646580

POTOMAC R AT CHAIN BRIDGE, AT WASH, DC
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L. RANK) (00009)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
APR					
20...	1130	1350	26.7	8.2	30.3
28...	1125	1350	37.2	4.5	38.8
MAY					
02...	1420	1350	41.1	12.7	46.7
06...	1155	1350	73.7	4.9	75.0
07...	1350	1350	32.7	12.9	38.5
08...	0550	1350	21.9	10.3	26.6
08...	1835	1350	23.7	7.2	26.8
09...	0550	1350	17.8	7.6	21.3
09...	1640	1350	19.6	7.3	22.8
10...	0705	1350	19.2	7.4	22.5
10...	1720	1350	22.5	8.4	26.2
11...	0620	1350	22.9	10.1	27.5
12...	1340	1350	24.1	14.8	30.9
13...	1445	1350	24.8	8.0	28.4
14...	0850	1350	33.9	18.7	42.4
14...	1330	1350	28.0	11.1	33.0
16...	1050	1350	10.8	14.9	17.9
18...	1300	1350	12.0	10.9	17.1
19...	0725	1350	8.8	10.2	13.6
20...	1255	1350	10.8	7.6	14.3
22...	0945	1350	10.4	6.3	13.3
22...	1930	1350	11.4	11.3	16.7
26...	1655	1350	11.6	6.3	11.8
27...	1050	1350	161	23.0	169
29...	1300	1350	48.4	17.2	56.0
30...	1745	1350	78.9	10.4	82.8
31...	1600	1350	52.3	36.4	69.2
JUN					
01...	1240	1350	26.4	20.5	36.0
02...	0945	1350	23.0	31.6	38.0
05...	1340	1350	5.0	9.1	9.3
06...	1730	1350	9.3	14.2	16.0
07...	1800	1350	5.4	9.7	10.1
08...	1315	1350	4.6	8.1	8.4
11...	1035	1350	3.7	6.5	6.8
17...	1610	1350	6.6	9.8	10.8
22...	1300	1350	9.1	9.1	13.4
26...	1425	1350	19.2	9.6	23.5
30...	1100	1350	11.9	15.2	19.1

01546580

- POTOMAC R AT CHAIN BRIDGE, AT WASH, DC

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL					
02...	1255	1350	10.3	15.2	17.6
04...	1740	1350	11.2	13.6	17.6
06...	1310	1350	10.9	9.8	15.5
08...	1400	1350	46.2	19.9	55.2
10...	1255	1350	2.7	10.1	7.6
11...	0819	1350	9.9	14.0	16.5
11...	1645	1350	13.1	11.4	18.4
12...	0700	1350	15.0	11.9	20.6
12...	1545	1350	11.9	9.9	16.5
13...	0545	1350	8.0	11.0	13.2
13...	2130	1350	8.2	14.3	15.0
14...	0600	1350	16.0	21.6	26.2
14...	1550	1350	14.5	16.0	22.0
15...	0845	1350	7.0	9.8	11.7
15...	1900	1350	14.5	11.4	19.3
16...	0600	1350	10.8	10.6	15.8
17...	1400	1350	20.0	15.0	27.0
20...	1350	1350	16.7	9.4	21.0
23...	1240	1350	21.3	14.6	28.0
25...	1015	1350	22.7	19.2	31.7
28...	1155	1350	33.5	14.4	40.0
30...	1400	1350	16.9	19.4	26.1
AUG					
03...	0640	1350	99.4	27.7	111
03...	1600	1350	117	21.7	125
04...	0650	1350	62.7	32.8	77.7
04...	1555	1350	69.4	25.9	81.0
05...	0545	1350	51.1	28.2	64.0
05...	1540	1350	57.4	15.4	64.0
06...	0725	1350	51.0	28.3	64.0
06...	1500	1350	46.1	41.1	65.4
07...	0605	1350	31.0	32.6	46.3
07...	1545	1350	34.0	15.2	40.9
10...	1810	1350	92.5	15.6	98.8
11...	0745	1350	90.9	22.4	100
11...	1610	1350	91.8	17.7	99.1
12...	0850	1350	82.0	32.3	96.5
12...	1330	1350	70.8	21.9	80.4
12...	1945	1350	55.7	23.7	66.4
16...	1850	1350	26.7	11.9	32.1

APPENDIX A-2

---Cont.

01646580 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L' BANK) (00009)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG					
19...	1010	1350	64.8	44.8	85.6
21...	1700	1350	13.0	11.7	18.4
25...	1605	1350	10.2	8.9	14.3
26...	1600	1350	9.6	11.8	15.2
27...	1450	1350	9.6	10.4	14.5
28...	1400	1350	10.6	8.2	14.4
29...	1400	1350	12.5	8.8	16.6
30...	1040	1350	8.8	11.6	14.3
31...	1145	1350	6.4	8.3	10.3
SEP					
01...	1100	1350	5.6	6.2	8.5
02...	1310	1350	8.0	7.8	11.6
04...	1215	1350	3.2	6.7	6.4
08...	1500	1350	3.0	5.0	5.4
10...	1030	1350	1.9	5.6	4.6
11...	1445	1350	1.9	2.8	3.2
15...	1230	1350	2.4	3.4	4.0
18...	1520	1350	2.2	3.7	3.9
21...	1520	1350	2.3	3.5	4.0
22...	1530	1350	2.8	3.2	4.3
24...	1420	1350	1.9	2.9	3.2

APPENDIX A-2

385315077031800 -- POTOMAC RIVER AT MEMORIAL BRIDGE

WATER QUALITY DATA-- WATER YEAR: OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
OCT											
02...	1150	18.0	475	462	7.7	21.5	54.0	7.5	--	--	--
02...	1152	10.0	475	462	7.7	21.9	--	8.0	--	--	--
02...	1154	1.0	475	462	7.8	21.9	--	8.1	--	--	--
02...	1200	--	50000	--	--	--	--	--	--	--	4.3
02...	1205	18.0	1180	461	7.7	21.4	42.0	7.8	3.4	2.0	3.3
02...	1206	11.0	1180	461	7.7	21.3	--	7.9	1.7	3.4	2.8
02...	1207	6.0	1180	462	7.8	21.8	--	7.7	4.0	2.1	5.0
02...	1208	1.0	1180	462	7.8	21.8	--	8.0	4.3	2.0	5.2
02...	1210	--	475	--	--	--	--	--	4.3	2.7	5.6
DEC											
16...	1700	17.0	475	337	8.6	4.2	73.0	12.9	--	--	--
16...	1702	1.0	475	337	8.6	4.2	--	13.3	--	--	--
16...	1703	--	1180	--	--	--	--	--	2.7	2.0	3.6
JUL											
08...	2350	--	50000	--	--	--	--	--	51.4	15.8	58.3
08...	2351	--	475	--	--	--	--	--	49.8	18.1	57.8
08...	2352	19.0	475	325	8.3	27.7	--	8.3	52.0	15.9	58.9
08...	2353	10.0	475	323	8.3	27.9	--	8.4	52.0	19.1	60.5
08...	2354	2.0	475	323	8.3	27.9	--	8.4	55.4	14.7	61.7
08...	2357	--	1180	--	--	--	--	--	48.5	15.7	55.4
08...	2358	2.0	1180	323	8.3	27.8	--	8.4	--	--	--
08...	2359	10.0	1180	323	8.3	27.9	--	8.4	--	--	--
08...	2400	18.0	1180	324	8.3	27.8	--	8.4	--	--	--
20...	0920	21.0	475	305	7.7	27.6	36.0	6.1	16.5	12.8	22.5
20...	0921	15.0	475	300	8.2	28.0	--	8.0	38.5	13.8	44.6
20...	0922	10.0	475	295	8.2	27.6	--	8.1	40.0	11.5	45.0
20...	0923	5.0	475	296	8.4	28.1	--	8.6	53.4	15.2	60.0
20...	0924	1.0	475	296	8.4	28.0	--	8.6	54.6	10.4	58.8
20...	0925	--	475	--	--	--	--	--	45.8	14.2	52.1
20...	0930	--	50000	--	--	--	--	--	38.4	12.3	43.8
20...	0932	--	1180	--	--	--	48.0	--	33.3	11.8	38.6
20...	0933	18.0	1180	306	7.7	27.5	--	6.1	--	--	--
20...	0934	15.0	1180	304	8.1	27.9	--	7.6	--	--	--
20...	0935	10.0	1180	306	8.2	28.0	--	8.1	--	--	--
20...	0936	5.0	1180	305	8.3	28.2	--	8.4	--	--	--
20...	0937	1.0	1180	305	8.3	28.2	--	8.5	--	--	--
20...	2114	19.0	475	--	--	--	--	--	23.2	18.0	46.5
20...	2115	21.0	475	311	7.6	27.7	--	5.5	--	--	--
20...	2116	15.0	475	308	8.3	28.5	--	8.8	42.4	8.7	46.0
20...	2117	10.0	475	306	8.4	28.6	--	9.6	54.3	8.0	57.4

APPENDIX A-2

385315077031900 - POTOMAC RIVER AT MEMORIAL BRIDGE --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUL																					
20...	2118	1.0		475		306		8.5		28.7				10.0		58.5		7.9		61.5	
20...	2119	2.0		475												50.2		4.4		51.6	
20...	2120			475																	
20...	2135	19.0		1190		310		8.0		28.1				7.3							
20...	2136	15.0		1190		308		8.2		28.4				8.4							
20...	2137	10.0		1190		307		8.4		28.6				9.4							
20...	2138	1.0		1180		306		8.5		28.7				9.9							
20...	2139			1190																	
20...	2140			50000												53.0		5.7		55.0	
21...	0810	17.0		475		299		7.7		28.1		42.0		5.5		48.5		8.6		51.9	
21...	0811	10.0		475		306		8.0		28.4				6.4		21.3		7.7		24.8	
21...	0812	2.0		475		305		8.1		28.6				7.2		26.6		7.4		29.8	
21...	0813			475												28.8		7.9		32.2	
21...	0815			50000												25.6		6.8		28.5	
21...	0816	17.0		1190		297		7.7		28.2		36.0		5.5		30.0		9.2		34.0	
21...	0817	13.0		1190		305		5.6		28.4				7.7							
21...	0818	10.0		1190		304		8.3		28.7				7.7							
21...	0819	1.0		1190		308		8.3		28.8				7.9							
21...	0820			1190												33.3		8.7		37.1	
21...	1929	19.0		475												22.0		9.4		26.2	
21...	1930	16.0		475		312		7.6		28.6		30.0		5.1		30.0		6.2		32.6	
21...	1931	10.0		475		311		8.0		28.8				6.3							
21...	1932	5.0		475		310		8.4		29.5				8.4		46.5		6.6		49.0	
21...	1933	1.0		475		306		8.6		30.1				9.6		38.0		7.3		41.0	
21...	1934			475												42.3		7.9		45.5	
21...	1945			50000																	
21...	1946	18.0		1190		318		7.4		28.4		32.0		4.3							
21...	1947	10.0		1190		313		8.2		29.0				7.3							
21...	1948	1.0		1180		307		8.6		29.8				9.4							
21...	1949			1190												47.1		6.7		49.7	
22...	0828	18.0		475		310		7.6		28.2		42.0		5.5		18.8		9.9		23.3	
22...	0829	10.0		475		310		7.7		28.3				5.7		18.5		8.3		22.2	
22...	0830	1.0		475		310		7.7		28.3				5.7		21.2		10.6		26.1	
22...	0831			475												19.3		9.5		23.6	
22...	0840			50000												20.3		8.2		24.0	
22...	0841	17.0		1180		311		7.7		28.3		42.0		5.9		22.1		9.3		26.2	
22...	0842			1190																	
AUG																					
06...	1035	19.0		475		350		7.8		27.2		24.0		5.4		35.9		16.7		43.5	
06...	1036	13.0		475		350		7.8		27.3				5.3		35.9		17.1		43.7	

385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION, (FT FM BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG											
06...	1037	7.0	475	350	7.8	27.3	--	5.3	36.7	15.1	43.5
06...	1038	1.0	475	350	7.8	27.2	--	5.4	37.8	15.5	44.7
06...	1039	--	475	--	--	--	--	--	38.7	18.1	46.9
06...	1050	--	50000	--	--	--	--	--	38.3	15.8	45.4
06...	1052	17.0	1190	350	7.9	27.2	27.0	5.7	--	--	--
06...	1053	8.0	1190	350	7.9	27.3	--	5.8	--	--	--
06...	1054	1.0	1190	350	7.9	27.2	--	5.8	--	--	--
06...	1055	--	1190	--	--	--	--	--	40.4	14.7	46.9
24...	1930	20.0	475	388	7.1	24.1	--	4.1	20.5	16.6	28.2
24...	1931	10.0	475	387	7.2	24.0	--	4.5	18.8	12.7	24.6
24...	1932	7.0	475	387	7.3	24.2	--	5.0	18.9	11.5	24.2
24...	1933	4.0	475	387	7.7	24.7	--	6.3	21.0	6.3	23.8
24...	1934	1.0	475	387	7.6	24.7	--	6.5	21.0	6.3	23.8
24...	1935	--	475	--	--	--	--	--	18.2	9.4	22.5
24...	1945	--	50000	--	--	--	--	--	20.0	10.3	24.7
24...	1946	--	1190	--	--	--	--	--	22.7	7.7	26.1
24...	1947	20.0	1190	399	7.3	24.1	--	4.7	--	--	--
24...	1948	10.0	1190	397	7.7	24.6	--	6.4	--	--	--
24...	1949	1.0	1190	387	8.0	24.9	--	7.5	--	--	--
25...	0925	20.0	475	390	6.3	24.1	26.0	5.2	17.4	17.2	25.5
25...	0926	10.0	475	389	6.3	24.0	--	5.2	13.4	10.8	18.4
25...	0927	4.0	475	389	6.3	24.0	--	5.3	14.5	10.4	19.4
25...	0928	1.0	475	389	6.3	24.0	--	5.3	13.6	10.0	18.2
25...	0929	--	475	--	--	--	--	--	12.3	10.0	17.0
25...	0930	--	50000	--	--	--	--	--	13.6	11.0	18.8
25...	0935	--	1190	--	--	--	--	--	14.2	11.5	19.6
25...	0936	1.0	1190	399	6.3	23.9	--	5.5	--	--	--
25...	0937	9.0	1190	390	6.3	23.9	28.0	5.5	--	--	--
25...	0938	18.0	1190	390	6.3	23.8	--	5.5	--	--	--
25...	1945	14.0	475	385	6.3	24.2	30.0	4.9	17.1	14.9	24.0
25...	1946	10.0	475	386	6.3	24.2	--	5.1	16.5	12.3	22.2
25...	1947	4.0	475	385	6.5	24.4	--	6.1	16.9	9.5	21.1
25...	1948	1.0	475	385	6.5	24.4	--	6.3	16.9	7.8	20.4
25...	1949	--	475	--	--	--	--	--	15.4	11.0	20.6
25...	1955	15.0	1190	386	6.3	24.2	29.0	5.2	--	--	--
25...	1956	8.0	1190	385	6.4	24.3	--	5.7	--	--	--
25...	1957	1.0	1190	384	6.6	24.5	--	6.6	--	--	--
25...	1958	--	1190	--	--	--	--	--	16.9	7.0	20.1
25...	2000	--	50000	--	--	--	--	--	16.1	9.9	20.6

385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE

---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLIA FLUORO- METRIC METRIC CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLLIA FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG 26...	0905	21.0	475	389	6.2	23.7	23.0	4.8	12.7	17.0	20.8
26...	0906	10.0	475	388	6.2	23.8	---	4.9	10.8	10.4	15.7
26...	0907	4.0	475	388	6.2	23.8	---	5.1	10.2	9.8	14.8
26...	0908	1.0	475	388	6.2	23.8	---	5.1	11.6	9.8	16.2
26...	0909	---	475	---	---	---	---	---	10.6	10.7	15.6
26...	0915	---	50000	---	---	---	---	---	13.4	14.7	20.4
26...	0917	20.0	1190	388	6.1	23.7	23.0	4.8	---	---	---
26...	0918	10.0	1190	388	6.1	23.8	---	4.8	---	---	---
26...	0919	1.0	1190	388	6.2	23.8	---	5.0	---	---	---
26...	0920	---	1190	---	---	---	---	---	11.4	10.0	16.1
26...	1845	13.0	475	389	7.5	24.4	29.0	5.8	17.1	7.8	20.7
26...	1846	10.0	475	390	7.9	24.9	---	7.7	21.1	7.4	24.4
26...	1847	4.0	475	388	8.3	25.4	---	9.1	31.8	6.6	34.5
26...	1848	1.0	475	388	8.3	25.3	---	9.1	29.5	6.6	32.2
26...	1849	---	475	---	---	---	---	---	21.8	7.2	25.0
26...	1900	---	50000	---	---	---	---	---	23.8	6.6	26.6
26...	1905	23.0	1190	389	7.4	23.8	32.0	5.0	---	---	---
26...	1906	12.0	1190	389	7.5	24.2	---	6.3	---	---	---
26...	1907	1.0	1190	389	7.8	24.5	---	7.6	---	---	---
26...	1908	---	1190	---	---	---	---	---	19.8	7.1	23.0
SEP 04...	0915	---	50000	---	---	---	---	---	14.0	5.8	16.6

APPENDIX A-2

385223077022400 - POTOMAC RIVER AT 14TH STREET BR WASH DC

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	LOC- ATION, CROSS SECTION (FT FM BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
OCT											
21...	0715	18.0	1800	462	7.8	16.2	26.0	9.8	36.3	13.5	42.3
21...	0716	13.0	1800	--	--	--	--	--	37.5	13.6	43.6
21...	0717	11.0	1800	462	7.9	16.3	--	10.0	--	--	--
21...	0719	6.0	1800	461	7.9	16.2	--	10.0	39.4	13.0	45.1
21...	0720	1.0	1800	462	7.9	16.2	--	10.0	40.2	11.0	45.0
21...	0725	--	1800	--	--	--	--	--	38.7	14.1	45.0
NOV											
18...	1545	21.0	1800	486	8.3	7.4	78.0	11.1	1.7	1.5	2.4
18...	1546	11.0	1800	484	8.3	7.5	--	11.0	1.5	1.2	2.1
18...	1547	2.0	1800	490	8.3	7.5	--	11.1	1.1	1.5	1.8
DEC											
16...	1645	20.0	1800	346	8.6	4.6	60.0	12.8	1.9	1.4	2.6
16...	1646	11.0	1800	346	8.6	4.7	--	13.0	2.1	1.4	2.8
16...	1647	5.0	1800	346	8.6	4.7	--	13.0	2.1	1.6	2.8
16...	1649	1.0	1800	346	8.6	4.7	--	13.0	1.8	1.6	2.6
16...	1700	--	1800	--	--	--	--	--	1.8	1.4	2.4
FER											
04...	0730	--	1800	--	--	--	--	--	2.5	1.4	3.1
04...	0815	13.0	1800	445	8.4	.7	18.0	13.6	2.4	1.6	3.2
04...	0817	3.0	1800	448	8.5	.5	--	13.2	2.5	1.4	3.2
MAR											
04...	1055	--	1800	--	--	--	--	--	4.7	3.1	6.1
04...	1100	17.0	1800	204	8.0	6.2	--	12.8	4.3	5.3	6.8
04...	1102	10.0	1800	204	8.0	6.2	--	12.7	4.8	3.1	6.3
04...	1104	2.0	1800	204	8.0	6.2	--	12.7	4.4	3.0	5.8
APR											
15...	0647	19.0	1800	--	--	--	--	--	21.8	26.9	34.6
15...	0650	13.0	1800	179	7.4	12.8	6.0	10.8	--	--	--
15...	0652	6.0	1800	179	7.4	12.8	--	10.8	--	--	--
15...	0654	2.0	1800	179	7.4	12.8	--	10.8	19.8	22.4	30.3
15...	0655	--	1800	--	--	--	--	--	28.5	41.6	48.3
MAY											
19...	0705	20.0	1800	242	7.4	18.2	30.0	8.7	10.6	8.2	14.4
19...	0707	10.0	1800	242	7.4	18.2	--	8.5	10.9	7.2	14.2
19...	0709	2.0	1800	242	7.4	18.2	--	8.6	10.7	7.7	14.3
JUN											
30...	0820	23.0	1800	272	7.9	25.7	20.0	8.6	26.9	14.9	33.8
30...	0821	15.0	1800	273	7.9	25.8	--	8.7	27.2	10.6	31.9
30...	0822	7.0	1800	273	7.9	25.8	--	8.6	28.0	9.1	32.0
30...	0823	2.0	1800	272	7.9	25.8	--	8.7	28.3	9.2	32.3

385223077022400 - POTOMAC RIVER AT 14TH STREET BR WASH DC

---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL	15...	15.0	1800	282	8.2	29.4	30.0	7.3	19.2	8.2	22.9
	15...	11.0	1800	282	8.4	29.6	--	7.9	26.0	5.9	28.5
	15...	7.0	1800	281	8.5	29.8	--	8.3	30.0	5.9	32.4
	15...	2.0	1800	281	8.6	29.9	--	8.6	34.1	5.3	36.2
	28...	16.0	1800	322	8.0	27.2	32.0	7.0	26.0	17.1	34.0
	28...	7.0	1800	319	8.3	27.2	--	7.8	30.9	14.9	37.7
	28...	1.6	1800	318	8.4	27.4	--	8.4	38.9	11.5	43.9
AUG	1415	--	1800	--	--	--	--	--	32.1	14.3	38.5
	1640	20.0	1800	377	7.5	26.3	25.0	5.5	33.6	24.4	45.0
	1642	13.0	1800	380	7.5	26.4	--	5.8	34.8	17.7	42.9
	1643	7.0	1800	390	7.8	26.7	--	6.5	40.9	11.9	46.0
	1644	5.0	1800	392	7.8	26.8	--	6.8	47.6	10.0	51.7
	1646	1.6	1800	391	8.5	27.7	--	10.0	55.9	2.3	56.2
	1650	--	1800	--	--	--	--	--	48.2	9.9	52.3
SEP	0740	21.0	1800	449	7.5	23.1	32.0	6.9	5.0	5.7	7.6
	0741	13.0	1800	447	7.5	23.3	--	7.0	5.0	5.5	7.5
	0742	7.0	1800	447	7.4	23.3	--	7.0	4.4	4.9	6.7
	0743	1.6	1800	447	7.4	23.4	--	7.0	5.0	5.0	7.4
	1210	3.0	1800	469	6.7	24.1	--	6.6	--	--	--
	1215	--	1800	--	--	--	--	--	2.1	5.4	4.6
	1055	13.0	1800	364	7.8	19.7	--	8.7	3.1	4.5	5.3
22...	1056	7.0	1800	365	7.8	20.1	--	8.7	4.0	3.1	5.4
	1059	1.6	1800	366	7.8	20.4	--	8.6	4.4	2.9	5.8

APPENDIX A-2

385039777012500 - POTOMAC RIVER AT GEISBORO POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LINS (00003)	LOC- TION (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (CES C) (00010)	TRANS- PAR- FNCY (SECHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL. A FLUORO- METRIC METHOD CORR. (JG/L) (32209)	PHEOCY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL. A FLUORO- METRIC METHOD (UG/L) (32217)
OCT												
02...	1225	36.0		375	432	6.9	22.3	24.0	4.9	17.9	13.0	17.0
02...	1226	13.0		375	435	6.9	22.6	---	4.7	12.1	10.4	17.0
02...	1227	6.0		375	437	6.8	22.7	---	4.9	11.4	11.0	16.6
02...	1228	1.0		375	435	6.9	22.7	---	5.0	11.9	10.6	16.9
02...	1230	--		50000	--	--	--	---	--	14.5	11.0	19.7
02...	1235	6.0		2800	433	7.0	22.8	19.0	6.0	--	--	--
02...	1236	1.0		2800	433	7.1	22.8	---	6.1	--	--	--
02...	1237	--		2800	--	--	--	---	--	17.9	13.6	24.2
21...	0750	34.0		375	493	7.1	17.6	17.0	7.9	30.4	10.9	35.3
21...	0751	13.0		375	488	7.1	17.6	---	8.1	31.4	10.3	36.0
21...	0752	6.0		375	489	7.1	17.6	---	8.0	33.3	8.4	36.9
21...	0753	1.0		375	488	7.1	17.6	---	8.1	32.9	9.4	37.0
21...	0755	--		375	--	--	--	---	--	30.0	9.8	34.3
NOV												
18...	1525	--		375	--	--	--	---	--	18.7	5.6	21.1
18...	1530	31.0		375	482	8.0	8.6	24.0	10.5	14.5	5.4	16.9
18...	1532	13.0		375	482	8.0	8.8	---	10.3	18.9	5.9	21.5
18...	1534	2.0		375	482	8.0	8.8	---	10.3	20.0	5.8	22.5
DEC												
16...	1615	36.0		375	340	8.0	5.6	---	11.7	3.0	3.0	4.4
16...	1617	22.0		375	342	7.9	5.7	36.0	11.7	3.0	2.9	4.3
16...	1619	13.0		375	343	7.9	5.8	---	11.6	2.9	2.9	4.3
16...	1621	6.0		375	343	7.9	5.7	---	11.6	3.0	2.7	4.3
16...	1622	1.0		375	343	7.9	5.7	---	11.7	2.9	2.9	4.2
16...	1623	--		375	--	--	--	---	--	3.0	2.8	4.3
16...	1630	6.0		2800	340	8.4	4.7	72.0	12.4	--	--	--
16...	1632	1.0		2800	341	8.4	4.7	---	12.6	--	--	--
16...	1633	--		2800	--	--	--	---	--	2.4	1.7	3.2
16...	1640	--		50000	--	--	--	---	--	2.7	2.8	4.0
FEB												
04...	0835	40.0		375	512	8.0	1.4	36.0	13.3	3.3	1.2	3.8
04...	0836	20.0		375	504	8.1	1.2	---	13.1	3.1	1.3	3.7
04...	0837	3.0		375	501	8.3	1.0	---	13.1	2.9	1.3	3.5
04...	0840	--		375	--	--	--	---	--	3.2	1.1	3.7
MAR												
04...	1030	--		375	--	--	--	---	--	3.9	2.6	5.1
04...	1032	30.0		375	204	7.8	6.6	27.0	12.0	4.5	3.6	6.2
04...	1034	18.0		375	205	7.8	6.6	---	12.0	4.4	2.5	5.6
04...	1036	2.0		375	206	7.8	6.7	---	11.9	3.8	2.9	5.1
APR												
15...	0714	37.0		375	--	--	--	---	--	52.0	70.6	85.5
15...	0715	32.0		375	217	7.4	13.4	9.0	10.3	--	--	--
15...	0716	18.0		375	210	7.4	13.3	---	10.3	23.0	22.4	33.5
15...	0717	2.0		375	201	7.4	13.2	---	10.5	20.4	19.2	29.4

385039077012600 - POTOMAC RIVER AT GEISBORO POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
MAY											
19...	0730	39.0	375	234	7.2	17.7	23.0	7.6	11.9	9.9	16.6
19...	0731	27.0	375	243	7.2	17.7	---	7.8	11.5	10.1	16.3
19...	0732	19.0	375	243	7.2	17.7	---	7.9	11.0	9.7	15.5
19...	0733	9.0	375	243	7.2	17.7	---	7.9	10.2	9.8	14.8
19...	0734	2.0	375	242	7.2	17.7	---	7.9	9.8	8.2	13.6
JUN											
30...	0855	39.0	375	260	7.5	25.6	24.0	7.7	23.0	17.0	31.0
30...	0856	34.0	375	271	7.4	25.7	---	7.7	21.2	15.2	28.2
30...	0857	23.0	375	273	7.4	25.8	---	7.7	20.9	13.9	27.3
30...	0858	13.0	375	276	7.3	26.0	---	7.5	20.0	12.5	25.8
30...	0859	2.0	375	283	7.2	26.2	---	7.3	18.9	11.4	24.2
JUL											
08...	2249	---	375	---	---	---	---	---	25.5	9.0	29.5
08...	2250	35.0	375	324	7.5	26.8	---	7.4	22.4	11.3	27.6
08...	2251	22.0	375	324	7.7	27.1	---	8.0	27.0	8.3	30.6
08...	2252	13.0	375	324	7.8	27.2	---	8.2	27.5	9.8	31.9
08...	2253	6.0	375	320	7.8	27.3	---	8.2	29.0	7.3	32.1
08...	2254	2.0	375	315	7.8	27.3	---	8.1	28.7	10.3	33.3
08...	2255	---	50000	---	---	---	---	---	34.4	10.0	38.8
08...	2310	2.0	2800	331	8.0	27.4	---	8.8	30.0	9.8	34.3
08...	2311	---	2800	---	---	---	---	---	29.4	9.5	33.6
15...	1200	3.0	375	---	---	---	---	---	33.9	17.9	42.1
0837	0837	39.0	375	339	7.0	28.4	36.0	6.3	30.0	16.4	37.5
20...	0838	22.0	375	339	7.1	28.5	---	6.3	30.0	19.8	39.2
20...	0839	13.0	375	341	7.1	28.4	---	6.3	31.8	16.4	39.3
20...	0840	6.0	375	341	7.1	28.4	---	6.3	31.0	18.9	39.7
20...	0841	1.0	375	340	7.1	28.4	---	---	34.2	18.3	42.6
20...	0842	---	375	---	---	---	---	---	37.1	14.8	43.8
20...	0855	---	50000	---	---	---	---	---	---	---	---
20...	0901	8.0	2800	299	7.5	28.4	---	6.8	---	---	---
20...	0902	5.0	2800	301	7.5	29.0	---	6.8	---	---	---
20...	0903	1.0	2800	301	7.5	29.1	---	6.8	---	---	---
20...	0904	---	2800	---	---	---	---	---	41.9	18.7	50.4
20...	2029	30.0	375	---	---	---	---	---	52.5	14.1	58.6
20...	2030	33.0	375	297	7.9	28.6	30.0	6.3	49.8	13.5	55.6
20...	2031	22.0	375	306	7.8	28.6	---	7.7	48.4	11.4	53.2
20...	2032	13.0	375	315	7.7	28.6	---	7.5	45.5	12.3	50.8
20...	2033	6.0	375	327	7.5	28.7	---	7.5	50.0	8.7	53.5
20...	2034	1.0	375	308	7.8	28.7	---	7.7	46.9	11.1	51.6
20...	2035	---	375	---	---	---	---	---	55.0	14.0	61.0
20...	2045	---	50000	---	---	---	---	---	---	---	---

385039077012600 - POTOMAC RIVER AT GEISBORO POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC UNCORR. (UG/L) (32217)
JUL											
2050	2050	11.0	2800	294	7.9	28.9	19.0	7.8	--	--	--
2052	2052	6.0	2800	298	7.9	29.6	--	8.0	--	--	--
2054	2054	1.0	2800	300	7.8	29.9	--	7.7	--	--	--
2055	2055	--	2800	--	--	--	--	--	65.0	14.3	71.0
2100	0732	37.0	375	294	7.9	28.0	30.0	6.8	--	--	--
2100	0734	30.0	375	--	--	--	--	--	40.6	19.2	49.4
2100	0736	22.0	375	294	7.8	28.0	--	6.8	36.4	15.1	43.2
2100	0737	13.0	375	294	7.8	28.0	--	6.6	35.1	16.1	42.4
2100	0738	6.0	375	293	7.7	27.9	--	6.6	31.3	16.2	38.7
2100	0739	1.0	375	291	7.7	27.9	--	6.5	32.3	15.0	39.1
2100	0740	--	375	--	--	--	--	--	33.5	18.3	41.9
2100	0745	--	50000	--	--	--	--	--	38.0	17.6	46.0
2100	0747	6.0	2800	295	8.0	27.4	30.0	6.9	--	--	--
2100	0748	3.0	2800	294	8.0	27.3	--	7.0	--	--	--
2100	0749	1.0	2800	294	8.0	27.4	--	7.6	--	--	--
2100	0750	--	2800	--	--	--	--	--	35.8	14.8	42.5
2100	1825	36.0	375	298	7.9	28.9	28.0	7.0	--	--	--
2100	1829	30.0	375	--	--	--	--	--	32.6	17.4	40.6
2100	1831	22.0	375	298	8.2	28.9	--	7.6	40.7	18.8	49.3
2100	1832	13.0	375	296	8.4	29.1	--	8.7	51.7	13.3	57.4
2100	1833	6.0	375	295	8.3	29.2	--	8.3	44.8	14.8	51.3
2100	1834	1.0	375	291	8.0	29.8	--	7.9	42.0	11.0	46.8
2100	1835	--	375	--	--	--	--	--	43.0	15.7	50.0
2100	1845	--	50000	--	--	--	--	--	45.9	13.0	51.6
2100	1847	5.0	2800	296	8.5	28.8	30.0	9.5	--	--	--
2100	1848	3.0	2800	295	8.7	29.2	--	10.2	--	--	--
2100	1849	1.0	2800	295	8.7	29.3	--	10.6	--	--	--
2100	1850	--	2800	--	--	--	--	--	59.1	8.5	62.3
2200	0800	29.0	375	297	7.9	28.4	38.0	7.4	36.4	19.5	45.4
2200	0801	22.0	375	299	7.8	28.3	--	7.1	34.0	20.5	43.4
2200	0802	13.0	375	298	7.7	28.4	--	6.9	32.8	20.1	42.1
2200	0803	6.0	375	299	7.8	28.3	--	7.0	30.0	20.0	39.3
2200	0804	1.0	375	298	7.7	28.3	--	7.0	35.7	18.3	44.1
2200	0805	--	375	--	--	--	--	--	33.8	19.5	43.0
2200	0810	5.0	2800	297	8.4	28.0	30.0	8.9	--	--	--
2200	0811	1.0	2800	297	8.4	27.9	--	8.8	--	--	--
2200	0812	--	2800	--	--	--	--	--	48.6	19.9	57.5
2200	0815	--	50000	--	--	--	--	--	34.0	21.1	43.8
2800	1330	--	375	--	--	--	--	--	31.7	14.2	38.1

385039077012600 - POTOMAC RIVER AT GEISBORG POINT ---Cont

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (JG/L)	(32209)	PHENOL FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUL																					
28...	1340	33.0		375		313		7.9		27.7		25.0		6.3		31.5		16.0		38.8	
28...	1341	20.0		375		313		7.8		27.7				6.0		30.6		14.9		37.4	
28...	1342	13.0		375		313		7.8		27.7				6.0		30.6		14.6		37.2	
28...	1343	7.0		375		313		7.8		27.7				6.0		31.3		13.7		37.5	
28...	1344	2.0		375		312		7.8		27.8				6.0		32.1		14.0		38.4	
AUG																					
06...	1115	--		50000		--		--		--				--		59.5		18.8		67.8	
06...	1119	--		375		--		--		--				--		50.3		19.4		59.0	
06...	1120	30.0		375		352		7.8		27.3		21.0		6.6		52.2		22.9		62.6	
06...	1121	22.0		375		352		7.8		27.3				6.6		48.0		22.0		58.0	
06...	1122	15.0		375		351		7.8		27.3				6.7		56.1		18.9		64.5	
06...	1123	6.0		375		350		7.8		27.3				6.7		56.8		16.0		63.8	
06...	1124	1.0		375		350		7.8		27.2				6.7		55.0		17.6		62.8	
06...	1125	7.0		2800		343		8.0		26.8				7.3		--		--		--	
06...	1126	1.0		2800		351		7.9		27.0				7.4		--		--		--	
06...	1127	--		2800		--		--		--				--		68.0		13.4		73.5	
18...	1620	--		375		--		--		--				--		45.9		17.1		53.6	
18...	1622	33.0		375		352		7.5		26.3		24.0		5.9		34.8		24.2		46.0	
18...	1623	26.0		375		351		7.4		26.3				6.0		38.2		21.5		48.1	
18...	1624	20.0		375		350		7.4		26.4				6.0		37.2		19.6		46.2	
18...	1625	13.0		375		344		7.7		26.5				7.5		47.0		18.9		55.5	
18...	1626	7.0		375		339		7.9		27.0				8.1		55.6		15.8		62.5	
18...	1627	1.5		375		325		8.4		27.7				9.7		69.0		14.6		74.1	
18...	1628	3.0		375		337		8.0		27.3				8.4		61.2		13.7		67.0	
24...	1900	29.0		375		411		7.3		24.6				7.0		54.7		11.6		59.5	
24...	1902	10.0		375		411		7.5		24.7				7.8		60.5		11.5		65.2	
24...	1904	4.0		375		408		7.5		24.7				7.9		56.2		14.9		62.7	
24...	1906	1.0		375		410		7.6		24.7				8.0		59.5		16.2		66.5	
24...	1914	--		375		--		--		--				--		53.4		12.2		58.6	
24...	1915	--		50000		--		--		--				--		48.0		12.8		53.5	
24...	1917	7.0		2800		398		7.5		24.6				6.8		--		--		--	
24...	1918	1.0		2800		399		7.5		24.6				7.0		--		--		--	
24...	1919	--		2800		--		--		--				--		33.4		14.4		39.9	
25...	0850	33.0		375		399		6.3		24.3		19.0		6.6		32.4		20.0		41.6	
25...	0851	20.0		375		406		6.3		24.3				6.6		--		--		--	
25...	0852	10.0		375		407		6.3		24.3				6.5		36.4		20.3		45.7	
25...	0853	4.0		375		409		6.3		24.3				6.6		35.5		18.1		43.8	
25...	0854	1.0		375		411		6.3		24.3				6.5		38.4		18.5		46.8	
25...	0855	--		375		--		--		--				--		35.9		18.9		44.6	
25...	0900	--		50000		--		--		--				--		34.3		19.2		43.1	

385039077012500 - POTOMAC RIVER AT GEISBORO POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHDS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)
(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)		
AUG											
25...	0905	10.0	2800	397	6.5	23.9	18.0	6.8	--	--	--
25...	0907	1.0	2800	397	6.5	23.9	--	6.9	--	--	--
25...	0909	--	2800	--	--	--	--	--	--	--	--
25...	1910	29.0	375	411	6.3	24.6	24.0	5.7	29.2	14.9	36.0
25...	1911	20.0	375	412	6.3	24.6	--	5.9	38.9	21.8	48.9
25...	1912	10.0	375	418	6.4	24.9	--	7.2	49.0	--	--
25...	1913	4.0	375	421	6.7	25.0	--	8.3	61.0	12.8	54.5
25...	1914	1.0	375	422	6.7	25.0	--	8.4	65.6	16.7	68.3
25...	1915	--	375	--	--	--	--	--	45.5	9.7	69.4
25...	1927	10.0	2800	398	7.2	25.2	23.0	9.4	--	14.9	52.0
25...	1928	5.0	2800	396	7.2	25.2	--	9.6	--	--	--
25...	1929	1.0	2800	392	7.3	25.2	--	9.8	--	--	--
25...	1930	--	2800	--	--	--	--	--	--	--	--
26...	0750	--	375	--	--	--	--	--	65.4	9.4	69.1
26...	0830	29.0	375	408	6.2	--	--	--	35.3	17.3	43.2
26...	0831	20.0	375	407	6.2	24.4	21.0	6.0	39.0	19.7	48.0
26...	0832	10.0	375	409	6.2	24.3	--	6.1	--	--	--
26...	0833	4.0	375	414	6.2	24.4	--	6.2	38.0	19.8	47.1
26...	0834	1.0	375	417	6.2	24.4	--	6.2	42.6	21.7	52.6
26...	0842	--	2800	--	--	--	--	--	40.7	18.9	49.3
26...	0843	7.0	2800	392	6.7	--	16.0	7.4	43.0	16.7	50.5
26...	0844	1.0	2800	392	6.7	24.0	--	7.5	--	--	--
26...	0845	--	5000	--	--	--	--	--	40.8	15.7	47.8
26...	1814	26.0	375	--	--	--	--	--	40.0	16.0	47.5
26...	1815	36.0	375	420	7.1	--	--	--	--	--	--
26...	1816	10.0	375	428	7.2	24.6	23.0	5.7	49.3	14.7	55.7
26...	1817	7.0	375	435	7.4	25.0	--	7.0	57.1	12.7	62.4
26...	1818	4.0	375	445	7.6	25.3	--	8.7	62.2	11.0	68.7
26...	1819	1.0	375	443	7.6	25.5	--	9.0	62.4	11.9	70.2
26...	1820	--	375	--	--	--	--	--	45.7	10.4	51.6
26...	1825	--	5000	--	--	--	--	--	51.2	13.2	57.0
26...	1830	8.0	2800	410	8.2	25.8	22.0	10.3	--	--	--
26...	1832	1.0	2800	408	8.2	25.8	--	10.0	--	--	--
26...	1833	--	2800	--	--	--	--	--	78.5	12.4	83.4
SEP											
10...	0700	--	375	--	--	--	--	--	15.3	10.2	20.1
16...	1140	--	375	--	--	--	--	--	15.2	12.8	11.0
16...	1145	3.0	375	496	6.5	23.9	--	6.0	--	--	--
16...	1150	3.0	2800	497	6.8	23.6	--	6.9	--	--	--
16...	1155	--	2800	--	--	--	--	--	10.2	10.2	15.0

385039077012600 - POTOMAC RIVER AT GEISBORO POINT --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
SEP 22...	0935	--	375	--	--	--	--	--	10.4	7.8	14.1

APPENDIX A-2

384852077020500 - POTOMAC RIVER AT MARBURY POINT

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECKI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
OCT											
02...	1255	22.0	1200	435	6.8	22.9	26.0	5.1	12.2	13.0	18.3
02...	1256	9.0	1200	433	6.8	23.1	---	5.2	10.8	7.7	14.4
02...	1257	1.0	1200	429	6.8	23.2	---	5.3	8.3	6.0	11.0
02...	1320	18.0	2100	448	6.8	22.7	26.0	4.7	---	---	---
02...	1321	9.0	2100	445	6.8	22.7	---	4.6	---	---	---
02...	1322	1.0	2100	443	6.8	22.8	---	4.7	---	---	---
02...	1323	---	2100	---	---	---	---	---	9.6	9.8	14.2
21...	0810	25.0	1200	501	6.8	17.8	28.0	7.2	18.8	7.8	22.3
21...	0811	9.0	1200	495	6.8	17.9	---	7.2	16.8	6.1	19.5
21...	0812	4.0	1200	491	6.9	18.0	---	7.2	15.0	7.2	18.3
21...	0813	1.0	1200	499	6.9	18.0	---	7.2	16.0	6.7	19.0
21...	0826	27.0	2100	498	6.9	18.0	---	7.3	---	---	---
21...	0827	9.0	2100	490	6.9	18.1	---	7.2	---	---	---
21...	0828	1.0	2100	488	7.0	20.1	---	7.4	---	---	---
21...	0829	---	2100	---	---	---	---	---	20.4	7.8	23.8
NOV											
18...	1455	21.0	1200	499	7.8	9.2	23.0	9.9	17.6	5.4	20.0
18...	1456	9.0	1200	499	7.8	9.3	---	9.8	17.5	5.7	20.0
18...	1457	2.0	1200	499	7.8	9.2	---	9.8	17.7	5.0	19.9
18...	1505	24.0	2100	496	7.8	9.2	29.0	10.0	---	---	---
18...	1506	9.0	2100	496	7.8	9.2	---	9.9	---	---	---
18...	1507	2.0	2100	495	7.8	9.2	---	9.9	---	---	---
18...	1508	---	2100	---	---	---	---	---	16.8	6.0	19.4
18...	1515	---	50000	---	---	---	---	---	16.2	6.0	18.9
DEC											
16...	1540	23.0	1200	339	7.9	6.3	29.0	11.3	2.9	3.8	4.7
16...	1541	16.0	1200	338	7.9	7.0	---	11.2	3.0	3.7	4.7
16...	1542	9.0	1200	339	7.9	7.8	---	11.2	2.9	3.4	4.5
16...	1543	4.0	1200	339	7.9	7.9	---	11.2	2.6	3.4	4.2
16...	1544	1.0	1200	339	8.0	7.9	---	11.2	2.7	3.5	4.4
16...	1545	---	1200	---	---	---	---	---	2.6	3.8	4.4
16...	1550	---	50000	---	---	---	---	---	2.8	3.6	4.5
16...	1556	25.0	2100	338	7.9	6.5	30.0	11.1	---	---	---
16...	1557	9.0	2100	338	8.0	7.4	---	11.2	---	---	---
16...	1558	1.0	2100	338	8.0	7.4	---	11.3	---	---	---
16...	1559	---	2100	---	---	---	---	---	2.9	3.7	4.6
FEB											
04...	0850	24.0	1200	506	8.1	2.3	48.0	12.9	4.0	1.5	4.7
04...	0851	13.0	1200	508	8.3	1.5	---	12.9	3.5	1.3	4.1
04...	0852	3.0	1200	507	8.3	1.5	---	12.9	3.4	1.4	4.0

384852077020500 - POTOMAC RIVER AT MARGURY POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (000095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
FEB 04...	0855	--	1200	--	--	--	--	--	3.3	1.5	4.0
MAR 04...	1015	--	1200	--	--	--	--	--	5.7	4.2	7.6
04...	1020	23.0	1200	202	7.9	6.6	24.0	12.0	7.9	6.9	11.1
04...	1021	12.0	1200	202	7.9	6.6	--	12.0	5.4	4.8	7.7
04...	1022	2.0	1200	202	7.9	6.7	--	12.0	4.5	4.1	6.5
APR 0730		26.0	1200	219	7.4	13.6	12.0	10.3	55.6	75.4	91.4
15...	0731	13.0	1200	216	7.4	13.6	--	10.3	23.0	24.8	34.7
15...	0732	2.0	1200	227	7.4	13.6	--	10.2	19.2	20.0	28.6
MAY 0630		3.0	1200	--	--	--	--	--	7.8	12.3	13.6
19...											
JUN 0920		3.0	1200	--	--	--	--	--	15.2	10.4	20.0
30...											
JUL 2220		--	50000	--	--	--	--	--	25.6	7.9	29.0
08...	2222	21.0	1200	373	7.0	27.3	--	7.9	23.8	6.0	26.4
08...	2223	15.0	1200	360	7.2	27.3	--	8.2	24.7	5.6	27.1
08...	2224	7.0	1200	373	7.2	28.0	--	8.3	22.9	6.3	25.6
08...	2225	2.0	1200	328	7.9	28.7	--	8.6	25.4	7.2	28.6
08...	2226	--	1200	--	--	--	--	--	25.9	7.2	29.0
08...	2230	23.0	2100	350	7.4	27.1	--	8.0	--	--	--
08...	2231	16.0	2100	334	7.5	27.1	--	8.1	--	--	--
08...	2232	9.0	2100	323	7.5	27.2	--	8.2	--	--	--
08...	2233	2.0	2100	324	7.8	27.8	--	8.6	--	--	--
08...	2234	--	2100	--	--	--	--	--	24.0	8.1	27.6
15...	0800	4.0	1200	309	7.8	29.4	--	6.6	29.0	9.0	33.0
20...	0815	25.0	1200	318	7.0	28.6	30.0	5.8	36.8	28.1	49.8
20...	0816	16.0	1200	317	7.0	28.6	--	6.0	37.2	20.7	46.7
20...	0817	9.0	1200	317	7.0	28.6	--	6.1	36.7	20.3	46.0
20...	0818	1.0	1200	317	7.0	28.6	--	6.1	36.3	17.4	44.2
20...	0819	--	1200	--	--	--	--	--	35.5	21.4	45.4
20...	0825	--	50000	--	--	--	--	--	33.6	19.4	42.5
20...	0826	24.0	2100	314	6.9	28.6	34.0	5.3	--	--	--
20...	0827	12.0	2100	314	6.9	28.7	--	5.3	--	--	--
20...	0828	1.0	2100	314	6.9	28.6	--	5.4	--	--	--
20...	0829	--	2100	--	--	--	--	--	28.6	19.2	37.5
20...	1944	25.0	1200	328	7.1	28.6	21.0	6.7	42.0	18.8	50.5
20...	1946	16.0	1200	314	7.6	29.2	--	7.7	53.8	10.1	57.9
20...	1947	9.0	1200	314	7.6	29.3	--	7.8	53.5	11.9	58.5

384852077020500 - POTOMAC RIVER AT MARBURY POINT --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL 20...	1948	1.0	1200	321	7.5	29.3	---	7.7	51.0	11.8	56.0
20...	1949	--	1200	--	--	--	---	--	50.8	13.4	56.5
20...	2000	--	50000	--	--	--	---	--	50.3	12.5	55.6
20...	2002	26.0	2100	301	7.7	28.6	34.0	7.6	--	--	--
20...	2004	13.0	2100	308	7.6	29.2	---	7.9	--	--	--
20...	2006	1.0	2100	310	7.7	29.2	---	7.5	--	--	--
20...	2007	--	2100	--	--	--	---	--	53.5	15.0	60.0
21...	0712	25.0	1200	364	6.8	28.2	30.0	6.0	29.6	15.9	36.8
21...	0713	18.0	1200	322	7.2	28.2	---	6.3	34.6	17.4	42.5
21...	0714	12.0	1200	309	7.4	28.4	---	6.4	37.3	14.4	43.7
21...	0715	6.0	1200	304	7.5	28.5	---	6.4	37.0	16.3	44.4
21...	0716	1.0	1200	305	7.5	28.5	---	6.4	38.1	15.0	44.8
21...	0717	--	1200	--	--	--	---	--	34.3	15.7	41.4
21...	0720	24.0	2100	353	7.0	28.2	30.0	6.1	--	--	--
21...	0721	13.0	2100	301	7.6	28.7	---	6.5	--	--	--
21...	0722	1.0	2100	299	7.6	28.4	---	6.4	--	--	--
21...	0723	--	2100	--	--	--	---	--	39.4	16.6	46.9
21...	0730	--	50000	--	--	--	---	--	33.6	16.9	41.3
21...	1749	24.0	1200	--	--	--	---	--	53.0	17.0	60.5
21...	1750	22.0	1200	301	8.2	29.0	24.0	8.0	49.7	16.4	56.9
21...	1751	16.0	1200	301	8.2	28.9	---	8.0	52.0	17.0	59.5
21...	1752	9.0	1200	301	8.2	28.8	---	7.9	55.9	13.4	61.6
21...	1753	1.0	1200	301	8.3	32.0	---	8.5	49.7	16.9	57.2
21...	1754	--	1200	--	--	--	---	--	52.0	17.0	59.5
21...	1800	--	50000	--	--	--	---	--	--	--	--
21...	1805	20.0	2100	304	8.1	29.2	24.0	7.5	--	--	--
21...	1806	11.0	2100	299	8.3	28.9	---	8.4	--	--	--
21...	1807	1.0	2100	299	8.4	30.6	---	9.0	--	--	--
21...	1808	--	2100	--	--	--	---	--	60.5	11.5	65.2
22...	0735	23.0	1200	374	6.8	27.8	30.0	6.4	28.4	21.3	38.3
22...	0736	16.0	1200	334	7.3	28.1	---	6.6	34.4	19.9	43.5
22...	0737	9.0	1200	318	7.4	28.4	---	6.7	33.8	20.2	43.1
22...	0738	1.0	1200	308	7.6	28.8	---	7.0	38.6	17.9	46.7
22...	0739	--	1200	--	--	--	---	--	30.8	18.0	39.1
22...	0745	21.0	2100	301	7.9	28.2	30.0	7.4	--	--	--
22...	0746	10.0	2100	303	7.9	28.7	---	7.3	--	--	--
22...	0747	1.0	2100	304	7.8	28.7	---	7.3	--	--	--
22...	0748	--	2100	--	--	--	---	--	40.9	20.0	50.0
22...	0750	--	50000	--	--	--	---	--	36.4	19.8	45.4

APPENDIX A-2

384852077020500 - POTOMAC RIVER AT MARBURY POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOCATION CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
JUL 28...	1430	--	1200	--	--	--	--	--	37.0	17.6	45.0
AUG 06...	1149	--	1200	--	--	--	--	--	51.3	26.4	63.4
06...	1150	25.0	1200	375	7.5	27.6	18.0	6.3	56.8	28.2	69.6
06...	1151	18.0	1200	375	7.5	27.7	--	6.3	50.7	23.2	61.2
06...	1152	12.0	1200	374	7.6	27.7	--	6.3	48.6	22.9	59.0
06...	1153	6.0	1200	374	7.6	27.7	--	6.4	55.4	24.3	66.4
06...	1154	1.0	1200	374	7.6	27.8	--	6.4	44.0	23.0	54.5
06...	1155	--	50000	--	--	--	--	--	58.3	24.0	69.1
06...	1204	24.0	2100	375	7.6	27.8	--	6.3	--	--	--
06...	1205	12.0	2100	375	7.6	27.8	--	6.3	--	--	--
06...	1206	1.0	2100	375	7.6	27.8	--	6.5	--	--	--
06...	1207	--	2100	--	--	--	--	--	51.2	23.4	61.8
18...	1554	--	1200	--	--	--	--	--	37.5	18.4	45.9
18...	1555	21.0	1200	363	7.3	26.3	24.0	5.6	31.2	25.9	43.4
18...	1556	13.0	1200	362	7.4	26.3	--	5.7	31.4	22.0	41.7
18...	1557	7.0	1200	361	7.4	26.4	--	5.9	34.0	18.8	42.6
18...	1558	5.0	1200	363	7.4	26.5	--	5.9	34.1	16.7	41.7
18...	1559	1.6	1200	359	7.7	26.9	--	7.5	49.4	13.1	55.0
18...	1600	--	50000	--	--	--	--	--	46.6	19.1	55.2
18...	1603	20.0	2100	355	7.6	26.4	--	6.9	--	--	--
18...	1604	10.0	2100	353	7.7	26.6	--	7.6	--	--	--
18...	1605	5.0	2100	352	8.0	27.1	--	8.4	--	--	--
18...	1606	1.6	2100	353	8.1	28.5	--	8.4	--	--	--
18...	1607	--	2100	--	--	--	--	--	53.3	18.0	61.2
24...	1830	--	50000	--	--	--	--	--	50.4	16.5	57.7
24...	1831	21.0	1200	416	7.1	24.5	27.0	6.2	49.8	24.7	61.1
24...	1832	10.0	1200	416	7.3	24.7	--	7.4	59.0	13.1	64.5
24...	1833	4.0	1200	413	7.6	25.4	--	8.5	67.8	10.6	71.9
24...	1834	1.0	1200	413	7.7	25.4	--	8.6	70.0	8.3	73.0
24...	1835	--	1200	--	--	--	--	--	54.7	12.5	60.0
24...	1840	25.0	2100	416	7.1	24.5	--	6.2	--	--	--
24...	1841	13.0	2100	415	7.2	24.3	--	7.1	--	--	--
24...	1842	1.0	2100	410	7.4	26.8	--	7.5	--	--	--
24...	1843	--	2100	--	--	--	--	--	48.8	17.5	56.5
25...	0815	25.0	1200	416	6.3	24.2	19.0	6.6	44.0	22.6	54.3
25...	0816	10.0	1200	423	6.3	24.3	--	6.6	36.9	17.8	45.0
25...	0817	4.0	1200	423	6.3	24.3	--	6.6	37.2	16.7	44.8
25...	0818	1.0	1200	422	6.3	24.3	--	6.7	35.2	17.6	43.3
25...	0819	--	1200	--	--	--	--	--	39.8	15.7	46.9

APPENDIX A-2

384852077020500 - POTOMAC RIVER AT MARBURY POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)		
AUG	0820	--	50000	--	--	--	--	--	38.4	18.5	46.8
25...	0825	24.0	2100	422	6.3	23.9	22.0	6.7	--	--	--
25...	0826	12.0	2100	419	6.3	24.3	--	6.6	--	--	--
25...	0827	1.0	2100	422	6.3	24.4	--	6.7	--	--	--
25...	0828	--	2100	--	--	--	--	--	41.1	16.2	48.4
25...	1845	25.0	1200	416	6.4	24.9	23.0	7.0	57.8	24.6	68.9
25...	1846	10.0	1200	414	6.6	25.1	--	7.7	54.4	20.0	63.3
25...	1847	4.0	1200	416	6.8	25.9	--	8.4	66.8	12.0	71.6
25...	1848	1.0	1200	415	6.8	26.1	--	8.5	67.3	15.1	73.6
25...	1849	--	1200	--	--	--	--	--	57.3	14.8	63.6
25...	1855	24.0	2100	415	6.4	24.9	22.0	6.5	--	--	--
25...	1856	12.0	2100	414	6.7	25.6	--	7.9	--	--	--
25...	1857	1.0	2100	414	6.9	28.8	--	8.1	--	--	--
25...	1858	--	2100	--	--	--	--	--	61.8	12.2	66.8
25...	1900	--	50000	--	--	--	--	--	61.5	14.2	67.5
26...	0802	26.0	1200	422	6.2	24.3	18.0	6.9	60.6	29.0	73.8
26...	0803	10.0	1200	419	6.3	24.4	--	7.0	56.4	16.6	63.7
26...	0804	4.0	1200	419	6.3	24.4	--	7.1	57.2	18.4	65.2
26...	0805	1.0	1200	419	6.3	24.4	--	7.1	55.5	18.1	63.5
26...	0806	--	1200	--	--	--	--	--	51.9	19.4	60.5
26...	0811	25.0	2100	418	6.3	24.6	19.0	6.8	--	--	--
26...	0812	12.0	2100	418	6.3	25.0	--	6.7	51.7	20.6	60.9
26...	0813	1.0	2100	420	6.3	27.4	--	6.8	51.5	18.0	59.5
26...	0814	--	2100	--	--	--	--	--	54.7	17.6	62.4
26...	0815	--	50000	--	--	--	--	--	60.4	16.4	67.5
26...	1755	25.0	1200	416	7.4	24.8	17.0	7.7	61.4	14.9	67.7
26...	1756	10.0	1200	414	7.6	25.0	--	8.8	77.1	11.1	81.4
26...	1757	4.0	1200	419	7.9	25.2	--	9.5	76.0	9.5	79.5
26...	1758	1.0	1200	419	7.8	25.1	--	9.6	65.9	13.6	71.6
26...	1759	--	1200	--	--	--	--	--	73.0	10.8	77.2
26...	1800	--	50000	--	--	--	--	--	--	--	--
26...	1805	20.0	2100	414	7.7	25.0	20.0	8.7	--	--	--
26...	1806	10.0	2100	412	8.0	26.0	--	9.8	--	--	--
26...	1807	1.0	2100	421	7.5	29.6	--	7.7	--	--	--
26...	1808	--	2100	--	--	--	--	--	70.6	11.1	75.0
SEP	0945	--	50000	--	--	--	--	--	35.4	14.1	41.9
04...	1130	3.0	1200	510	6.5	23.9	--	6.0	15.0	15.9	22.5
16...	1131	--	1200	--	--	--	--	--	11.7	9.1	16.0
16...	1000	--	1200	--	--	--	--	--	--	--	--

01652590 - POTOMAC R AT ALEXANDRIA, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- L (00003)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
				(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
02...	1325	13.0		300	445	6.7	22.7	26.0	4.9	9.8	7.5	13.3
02...	1326	6.0		300	440	6.8	22.8	--	4.9	8.2	6.1	11.1
02...	1327	1.0		300	440	6.8	22.8	--	4.9	9.5	6.5	12.5
02...	1330	1.0		1000	429	6.8	22.9	30.0	4.8	--	--	--
02...	1331	--		1000	--	--	--	--	--	8.0	6.2	10.9
02...	1335	--		4000	--	--	--	--	--	8.0	6.2	10.9
02...	1350	26.0		3100	416	6.7	22.6	30.0	4.8	7.0	6.6	10.1
02...	1351	11.0		3100	415	6.8	22.7	--	4.8	6.6	5.3	9.0
02...	1352	6.0		3100	413	6.7	22.8	--	4.8	4.7	5.1	7.2
02...	1355	1.0		3100	419	6.7	22.8	--	4.7	4.0	6.4	7.1
02...	1400	--		3000	--	--	--	--	--	8.4	6.4	11.4
02...	1410	30.0		3800	420	6.7	22.6	25.0	4.4	--	--	--
02...	1411	14.0		3800	413	6.7	22.7	--	4.7	--	--	--
02...	1412	1.0		3800	410	6.6	23.0	--	5.3	--	--	--
02...	1413	--		3800	--	--	--	--	--	6.8	6.1	9.7
03...	1140	11.0		600	472	6.5	21.0	19.0	5.8	9.3	7.4	12.8
03...	1141	6.0		600	473	6.5	21.2	--	5.5	10.2	7.5	13.8
03...	1142	1.0		600	475	6.4	21.2	--	5.4	10.2	7.0	13.5
03...	1145	32.0		3400	447	6.6	21.3	26.0	5.1	11.7	10.6	16.7
03...	1146	11.0		3400	446	6.6	21.6	--	5.2	12.9	8.4	16.8
03...	1147	6.0		3400	446	6.6	21.6	--	5.2	13.5	8.9	17.6
03...	1148	1.0		3400	446	6.7	21.4	--	5.3	15.6	8.5	19.5
15...	0940	--		4000	--	--	--	--	--	10.0	4.9	12.2
15...	0941	30.0		3800	429	7.3	15.9	44.0	6.7	--	--	--
15...	0942	15.0		3800	427	7.2	15.9	--	6.7	--	--	--
15...	0943	3.0		3800	430	7.2	16.1	--	6.7	--	--	--
15...	0944	14.0		3100	433	7.2	16.0	--	6.7	--	--	--
15...	0945	8.0		3100	434	7.2	15.9	35.0	6.7	--	--	--
15...	0947	3.0		3100	433	7.2	15.9	--	6.6	--	--	--
15...	0955	--		3000	--	--	--	--	--	11.6	5.6	14.1
15...	0957	3.0		1000	460	7.2	15.8	35.0	7.4	--	--	--
15...	1000	12.0		300	466	7.2	15.9	36.0	7.3	--	--	--
15...	1001	8.0		300	467	7.2	15.9	--	7.2	--	--	--
15...	1002	3.0		300	480	7.1	16.1	--	7.4	--	--	--
16...	2110	--		3700	--	--	--	--	--	19.6	5.6	22.0
21...	0850	23.0		3100	471	6.9	17.4	26.0	7.1	13.4	9.8	17.9
21...	0851	13.0		3100	472	6.9	17.5	--	7.1	14.5	7.2	17.8
21...	0852	6.0		3100	472	6.9	17.4	--	7.1	14.5	8.2	18.2
21...	0853	1.0		3100	472	6.9	17.4	--	7.2	13.0	9.1	17.2

01652590 -- POTOMAC R AT ALEXANDRIA, VA. --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LJC- ACTION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
OCT	0901	30.0	3800	476	6.8	17.5	30.0	7.0	--	--	--
	0902	14.0	3800	476	6.8	17.5	--	7.0	--	--	--
	0903	1.0	3800	476	6.8	17.5	--	7.0	11.9	7.80	15.5
	0905	--	40000	--	--	--	--	--	13.6	7.60	17.1
	0915	13.0	600	500	6.9	17.3	18.0	7.7	25.9	8.20	29.5
	0916	6.0	600	502	6.9	17.4	--	7.7	26.0	8.50	29.8
	0917	1.0	600	501	6.9	17.3	--	7.7	26.4	7.70	29.7
	0930	--	600	--	--	--	--	--	26.5	8.50	30.2
	1029	22.0	3100	454	7.2	13.0	--	8.4	--	--	--
	1030	--	40000	--	--	--	--	--	20.7	13.0	26.7
	1031	12.0	3100	456	7.2	13.1	--	8.4	--	--	--
	1032	3.0	3100	456	7.3	13.2	--	8.5	--	--	--
	1045	22.0	3800	453	7.2	13.0	--	8.4	--	--	--
	1046	12.0	3800	455	7.2	13.1	--	8.4	--	--	--
	1047	3.0	3800	456	7.2	13.1	--	8.3	--	--	--
	1114	12.0	300	476	7.3	12.9	--	9.3	--	--	--
	1116	6.0	300	476	7.3	12.9	--	9.1	--	--	--
	1117	3.0	300	475	7.3	12.9	--	9.1	--	--	--
	1118	5.0	1000	473	7.4	12.8	--	9.8	--	--	--
	1119	3.0	1000	473	7.3	12.9	--	9.1	--	--	--
NOV	1040	28.0	3400	479	7.6	12.3	41.0	8.0	9.1	7.20	12.4
	1041	15.0	3400	477	7.5	12.2	--	7.9	7.5	8.10	11.4
	1042	2.0	3400	478	7.5	12.3	--	8.1	8.3	5.10	10.6
	1130	--	600	--	--	--	--	--	11.4	4.60	13.5
	1135	11.0	600	513	7.3	12.6	41.0	8.2	12.3	3.80	14.0
	1136	6.0	600	516	7.2	12.9	--	8.1	12.9	3.90	14.6
	1137	2.0	600	524	7.2	13.0	--	8.1	12.3	3.10	13.6
	1405	--	600	--	--	--	--	--	15.1	4.80	17.2
	1410	8.0	600	529	7.9	13.8	--	8.6	--	--	--
	1411	2.0	600	523	7.5	13.8	--	8.6	--	--	--
	1445	25.0	3400	501	7.4	12.6	--	8.9	--	--	--
	1446	2.0	3400	501	7.5	12.6	--	8.8	--	--	--
	1500	--	3400	--	--	--	--	--	15.0	4.80	17.1
	1425	25.0	3100	513	7.6	9.8	28.0	9.7	10.9	10.1	15.7
	1426	11.0	3100	512	7.6	9.8	--	9.8	9.3	6.90	12.6
	1427	2.0	3100	513	7.6	9.7	--	9.8	10.3	6.70	13.4
	1430	31.0	3800	507	7.7	9.9	22.0	9.9	--	--	--
	1431	14.0	3800	507	7.7	9.9	--	9.8	--	--	--
	1432	2.0	3800	508	7.7	9.8	--	9.7	--	--	--

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
NOV											
19...	1433	--	3800	--	--	--	--	--	8.7	8.2	12.6
18...	1440	--	4000	--	--	--	--	--	9.1	8.2	12.9
25...	1350	32.0	3400	497	7.9	7.8	24.0	10.8	--	--	--
25...	1351	15.0	3400	488	7.9	7.7	--	10.7	--	--	--
25...	1352	2.0	3400	488	7.9	7.8	--	10.7	--	--	--
25...	1355	--	3400	--	--	--	--	--	6.5	6.7	9.6
25...	1405	--	600	--	--	--	--	--	6.1	3.9	7.9
25...	1406	10.0	600	510	7.3	9.1	--	10.5	--	--	--
25...	1407	2.0	600	518	7.3	9.3	--	10.3	--	--	--
DEC											
02...	1405	25.0	3400	341	7.7	6.9	--	11.2	--	--	--
02...	1408	15.0	3400	351	7.6	7.0	--	11.2	--	--	--
02...	1409	3.0	3400	345	7.6	7.1	--	11.5	--	--	--
02...	1410	--	3400	--	--	--	--	--	8.9	6.9	12.1
02...	1420	--	600	--	--	--	--	--	13.2	5.6	15.7
02...	1425	6.0	600	344	7.5	7.1	--	11.5	--	--	--
02...	1426	2.0	600	339	7.5	7.0	--	11.6	--	--	--
08...	1145	--	3400	--	--	--	--	--	5.0	4.4	7.0
08...	1150	25.0	3400	321	7.8	6.0	25.0	11.3	--	--	--
08...	1151	12.0	3400	321	7.8	6.0	--	11.3	--	--	--
08...	1152	3.0	3400	320	7.7	6.0	--	11.3	--	--	--
08...	1200	--	600	--	--	--	--	--	6.4	4.1	8.3
08...	1215	9.00	600	353	7.3	7.4	25.0	10.7	--	--	--
08...	1216	6.00	600	358	7.3	7.4	--	10.7	--	--	--
08...	1217	3.00	600	362	7.3	7.6	--	10.6	--	--	--
16...	1440	13.0	300	374	7.6	6.6	30.0	10.7	3.7	2.8	5.0
16...	1441	6.0	300	374	7.6	6.6	--	10.8	3.7	2.9	5.0
16...	1442	1.0	300	375	7.6	6.6	--	10.8	3.7	2.9	5.0
16...	1443	--	300	--	--	--	--	--	3.7	4.8	6.0
16...	1450	4.0	1000	351	7.7	6.5	26.0	10.9	--	--	--
16...	1451	1.0	1000	359	7.7	6.5	--	11.0	--	--	--
16...	1452	--	1000	--	--	--	--	--	3.2	3.3	4.8
16...	1455	--	3000	--	--	--	--	--	3.7	3.6	5.4
16...	1505	30.0	3100	350	7.7	6.0	29.0	10.9	2.6	6.1	5.6
16...	1506	17.0	3100	348	7.8	6.0	--	10.9	2.5	5.4	5.1
16...	1507	11.0	3100	348	7.8	6.0	--	11.0	2.5	5.3	5.0
16...	1508	6.0	3100	348	7.8	6.1	--	11.0	2.2	5.4	4.7
16...	1509	1.0	3100	348	7.8	6.1	--	11.0	2.5	5.0	4.9
16...	1510	--	3100	--	--	--	--	--	2.6	5.0	5.0
16...	1515	31.0	3800	349	7.7	6.1	34.0	10.9	--	--	--

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
DEC											
16...	1516	14.0	3800	348	7.8	6.1	--	10.9	--	--	--
16...	1517	1.0	3800	348	7.8	6.1	--	10.9	--	--	--
16...	1518	--	3800	--	--	--	--	--	2.6	4.9	4.9
16...	1530	--	4000	--	--	--	--	--	2.5	5.0	4.9
24...	1330	--	600	--	--	--	--	--	1.2	1.4	1.9
24...	1345	--	3400	--	--	--	--	--	3.5	4.3	5.5
29...	1010	25.0	3400	380	7.9	2.2	43.0	12.5	--	--	--
29...	1011	15.0	3400	379	7.8	2.1	--	12.5	--	--	--
29...	1012	3.0	3400	379	7.9	2.1	--	12.5	--	--	--
29...	1015	--	3400	--	--	--	--	--	3.0	2.5	4.2
29...	1024	10.0	600	419	7.4	2.4	38.0	12.0	--	--	--
29...	1025	5.0	600	418	7.4	2.4	--	12.0	--	--	--
29...	1026	3.0	600	418	7.4	2.4	--	11.9	--	--	--
29...	1030	--	600	--	--	--	--	--	1.9	2.0	2.8
JAN											
07...	1235	--	3400	--	--	--	--	--	2.6	2.2	3.6
15...	1315	--	3400	--	--	--	--	--	2.2	1.1	2.7
15...	1316	29.0	3400	491	7.4	1.1	--	10.9	2.1	1.3	2.7
15...	1317	16.0	3400	491	7.4	.9	--	10.9	--	--	--
15...	1318	3.0	3400	487	7.4	.8	--	10.9	2.2	1.0	2.6
15...	1320	--	600	--	--	--	--	--	1.7	.6	2.0
15...	1322	11.0	600	522	7.3	1.5	72.0	10.7	--	--	--
15...	1323	3.0	600	515	7.4	1.2	--	10.4	--	--	--
23...	1335	--	600	--	--	--	--	--	1.7	1.1	2.2
23...	1340	12.0	600	608	7.5	5.1	42.0	10.7	--	--	--
23...	1341	3.0	600	610	7.5	5.0	--	10.6	--	--	--
23...	1355	--	3400	--	--	--	--	--	2.3	2.3	3.4
23...	1400	26.0	3400	546	7.8	4.6	46.0	10.8	2.5	2.2	3.5
23...	1401	14.0	3400	546	7.8	4.6	--	10.8	--	--	--
23...	1402	3.0	3400	547	7.9	4.7	--	10.8	2.6	2.0	3.5
28...	1200	--	600	--	--	--	--	--	2.8	1.3	3.4
28...	1201	10.0	600	616	7.4	5.2	60.0	10.8	--	--	--
28...	1202	3.0	600	616	7.4	5.2	--	10.9	--	--	--
28...	1210	--	3400	--	--	--	--	--	4.2	1.9	5.1
28...	1220	28.0	3400	579	7.8	4.4	48.0	11.4	4.2	2.1	5.2
28...	1221	16.0	3400	577	7.8	4.3	--	11.3	--	--	--
28...	1222	3.0	3400	575	7.7	4.4	--	11.2	3.6	1.6	4.4
FEB											
02...	1418	12.0	600	604	7.5	4.0	66.0	11.1	--	--	--
02...	1419	3.0	600	605	7.5	4.1	--	11.1	--	--	--
02...	1420	--	600	--	--	--	--	--	4.4	1.2	4.9

APPENDIX A-2

01652590 -- POTOMAC R AT ALEXANDRIA, VA. ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- L (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCI DISK)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
02...	1425	--	--	3400	--	--	--	--	--	--	--	--	--	--	4.0	1.7	4.8	--	--	
02...	1426	28.0	--	3400	578	--	7.6	4.0	--	--	--	--	11.3	--	4.2	2.3	5.2	--	--	
02...	1427	14.0	--	3400	578	--	7.5	4.0	--	--	--	--	11.3	--	--	--	--	--	--	
02...	1428	3.0	--	3400	578	--	7.6	4.0	--	--	--	--	11.3	--	4.0	1.6	4.7	--	--	
03...	1555	3.0	--	3400	516	--	8.2	2.8	--	--	--	--	12.1	--	4.0	1.9	4.8	--	--	
04...	0915	31.0	--	3400	521	--	8.1	2.3	--	48.0	--	--	12.9	--	4.7	1.6	5.4	--	--	
04...	0916	15.0	--	3400	520	--	8.2	2.2	--	--	--	--	12.9	--	4.4	1.4	5.0	--	--	
04...	0917	2.0	--	3400	518	--	8.2	1.9	--	--	--	--	12.9	--	4.1	1.4	4.7	--	--	
04...	0920	--	--	3400	--	--	--	--	--	--	--	--	--	--	4.3	1.6	5.0	--	--	
04...	0950	--	--	600	--	--	--	--	--	--	--	--	--	--	4.5	1.1	4.9	--	--	
04...	0955	12.0	--	600	556	--	7.5	2.2	--	48.0	--	--	14.1	--	4.1	1.4	4.8	--	--	
04...	0956	3.0	--	600	555	--	7.6	2.4	--	--	--	--	13.7	--	4.4	1.2	4.9	--	--	
11...	1115	12.0	--	600	445	--	7.2	4.5	--	18.0	--	--	11.1	--	--	--	--	--	--	
11...	1116	2.0	--	600	446	--	7.1	4.4	--	--	--	--	11.2	--	--	--	--	--	--	
11...	1120	--	--	600	--	--	--	--	--	--	--	--	--	--	6.0	4.7	8.2	--	--	
11...	1145	33.0	--	3400	452	--	7.3	3.9	--	--	--	--	11.6	--	7.5	4.5	9.5	--	--	
11...	1146	20.0	--	3400	448	--	7.3	3.8	--	--	--	--	11.6	--	7.2	4.7	9.3	--	--	
11...	1147	2.0	--	3400	448	--	7.3	3.7	--	--	--	--	11.6	--	7.3	4.7	9.5	--	--	
11...	1150	--	--	3400	--	--	--	--	--	--	--	--	--	--	7.8	4.5	9.9	--	--	
12...	1445	--	--	3400	--	--	--	--	--	--	--	--	--	--	7.2	3.7	8.8	--	--	
13...	2020	--	--	3700	--	--	--	--	--	--	--	--	--	--	7.2	4.3	9.2	--	--	
14...	1240	--	--	3700	--	--	--	--	--	--	--	--	--	--	9.4	5.4	11.9	--	--	
15...	1700	--	--	3700	--	--	--	--	--	--	--	--	--	--	9.7	5.7	12.4	--	--	
16...	1645	--	--	3700	--	--	--	--	--	--	--	--	--	--	5.3	3.2	6.8	--	--	
17...	1140	--	--	600	--	--	--	--	--	--	--	--	--	--	2.4	2.3	3.5	--	--	
17...	1150	13.0	--	600	385	--	7.2	4.2	--	--	--	--	11.3	--	--	--	--	--	--	
17...	1151	3.0	--	600	351	--	7.6	3.1	--	--	--	--	12.0	--	--	--	--	--	--	
17...	1200	--	--	3400	--	--	--	--	--	--	--	--	--	--	4.4	3.6	6.0	--	--	
17...	1210	29.0	--	3400	355	--	7.1	3.0	--	12.0	--	--	--	--	4.7	3.3	6.3	--	--	
17...	1211	15.0	--	3400	367	--	7.2	2.6	--	--	--	--	--	--	3.9	3.5	5.5	--	--	
17...	1212	3.0	--	3400	369	--	7.2	2.4	--	--	--	--	--	--	4.0	2.8	5.3	--	--	
20...	1520	--	--	3700	--	--	--	--	--	--	--	--	--	--	6.0	4.1	7.9	--	--	
23...	1225	--	--	600	--	--	--	--	--	--	--	--	--	--	19.5	7.4	21.8	--	--	
23...	1226	13.0	--	600	252	--	6.9	9.3	--	12.0	--	--	10.1	--	--	--	--	--	--	
23...	1227	3.0	--	600	247	--	6.9	9.1	--	--	--	--	10.3	--	--	--	--	--	--	
23...	1300	--	--	3400	--	--	--	--	--	--	--	--	--	--	19.1	9.2	23.2	--	--	
23...	1301	32.0	--	3400	249	--	7.0	8.4	--	12.0	--	--	10.6	--	--	--	--	--	--	
23...	1302	16.0	--	3400	248	--	7.0	8.4	--	--	--	--	10.6	--	--	--	--	--	--	
23...	1303	3.0	--	3400	252	--	7.0	9.0	--	--	--	--	10.4	--	--	--	--	--	--	

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (F- FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHDS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
24...	1315	--	600	--	--	--	--	--	7.7	4.9	10.0
24...	1316	13.0	600	298	7.2	8.3	--	10.6	--	--	--
24...	1317	3.0	600	303	7.1	8.5	--	10.5	--	--	--
24...	1400	--	3400	--	--	--	--	--	19.8	12.5	25.6
25...	1550	10.0	600	225	7.2	8.1	6.0	10.7	--	--	--
25...	1551	3.0	600	207	7.4	7.6	--	10.5	--	--	--
25...	1555	--	600	--	--	--	--	--	19.2	12.2	24.8
25...	1635	30.0	3400	160	7.6	7.0	6.0	11.6	--	--	--
25...	1636	15.0	3400	160	7.6	7.2	--	11.5	--	--	--
25...	1637	3.0	3400	161	7.6	7.1	--	11.5	--	--	--
25...	1640	--	3400	--	--	--	--	--	20.5	14.5	27.2
26...	1545	--	600	--	--	--	--	--	6.9	6.8	10.1
26...	1550	10.0	600	273	7.2	9.1	5.0	11.4	--	--	--
26...	1551	3.0	600	271	7.1	9.0	--	11.4	--	--	--
26...	1555	34.0	3400	180	7.5	7.2	5.0	12.3	--	--	--
26...	1556	15.0	3400	179	7.6	7.2	--	12.4	--	--	--
26...	1557	3.0	3400	180	7.5	7.2	--	12.4	--	--	--
26...	1600	--	3400	--	--	--	--	--	12.4	10.5	17.3
27...	1040	--	600	--	--	--	--	--	4.1	4.1	6.1
27...	1041	11.0	600	285	6.9	7.4	24.0	10.9	--	--	--
27...	1042	3.0	600	293	7.0	7.3	--	10.9	--	--	--
27...	1051	27.0	3400	158	7.5	6.2	--	12.1	--	--	--
27...	1052	14.0	3400	158	7.5	6.2	--	12.1	--	--	--
27...	1053	3.0	3400	158	7.5	6.3	--	12.1	--	--	--
28...	1050	--	3400	--	--	--	--	--	6.8	5.6	9.4
28...	1415	--	3700	--	--	--	--	--	4.4	3.8	6.1
VAR											
04...	0945	--	600	--	--	--	--	--	1.7	2.4	2.8
04...	0946	13.0	600	301	7.0	8.2	24.0	11.2	2.0	3.4	3.6
04...	0947	2.0	600	303	6.9	8.2	--	10.6	1.7	2.7	3.0
04...	1000	--	3400	--	--	--	--	--	4.9	4.8	7.2
04...	1001	30.0	3400	203	7.8	7.5	24.0	11.9	6.4	7.4	9.9
04...	1002	15.0	3400	203	7.8	7.5	--	11.7	6.0	6.0	9.6
04...	1003	2.0	3400	204	7.8	7.8	--	11.7	4.0	4.0	6.2
11...	1015	--	600	--	--	--	--	--	5.1	2.7	6.4
11...	1016	11.0	600	266	7.2	6.5	--	11.3	--	--	--
11...	1017	7.0	600	281	7.0	6.9	--	11.0	--	--	--
11...	1018	3.0	600	255	7.2	6.3	--	11.3	--	--	--
11...	1030	--	3400	--	--	--	--	--	8.7	6.4	11.7
11...	1031	29.0	3400	245	7.5	6.0	24.0	11.4	--	--	--

01652590 -- POTOMAC R AT ALEXANDRIA, VA. --Cont--
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (000095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
MAR											
11...	1032	16.0	3400	245	7.6	6.1	---	11.4	---	---	---
11...	1033	7.0	3400	245	7.6	6.1	---	11.3	---	---	---
11...	1034	3.0	3400	245	7.6	6.2	---	11.4	---	---	---
18...	0700	28.0	3400	299	7.7	6.0	27.0	10.6	8.5	3.4	10.0
18...	0701	20.0	3400	285	7.7	5.9	---	10.4	8.4	4.0	10.2
18...	0702	14.0	3400	285	7.7	5.9	---	10.3	8.1	3.7	9.8
18...	0703	8.0	3400	285	7.6	5.9	---	10.4	8.2	3.5	9.8
18...	0704	2.0	3400	294	7.6	5.9	---	10.3	8.5	3.2	10.0
18...	0720	11.0	600	306	7.5	5.7	30.0	10.3	8.9	2.6	10.0
18...	0721	6.0	600	306	7.5	5.7	---	10.2	9.0	2.8	10.3
18...	0722	2.0	600	307	7.5	5.6	---	10.1	8.7	3.0	10.0
24...	1115	33.0	3400	290	7.7	6.4	35.0	11.1	12.3	3.7	13.9
24...	1116	15.0	3400	280	8.0	6.4	---	11.1	10.9	3.6	12.5
24...	1117	3.0	3400	280	8.0	6.6	---	11.1	13.1	2.6	14.2
24...	1118	---	3400	---	---	---	---	---	13.0	1.7	13.7
25...	1530	---	3400	---	---	---	---	---	18.6	5.1	20.8
25...	1535	27.0	3400	280	8.1	7.2	30.0	11.8	---	---	---
25...	1537	15.0	3400	281	8.3	7.2	---	12.1	---	---	---
25...	1539	3.0	3400	282	8.4	7.4	---	12.2	---	---	---
25...	1550	---	600	---	---	---	---	---	8.8	2.3	9.8
25...	1551	9.0	600	331	7.6	8.6	36.0	11.6	---	---	---
25...	1552	3.0	600	338	7.9	8.6	---	11.3	---	---	---
31...	1340	---	600	---	---	---	---	---	23.2	5.7	25.6
31...	1341	9.0	600	334	7.6	12.7	22.0	9.7	---	---	---
31...	1342	3.0	600	338	7.8	13.4	---	9.9	---	---	---
31...	1350	---	3400	---	---	---	---	---	23.3	9.2	27.4
31...	1351	28.0	3400	316	8.2	12.4	16.0	9.7	---	---	---
31...	1352	15.0	3400	315	8.3	12.6	---	9.8	---	---	---
31...	1353	3.0	3400	309	8.2	13.5	---	9.8	---	---	---
APR											
01...	1644	---	600	---	---	---	---	---	21.6	7.8	25.0
01...	1645	---	3400	---	---	---	---	---	17.1	8.4	21.0
01...	1646	2.0	3400	---	---	---	---	---	16.2	7.2	19.5
06...	1245	---	600	---	---	---	---	---	35.1	16.2	42.4
06...	1246	8.0	600	367	7.6	14.9	18.0	8.8	---	---	---
06...	1248	3.0	600	364	7.6	15.0	---	8.8	---	---	---
06...	1320	---	3400	---	---	---	---	---	54.1	26.5	66.2
06...	1321	25.0	3400	340	8.1	14.9	---	9.0	---	---	---
06...	1322	16.0	3400	339	8.2	14.8	---	8.9	---	---	---
06...	1323	3.0	3400	339	8.2	14.9	---	8.8	---	---	---

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	CHLOR- PHYLL A FLUORO- METRIC METHOD (UG/L)	CHLOR- PHYLL A FLUORO- METRIC METHOD (UG/L)	CHLOR- PHYLL A FLUORO- METRIC METHOD (UG/L)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLOR- PHYLL A FLUORO- METRIC METHOD (UG/L)	CHLOR- PHYLL A FLUORO- METRIC METHOD (UG/L)
			(00003)	(00009)	(00005)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)
APR 14...	2050	600	---	---	---	---	---	---	---	27.0	24.5
14...	2055	9.0	377	---	---	7.0	16.0	---	7.7	---	38.5
14...	2056	3.0	374	---	---	7.0	15.9	---	7.6	---	---
14...	2115	3400	---	---	---	---	---	---	---	59.0	74.5
14...	2116	3400	268	---	---	7.5	14.2	---	9.8	---	---
14...	2117	3400	268	---	---	7.5	14.2	---	9.9	---	---
14...	2118	2.0	270	---	---	7.6	14.4	---	10.0	---	---
15...	0745	3400	---	---	---	---	---	---	---	26.5	38.6
15...	0747	3400	250	---	---	7.4	13.8	12.0	9.9	39.7	67.7
15...	0748	14.0	247	---	---	7.4	13.9	---	9.9	24.8	36.6
15...	0749	2.0	254	---	---	7.4	13.9	---	10.0	20.2	30.6
15...	0810	600	326	---	---	7.2	13.7	19.0	8.9	35.1	45.5
15...	0811	6.0	331	---	---	7.2	13.8	---	8.7	32.6	42.9
15...	0812	2.0	333	---	---	7.2	13.8	---	8.6	35.8	45.1
15...	0815	600	---	---	---	---	---	---	---	36.9	47.3
15...	1055	27.0	195	---	---	7.4	12.6	6.0	---	---	---
15...	1056	15.0	192	---	---	7.4	12.6	---	---	---	---
15...	1057	3.0	197	---	---	7.4	12.7	---	---	---	---
15...	1210	3400	---	---	---	---	---	---	---	30.0	46.0
15...	1255	9.0	279	---	---	7.3	14.2	---	---	---	---
15...	1256	6.0	279	---	---	7.3	14.2	---	---	---	---
15...	1257	3.0	293	---	---	7.3	14.3	---	---	---	---
15...	1300	600	---	---	---	---	---	---	---	13.5	23.1
16...	1141	9.0	159	---	---	7.2	12.5	---	---	---	---
16...	1142	3.0	168	---	---	7.2	12.6	---	---	---	---
17...	1131	27.0	142	---	---	6.7	12.3	---	9.9	---	---
17...	1132	15.0	142	---	---	6.6	12.3	---	9.8	---	---
17...	1133	3.0	145	---	---	6.7	12.4	---	9.8	---	---
17...	1201	9.0	207	---	---	6.5	12.5	---	9.2	---	---
17...	1202	6.0	213	---	---	6.6	13.0	---	9.0	---	---
17...	1203	3.0	246	---	---	6.6	12.9	---	8.9	---	---
21...	1235	28.0	181	---	---	7.8	14.0	---	9.2	---	---
21...	1236	14.0	182	---	---	7.8	14.2	---	9.3	---	---
21...	1237	3.0	182	---	---	7.8	14.3	---	9.3	---	---
21...	1310	600	---	---	---	---	---	---	---	16.8	19.0
21...	1311	10.0	233	---	---	7.3	14.7	---	9.2	5.0	---
21...	1312	3.0	213	---	---	7.5	14.9	---	9.4	---	---
28...	1235	3400	---	---	---	---	---	---	---	43.0	51.5
28...	1240	29.0	239	---	---	8.3	15.8	24.0	10.2	49.8	56.8

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
APR											
29...	1241	20.0	3400	237	8.4	15.9	--	10.3	51.4	17.3	59.1
29...	1242	10.0	3400	229	7.9	16.6	--	9.7	31.3	21.8	41.4
29...	1243	2.0	3400	246	7.7	18.1	--	9.4	28.0	26.2	40.3
28...	1320	--	600	--	--	--	--	--	72.5	12.5	77.5
28...	1325	11.0	600	299	7.9	17.0	36.0	10.4	71.4	14.5	77.4
29...	1326	6.0	600	295	8.0	17.3	--	10.6	71.3	15.9	78.0
29...	1327	2.0	600	291	8.3	17.8	--	11.3	72.4	11.2	76.8
MAY											
04...	0810	--	3400	--	--	--	--	--	20.3	31.0	35.1
04...	0814	29.0	3400	250	7.4	16.2	18.0	7.0	--	--	--
04...	0816	15.0	3400	252	7.4	16.3	--	6.7	--	--	--
04...	0818	3.0	3400	252	7.3	16.3	--	6.6	--	--	--
04...	0825	--	600	--	--	--	--	--	26.3	23.1	37.2
04...	0826	12.0	600	254	7.4	16.0	17.0	7.3	--	--	--
04...	0827	3.0	600	263	7.5	16.1	--	7.4	--	--	--
12...	0910	11.0	600	375	7.0	18.2	36.0	5.8	17.2	16.6	25.0
12...	0911	3.0	600	380	7.0	18.1	--	5.7	16.0	15.9	23.5
12...	0936	27.0	3400	266	7.5	17.8	--	7.5	21.0	18.8	26.9
12...	0937	20.0	3400	268	7.4	17.9	--	7.4	22.0	23.8	33.2
12...	0938	10.0	3400	267	7.5	17.8	--	7.5	20.8	16.1	28.3
12...	0939	3.0	3400	258	7.5	17.7	--	7.5	21.1	15.6	28.4
19...	0800	31.0	3400	232	7.1	18.0	24.0	6.6	6.5	13.3	12.9
19...	0802	20.0	3400	235	7.1	18.1	--	6.6	7.5	12.6	13.5
19...	0804	10.0	3400	239	7.1	18.1	--	6.6	7.8	12.0	13.5
19...	0806	2.0	3400	242	7.1	18.2	--	6.6	7.2	12.1	17.4
19...	0835	13.0	600	256	7.1	17.9	24.0	6.7	10.1	12.1	15.9
19...	0836	6.0	600	259	7.1	18.0	--	6.6	10.2	11.3	15.5
19...	0837	2.0	600	274	7.1	18.0	--	6.5	12.9	9.4	17.3
26...	1040	28.0	3400	239	7.3	21.0	30.0	7.7	9.0	12.1	14.7
26...	1041	20.0	3400	241	7.5	21.1	--	7.7	8.6	14.8	15.7
26...	1042	10.0	3400	243	7.3	21.2	--	7.7	8.1	6.8	11.3
26...	1043	2.0	3400	262	7.3	22.3	--	7.3	4.5	5.6	7.2
26...	1120	10.0	600	287	7.0	22.2	--	7.8	16.9	11.4	22.2
26...	1121	2.0	600	299	7.1	22.3	--	8.5	27.4	8.2	31.0
JUN											
01...	1835	11.0	600	255	7.6	23.6	24.0	7.5	--	--	--
01...	1836	2.0	600	241	7.7	23.7	--	7.5	31.2	18.0	39.5
01...	1845	30.0	3400	231	7.5	23.6	--	6.5	24.0	21.1	33.9
01...	1846	15.0	3400	230	7.6	23.6	--	6.6	--	--	--
01...	1847	2.0	3400	226	7.8	23.7	--	6.8	28.5	16.6	36.2
11...	1331	2.0	3400	--	--	--	--	--	6.1	3.4	7.7

APPENDIX A-2

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUN	1332	10.0	3400	--	--	--	--	--	6.2	4.9	8.5
	1333	20.0	3400	--	--	--	--	--	3.8	3.9	5.6
	1334	29.0	3400	--	--	--	--	--	5.3	7.4	8.8
	1346	2.0	600	--	--	--	--	--	39.4	6.5	42.0
	1347	10.0	600	--	--	--	--	--	14.2	9.4	18.5
	1346	2.0	600	--	--	--	--	--	14.2	7.1	17.5
	1347	7.0	600	--	--	--	--	--	13.7	9.0	17.9
	1348	9.0	600	--	--	--	--	--	12.6	6.8	15.7
	1411	2.0	3400	--	--	--	--	--	6.3	6.9	9.6
	1412	7.0	3400	--	--	--	--	--	5.0	6.7	8.2
	1413	12.0	3400	--	--	--	--	--	2.5	6.4	5.5
	1414	21.0	3400	--	--	--	--	--	3.5	6.6	6.6
	1415	29.0	3400	--	--	--	--	--	1.7	5.6	4.4
	1240	--	600	--	--	--	--	--	18.1	6.4	20.9
	1241	2.0	600	--	--	--	--	--	16.2	6.4	19.0
	1242	6.0	600	--	--	--	--	--	17.5	5.9	20.1
	1243	10.0	600	--	--	--	--	--	17.0	8.2	20.8
	1300	--	3400	--	--	--	--	--	4.2	5.9	7.0
	1301	2.0	3400	--	--	--	--	--	7.6	6.3	10.6
	1302	10.0	3400	--	--	--	--	--	4.0	5.0	6.3
	1303	20.0	3400	--	--	--	--	--	3.8	7.9	7.6
	1304	26.0	3400	--	--	--	--	--	2.5	8.4	6.5
	0930	31.0	3400	271	6.6	26.5	24.0	5.7	6.9	11.3	12.2
	0931	23.0	3400	271	6.6	26.6	--	5.7	7.6	11.8	13.2
	0932	15.0	3400	271	6.6	26.8	--	6.0	7.8	11.1	13.1
	0934	7.0	3400	270	6.7	26.9	--	6.0	8.4	11.5	13.9
	0935	2.0	3400	270	6.6	26.9	--	6.0	8.9	10.8	14.0
	1005	11.0	600	323	6.6	26.6	24.0	7.5	25.2	8.2	28.8
	1006	7.0	600	322	6.6	26.6	--	7.5	25.2	8.0	28.8
	1007	2.0	600	316	6.6	26.6	--	7.5	22.9	7.4	26.2
JUL	2040	--	30000	--	--	--	--	--	46.0	4.5	47.5
	2044	--	300	--	--	--	--	--	48.0	6.6	50.5
	2045	11.0	300	350	7.4	28.1	24.0	9.3	50.4	4.8	52.0
	2046	6.0	300	353	7.5	28.2	--	9.4	45.6	8.8	49.2
	2047	1.0	300	353	7.5	28.2	--	9.4	44.4	6.5	46.9
	2050	2.0	1000	353	7.3	28.0	24.0	9.1	--	--	--
	2051	--	1000	--	--	--	--	--	36.4	6.4	38.9
	2120	--	40000	--	--	--	--	--	23.6	11.2	28.7
	2125	28.0	3100	329	7.3	26.6	--	7.3	22.1	9.8	26.5

01652590 -- POTOMAC R AT ALEXANDRIA, VA. --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (JG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00003)	(00003)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
08...	2126	20.0	3100	327	7.5	26.7	--	7.6	21.7	8.7	25.6
08...	2127	11.0	3100	326	7.5	26.8	--	7.8	21.9	9.3	26.1
08...	2128	6.0	3100	329	7.7	27.6	--	8.6	30.2	6.0	32.7
08...	2129	2.0	3100	330	7.8	27.9	--	8.9	29.7	5.5	31.9
08...	2130	--	3100	--	--	--	--	--	24.8	7.6	28.1
08...	2140	26.0	3800	326	7.6	26.9	--	7.9	--	--	--
08...	2141	19.0	3800	328	7.6	27.0	--	8.1	--	--	--
08...	2142	14.0	3800	328	7.8	27.4	--	8.5	--	--	--
08...	2143	2.0	3800	329	7.9	27.6	--	8.9	--	--	--
08...	2145	--	3800	--	--	--	--	--	25.5	8.00	29.0
10...	1810	15.0	3400	326	6.5	29.0	31.0	6.3	--	--	--
13...	1935	35.0	3400	325	6.1	29.7	--	5.0	--	--	--
13...	1936	28.0	3400	325	6.2	29.7	--	5.1	--	--	--
13...	1937	21.0	3400	325	6.2	29.7	--	5.3	--	--	--
13...	1938	14.0	3400	326	6.2	29.8	--	5.4	--	--	--
13...	1939	7.0	3400	324	6.1	29.8	--	5.6	--	--	--
13...	1940	2.0	3400	323	6.1	29.9	--	5.5	--	--	--
15...	1715	10.0	600	342	7.7	28.7	30.0	6.6	33.6	13.8	39.8
15...	1716	7.0	600	338	7.9	29.0	--	7.9	33.8	12.2	39.3
15...	1717	2.0	600	335	8.4	29.3	--	9.0	47.4	8.8	51.0
15...	1735	29.0	3400	323	7.5	29.1	25.0	5.3	19.6	19.1	28.6
15...	1736	19.0	3400	323	7.5	29.1	--	5.3	21.5	14.0	28.0
15...	1737	13.0	3400	325	7.5	29.2	--	5.3	19.1	12.4	24.8
15...	1738	6.0	3400	317	7.4	29.5	--	5.0	14.6	9.4	18.9
15...	1739	2.0	3400	315	7.4	29.7	--	5.1	11.1	8.3	14.9
20...	0716	7.0	1000	342	7.1	27.9	26.0	7.5	--	--	--
20...	0717	1.0	1000	344	7.7	28.3	--	7.7	--	--	--
20...	0718	--	1000	--	--	--	--	--	65.8	15.9	72.6
20...	0719	--	300	--	--	--	--	--	66.6	15.5	73.1
20...	0720	14.0	300	343	7.1	28.2	30.0	7.5	61.5	19.0	70.2
20...	0721	6.0	300	342	7.1	28.4	--	7.5	57.7	16.6	64.9
20...	0722	1.0	300	342	7.0	28.5	--	7.3	58.5	15.2	65.0
20...	0740	26.0	3100	316	6.7	28.6	30.0	4.9	33.3	23.2	44.0
20...	0741	20.0	3100	318	6.8	28.8	--	5.5	36.7	23.0	47.4
20...	0742	11.0	3100	320	6.9	28.9	--	5.8	40.1	22.1	50.3
20...	0743	6.0	3100	320	6.9	28.7	--	5.8	36.5	17.6	44.5
20...	0744	1.0	3100	318	6.8	28.6	--	5.8	39.3	17.5	47.2
20...	0745	--	3100	--	--	--	--	--	38.8	22.4	49.2
20...	0750	--	4000	--	--	--	--	--	38.6	21.8	48.6

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL											
20...	0800	32.0	3800	315	6.7	27.7	36.0	5.0	--	--	--
20...	0801	15.0	3800	313	6.6	28.1	--	4.3	--	--	--
20...	0802	1.0	3800	313	6.6	28.2	--	4.4	--	--	--
20...	0805	--	3800	--	--	--	--	--	29.5	18.9	37.2
20...	1800	11.0	300	328	7.6	30.1	22.0	9.0	74.0	14.6	80.0
20...	1802	6.0	300	317	7.6	30.2	--	9.0	77.6	10.8	81.7
20...	1804	1.0	300	314	7.6	30.2	--	9.0	81.6	6.3	83.4
20...	1805	--	300	--	--	--	--	--	75.0	11.1	79.3
20...	1815	2.0	1000	316	7.5	30.3	10.0	7.9	--	--	--
20...	1816	1.0	1000	316	7.5	30.3	--	8.0	--	--	--
20...	1817	--	1000	--	--	--	--	--	68.4	23.3	78.8
20...	1835	30.0	3100	317	7.5	29.6	22.0	7.6	53.0	15.0	59.5
20...	1836	20.0	3100	318	7.6	29.8	--	8.0	67.7	12.0	72.6
20...	1837	11.0	3100	316	7.6	29.8	--	8.2	70.0	11.4	74.5
20...	1838	6.0	3100	317	7.6	29.8	--	7.9	69.4	9.8	73.1
20...	1839	1.0	3100	317	7.5	29.8	--	7.5	64.4	12.2	69.4
20...	1840	--	3100	--	--	--	--	--	64.4	12.1	69.8
20...	1850	27.0	3800	317	7.3	29.0	12.0	6.8	--	--	--
20...	1851	15.0	3800	315	7.3	29.3	--	7.1	--	--	--
20...	1853	7.0	3800	317	7.1	29.4	--	6.7	--	--	--
20...	1855	1.0	3800	311	8.0	30.0	--	9.3	--	--	--
20...	1856	--	3800	--	--	--	--	--	54.7	15.6	61.4
20...	1900	--	40000	--	--	--	--	--	59.6	14.4	64.8
21...	0625	3.0	1000	322	6.9	27.9	30.0	5.6	--	--	--
21...	0626	1.0	1000	322	6.9	28.1	--	5.6	--	--	--
21...	0627	--	1000	--	--	--	--	--	35.2	18.4	44.6
21...	0630	--	3000	--	--	--	--	--	39.3	15.2	46.1
21...	0631	11.0	300	350	6.9	28.4	36.0	6.2	39.4	14.4	45.9
21...	0632	6.0	300	349	6.9	28.4	--	6.0	36.8	15.9	44.0
21...	0633	1.0	300	350	6.9	28.4	--	5.9	39.1	14.5	45.6
21...	0634	--	300	--	--	--	--	--	47.3	16.9	54.8
21...	0644	--	3100	--	--	--	--	--	33.6	19.1	42.4
21...	0645	29.0	3100	315	7.2	28.7	32.0	6.2	34.8	19.0	43.6
21...	0646	20.0	3100	317	7.2	28.8	--	6.1	35.7	15.6	42.8
21...	0647	11.0	3100	318	7.2	28.8	--	6.1	32.6	17.1	40.4
21...	0648	6.0	3100	321	7.2	28.9	--	6.0	30.8	16.2	38.2
21...	0649	1.0	3100	319	7.2	28.9	--	6.1	31.3	16.0	38.6
21...	0650	--	40000	--	--	--	--	--	33.2	16.9	40.9
21...	0656	29.0	3800	315	7.0	28.7	36.0	5.4	--	--	--

01652590 - POTOMAC R AT ALEXANDRIA, VA. ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL											
21...	0657	15.0	3800	314	7.2	28.8	--	5.9	--	--	--
21...	0658	1.0	3800	314	7.2	28.9	--	6.1	--	--	--
21...	0659	--	3800	--	--	--	--	--	--	19.3	41.4
21...	1630	12.0	300	368	7.6	29.7	30.0	8.4	32.4	12.1	55.8
21...	1632	6.0	300	363	7.6	29.7	--	8.6	--	--	--
21...	1634	1.0	300	363	7.7	30.0	--	8.5	59.5	12.1	64.5
21...	1635	--	300	--	--	--	--	--	59.0	12.7	64.4
21...	1645	4.0	1000	355	7.7	30.4	28.0	8.1	--	--	--
21...	1647	1.0	1000	338	7.8	30.7	--	8.2	--	--	--
21...	1700	--	30000	--	--	--	--	--	54.0	11.9	59.0
21...	1705	30.0	3100	332	7.3	29.4	32.0	6.1	32.5	25.2	44.2
21...	1706	20.0	3100	331	7.3	29.3	--	6.3	35.3	24.0	46.4
21...	1707	11.0	3100	329	7.5	29.5	--	6.6	36.8	19.5	45.7
21...	1708	6.0	3100	326	7.5	29.5	--	6.9	45.5	13.9	51.6
21...	1709	1.0	3100	322	7.7	30.0	--	7.5	48.8	12.5	54.1
21...	1710	--	3100	--	--	--	--	--	37.2	19.6	46.2
21...	1715	29.0	3800	325	7.4	29.4	--	6.2	--	--	--
21...	1716	15.0	3800	322	7.5	29.5	--	6.7	--	--	--
21...	1717	1.0	3800	320	7.9	30.1	--	8.0	--	--	--
21...	1718	--	3800	--	--	--	--	--	46.0	13.7	52.0
21...	1720	--	40000	--	--	--	--	--	43.4	17.3	51.2
22...	0640	--	1000	--	--	--	--	--	36.3	14.1	42.6
22...	0642	2.0	1000	341	6.9	28.2	30.0	5.3	--	--	--
22...	0645	--	30000	--	--	--	--	--	35.4	17.0	43.2
22...	0654	11.0	300	350	6.9	28.0	30.0	6.1	38.5	15.9	45.7
22...	0655	6.0	300	350	7.0	28.1	--	6.3	39.0	14.4	45.4
22...	0656	1.0	300	348	7.0	28.1	--	5.9	37.8	15.5	44.8
22...	0657	--	300	--	--	--	--	--	33.8	18.7	42.4
22...	0704	29.0	3100	313	7.4	28.6	30.0	6.5	39.1	21.8	49.1
22...	0705	20.0	3100	314	7.4	28.6	--	6.4	34.3	21.4	44.2
22...	0706	11.0	3100	315	7.3	28.6	--	6.2	36.4	23.2	47.1
22...	0707	6.0	3100	315	7.3	28.6	--	6.2	30.8	22.6	41.4
22...	0708	1.0	3100	315	7.4	28.6	--	6.3	35.1	17.6	43.1
22...	0710	--	3100	--	--	--	--	--	35.5	18.2	43.8
22...	0720	--	40000	--	--	--	--	--	35.9	19.4	44.8
22...	0721	28.0	3800	314	7.4	28.7	30.0	6.4	--	--	--
22...	0722	15.0	3800	313	7.4	28.6	--	6.4	--	--	--
22...	0723	1.0	3800	313	7.4	28.6	--	6.2	--	--	--
22...	0725	--	3800	--	--	--	--	--	29.6	22.2	40.0

01652590 -- POTOMAC R AT ALEXANDRIA, VA. --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCTI- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL											
28...	1201	8.0	600	371	7.5	27.5	23.0	7.0	53.4	14.2	59.5
28...	1202	1.6	600	356	7.6	27.7	--	7.2	56.6	9.7	60.5
28...	1205	--	600	--	--	--	--	--	54.9	12.9	60.4
28...	1225	--	3400	--	--	--	--	--	33.3	17.8	41.4
28...	1230	28.0	3400	336	7.5	27.7	25.0	5.5	31.6	16.0	38.8
28...	1231	20.0	3400	333	7.5	27.8	--	5.6	33.2	15.3	40.2
28...	1232	13.0	3400	330	7.6	28.0	--	5.9	34.4	14.2	40.8
28...	1233	7.0	3400	331	7.6	28.0	--	5.9	34.0	12.8	39.7
28...	1234	1.6	3400	331	7.6	28.0	--	5.9	35.0	12.3	40.4
31...	1200	1.0	3400	--	--	--	--	--	96.9	9.1	99.9
31...	1201	6.0	3400	--	--	--	--	--	79.4	13.3	84.7
31...	1202	15.0	3400	--	--	--	--	--	69.6	15.7	76.2
31...	1203	27.0	3400	--	--	--	--	--	69.0	18.6	77.0
AUG											
06...	1239	--	3100	--	--	--	--	--	77.8	19.7	86.2
06...	1240	30.0	3100	352	7.6	27.2	15.0	7.0	90.0	22.0	99.4
06...	1241	22.0	3100	364	7.5	27.4	--	6.9	80.4	21.0	89.4
06...	1242	15.0	3100	365	7.5	27.5	--	6.7	78.8	20.7	87.6
06...	1243	7.0	3100	368	7.6	27.5	--	6.6	78.0	24.0	88.5
06...	1244	1.0	3100	368	7.6	27.5	--	6.6	75.5	23.2	85.6
06...	1245	--	40000	--	--	--	--	--	78.3	16.8	85.3
06...	1252	30.0	3800	364	7.5	27.5	15.0	6.9	--	--	--
06...	1253	15.0	3800	364	7.5	27.5	--	6.8	--	--	--
06...	1254	1.0	3800	366	7.6	27.6	--	7.0	--	--	--
06...	1255	--	3800	--	--	--	--	--	--	--	--
06...	1305	11.0	300	386	7.8	27.4	--	--	67.0	27.7	79.4
06...	1306	6.0	300	394	7.8	27.5	--	7.7	73.2	30.5	86.9
06...	1307	1.0	300	391	7.8	27.5	--	7.9	84.4	31.5	98.4
06...	1308	--	300	--	--	--	--	7.8	72.7	21.8	82.3
06...	1315	--	30000	--	--	--	--	--	83.8	22.8	93.6
06...	1316	2.0	1000	382	7.8	27.2	--	--	79.3	28.9	92.1
06...	1317	--	1000	--	--	--	--	7.8	--	--	--
06...	1500	--	600	--	--	--	--	--	84.1	22.8	93.9
18...	1505	7.0	600	399	--	--	--	--	75.5	9.7	79.1
18...	1506	1.6	600	401	8.1	26.8	24.0	9.4	73.8	14.6	79.8
18...	1515	--	40000	--	--	--	--	9.2	72.7	12.9	77.9
18...	1520	26.0	3100	379	7.4	26.5	--	--	48.5	18.7	56.9
18...	1521	20.0	3100	379	7.4	26.4	24.0	6.1	46.8	35.1	63.2
18...	1522	13.0	3100	379	7.4	26.5	--	6.0	46.5	23.0	57.0
18...	1524	6.0	3100	378	7.5	26.7	--	6.2	47.9	22.9	58.3
								6.8	51.6	18.8	60.0

APPENDIX A-2

01652590 -- POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM BANK)	(000009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(000095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
AUG 18...	1525	1.6		3100		375		7.7		27.1		--		7.9		60.6		15.7		67.3	
18...	1526	--		3100		--		--		--		--		--		51.9		19.6		60.6	
18...	1535	26.0		3800		370		7.4		26.6		24.0		5.8		--		--		--	
18...	1536	13.0		3800		367		7.4		26.4		--		6.1		--		--		--	
18...	1537	1.6		3800		368		7.4		26.5		--		6.2		--		--		--	
18...	1540	--		3800		--		--		--		--		--		44.6		18.6		53.0	
24...	1720	12.0		300		427		7.9		24.9		19.0		9.8		76.4		14.2		82.2	
24...	1721	4.0		300		428		8.0		24.9		--		10.1		81.4		11.3		85.7	
24...	1722	1.0		300		427		8.0		24.9		--		10.2		86.8		12.5		91.6	
24...	1723	--		300		--		--		--		--		--		83.2		7.5		85.6	
24...	1730	12.0		1000		431		7.5		24.6		--		8.4		--		--		--	
24...	1731	4.0		1000		432		7.6		24.6		--		8.7		--		--		--	
24...	1732	1.0		1000		431		7.6		24.6		--		8.7		--		--		--	
24...	1733	--		1000		--		--		--		--		--		69.3		14.9		75.5	
24...	1745	--		30000		--		--		--		--		--		79.1		8.0		81.8	
24...	1750	29.0		3100		405		7.2		24.4		23.0		6.9		56.1		16.6		63.3	
24...	1751	10.0		3100		406		7.3		24.5		--		7.6		60.0		12.8		65.4	
24...	1752	4.0		3100		405		7.4		24.5		--		7.8		69.7		17.0		76.9	
24...	1753	1.0		3100		407		7.6		24.7		--		8.7		70.0		10.3		74.0	
24...	1754	--		3100		--		--		--		--		--		62.4		16.6		69.5	
24...	1755	--		40000		--		--		--		--		--		64.7		12.6		69.8	
24...	1800	25.0		3800		410		7.2		24.5		--		6.8		--		--		--	
24...	1801	10.0		3800		408		7.4		24.6		--		7.9		--		--		--	
24...	1802	5.0		3800		407		7.5		24.6		--		8.3		--		--		--	
24...	1803	1.0		3800		407		7.7		24.7		--		8.4		--		--		--	
24...	1805	--		3800		--		--		--		--		--		69.3		14.9		75.5	
25...	0707	14.0		300		475		6.5		24.0		18.0		8.2		58.7		13.6		64.4	
25...	0708	10.0		300		480		6.4		24.1		--		8.1		--		--		--	
25...	0709	4.0		300		463		6.4		24.1		--		8.3		55.5		11.4		60.2	
25...	0710	1.0		300		469		6.4		24.1		--		8.3		52.9		20.7		62.1	
25...	0711	--		300		--		--		--		--		--		54.2		17.1		61.7	
25...	0717	4.0		1000		435		6.6		24.0		19.0		8.5		--		--		--	
25...	0718	1.0		1000		436		6.6		24.0		--		8.6		--		--		--	
25...	0719	--		1000		--		--		--		--		--		67.8		14.7		73.9	
25...	0740	30.0		3100		421		6.4		24.1		16.0		7.3		53.6		21.6		63.3	
25...	0741	20.0		3100		421		6.4		24.1		--		7.3		51.3		21.2		60.9	
25...	0742	10.0		3100		418		6.4		24.0		--		7.3		55.2		17.7		63.0	
25...	0743	4.0		3100		416		6.4		24.0		--		7.3		52.0		17.0		59.5	
25...	0744	1.0		3100		414		6.4		24.0		--		7.3		--		--		--	

01652590 POTOMAC R AT ALEXANDRIA, VA. --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG											
25...	0745	--	3100	--	--	--	--	--	49.0	16.4	56.2
25...	0748	25.0	3800	413	6.4	24.2	18.0	6.9	--	--	--
25...	0749	12.0	3800	413	6.4	24.2	--	6.9	--	--	--
25...	0750	--	40000	--	--	--	--	--	53.8	19.7	62.6
25...	0751	1.0	3800	413	6.4	24.2	--	7.0	--	--	--
25...	0752	--	3800	--	--	--	--	--	45.5	17.9	53.6
25...	1755	--	30000	--	--	--	--	--	82.9	9.8	86.5
25...	1756	14.0	300	427	6.7	24.8	22.0	8.4	69.0	14.4	75.0
25...	1757	4.0	300	423	6.9	24.8	--	9.0	76.6	16.1	83.3
25...	1758	1.0	300	422	7.0	24.8	--	9.2	91.0	14.4	96.7
25...	1759	--	300	--	--	--	--	--	78.0	15.7	84.5
25...	1800	4.0	1000	424	7.3	25.0	23.0	10.4	--	--	--
25...	1802	1.0	1000	424	7.4	25.0	--	10.5	--	--	--
25...	1803	--	1000	--	--	--	--	--	93.8	17.3	101
25...	1815	23.0	3100	398	6.6	24.5	20.0	7.6	63.9	15.9	70.6
25...	1816	10.0	3100	404	6.8	24.7	--	8.6	69.5	12.4	74.5
25...	1817	4.0	3100	408	7.0	24.9	--	8.9	66.7	14.8	72.9
25...	1818	1.0	3100	411	7.0	25.0	--	9.1	70.0	10.3	74.0
25...	1819	--	3100	--	--	--	--	--	61.8	15.9	68.6
25...	1820	--	40000	--	--	--	--	--	63.0	17.3	70.5
25...	1825	24.0	3800	405	6.7	24.8	--	8.3	--	--	--
25...	1826	10.0	3800	404	7.0	24.9	--	9.0	--	--	--
25...	1827	1.0	3800	408	7.0	25.0	--	8.9	--	--	--
25...	1830	--	3800	--	--	--	--	--	66.4	16.0	73.2
26...	0705	13.0	300	434	6.4	24.1	18.0	7.4	53.7	21.5	63.4
26...	0706	4.0	300	434	6.4	24.2	--	7.4	51.8	19.9	60.8
26...	0707	1.0	300	435	6.4	24.2	--	7.4	60.0	16.8	67.3
26...	0708	--	300	--	--	--	--	--	52.2	20.7	61.6
26...	0711	--	1000	--	--	--	--	--	50.8	17.0	58.3
26...	0712	5.0	1000	429	6.4	24.2	18.0	7.0	--	--	--
26...	0714	1.0	1000	428	6.4	24.3	--	7.0	--	--	--
26...	0715	--	30000	--	--	--	--	--	51.5	22.1	61.5
26...	0728	32.0	3100	413	6.3	24.1	18.0	7.2	60.5	20.6	69.6
26...	0729	20.0	3100	414	6.3	24.1	--	7.2	--	--	--
26...	0730	10.0	3100	405	6.3	24.1	--	7.2	55.7	21.0	65.1
26...	0731	4.0	3100	402	6.3	24.2	--	7.1	54.5	19.1	63.0
26...	0732	1.0	3100	402	6.3	24.2	--	7.1	51.3	21.2	60.9
26...	0733	--	3100	--	--	--	--	--	51.0	21.1	60.5
26...	0738	32.0	3800	408	6.3	24.2	18.0	7.0	--	--	--

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG	0739	16.0	3800	406	6.3	24.2	--	7.0	--	--	--
26...	0740	1.0	3800	405	6.3	24.1	--	7.2	--	--	--
26...	0741	--	3800	--	--	--	--	--	54.2	16.8	61.6
26...	0745	--	40000	--	--	--	--	--	54.5	20.2	63.5
26...	1710	10.0	300	424	7.5	24.9	19.0	8.3	65.6	11.6	70.3
26...	1711	4.0	300	423	7.6	24.9	--	8.7	62.7	17.9	70.4
26...	1712	1.0	300	424	7.6	24.9	--	8.9	69.0	15.5	75.5
26...	1713	--	300	--	--	--	--	--	62.6	16.8	69.8
26...	1717	4.0	1000	411	7.8	24.9	--	9.1	--	--	--
26...	1718	1.0	1000	412	7.8	24.9	--	9.1	--	--	--
26...	1719	--	1000	--	--	--	--	--	--	--	--
26...	1720	--	30000	--	--	--	--	--	68.6	10.9	72.9
26...	1730	24.0	3100	402	7.5	24.7	--	--	64.0	17.4	71.5
26...	1731	10.0	3100	409	7.8	24.9	17.0	8.3	62.0	18.3	70.0
26...	1732	4.0	3100	402	7.7	24.8	--	9.2	66.0	14.3	72.0
26...	1733	1.0	3100	410	7.9	25.0	--	8.8	68.6	16.4	75.5
26...	1735	--	3100	--	--	--	--	9.3	75.9	11.9	80.6
26...	1740	--	40000	--	--	--	--	--	61.4	14.9	67.7
26...	1741	25.0	3800	412	7.3	24.5	19.0	7.2	64.7	14.5	70.8
26...	1742	13.0	3800	408	7.4	24.7	--	8.1	--	--	--
26...	1743	1.0	3800	405	8.2	25.1	--	10.7	--	--	--
26...	1745	--	3800	--	--	--	--	--	65.4	15.8	72.0
SEP	1305	10.0	600	453	6.5	26.1	30.0	5.8	--	--	--
01...	1307	2.0	600	465	6.5	26.7	--	6.1	--	--	--
01...	1322	30.0	3400	443	--	25.9	18.0	4.4	36.8	21.5	46.7
01...	1323	20.0	3400	436	6.2	25.9	--	4.3	34.8	19.4	43.7
01...	1324	13.0	3400	--	--	--	--	--	37.5	16.6	45.0
01...	1326	7.0	3400	434	6.2	26.3	--	4.8	42.7	15.2	49.4
01...	1327	4.0	3400	432	6.3	26.8	--	5.3	44.3	16.1	51.5
01...	1328	1.0	3400	434	6.4	26.8	--	5.7	53.9	13.2	59.5
01...	1355	14.0	600	478	6.3	26.4	--	5.9	39.6	16.2	46.9
01...	1356	7.0	600	478	6.3	26.6	--	6.4	43.6	14.1	49.8
01...	1357	4.0	600	471	6.3	26.7	--	6.7	48.4	14.6	54.8
01...	1358	1.0	600	456	6.4	26.7	--	6.9	47.4	15.5	54.2
01...	0730	30.0	3400	406	6.9	23.6	24.0	4.9	24.4	14.5	31.0
10...	0731	23.0	3400	407	6.9	23.7	--	4.8	21.5	16.4	29.2
10...	0733	13.0	3400	407	6.9	23.8	--	4.8	22.6	15.2	29.7
10...	0735	6.0	3400	407	6.9	23.8	--	4.9	22.9	14.7	29.7
10...	0737	1.0	3400	406	6.9	23.7	--	4.9	23.7	11.7	29.0

01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
SEP											
10...	0800	10.0	600	479	6.8	23.5	24.0	5.3	26.1	16.3	33.6
10...	0802	6.0	600	473	6.8	23.6	--	5.3	28.2	16.0	35.6
10...	0804	1.6	600	474	6.9	23.6	--	5.4	28.9	14.2	35.3
16...	1235	14.0	600	520	6.4	24.4	--	5.9	29.8	17.7	38.0
16...	1236	6.0	600	520	6.4	24.5	--	6.0	31.8	15.5	38.9
16...	1237	1.0	600	521	6.4	24.5	--	6.0	32.1	15.3	39.0
16...	1303	30.0	3400	508	6.5	24.6	22.0	5.8	25.0	20.4	34.5
16...	1305	21.0	3400	508	6.5	24.7	--	5.8	25.2	15.2	32.2
16...	1307	14.0	3400	508	6.5	24.7	--	5.9	25.5	13.6	31.8
16...	1309	7.0	3400	508	6.5	24.8	--	6.0	25.9	12.5	31.6
16...	1310	1.0	3400	507	6.5	24.7	--	6.0	25.6	15.2	32.7
22...	0955	10.0	600	486	7.3	21.5	25.0	6.5	20.4	11.8	25.9
22...	0956	5.0	600	485	7.3	21.5	--	6.5	20.4	12.2	26.1
22...	0957	1.6	600	498	7.4	21.7	--	7.1	26.5	10.5	31.3
22...	1016	26.0	3400	436	7.4	21.8	26.0	6.2	12.5	12.7	18.5
22...	1017	20.0	3400	436	7.4	21.8	--	6.2	13.5	8.4	17.4
22...	1018	13.0	3400	436	7.4	21.9	--	6.2	12.2	10.6	17.1
22...	1019	6.0	3400	437	7.4	21.9	--	6.2	14.3	7.4	17.7
22...	1020	1.5	3400	436	7.4	22.1	--	6.4	13.8	7.7	17.4

384605077015900 - POTOMAC RIVER AT ROSIER BLUFF

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION (FT FM BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(000003)	(000009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
OCT											
02...	1430	25.0	625	389	6.7	22.7	24.0	4.8	8.4	6.0	11.1
02...	1432	13.0	625	388	6.7	22.7	--	4.9	9.3	6.1	11.1
02...	1434	6.0	625	388	6.7	22.7	--	5.0	8.4	5.3	10.8
02...	1436	1.0	625	387	6.7	22.8	--	5.2	11.0	5.9	13.6
02...	1445	--	50000	--	--	--	--	--	9.2	5.5	10.8
02...	1455	12.0	3600	403	6.6	22.6	25.0	4.7	--	--	--
02...	1457	1.0	3600	403	6.7	22.7	--	4.9	--	--	--
02...	1458	--	3600	--	--	--	--	--	9.2	5.1	10.5
02...	1540	6.0	1600	401	6.7	22.8	25.0	4.7	--	--	--
02...	1542	1.0	1600	401	6.7	22.7	--	4.9	--	--	--
02...	1544	--	1600	--	--	--	--	--	7.0	5.9	9.8
03...	1130	25.0	625	434	6.4	20.8	28.0	5.4	6.4	6.6	9.5
03...	1132	17.0	625	434	6.5	21.1	--	5.1	6.7	--	--
03...	1133	13.0	625	--	--	--	--	--	7.2	5.8	9.9
03...	1135	6.0	625	--	--	--	--	--	7.0	5.5	9.5
03...	1137	1.0	625	--	--	--	--	--	14.4	7.3	17.8
21...	0940	29.0	625	467	6.9	17.4	26.0	7.4	15.3	8.3	19.1
21...	0942	13.0	625	472	6.8	17.4	--	7.2	16.3	7.5	19.7
21...	0944	6.0	625	480	6.8	17.5	--	7.3	15.8	7.9	20.4
21...	0946	1.0	625	482	6.8	17.5	--	7.3	17.3	8.8	21.3
21...	0950	--	625	--	--	--	--	--	9.3	6.1	12.2
NOV											
18...	1410	28.0	625	516	7.7	9.4	28.0	9.7	8.8	5.5	11.4
18...	1412	13.0	625	516	7.7	9.3	--	9.6	9.0	6.4	12.0
18...	1414	2.0	625	516	7.7	9.3	--	9.7	9.2	6.7	12.3
18...	1420	--	625	--	--	--	--	--	--	--	--
DEC											
16...	1405	--	625	--	--	--	--	--	2.9	6.3	5.9
16...	1410	26.0	625	347	7.7	5.7	24.0	10.9	2.9	7.1	6.3
16...	1412	20.0	625	346	7.7	5.6	--	10.9	3.1	6.4	6.2
16...	1413	13.0	625	347	7.7	5.6	--	11.0	2.8	6.6	6.0
16...	1415	6.0	625	346	7.7	5.6	--	11.0	2.8	5.4	5.4
16...	1417	1.0	625	347	7.7	5.6	--	11.0	2.8	5.5	5.4
16...	1420	5.0	1600	348	7.7	5.9	30.0	10.9	--	--	--
16...	1422	1.0	1600	348	7.7	5.9	--	10.9	--	--	--
16...	1424	--	1600	--	--	--	--	--	2.0	5.0	4.4
16...	1425	--	50000	--	--	--	--	--	2.4	5.3	4.9
16...	1427	6.0	3600	348	7.7	5.8	--	10.8	--	--	--
16...	1428	1.0	3600	348	7.7	5.8	25.0	10.9	--	--	--
16...	1430	--	3600	--	--	--	--	--	2.3	4.5	4.5
FEB											
03...	1540	3.0	625	528	8.1	3.2	--	11.9	4.2	1.4	4.8

384605077015900 - POTOMAC RIVER AT ROSIER BLUFF
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

---Cont.

DATE	TIME	SAMP- DEPTH (FT)	SAMP- L (00003)	LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)
FER												
04...	1020	--	625	--	--	--	--	--	--	4.7	1.5	5.3
04...	1022	26.0	625	532	8.0	2.1	42.0	13.1	13.1	4.9	1.8	5.7
04...	1024	15.0	625	531	8.0	2.0	--	12.6	12.6	4.4	1.6	5.0
04...	1026	2.0	625	531	8.0	2.0	--	12.5	12.5	4.0	1.7	4.8
VAR												
04...	0925	--	625	--	--	--	--	--	--	3.5	3.2	5.0
04...	0926	28.0	625	209	7.7	6.9	24.0	11.6	11.6	3.9	4.2	5.9
04...	0927	13.0	625	212	7.7	7.0	--	11.6	11.6	3.4	3.1	4.8
04...	0928	2.0	625	212	7.7	7.0	--	11.6	11.6	3.2	3.1	4.6
18...	0730	3.0	625	392	7.7	5.9	--	10.1	10.1	7.3	5.8	10.0
APR												
15...	0820	29.0	625	251	7.4	13.8	--	9.8	9.8	84.3	131	147
15...	0821	23.0	625	236	7.4	13.8	--	10.0	10.0	34.8	59.8	63.4
15...	0822	13.0	625	236	7.4	13.8	--	10.0	10.0	35.2	45.8	56.9
15...	0824	2.0	625	238	7.4	13.8	--	10.0	10.0	25.4	28.7	38.9
MAY												
19...	0852	29.0	625	251	7.0	18.3	22.0	5.9	5.9	5.7	16.5	13.6
19...	0854	20.0	625	251	7.0	18.4	--	5.8	5.8	5.4	13.2	11.7
19...	0856	10.0	625	251	7.0	18.4	--	5.8	5.8	5.3	12.4	11.3
19...	0858	2.0	625	251	7.0	18.4	--	5.8	5.8	4.1	15.6	11.7
JUN												
30...	1046	29.0	625	275	6.4	26.6	26.0	5.7	5.7	11.7	21.3	21.9
30...	1048	23.0	625	275	6.4	26.6	--	5.7	5.7	9.5	16.9	17.6
30...	1050	15.0	625	275	6.5	26.6	--	5.9	5.9	9.2	7.8	12.9
30...	1052	7.0	625	275	6.5	26.7	--	6.0	6.0	11.7	8.6	15.7
30...	1054	2.0	625	272	6.5	27.1	--	5.8	5.8	8.2	5.8	10.9
JUL												
08...	1950	28.0	625	319	7.3	27.1	24.0	7.7	7.7	22.5	9.5	26.8
08...	1952	20.0	625	319	7.4	27.1	--	7.8	7.8	23.9	8.9	27.9
08...	1954	13.0	625	321	7.4	27.4	--	8.1	8.1	31.1	8.1	34.6
08...	1956	6.0	625	321	7.3	27.6	--	8.4	8.4	39.6	6.1	42.0
08...	1958	2.0	625	322	7.6	28.1	--	9.7	9.7	66.9	4.6	68.1
08...	1959	--	625	--	--	--	--	--	--	30.0	7.5	33.2
08...	2000	--	50000	--	--	--	--	--	--	23.7	7.8	27.2
08...	2005	5.0	1600	316	7.1	27.2	24.0	6.9	6.9	--	--	--
08...	2006	2.0	1600	317	7.2	27.3	--	7.4	7.4	--	--	--
08...	2008	--	1600	--	--	--	--	--	--	12.5	7.0	15.7
08...	2015	8.0	3600	304	7.0	28.0	34.0	6.9	6.9	--	--	--
08...	2016	2.0	3600	295	7.0	28.2	--	6.8	6.8	--	--	--
08...	2018	--	3600	--	--	--	--	--	--	10.7	5.3	13.2
15...	1700	3.0	625	322	7.4	29.0	--	--	--	18.4	7.8	21.9
20...	0614	--	1600	--	--	--	--	--	--	40.1	18.5	48.5
20...	0615	7.0	1600	319	6.8	28.7	30.0	6.0	6.0	--	--	--
20...	0617	4.0	1600	319	6.8	28.8	--	6.0	6.0	--	--	--

APPENDIX A-2

384605077015900 - POTOMAC RIVER AT ROSIER BLUFF --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL											
20...	0619	2.0	1600	319	6.8	28.8	--	6.0	--	--	--
20...	0630	29.0	625	318	6.7	28.5	36.0	5.6	42.4	17.1	50.1
20...	0632	23.0	625	318	6.7	28.5	--	5.7	42.5	16.7	50.0
20...	0634	13.0	625	319	6.8	28.7	--	5.9	42.4	13.1	48.1
20...	0636	6.0	625	319	6.8	28.8	--	6.0	39.2	12.3	44.6
20...	0638	1.0	625	319	6.8	28.8	--	6.0	40.3	15.3	47.1
20...	0639	--	625	--	--	--	--	--	42.1	14.2	48.4
20...	0640	--	50000	--	--	--	--	--	37.4	14.3	43.8
20...	0710	9.0	3600	311	6.5	28.2	30.0	4.9	--	--	--
20...	0712	5.0	3600	311	6.5	28.1	--	5.0	--	--	--
20...	0714	2.0	3600	311	6.6	28.2	--	4.8	--	--	--
20...	0720	--	3600	--	--	--	--	--	26.1	12.2	31.7
20...	1628	--	625	--	--	--	--	--	39.1	21.3	47.9
20...	1629	31.0	625	--	--	--	--	--	21.5	22.3	32.0
20...	1630	28.0	625	321	6.8	29.3	40.0	5.4	--	--	--
20...	1632	23.0	625	321	6.9	29.2	--	5.5	27.9	24.3	39.3
20...	1634	13.0	625	321	6.9	29.4	--	6.0	23.5	18.5	41.0
20...	1636	6.0	625	321	7.0	29.6	--	6.9	49.0	10.7	53.5
20...	1638	2.0	625	320	7.2	29.9	--	7.2	49.8	13.5	55.6
20...	1700	6.0	1600	318	7.0	29.4	31.0	6.2	--	--	--
20...	1702	3.0	1600	318	7.0	29.3	--	6.1	--	--	--
20...	1704	1.0	1600	318	7.0	29.3	--	6.1	--	--	--
20...	1705	--	1600	--	--	--	--	--	31.9	14.9	38.7
20...	1715	10.0	3600	310	7.1	29.7	30.0	8.1	--	--	--
20...	1716	6.0	3600	311	7.1	29.8	--	8.2	--	--	--
20...	1718	2.0	3600	310	7.1	29.9	--	8.0	--	--	--
20...	1720	--	3600	--	--	--	--	--	62.8	8.6	66.1
20...	1730	--	50000	--	--	--	--	--	46.6	16.8	54.1
21...	0550	11.0	3600	314	6.7	28.4	30.0	4.8	--	--	--
21...	0551	5.0	3600	314	6.6	28.5	--	4.5	--	--	--
21...	0552	1.0	3600	314	6.6	28.5	--	4.6	--	--	--
21...	0555	--	3600	--	--	--	--	--	25.0	12.6	30.8
21...	0600	--	50000	--	--	--	--	--	33.1	12.5	38.7
21...	0601	--	1600	--	--	--	--	--	31.9	15.7	39.0
21...	0602	6.0	1600	324	6.7	28.8	36.0	4.9	--	--	--
21...	0603	1.0	1600	324	6.7	28.9	--	4.9	--	--	--
21...	0605	28.0	625	322	6.8	28.9	42.0	5.7	38.3	16.6	45.8
21...	0606	23.0	625	322	6.8	28.9	--	5.7	39.9	16.6	47.4
21...	0608	13.0	625	322	6.8	28.9	--	5.4	37.2	14.9	43.9

APPENDIX A-2

384605077015800 - POTOMAC RIVER AT ROSIER BLUFF

--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL	21...	6.0	625	322	6.8	28.9	--	5.4	37.3	14.5	43.8
	0609	1.0	625	321	6.9	28.9	--	5.4	33.7	15.3	40.6
	0615	--	625	--	--	--	--	--	37.3	14.4	43.7
	1535	--	3600	--	--	--	--	--	52.2	9.5	56.1
	1540	12.0	3600	316	7.2	29.6	23.0	6.9	--	--	--
	1542	7.0	3600	315	7.3	29.8	--	7.7	--	--	--
	1544	1.0	3600	316	7.3	30.0	--	7.6	--	--	--
	1550	6.0	1600	323	7.0	29.3	28.0	5.4	--	--	--
	1552	4.0	1600	323	7.0	29.2	--	5.3	--	--	--
	1554	1.0	1600	323	7.0	29.2	--	5.3	--	--	--
	1555	--	1600	--	--	--	--	--	37.5	18.2	45.8
	1610	--	50000	--	--	--	--	--	54.6	12.7	60.0
	1611	31.0	625	--	--	--	--	--	46.9	24.3	58.1
	1612	25.0	625	323	7.1	29.2	29.0	5.6	--	--	--
	1614	23.0	625	324	7.1	29.3	--	5.6	47.5	22.0	57.5
	1616	13.0	625	323	7.2	29.5	--	6.1	46.5	15.8	53.5
	1618	10.0	625	324	7.3	29.7	--	6.5	--	--	--
	1620	6.0	625	322	7.7	29.9	--	8.4	65.5	11.2	70.0
	1622	1.0	625	323	7.8	30.0	--	8.4	70.0	10.8	74.5
	1625	--	625	--	--	--	--	--	51.5	14.9	57.9
	0600	9.0	3600	322	6.7	28.2	36.0	4.6	--	--	--
	0602	6.0	3600	323	6.7	28.4	--	4.4	--	--	--
	0603	3.0	3600	322	6.6	28.5	--	4.2	--	--	--
	0605	--	3600	--	--	--	--	--	34.3	10.0	38.7
	0615	--	50000	--	--	--	--	--	35.4	15.6	42.5
	0616	--	1600	--	--	--	--	--	33.8	18.4	42.2
	0617	5.0	1600	324	6.9	29.0	30.0	5.2	--	--	--
	0619	1.0	1600	324	6.9	29.1	--	5.2	--	--	--
	0620	26.0	625	327	7.0	28.8	36.0	6.2	44.6	12.4	50.0
	0622	23.0	625	326	7.0	28.8	--	6.1	44.1	15.0	50.7
	0624	13.0	625	326	6.9	28.8	--	5.9	46.6	14.7	53.1
	0626	6.0	625	326	6.9	28.8	--	5.6	34.2	17.4	42.2
	0628	1.0	625	326	6.9	28.4	--	4.7	40.6	13.9	46.8
	0630	--	625	--	--	--	--	--	41.2	15.9	48.4
	1145	--	625	--	--	--	--	--	41.5	22.6	51.9
AUG	1330	--	625	--	--	--	--	--	78.6	17.3	85.9
	06...	30.0	625	349	7.6	27.4	18.0	7.0	77.6	19.9	86.1
	1335	22.0	625	349	7.5	27.5	--	6.8	70.3	17.0	77.6
	1337	15.0	625	349	7.5	27.5	--	7.0	77.4	13.4	82.8

384605077015800 - POTOMAC RIVER AT ROSIER BLUFF

--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG											
06...	1341	7.0	625	349	7.6	27.5	--	7.1	70.7	16.0	77.5
06...	1343	1.0	625	349	7.6	27.5	--	7.2	74.2	16.9	81.4
06...	1345	--	50000	--	--	--	--	--	84.0	16.0	90.5
06...	1350	10.0	1600	363	7.6	27.5	15.0	7.1	--	--	--
06...	1352	1.0	1600	363	7.6	27.5	--	7.3	--	--	--
06...	1355	--	1600	--	--	--	--	--	84.7	17.3	91.9
06...	1400	10.0	3600	361	7.5	27.4	18.0	7.0	--	--	--
06...	1401	1.0	3600	355	7.7	27.5	--	7.5	--	--	--
06...	1405	--	3600	--	--	--	--	--	--	--	--
18...	1415	--	50000	--	--	--	--	--	87.8	15.2	93.9
18...	1420	--	625	--	--	--	--	--	68.6	20.7	77.6
18...	1425	27.0	625	379	--	--	--	--	70.7	20.3	79.6
18...	1426	20.0	625	378	7.6	26.5	22.0	7.1	61.9	25.8	73.5
18...	1428	13.0	625	376	7.6	26.5	--	7.0	67.0	17.5	74.5
18...	1430	6.0	625	378	7.9	26.5	--	7.2	66.2	18.0	74.0
18...	1432	1.6	625	379	8.3	26.7	--	8.2	75.0	15.9	81.6
18...	1435	1.6	1600	379	7.8	27.0	--	9.8	81.6	14.0	87.2
18...	1440	--	1600	--	--	26.8	24.0	8.1	--	--	--
18...	1625	--	625	--	--	--	--	--	70.0	14.7	76.0
24...	1630	24.0	625	385	--	--	--	--	57.0	16.1	64.0
24...	1632	10.0	625	388	7.2	24.4	16.0	7.0	48.0	13.8	54.0
24...	1634	4.0	625	397	7.7	24.5	--	7.6	46.9	14.4	53.2
24...	1635	1.0	625	397	8.3	24.7	--	8.5	56.1	14.6	62.4
24...	1650	10.0	1600	390	7.2	25.4	--	10.9	79.0	11.6	83.5
24...	1652	5.0	1600	391	7.6	24.3	28.0	7.0	--	--	--
24...	1654	1.0	1600	395	8.0	24.6	--	8.1	--	--	--
24...	1655	--	1600	--	--	25.1	--	9.8	--	--	--
24...	1700	--	50000	--	--	--	--	--	71.2	7.9	74.1
24...	1705	20.0	3600	400	7.6	--	--	--	63.7	--	--
24...	1707	10.0	3600	395	8.2	24.5	20.0	8.8	--	--	--
24...	1709	1.0	3600	393	8.3	25.0	--	10.6	--	--	--
24...	1710	--	3600	--	--	25.0	--	11.4	--	--	--
25...	0620	--	625	--	--	--	--	--	76.9	18.7	84.8
25...	0625	33.0	625	401	6.6	24.1	--	--	52.8	19.9	61.7
25...	0628	16.0	625	399	6.7	24.0	20.0	7.7	58.0	13.9	63.9
25...	0630	10.0	625	397	6.7	24.0	--	7.7	--	--	--
25...	0632	4.0	625	397	6.7	24.0	--	7.7	46.4	13.0	52.0
25...	0633	1.0	625	396	6.7	24.0	--	7.7	57.3	13.9	63.2
25...	0635	6.0	1600	394	6.6	24.0	17.0	7.6	52.2	14.3	58.4
									--	--	--

APPENDIX A-2

384605077015800 - POTOMAC RIVER AT ROSIER BLUFF

--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG 25...	0637	1.0	1600	394	6.6	24.1	--	7.7	--	--	--
25...	0640	--	1600	--	--	--	--	--	49.6	19.1	58.1
25...	0645	--	5000	--	--	--	--	--	55.2	19.3	63.8
25...	0646	13.0	3600	399	6.8	23.8	18.0	8.3	--	--	--
25...	0648	1.0	3600	399	6.8	23.8	--	8.3	--	--	--
25...	0650	--	3600	--	--	--	--	--	66.8	21.4	76.2
25...	1705	--	625	--	--	--	--	--	57.3	15.8	64.1
25...	1710	30.0	625	388	6.8	24.5	28.0	7.5	59.1	17.2	66.6
25...	1712	10.0	625	386	6.8	24.4	--	7.5	55.7	18.2	63.8
25...	1714	4.0	625	386	6.9	24.4	--	7.6	65.0	15.3	71.5
25...	1716	1.0	625	385	6.9	24.4	--	8.0	68.0	13.4	73.5
25...	1720	8.0	1600	402	6.8	24.6	22.0	8.0	--	--	--
25...	1722	1.0	1600	406	7.2	24.9	--	9.2	72.4	13.9	78.1
25...	1725	--	1600	--	--	--	--	--	66.8	13.0	72.1
25...	1730	--	5000	--	--	--	--	--	--	--	--
25...	1732	8.0	3600	407	7.0	24.9	23.0	8.8	--	--	--
25...	1734	1.0	3600	405	7.1	24.9	--	9.2	--	--	--
25...	1735	--	3600	--	--	--	--	--	76.4	12.3	81.3
26...	0620	--	625	--	--	--	--	--	46.9	14.9	53.4
26...	0625	32.0	625	384	6.5	24.0	18.0	6.8	52.4	18.3	60.5
26...	0627	20.0	625	393	6.5	24.0	--	6.7	49.2	19.8	58.1
26...	0629	10.0	625	382	6.4	24.1	--	6.6	50.7	13.2	56.4
26...	0631	4.0	625	391	6.4	24.0	--	6.6	46.4	20.0	55.5
26...	0633	1.0	625	381	6.4	24.0	--	6.7	--	--	--
26...	0635	7.0	1600	383	6.4	23.9	18.0	6.7	--	--	--
26...	0637	1.0	1600	393	6.4	23.9	--	6.7	51.0	14.5	57.4
26...	0640	--	1600	--	--	--	--	--	54.3	16.5	61.6
26...	0645	--	5000	--	--	--	--	--	60.0	15.4	66.6
26...	0646	11.0	3600	401	6.5	23.9	17.0	7.3	55.6	23.1	60.5
26...	0648	1.0	3600	402	6.5	23.9	--	7.5	50.0	17.0	61.0
26...	0650	--	3600	--	--	--	--	--	53.5	15.8	68.7
26...	1630	--	625	--	--	--	--	--	61.9	12.8	67.7
26...	1635	29.0	625	397	7.1	24.3	16.0	6.8	62.4	11.2	67.7
26...	1637	10.0	625	387	7.3	24.5	--	7.6	61.0	12.5	66.2
26...	1639	7.0	625	398	7.5	24.7	--	8.2	60.5	--	--
26...	1641	4.0	625	388	7.7	24.8	--	9.1	55.6	--	--
26...	1643	1.0	625	388	7.9	25.0	--	9.3	50.0	--	--
26...	1650	--	5000	--	--	--	--	--	55.6	--	--
26...	1652	7.0	1600	394	7.4	24.5	18.0	7.9	60.0	--	--

384605077015800 - POTOMAC RIVER AT ROSIER BLUFF

--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (JG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG											
26...	1654	1.0	1600	394	7.4	24.6	--	8.1	--	--	--
26...	1655	--	1600	--	--	--	--	--	56.4	17.6	64.1
26...	1700	10.0	3600	399	7.5	24.6	19.0	8.3	--	--	--
26...	1702	5.0	3600	400	7.7	24.8	--	8.8	--	--	--
26...	1704	1.0	3600	401	7.8	24.8	--	9.3	--	--	--
26...	1705	--	3600	--	--	--	--	--	67.7	11.7	72.4
SEP											
10...	0820	--	625	--	--	--	--	--	30.8	14.1	37.2
16...	1340	--	3600	--	--	--	--	--	33.3	20.3	42.6
16...	1345	3.0	3600	476	6.4	24.6	--	6.0	--	--	--
16...	1350	3.0	625	476	6.4	24.7	--	5.8	--	--	--
16...	1355	--	625	--	--	--	--	--	30.0	24.1	41.2
22...	0930	--	625	--	--	--	--	--	20.3	11.6	25.6

APPENDIX A-2

384318077020300 - POTOMAC RIVER AT HATTON POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LCC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
02...	1510	38.0	300	366	6.6	22.4	35.0	4.3	--	--	--
02...	1512	19.0	300	367	6.6	22.4	--	4.3	--	--	--
02...	1514	1.0	300	374	6.7	22.9	--	4.9	--	--	--
02...	1515	--	300	--	--	--	--	--	8.9	8.9	13.1
02...	1520	--	50000	--	--	--	--	--	10.6	8.8	14.7
02...	1525	37.0	1000	356	6.6	22.3	24.0	4.1	8.8	10.4	13.7
02...	1527	17.0	1000	356	6.6	22.3	--	4.2	8.9	9.8	13.5
02...	1529	6.0	1000	357	6.6	22.4	--	4.5	7.3	8.3	11.2
02...	1531	1.0	1000	356	6.6	22.6	--	4.9	10.0	7.9	13.7
02...	1542	1.0	2400	362	6.6	22.7	30.0	5.2	--	--	--
02...	1543	--	2400	--	--	--	--	--	10.4	6.4	13.3
03...	1025	1.0	2400	398	6.4	20.5	28.0	5.1	--	--	--
03...	1026	--	2400	--	--	--	--	--	7.8	6.3	10.7
03...	1028	38.0	1000	395	6.4	20.8	28.0	5.1	9.0	9.1	13.3
03...	1030	17.0	1000	398	6.5	20.8	--	5.2	8.0	7.9	11.7
03...	1032	6.0	1000	399	6.4	20.8	--	5.2	9.0	6.8	12.2
03...	1036	1.0	1000	398	6.4	20.8	--	5.3	9.0	5.7	11.7
03...	1045	38.0	300	390	6.4	21.0	25.0	5.1	--	--	--
03...	1046	19.0	300	392	6.4	21.0	--	5.0	--	--	--
03...	1047	1.0	300	393	6.4	20.9	--	5.1	--	--	--
03...	1048	--	300	--	--	--	--	--	10.5	6.6	13.6
03...	1050	--	50000	--	--	--	--	--	9.8	7.0	13.1
21...	1000	35.0	300	449	6.9	17.0	22.0	7.3	--	--	--
21...	1002	19.0	300	448	6.9	17.0	--	7.2	--	--	--
21...	1004	1.0	300	443	6.9	17.2	--	7.2	--	--	--
21...	1005	--	300	--	--	--	--	--	14.5	7.2	17.8
21...	1010	--	50000	--	--	--	--	--	10.4	6.9	13.6
21...	1015	35.0	1000	443	6.8	17.2	30.0	7.1	18.5	11.2	23.6
21...	1017	19.0	1000	443	6.8	17.2	--	7.1	15.2	10.1	19.9
21...	1019	6.0	1000	442	6.9	17.2	--	7.2	14.4	6.4	17.3
21...	1021	1.0	1000	442	6.9	17.2	--	7.2	14.0	6.9	17.2
NOV	1335	37.0	1000	496	7.7	8.5	28.0	9.8	7.0	6.6	10.1
18...	1337	17.0	1000	497	7.7	8.6	--	9.8	6.8	5.3	9.3
18...	1339	2.0	1000	497	7.7	8.6	--	9.7	5.6	4.7	8.8
18...	1345	--	50000	--	--	--	--	--	6.8	5.0	9.1
18...	1350	41.0	300	497	7.7	8.7	35.0	9.8	--	--	--
18...	1352	19.0	300	497	7.7	8.6	--	9.7	--	--	--
18...	1354	2.0	300	497	7.7	8.6	--	9.8	--	--	--
18...	1355	--	300	--	--	--	--	--	6.4	5.2	8.8

394318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
DEC											
16...	1330	40.0	300	341	7.7	5.7	24.0	10.7	--	--	--
16...	1332	19.0	300	341	7.7	5.6	--	10.8	--	--	--
16...	1334	1.0	300	341	7.7	5.7	--	10.8	--	--	--
16...	1335	--	300	--	--	--	--	--	2.7	8.1	6.6
16...	1340	38.0	1000	341	7.7	5.6	23.0	10.8	3.8	10.9	9.0
16...	1341	25.0	1000	341	7.7	5.6	--	10.8	3.0	10.0	7.8
16...	1343	17.0	1000	341	7.7	5.6	--	10.8	2.7	8.4	6.7
16...	1345	--	50000	--	--	--	--	--	2.5	6.4	5.5
16...	1346	--	1000	--	--	--	--	--	2.7	7.7	6.4
16...	1347	8.0	1000	341	7.7	5.6	--	10.9	2.9	8.1	6.8
16...	1348	1.0	1000	341	7.7	5.6	--	10.9	2.4	7.0	5.8
16...	1350	4.0	2400	339	7.7	4.9	24.0	10.7	--	--	--
16...	1352	1.0	2400	339	7.7	4.8	--	10.8	--	--	--
16...	1353	--	2400	--	--	--	--	--	1.1	3.4	2.7
FEB											
03...	1535	41.0	1000	554	8.0	3.1	--	11.9	--	--	--
03...	1537	20.0	1000	553	8.0	3.1	--	11.8	--	--	--
03...	1539	3.0	1000	553	8.0	3.2	--	11.7	7.1	2.1	8.0
04...	1040	40.0	1000	564	7.7	2.5	38.0	14.2	10.0	5.6	12.4
04...	1041	18.0	1000	564	7.9	2.5	--	13.1	8.3	2.9	9.6
04...	1042	10.0	1000	564	8.0	2.5	--	12.3	8.0	2.6	9.2
04...	1043	2.0	1000	564	8.0	2.5	--	12.4	7.8	3.2	9.3
04...	1045	--	1000	--	--	--	--	--	8.6	4.4	10.6
MAR											
04...	0905	--	1000	--	--	--	--	--	4.1	5.4	6.6
04...	0907	39.0	1000	204	7.6	7.1	23.0	11.5	16.9	25.1	28.8
04...	0909	30.0	1000	204	7.6	7.1	--	11.4	5.8	6.8	9.0
04...	0911	18.0	1000	203	7.6	7.1	--	11.4	4.8	7.6	8.4
04...	0913	2.0	1000	204	7.6	7.1	--	11.4	2.8	3.2	4.3
18...	1000	3.0	1000	358	7.6	6.1	--	10.0	6.1	4.5	8.2
24...	1145	3.0	1000	287	7.6	6.1	--	10.8	15.5	3.1	16.8
APR											
01...	1620	--	1000	--	--	--	--	--	10.9	9.8	15.5
15...	0852	38.0	1000	273	7.3	13.9	16.0	9.4	53.3	85.4	94.0
15...	0854	28.0	1000	273	7.4	13.9	--	9.4	39.5	41.8	59.2
15...	0856	15.0	1000	272	7.4	14.0	--	9.5	36.6	38.2	54.6
15...	0858	2.0	1000	274	7.4	14.0	--	9.5	31.9	27.9	45.0
29...	1345	--	1000	--	--	--	--	--	28.0	14.9	34.8
29...	1350	--	2400	--	--	--	--	--	34.7	40.9	54.1
MAY											
19...	0912	39.0	1000	259	7.0	18.3	24.0	5.9	3.1	10.5	8.2

APPENDIX A-2

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION CRDSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
MAY											
19...	0914	30.0	1000	260	7.0	18.3	--	5.7	3.0	9.5	7.6
19...	0916	20.0	1000	259	7.0	18.4	--	5.7	2.5	9.3	7.0
19...	0918	10.0	1000	260	7.0	18.4	--	5.6	2.7	9.0	7.1
19...	0920	2.0	1000	261	7.0	18.4	--	5.7	2.9	8.9	7.2
JUN											
24...	1200	--	1000	--	--	--	--	--	6.9	5.5	9.4
30...	1117	40.0	1000	255	6.5	26.6	--	5.1	12.0	18.9	21.0
30...	1119	30.0	1000	255	6.5	26.6	--	5.2	9.7	9.4	14.1
30...	1121	23.0	1000	254	6.5	26.6	--	5.2	11.3	7.4	14.8
30...	1123	15.0	1000	250	6.5	26.6	--	5.3	12.9	9.9	17.5
30...	1125	7.0	1000	253	6.5	27.0	--	5.8	12.0	4.2	13.8
30...	1127	2.0	1000	258	6.6	27.3	--	5.8	8.3	3.7	10.0
JUL											
06...	1748	--	1000	--	--	--	--	--	7.5	9.0	11.8
06...	1750	38.0	1000	266	5.8	25.7	--	4.4	8.7	16.2	16.4
06...	1752	35.0	1000	266	5.9	25.7	--	4.4	8.0	10.9	13.2
06...	1754	28.0	1000	266	5.9	25.7	--	4.3	9.0	12.8	15.1
06...	1756	21.0	1000	266	5.9	25.8	--	4.4	8.9	10.8	14.0
06...	1758	14.0	1000	266	5.8	25.8	--	4.6	8.3	8.6	12.3
06...	1800	7.0	1000	264	5.9	25.9	--	4.7	8.3	6.3	11.3
06...	1802	2.0	1000	268	5.9	25.9	32.0	4.8	8.5	5.4	11.0
06...	1805	--	2400	--	--	--	--	--	7.8	3.4	9.3
08...	1904	--	300	--	--	--	--	--	14.7	8.5	18.6
08...	1905	40.0	300	278	6.7	27.2	24.0	5.5	--	--	--
08...	1907	19.0	300	271	6.7	27.4	--	5.6	--	--	--
08...	1909	7.0	300	266	6.7	27.6	--	5.7	--	--	--
08...	1911	2.0	300	258	6.7	28.2	--	7.1	--	--	--
08...	1912	--	1000	--	--	--	--	--	17.1	7.1	20.3
08...	1913	37.0	1000	279	6.7	27.1	30.0	5.4	10.7	10.1	15.5
08...	1914	30.0	1000	279	6.7	27.1	--	5.5	11.0	12.0	16.7
08...	1916	23.0	1000	285	6.8	27.5	--	6.2	19.6	7.7	23.1
08...	1917	17.0	1000	282	6.8	27.8	--	6.5	21.4	4.6	23.3
08...	1918	8.0	1000	277	6.8	28.0	--	6.8	25.1	5.2	27.3
08...	1919	2.0	1000	266	6.8	28.1	--	6.8	26.5	3.5	27.8
08...	1920	--	50000	--	--	--	--	--	17.0	7.9	20.6
08...	1930	2.0	2400	259	6.7	27.8	24.0	5.2	--	--	--
08...	1931	--	2400	--	--	--	--	--	7.4	4.2	9.3
10...	1800	2.0	1000	287	6.3	29.4	39.0	7.8	36.2	6.4	38.8
10...	1802	7.0	1000	286	6.2	29.1	--	6.8	26.4	7.0	29.4
10...	1804	14.0	1000	284	6.1	28.8	--	6.2	21.7	4.9	23.8

APPENDIX A-2

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA- WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLIA FLUORO- METRIC METHOD CORR. (JG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL											
10...	1806	21.0	1000	284	6.0	28.5	--	5.3	12.1	6.4	15.1
10...	1808	28.0	1000	295	6.0	28.5	--	5.2	10.6	7.9	14.3
10...	1810	35.0	1000	289	6.1	28.5	--	6.0	8.7	10.2	13.6
10...	1815	--	1000	--	--	--	--	--	18.0	7.8	21.5
10...	1820	--	2400	--	--	--	--	--	14.2	6.7	17.2
13...	1905	2.0	1000	301	6.0	29.8	34.0	6.9	22.5	6.3	25.2
13...	1907	7.0	1000	301	6.0	29.7	--	6.5	19.4	6.4	22.2
13...	1909	14.0	1000	305	5.9	29.5	--	5.3	9.5	7.8	13.1
13...	1911	21.0	1000	305	5.9	29.5	--	5.3	11.3	6.9	14.5
13...	1913	28.0	1000	305	5.9	29.5	--	5.3	11.0	6.3	13.9
13...	1915	35.0	1000	305	5.9	29.5	--	5.1	9.2	7.9	12.9
13...	1917	39.0	1000	306	5.9	29.5	--	5.1	9.5	8.2	13.3
13...	1920	--	1000	--	--	--	--	--	12.7	7.8	16.3
13...	1925	--	2400	--	--	--	--	--	13.7	7.2	17.0
15...	1646	37.0	1000	311	7.3	28.6	42.0	4.9	16.7	16.6	24.5
15...	1647	31.0	1000	310	7.3	28.7	--	5.0	18.3	7.3	21.6
15...	1649	26.0	1000	310	7.3	28.7	--	5.2	18.9	8.5	22.7
15...	1651	19.0	1000	307	7.3	28.9	--	5.5	19.4	6.1	22.0
15...	1653	13.0	1000	308	7.3	28.8	--	5.4	18.5	7.2	21.7
15...	1655	7.0	1000	307	7.3	29.0	--	5.7	19.9	4.8	21.9
15...	1657	2.0	1000	306	7.3	29.1	--	5.8	19.2	5.2	21.4
17...	1640	--	1000	--	--	--	--	--	21.6	6.4	24.4
17...	1645	36.0	1000	305	6.7	27.8	35.0	3.6	13.4	8.6	17.4
17...	1647	31.0	1000	306	6.7	27.8	--	3.6	13.8	9.1	18.0
17...	1649	26.0	1000	308	6.8	27.9	--	3.7	15.9	7.2	19.2
17...	1651	21.0	1000	308	6.8	27.9	--	3.7	15.3	8.1	19.0
17...	1653	14.0	1000	307	6.8	28.0	--	3.7	17.3	6.8	20.4
17...	1655	7.0	1000	309	6.8	28.4	--	4.5	24.7	5.2	26.9
17...	1657	2.0	1000	310	7.0	28.8	--	5.8	35.3	6.5	38.0
17...	1700	--	2400	--	--	--	--	--	11.4	3.7	13.0
20...	0625	--	50000	--	--	--	--	--	25.3	13.2	31.3
20...	0626	--	300	--	--	--	--	--	30.6	12.4	36.1
20...	0627	41.0	300	303	6.7	28.6	34.0	5.0	--	--	--
20...	0629	20.0	300	304	6.7	28.6	--	5.1	--	--	--
20...	0631	1.0	300	305	6.7	28.6	--	5.2	--	--	--
20...	0639	--	1000	--	--	--	--	--	29.8	15.1	36.7
20...	0640	39.0	1000	301	6.7	28.5	30.0	5.2	34.0	34.1	50.1
20...	0642	34.0	1000	301	6.7	28.6	--	5.2	28.5	20.4	38.0
20...	0643	28.0	1000	302	6.7	28.6	--	5.2	28.4	17.1	36.3

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL											
20...	0645	21.0	1000	302	6.7	28.6	--	5.3	27.8	13.3	33.9
20...	0647	14.0	1000	303	6.7	28.6	--	5.1	28.2	10.3	32.8
20...	0648	7.0	1000	305	6.7	28.6	--	5.1	27.6	9.5	31.8
20...	0649	1.0	1000	305	6.7	28.6	--	5.1	27.7	8.0	31.2
20...	0650	2.0	2400	302	6.7	28.2	23.0	4.9	--	--	--
20...	0652	--	2400	--	--	--	--	--	24.7	18.7	33.4
20...	1624	--	300	--	--	--	--	--	40.4	7.2	43.3
20...	1625	40.0	300	306	6.8	29.0	34.0	5.1	--	--	--
20...	1627	20.0	300	307	6.9	29.3	--	6.2	--	--	--
20...	1629	1.0	300	303	7.0	29.5	--	7.2	--	--	--
20...	1635	--	50000	--	--	--	--	--	41.5	--	--
20...	1640	--	1000	--	--	--	--	--	32.8	9.0	45.3
20...	1645	35.0	1000	310	6.8	29.0	32.0	--	31.7	10.7	37.5
20...	1647	28.0	1000	311	6.8	29.0	--	5.1	31.4	14.9	38.5
20...	1649	21.0	1000	310	6.8	29.1	--	5.2	30.0	15.7	38.6
20...	1651	14.0	1000	310	6.8	29.1	--	5.7	33.6	12.6	35.7
20...	1653	7.0	1000	310	6.9	29.3	--	6.4	39.0	10.9	38.4
20...	1655	1.0	1000	310	6.9	29.3	--	7.5	41.5	9.2	42.9
20...	1700	2.0	2400	302	7.0	29.6	--	--	41.6	9.5	45.5
20...	1702	--	2400	--	--	--	--	--	21.7	6.2	44.0
21...	0958	--	300	--	--	--	--	--	21.7	9.7	26.1
21...	1000	41.0	300	295	6.7	28.9	30.0	5.0	--	--	--
21...	1002	20.0	300	295	6.7	28.9	--	5.0	--	--	--
21...	1004	1.0	300	294	6.7	29.0	--	5.2	--	--	--
21...	1008	--	1000	--	--	--	--	--	23.3	8.2	26.9
21...	1010	39.0	1000	293	6.7	28.8	30.0	4.8	27.2	48.9	50.6
21...	1012	34.0	1000	293	6.7	28.9	--	4.8	22.5	16.7	30.3
21...	1014	28.0	1000	294	6.7	28.8	--	4.9	23.4	11.8	28.8
21...	1016	21.0	1000	294	6.7	28.8	--	4.9	23.5	8.6	27.4
21...	1017	14.0	1000	294	6.7	28.9	--	5.0	20.9	10.5	25.7
21...	1018	7.0	1000	293	6.7	28.9	--	5.0	22.3	6.6	25.2
21...	1019	1.0	1000	293	6.7	28.9	--	5.2	20.8	8.3	24.6
21...	1020	--	50000	--	--	--	--	--	29.4	9.8	33.8
21...	1030	2.0	2400	282	7.1	28.8	--	7.2	65.9	11.9	70.7
21...	1031	--	2400	--	--	--	--	--	54.8	9.4	58.6
21...	1618	--	300	--	--	--	--	--	--	--	--
21...	1620	37.0	300	306	6.7	29.3	22.0	5.5	--	--	--
21...	1622	20.0	300	305	6.8	29.4	--	6.4	--	--	--
21...	1624	1.0	300	305	7.1	29.7	--	7.9	--	--	--

APPENDIX A-2

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL	1630	--	1000	--	--	--	--	--	46.3	12.9	51.0
21...	1635	34.0	1000	311	6.7	29.1	-31.0	5.2	40.8	18.4	49.2
21...	1637	28.0	1000	311	6.7	29.1	--	5.2	39.1	14.3	45.4
21...	1639	21.0	1000	311	6.7	29.2	--	5.3	39.6	14.1	45.8
21...	1641	14.0	1000	311	6.7	29.2	--	5.6	45.0	8.8	48.6
21...	1643	7.0	1000	311	6.8	29.4	--	6.2	55.8	13.2	61.4
21...	1644	1.0	1000	312	7.0	29.5	--	6.8	51.9	8.6	55.3
21...	1650	--	50000	--	--	--	--	--	54.1	9.7	58.0
21...	1655	3.0	2400	303	6.9	29.6	--	7.4	--	--	--
21...	1656	--	2400	--	--	--	--	--	48.1	11.7	53.1
22...	0604	--	300	--	--	--	--	--	43.3	13.2	49.0
22...	0605	42.0	300	309	7.0	28.8	28.0	5.6	--	--	--
22...	0607	21.0	300	310	7.0	28.7	--	5.4	--	--	--
22...	0609	1.0	300	312	6.9	28.6	--	5.3	--	--	--
22...	0610	39.0	1000	308	6.9	28.6	28.0	5.6	44.5	13.3	50.3
22...	0611	34.0	1000	308	6.9	28.7	--	5.8	48.9	10.4	53.2
22...	0612	28.0	1000	308	6.9	28.7	--	5.8	44.2	12.6	49.6
22...	0613	21.0	1000	309	6.9	28.7	--	5.7	46.2	13.3	51.9
22...	0615	14.0	1000	312	6.9	28.8	--	5.2	39.3	13.3	47.0
22...	0617	7.0	1000	314	6.9	28.8	--	5.2	40.0	12.6	45.6
22...	0619	1.0	1000	314	6.9	28.8	--	5.2	42.5	14.7	49.0
22...	0620	--	1000	--	--	--	--	--	42.7	13.3	48.5
22...	0625	--	50000	--	--	--	--	5.6	--	--	--
22...	0635	2.0	2400	305	6.8	28.5	--	--	34.6	12.0	39.9
22...	0636	--	2400	--	--	--	--	--	47.0	10.1	51.2
27...	1807	2.0	1000	--	--	--	--	--	48.0	5.6	50.0
27...	1808	7.0	1000	--	--	--	--	--	47.9	8.4	51.3
27...	1809	13.0	1000	--	--	--	--	--	31.9	11.1	36.8
27...	1810	20.0	1000	--	--	--	--	--	32.7	11.5	37.8
27...	1811	26.0	1000	--	--	--	--	--	30.6	10.6	35.3
27...	1812	32.0	1000	--	--	--	--	--	31.5	9.7	35.8
27...	1813	35.0	1000	--	--	--	--	--	32.8	10.6	37.5
27...	1815	--	1000	--	--	--	--	--	53.6	10.0	57.7
27...	1820	--	2400	--	--	--	--	--	59.4	25.6	71.0
28...	1125	39.0	1000	333	7.4	27.6	--	5.9	62.9	13.2	68.4
28...	1127	33.0	1000	333	7.4	27.6	--	5.9	56.8	19.4	65.4
28...	1128	26.0	1000	333	7.4	27.6	--	6.0	59.5	16.0	66.4
28...	1129	19.0	1000	334	7.4	27.6	--	6.0	56.2	17.1	63.8
28...	1130	--	1000	--	--	--	--	--	--	--	--

384318077020300 - POTOMAC RIVER AT HAYTON POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- L (00003)	LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL												
28...	1131	13.0		1000	335	7.5	27.6	--	6.1	60.0	14.4	66.1
28...	1133	6.0		1000	335	7.5	27.6	--	6.1	59.4	13.2	64.9
28...	1135	1.6		1000	331	7.5	27.5	--	6.2	57.6	12.7	62.9
29...	1745	32.0		1000	312	7.0	27.5	22.0	6.0	56.1	17.8	63.9
29...	1747	26.0		1000	312	6.9	27.5	--	5.8	50.4	13.9	56.4
29...	1749	20.0		1000	311	6.9	27.4	--	5.9	47.2	12.9	52.8
29...	1751	13.0		1000	309	6.9	27.5	--	5.9	47.4	10.1	51.6
29...	1753	6.0		1000	309	7.0	27.5	--	6.0	47.3	12.1	52.5
29...	1755	2.0		1000	309	7.0	27.5	--	6.1	47.9	7.8	51.9
29...	1800	--		1000	--	--	--	--	--	55.9	15.0	62.3
29...	1805	3.0		2400	294	8.5	27.7	--	11.8	--	--	--
29...	1806	--		2400	--	--	--	--	--	130	5.3	130
31...	1910	--		1000	--	--	--	--	--	60.9	10.0	64.7
31...	1915	37.0		1000	319	6.9	26.8	20.0	6.7	73.8	31.9	88.2
31...	1917	32.0		1000	332	6.9	26.7	--	6.6	60.9	20.2	69.8
31...	1919	26.0		1000	319	6.9	26.7	--	6.6	61.7	14.9	68.1
31...	1921	20.0		1000	318	6.9	26.7	--	6.5	55.4	12.4	60.6
31...	1923	13.0		1000	318	7.0	26.8	--	6.5	57.4	7.9	60.4
31...	1925	9.0		1000	318	7.0	26.8	--	6.6	57.2	8.5	60.5
31...	1926	6.0		1000	316	7.4	27.0	--	8.5	86.7	10.7	90.6
31...	1927	2.0		1000	316	7.4	27.1	--	8.8	67.0	10.8	71.2
31...	1931	3.0		2400	301	8.8	28.4	16.0	16.0	--	--	--
31...	1932	--		2400	--	--	--	--	--	119	4.9	120
AUG												
04...	1520	2.0		2400	333	8.5	28.2	15.0	11.8	--	--	--
04...	1521	--		2400	--	--	--	--	--	26.3	19.2	35.3
04...	1533	--		1000	--	--	--	--	--	45.0	20.3	54.2
04...	1534	35.0		1000	--	--	--	--	--	33.2	25.4	45.0
04...	1535	32.0		1000	335	7.6	27.7	18.0	7.8	32.4	23.8	43.5
04...	1536	26.0		1000	336	7.7	27.7	--	8.0	29.0	19.1	37.8
04...	1537	20.0		1000	335	7.9	28.0	--	8.2	32.1	16.3	39.6
04...	1538	13.0		1000	330	8.1	28.2	--	9.0	45.0	17.5	52.8
04...	1539	6.0		1000	330	8.3	28.4	--	10.4	61.4	13.1	66.9
04...	1541	2.0		1000	329	8.4	28.4	--	10.8	69.5	14.0	75.3
06...	1420	39.0		300	329	7.3	27.7	--	6.4	--	--	--
06...	1422	20.0		300	328	7.3	27.7	--	6.2	--	--	--
06...	1424	1.0		300	328	7.3	27.7	--	6.4	--	--	--
06...	1425	--		300	--	--	--	--	--	53.0	15.0	59.5
06...	1430	--		50000	--	--	--	--	--	59.7	11.1	64.3
06...	1431	--		1000	--	--	--	--	--	53.6	13.8	59.5

APPENDIX A-2

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LING (FT)	SECTION (FT)	ATON, CROSS SECTION	SPE- CIFIC CON- DUCTANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)			
ALLG														
06...	1432	39.0	1000	329	7.3	27.6	19.0	6.5	63.3	16.3	70.3			
06...	1434	35.0	1000	329	7.3	27.6	--	6.5	62.6	15.7	69.3			
06...	1436	28.0	1000	328	7.3	27.6	--	6.4	68.4	15.6	75.0			
06...	1438	21.0	1000	327	7.2	27.7	--	6.1	54.5	14.0	60.5			
06...	1440	14.0	1000	326	7.2	27.7	--	6.0	51.3	12.5	56.6			
06...	1442	7.0	1000	327	7.2	27.7	--	6.1	52.0	12.0	57.1			
06...	1444	1.0	1000	326	7.2	27.7	--	6.2	53.0	12.9	58.5			
06...	1445	5.0	2400	330	7.4	27.5	--	6.9	--	--	--			
06...	1446	1.0	2400	330	7.5	27.5	--	6.9	--	--	--			
06...	1447	--	2400	--	--	--	--	--	69.6	14.4	75.6			
07...	1729	--	1000	--	--	--	--	--	52.5	17.0	60.0			
07...	1730	32.0	1000	345	7.1	26.8	22.0	5.4	50.2	19.6	59.0			
07...	1731	26.0	1000	345	7.2	26.9	--	6.1	55.8	17.4	63.4			
07...	1733	20.0	1000	343	7.3	27.1	--	6.6	62.3	13.5	67.9			
07...	1734	16.0	1000	342	7.8	27.5	--	7.6	57.4	15.8	64.2			
07...	1735	13.0	1000	353	8.0	27.7	--	8.9	63.2	14.4	69.2			
07...	1737	6.0	1000	352	8.0	27.9	--	9.3	67.8	12.8	73.0			
07...	1738	2.0	1000	351	8.3	28.5	--	10.7	80.8	6.4	82.8			
07...	1745	3.0	2400	357	8.5	27.9	18.0	11.5	--	--	--			
07...	1746	--	2400	--	--	--	--	--	99.0	12.8	103			
10...	1928	--	1000	--	--	--	--	--	87.8	11.5	92.1			
10...	1930	32.0	1000	355	7.3	28.0	19.0	7.2	62.8	13.5	68.4			
10...	1932	26.0	1000	355	7.4	28.0	--	7.4	60.5	17.3	68.0			
10...	1934	20.0	1000	353	7.5	28.1	--	7.9	60.0	18.6	68.1			
10...	1935	16.0	1000	350	8.1	28.6	--	10.8	--	--	--			
10...	1936	13.0	1000	349	8.3	28.6	--	11.3	81.4	14.6	87.3			
10...	1938	6.0	1000	349	8.4	28.8	--	12.4	93.9	7.8	96.3			
10...	1940	2.0	1000	349	8.5	28.8	--	13.0	96.8	11.9	101			
10...	1945	3.0	2400	361	8.3	28.3	--	10.3	--	--	--			
10...	1946	--	2400	--	--	--	--	--	80.4	12.3	85.2			
18...	1229	--	300	--	--	--	--	--	61.3	11.4	66.0			
18...	1230	38.0	300	360	7.5	26.8	24.0	6.3	--	--	--			
18...	1232	19.0	300	359	7.5	26.7	--	6.2	--	--	--			
18...	1234	6.0	300	360	7.6	26.9	--	6.7	--	--	--			
18...	1236	1.6	300	360	7.9	27.1	--	7.8	--	--	--			
18...	1240	--	50000	--	--	--	--	--	61.5	11.1	66.0			
18...	1248	--	1000	--	--	--	--	--	50.9	15.0	57.4			
18...	1250	39.0	1000	353	7.2	26.7	30.0	4.8	51.9	22.3	62.0			
18...	1254	32.0	1000	353	7.2	26.7	--	4.8	47.2	21.4	56.9			

APPENDIX A-2

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
AUG																					
18...	1255	26.0		1000		353		7.2		26.7		--		4.8		47.7		20.6		57.0	
18...	1256	19.0		1000		354		7.2		26.7		--		4.9		47.2		18.3		55.4	
18...	1258	13.0		1000		354		7.2		26.8		--		5.0		52.2		13.6		58.0	
18...	1259	7.0		1000		356		7.4		26.9		--		6.0		56.1		13.8		61.9	
18...	1301	5.0		1000		359		7.4		26.9		--		6.4		63.6		11.5		68.3	
18...	1302	2.0		1000		360		7.8		27.0		--		9.3		86.0		11.9		90.5	
18...	1305	3.0		2400		354		7.5		27.1		--		6.7		--		--		--	
18...	1306	--		2400		--		--		--		--		--		61.9		15.4		68.4	
24...	1714	--		2400		--		--		--		--		--		51.0		13.3		56.7	
24...	1720	--		300		--		--		--		--		--		44.8		12.8		50.3	
24...	1725	42.0		300		368		6.3		24.5		--		7.2		--		--		--	
24...	1727	35.0		300		367		6.4		24.5		--		6.4		--		--		--	
24...	1729	28.0		300		367		6.4		24.6		--		6.4		--		--		--	
24...	1731	21.0		300		368		6.4		24.6		--		6.8		--		--		--	
24...	1733	14.0		300		368		6.5		24.7		--		7.9		--		--		--	
24...	1734	7.0		300		369		6.9		25.0		--		8.6		--		--		--	
24...	1735	3.0		300		367		7.4		25.2		--		9.7		--		--		--	
24...	1736	1.0		300		367		7.4		25.3		--		9.8		--		--		--	
24...	1746	--		1000		--		--		--		--		--		40.3		15.2		47.1	
24...	1747	38.0		1000		371		6.3		24.3		18.0		5.6		39.5		27.2		52.1	
24...	1748	30.0		1000		370		6.3		24.4		--		6.0		35.6		17.6		43.7	
24...	1749	20.0		1000		368		6.3		24.5		--		6.4		36.9		13.8		43.0	
24...	1750	10.0		1000		369		6.6		24.9		--		7.6		49.4		10.4		53.7	
24...	1752	4.0		1000		370		6.9		24.9		--		8.2		56.4		10.1		60.5	
24...	1754	1.0		1000		370		7.0		24.9		--		8.6		66.4		6.0		68.4	
24...	1815	5.0		2400		374		6.6		24.7		--		7.3		--		--		--	
24...	1816	3.0		2400		374		6.6		24.6		--		7.3		--		--		--	
24...	1817	1.0		2400		374		6.6		24.6		--		7.4		--		--		--	
25...	0638	--		300		--		--		--		--		--		46.2		12.1		51.4	
25...	0640	40.0		300		376		7.0		24.1		24.0		6.7		--		--		--	
25...	0642	19.0		300		374		7.0		24.1		--		6.6		--		--		--	
25...	0644	1.0		300		373		7.0		24.1		--		6.5		--		--		--	
25...	0648	--		1000		--		--		--		--		--		41.1		16.2		48.4	
25...	0650	36.0		1000		372		7.0		24.2		23.0		6.4		44.4		23.4		55.1	
25...	0652	30.0		1000		373		7.0		24.2		--		6.4		42.7		21.7		52.6	
25...	0654	20.0		1000		372		7.0		24.1		--		6.4		39.8		15.6		46.8	
25...	0656	10.0		1000		372		7.0		24.1		--		6.3		41.2		14.1		47.5	
25...	0658	4.0		1000		372		7.0		24.1		--		6.3		42.7		11.3		47.6	
25...	0700	1.0		1000		371		7.0		24.1		--		6.3		40.8		14.7		47.4	

APPENDIX A-2

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00095)	(00010)	(00077)	(00300)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG											
25...	0710	1.0	2400	376	7.0	24.0	16.0	6.6	--	--	--
25...	0711	--	2400	--	--	--	--	--	43.9	19.0	52.5
25...	0715	--	50000	--	--	--	--	--	46.2	12.1	51.4
25...	2308	--	300	--	--	--	--	--	65.2	13.1	70.5
25...	2310	42.0	300	402	7.3	24.2	--	8.0	--	--	--
25...	2311	20.0	300	406	7.5	24.2	--	8.2	--	--	--
25...	2312	10.0	300	406	7.5	24.2	--	8.3	--	--	--
25...	2313	4.0	300	406	7.5	24.2	--	8.3	--	--	--
25...	2314	1.0	300	406	7.5	24.2	--	8.4	--	--	--
25...	2320	--	50000	--	--	--	--	--	71.6	14.1	77.4
25...	2321	--	1000	--	--	--	--	--	70.2	13.9	75.9
25...	2322	34.0	1000	406	7.4	24.3	--	8.1	71.4	13.9	77.1
25...	2323	30.0	1000	406	7.4	24.3	--	8.1	69.0	16.5	75.0
25...	2324	20.0	1000	407	7.5	24.3	--	8.2	68.9	13.6	74.5
25...	2326	10.0	1000	407	7.5	24.3	--	8.3	68.7	20.3	77.6
25...	2328	4.0	1000	408	7.5	24.3	--	8.4	70.0	14.5	76.0
25...	2329	1.0	1000	409	7.5	24.0	--	8.4	71.4	11.9	76.2
25...	2330	--	2400	--	--	--	--	8.9	76.7	10.6	80.8
25...	2332	3.0	2400	403	7.8	24.1	--	9.0	--	--	--
25...	2334	1.0	2400	403	7.9	24.1	--	--	29.2	15.7	36.4
26...	0639	--	300	--	--	--	--	--	--	--	--
26...	0640	37.0	300	363	6.7	23.9	25.0	5.7	--	--	--
26...	0642	19.0	300	361	6.7	23.9	--	5.6	--	--	--
26...	0644	1.0	300	361	6.7	23.9	--	5.6	--	--	--
26...	0648	--	1000	--	--	--	--	--	34.1	16.2	41.4
26...	0650	35.0	1000	371	6.8	23.8	29.0	6.0	45.6	21.7	55.5
26...	0652	30.0	1000	367	6.8	23.9	--	5.9	36.8	16.0	44.0
26...	0654	20.0	1000	361	6.7	24.0	--	5.6	32.1	15.0	38.9
26...	0656	10.0	1000	361	6.7	23.9	--	5.5	30.0	15.3	37.0
26...	0658	4.0	1000	360	6.6	23.9	--	5.5	30.5	13.6	36.7
26...	0700	1.0	1000	360	6.7	23.9	--	5.5	30.5	14.1	37.0
26...	0710	1.0	2400	367	6.7	23.8	18.0	5.8	--	--	--
26...	0711	--	2400	--	--	--	--	--	38.9	15.6	45.8
26...	0715	--	50000	--	--	--	--	--	33.1	15.4	40.1
26...	2044	--	300	--	--	--	--	--	52.1	9.7	56.0
26...	2045	43.0	300	369	6.4	24.6	--	5.7	--	--	--
26...	2046	25.0	300	369	6.4	24.6	--	7.1	--	--	--
26...	2048	10.0	300	369	6.4	24.6	--	7.0	--	--	--
26...	2049	4.0	300	368	6.3	24.6	--	7.0	--	--	--

APPENDIX A-2

384318077020300 - POTOMAC RIVER AT HATTON POINT --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)
(00003)	(00009)	(00095)	(00010)	(00077)	(00300)	(00400)	(00010)	(00300)	(32209)	(32213)	(32217)
AUG											
26...	2050	1.0	300	368	6.3	24.5	--	6.9	--	--	--
26...	2051	35.0	1000	369	6.2	24.4	--	6.0	43.3	43.8	63.9
26...	2052	30.0	1000	369	6.2	24.5	--	6.1	44.5	20.1	53.6
26...	2053	20.0	1000	367	6.2	24.5	--	6.4	43.4	13.3	49.2
26...	2055	10.0	1000	367	6.2	24.6	--	6.5	41.7	13.9	47.8
26...	2057	4.0	1000	367	6.2	24.6	--	6.6	40.8	14.7	47.3
26...	2058	1.0	1000	369	6.3	24.5	--	6.9	41.9	14.0	48.1
26...	2059	--	1000	--	--	--	--	--	43.0	19.8	52.5
26...	2100	--	5000	--	--	--	--	--	51.1	10.4	55.4
26...	2110	5.0	2400	382	6.7	24.5	--	8.0	--	--	--
26...	2111	1.0	2400	383	6.7	24.5	--	7.7	--	--	--
26...	2112	--	2400	--	--	--	--	--	63.9	8.9	67.2
SEP											
10...	0826	38.0	1000	422	6.8	23.7	26.0	3.9	31.3	23.7	42.4
10...	0827	32.0	1000	422	6.8	23.8	--	3.9	32.1	23.7	43.2
10...	0828	26.0	1000	423	6.8	23.8	--	3.9	30.3	22.7	40.9
10...	0829	19.0	1000	423	6.8	23.8	--	3.9	31.1	23.2	41.9
10...	0830	13.0	1000	423	6.8	23.8	--	3.9	31.5	24.1	42.8
10...	0831	6.0	1000	423	6.8	23.8	--	3.9	33.1	20.9	42.8
10...	0832	1.6	1000	423	6.8	23.8	--	4.1	32.2	16.2	39.6
16...	1014	--	2400	--	--	--	--	--	34.8	22.0	45.0
16...	1015	3.0	2400	434	6.3	24.1	--	5.8	--	--	--
16...	1022	38.0	1000	432	6.2	24.6	22.0	5.3	27.4	22.2	37.7
16...	1024	30.0	1000	432	6.2	24.6	--	5.2	26.2	19.6	35.4
16...	1026	20.0	1000	432	6.2	24.7	--	5.2	25.8	19.1	34.7
16...	1028	9.0	1000	431	6.1	24.7	--	5.1	23.7	19.2	32.7
16...	1030	3.0	1000	432	6.1	24.7	--	5.1	25.4	17.2	33.4
22...	0910	35.0	1000	469	7.3	21.3	23.0	6.4	23.6	25.8	35.8
22...	0911	29.0	1000	469	7.3	21.3	--	6.4	27.6	22.3	38.0
22...	0912	19.0	1000	469	7.3	21.4	--	6.4	22.2	18.2	30.7
22...	0913	13.0	1000	469	7.3	21.4	--	6.4	22.8	17.2	30.9
22...	0915	6.0	1000	469	7.3	21.4	--	6.5	23.6	14.3	30.2
22...	0917	1.6	1000	470	7.3	21.4	--	6.5	25.6	12.4	31.2

APPENDIX A-2

384136077054500 - POTOMAC RIVER AT MARSHALL HALL

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECKI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
OCT	1600	--	690	--	--	--	--	--	23.2	18.0	31.6
02...	1605	19.0	690	364	6.4	22.4	24.0	4.5	--	--	--
02...	1606	10.0	690	366	6.4	22.4	--	5.1	--	--	--
02...	1608	5.0	690	366	6.5	22.5	--	5.5	--	--	--
02...	1609	1.0	690	358	6.5	22.9	--	6.4	--	--	--
02...	1615	23.0	2490	360	6.4	22.5	23.0	4.6	15.0	14.4	21.8
02...	1616	12.0	2490	361	6.4	22.5	--	4.9	16.4	14.5	23.2
02...	1618	6.0	2490	364	6.5	22.7	--	6.0	30.0	15.2	36.9
02...	1619	1.0	2490	364	6.6	22.7	--	6.4	36.4	13.8	42.5
02...	1620	--	50000	--	--	--	--	--	23.3	14.6	30.0
02...	1630	13.0	3500	357	6.4	22.6	26.0	4.6	--	--	--
02...	1632	1.0	3500	356	6.5	22.8	--	5.3	17.8	9.7	22.2
02...	1634	--	3500	--	--	--	--	--	11.8	10.4	16.7
03...	0935	--	3500	--	--	--	--	--	--	--	--
03...	0940	11.0	3500	361	6.0	20.6	25.0	4.8	--	--	--
03...	0942	1.0	3500	358	6.1	20.7	--	4.9	--	--	--
03...	0945	21.0	2490	368	6.1	21.1	28.0	4.7	10.8	15.8	18.3
03...	0947	12.0	2490	368	6.2	21.1	--	4.9	10.9	12.0	16.6
03...	0949	6.0	2490	368	6.1	21.0	--	4.8	10.2	11.9	15.8
03...	0951	1.0	2490	368	6.2	21.7	--	4.9	11.0	11.7	16.6
03...	1010	14.0	690	358	6.0	20.9	28.0	4.7	--	--	--
03...	1012	1.0	690	359	6.0	20.9	--	4.7	--	--	--
03...	1013	--	690	--	--	--	--	--	12.9	11.6	18.3
03...	1015	--	50000	--	--	--	--	--	12.9	11.0	18.1
21...	1040	16.0	690	415	6.7	17.1	30.0	7.1	--	--	--
21...	1042	1.0	690	416	6.7	17.1	--	7.1	--	--	--
21...	1045	--	690	--	--	--	--	--	17.1	12.8	23.0
21...	1050	23.0	2490	419	6.7	17.3	24.0	7.0	16.9	17.0	24.9
21...	1052	13.0	2490	420	6.7	17.3	--	7.0	17.4	10.4	22.2
21...	1054	6.0	2490	421	6.7	17.3	--	7.0	16.9	10.2	21.6
21...	1056	1.0	2490	422	6.8	17.3	--	7.1	15.0	10.6	19.9
21...	1056	--	50000	--	--	--	--	--	17.4	10.6	22.4
21...	1100	--	3500	417	6.8	16.8	30.0	7.5	--	--	--
21...	1102	7.0	3500	419	6.8	16.9	--	7.5	--	--	--
21...	1104	1.0	3500	--	--	--	--	--	17.1	7.9	20.7
21...	1110	--	3500	--	--	--	--	--	--	--	--
NOV	1210	--	3500	--	--	--	--	--	9.5	12.8	15.5
18...	1215	17.0	3500	495	7.7	8.7	28.0	9.8	--	--	--
18...	1217	2.0	3500	495	7.7	8.7	--	9.8	--	--	--
18...	1220	23.0	2490	493	7.7	8.8	28.0	9.8	8.8	9.6	13.4

APPENDIX A-2

 384136077054500 - POTOMAC RIVER AT MARSHALL HALL --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
NOV	1222	12.0	2490	493	7.7	8.8	--	9.7	9.1	9.3	13.5
	1224	2.0	2490	494	7.7	8.7	--	9.8	8.6	9.4	13.0
	1230	--	50000	--	--	--	--	--	9.1	10.1	13.9
	1231	15.0	690	516	7.7	8.6	28.0	10.2	--	--	--
	1233	2.0	690	518	7.7	8.6	--	10.0	--	--	--
	1235	--	690	--	--	--	--	--	8.1	11.0	13.4
DEC	1255	--	690	--	--	--	--	--	4.0	8.2	8.0
	1300	11.0	690	352	7.8	5.2	23.0	10.7	--	--	--
	1302	1.0	690	351	7.7	5.0	--	10.8	--	--	--
	1310	23.0	2490	370	7.7	5.4	18.0	10.7	12.3	27.0	25.2
	1312	19.0	2490	371	7.7	5.4	--	10.8	9.8	22.5	20.5
	1314	12.0	2490	373	7.7	5.4	--	10.8	11.0	15.2	18.2
	1316	6.0	2490	375	7.7	5.4	--	10.8	10.1	12.7	16.1
	1318	1.0	2490	376	7.7	5.4	--	10.8	9.2	9.9	13.9
	1319	--	2490	--	--	--	--	--	10.0	16.0	17.6
	1320	--	50000	--	--	--	--	--	8.4	13.3	14.7
	1322	10.0	3500	368	7.7	5.3	18.0	10.8	--	--	--
	1324	1.0	3500	369	7.7	5.4	--	10.8	--	--	--
	1330	--	3500	--	--	--	--	--	7.2	15.0	14.3
FEB	1510	20.0	2300	910	8.0	2.1	--	12.5	--	--	--
	1512	10.0	2300	620	8.0	2.9	--	11.8	--	--	--
	1514	3.0	2300	576	8.1	3.0	--	11.8	--	--	--
	1105	23.0	2300	644	8.1	2.3	36.0	13.8	12.0	10.1	16.7
	1107	18.0	2300	643	8.1	2.2	--	12.4	11.7	6.6	14.8
	1109	12.0	2300	644	8.1	2.2	--	12.6	10.4	7.0	13.7
	1111	2.0	2300	640	8.1	2.2	--	12.5	10.1	5.5	12.6
	1115	--	2300	--	--	--	--	--	11.5	9.5	15.9
	0840	--	2300	--	--	--	--	--	4.4	6.4	7.5
	0845	23.0	2300	198	7.6	7.1	16.0	11.4	6.4	10.6	11.5
MAR	0847	12.0	2300	198	7.6	7.2	--	11.3	5.4	8.2	9.3
	0849	2.0	2300	198	7.6	7.2	--	11.3	2.9	4.7	5.1
	0800	3.0	2300	344	7.6	5.8	--	10.0	3.2	4.3	5.2
	1200	3.0	2300	290	7.6	5.7	--	10.3	8.3	5.8	11.0
	1605	--	2300	--	--	--	--	--	7.5	9.6	12.0
	0910	21.0	2300	278	7.4	14.0	11.0	9.1	63.6	112	117
	0912	12.0	2300	278	7.4	14.0	--	9.2	46.3	34.9	62.6

--Cont.

384136077054600 - POTOMAC RIVER AT MARSHALL HALL

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
APR 15...	0914	2.0	2300	278	7.5	14.0	--	9.3	41.7	28.5	54.9
15...	0915	--	2300	--	--	--	--	--	44.9	57.0	71.9
29...	1135	--	50000	--	--	--	--	--	11.4	14.2	16.3
MAY 19...	0940	26.0	2300	250	7.1	18.5	36.0	6.4	12.0	10.1	16.8
19...	0942	14.0	2300	260	7.1	18.5	--	6.3	13.2	8.9	17.3
19...	0943	10.0	2300	261	7.1	18.5	--	6.3	10.1	9.6	14.6
19...	0945	2.0	2300	251	7.1	18.5	--	6.2	10.4	8.6	14.4
JUN 24...	1140	--	2300	--	--	--	--	--	11.1	8.4	15.0
30...	1142	20.0	2300	240	6.5	26.7	--	5.3	16.6	21.8	26.9
30...	1144	15.0	2300	240	6.5	26.6	--	5.3	13.1	10.4	18.0
30...	1146	7.0	2300	241	6.5	26.7	--	5.3	14.8	8.1	18.5
30...	1148	2.0	2300	241	6.5	27.0	--	5.5	14.8	5.0	17.0
JUL 1820	1820	--	3500	--	--	--	--	--	14.2	7.0	17.4
08...	1825	15.0	3500	254	6.6	27.3	24.0	5.2	--	--	--
08...	1827	7.0	3500	254	6.6	27.4	--	5.5	--	--	--
08...	1829	2.0	3500	254	6.7	28.1	--	6.4	--	--	--
08...	1830	--	50000	--	--	--	--	--	14.4	8.4	18.3
08...	1831	22.0	2490	255	6.6	27.0	26.0	5.0	15.4	19.6	24.7
08...	1832	18.0	2490	255	6.6	27.0	--	5.0	15.0	15.2	22.2
08...	1834	12.0	2490	255	6.6	27.1	--	5.1	13.0	10.1	17.7
08...	1836	7.0	2490	254	6.5	27.1	--	5.2	14.1	6.6	17.1
08...	1838	2.0	2490	254	6.7	27.5	--	6.1	14.7	7.7	18.2
08...	1840	--	2490	--	--	--	--	--	14.0	12.0	20.0
08...	1842	10.0	690	256	6.6	26.9	32.0	4.5	--	--	--
08...	1844	5.0	690	256	6.5	26.9	--	4.4	--	--	--
08...	1846	4.0	690	257	6.6	27.3	--	5.0	--	--	--
08...	1848	3.0	690	256	6.7	28.0	--	6.1	--	--	--
08...	1850	2.0	690	256	6.7	28.1	--	6.1	--	--	--
08...	1855	--	690	--	--	--	--	--	10.5	6.8	13.7
15...	0945	3.0	2300	295	7.2	29.3	--	5.7	14.5	6.1	17.3
20...	0720	--	690	--	--	--	--	--	25.2	19.6	34.3
20...	0725	--	50000	--	--	--	--	--	24.3	16.6	32.0
20...	0727	11.0	690	249	6.5	28.2	20.0	5.2	--	--	--
20...	0729	6.0	690	249	6.5	28.2	--	5.1	--	--	--
20...	0731	1.0	690	248	6.5	28.2	--	5.3	--	--	--
20...	0735	24.0	2490	275	6.5	28.5	--	5.0	28.3	31.8	43.3
20...	0737	18.0	2490	276	6.5	28.5	--	5.0	24.7	18.9	33.5

384136077054600 - POTOMAC RIVER AT MARSHALL HALL --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL											
20...	0739	12.0	2490	276	6.5	28.5	--	5.1	24.0	15.6	31.2
20...	0741	7.0	2490	276	6.5	28.5	--	5.1	23.6	14.5	30.3
20...	0742	1.0	2490	277	6.5	28.5	--	5.1	22.8	11.2	27.9
20...	0745	--	2490	--	--	--	--	--	23.3	15.6	30.6
20...	0750	13.0	3500	276	6.6	28.4	--	5.1	--	--	--
20...	0752	6.0	3500	278	6.6	28.4	--	5.1	--	--	--
20...	0754	1.0	3500	278	6.6	28.4	--	5.2	--	--	--
20...	0800	--	3500	--	--	--	--	--	25.5	15.1	32.4
20...	1735	13.0	690	291	6.6	28.8	32.0	4.8	--	--	--
20...	1737	1.0	690	284	6.7	29.1	--	5.8	--	--	--
20...	1745	--	50000	--	--	--	--	--	28.8	7.0	31.8
20...	1747	22.0	2490	296	6.8	29.1	--	6.0	--	--	--
20...	1749	18.0	2490	294	6.8	29.2	--	6.2	31.3	7.6	34.6
20...	1751	12.0	2490	286	6.8	29.3	--	6.4	26.9	4.5	28.7
20...	1753	7.0	2490	286	6.7	29.3	--	6.2	28.9	4.7	30.8
20...	1754	5.0	2490	290	6.8	29.2	--	6.3	--	--	--
20...	1755	1.0	2490	285	6.8	29.3	--	6.4	31.8	5.3	33.9
20...	1756	--	2490	--	--	--	--	--	32.3	5.6	34.5
20...	1757	15.0	3500	288	6.8	29.3	30.0	6.5	--	--	--
20...	1759	10.0	3500	291	6.8	29.2	--	6.2	--	--	--
20...	1801	8.0	3500	278	7.4	29.6	--	9.0	--	--	--
20...	1803	5.0	3500	278	7.2	29.5	--	8.6	--	--	--
20...	1805	1.0	3500	280	7.1	29.5	--	8.5	--	--	--
20...	1810	--	3500	--	--	--	--	--	32.2	6.0	34.6
21...	0925	--	690	--	--	--	--	--	25.6	13.9	31.9
21...	0930	16.0	690	244	6.6	28.5	19.0	5.4	--	--	--
21...	0931	1.0	690	238	6.6	28.6	--	5.7	--	--	--
21...	0933	--	2490	--	--	--	--	--	24.2	14.2	30.7
21...	0934	23.0	2490	265	6.6	28.7	20.0	--	24.6	33.8	40.6
21...	0935	18.0	2490	266	6.6	28.7	--	5.1	24.8	13.8	31.2
21...	0937	12.0	2490	266	6.6	28.7	--	5.2	23.1	12.9	29.1
21...	0938	6.0	2490	266	6.6	28.7	--	5.2	23.3	10.9	28.2
21...	0939	1.0	2490	266	6.6	28.8	--	5.3	23.1	9.7	27.5
21...	0940	--	50000	--	--	--	--	--	24.8	14.9	31.6
21...	0945	14.0	3500	277	6.6	28.8	24.0	5.0	--	--	--
21...	0946	1.0	3500	277	6.6	28.8	--	5.0	--	--	--
21...	0950	--	3500	--	--	--	--	--	21.0	13.3	27.2
21...	1725	--	690	--	--	--	--	--	26.6	7.8	30.0
21...	1730	17.0	690	288	6.4	29.2	32.0	4.9	--	--	--

384136077054600 - POTOMAC RIVER AT MARSHALL HALL --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL											
21...	1731	9.0	690	287	6.5	29.2	--	5.3	--	--	--
21...	1732	1.0	690	282	6.6	29.4	--	6.1	--	--	--
21...	1739	--	2490	--	--	--	--	--	34.1	13.7	40.3
21...	1740	23.0	2490	295	6.5	29.2	32.0	5.3	35.0	23.7	46.0
21...	1741	18.0	2490	296	6.6	29.2	--	5.4	39.3	9.5	43.4
21...	1742	12.0	2490	296	6.6	29.2	--	5.7	36.4	10.4	40.9
21...	1743	7.0	2490	297	6.6	29.3	--	5.9	40.2	9.2	44.1
21...	1744	1.0	2490	297	6.7	29.4	--	6.3	39.3	8.6	42.3
21...	1745	--	50000	--	--	--	--	--	30.0	9.2	34.0
21...	1750	16.0	3500	293	6.5	29.3	29.0	5.2	--	--	--
21...	1752	12.0	3500	295	6.6	29.3	--	5.4	--	--	--
21...	1753	10.0	3500	294	6.6	29.3	--	5.8	--	--	--
21...	1755	8.0	3500	289	6.6	29.5	--	6.2	--	--	--
21...	1757	1.0	3500	293	6.7	29.5	--	6.4	--	--	--
21...	1800	--	3500	--	--	--	--	--	31.7	8.7	35.5
22...	0655	--	690	--	--	--	--	--	21.7	8.5	25.5
22...	0700	9.0	690	278	6.7	27.8	38.0	5.4	--	--	--
22...	0701	5.0	690	278	6.7	28.0	--	5.5	--	--	--
22...	0702	1.0	690	288	6.7	28.4	--	5.5	--	--	--
22...	0704	--	2490	--	--	--	--	--	29.0	11.3	34.1
22...	0705	22.0	2490	296	6.7	28.9	25.0	5.1	26.2	14.3	32.8
22...	0707	18.0	2490	296	6.7	28.8	--	5.1	26.7	14.3	33.3
22...	0709	12.0	2490	296	6.7	28.8	--	5.2	28.3	10.6	33.1
22...	0711	7.0	2490	296	6.7	28.8	--	5.2	30.0	11.2	35.0
22...	0713	1.0	2490	296	6.7	28.8	--	5.2	27.0	9.5	31.2
22...	0715	--	50000	--	--	--	--	--	25.7	9.2	29.8
22...	0720	19.0	3500	289	6.6	28.6	30.0	4.8	--	--	--
22...	0721	10.0	3500	293	6.7	28.7	--	5.1	--	--	--
22...	0722	1.0	3500	296	6.7	28.7	--	5.2	--	--	--
22...	0725	--	3500	--	--	--	--	--	24.0	11.0	29.0
28...	1100	--	2300	--	--	--	--	--	33.2	17.8	41.4
28...	1102	20.0	2300	307	7.1	27.6	26.0	5.2	31.6	24.3	42.9
28...	1104	13.0	2300	307	7.1	27.6	--	5.2	35.0	20.5	44.4
28...	1106	6.0	2300	307	7.1	27.6	--	5.2	31.6	15.3	38.6
28...	1108	1.6	2300	307	7.1	27.6	--	5.3	33.6	10.3	38.1
AUG											
06...	1505	13.0	690	274	6.5	27.2	24.0	4.3	--	--	--
06...	1507	1.0	690	277	6.5	27.2	--	4.3	--	--	--
06...	1515	--	50000	--	--	--	--	--	31.0	14.0	37.5
06...	1517	21.0	2490	286	6.5	27.6	24.0	4.2	25.5	21.9	35.8

384136077054600 - POTOMAC RIVER AT MARSHALL HALL

--Cont.

WATER QUALITY DATA - WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A METRIC METHOD UNCORR. (UG/L) (32217)
AUG											
06...	1519	16.0	2430	286	6.5	27.5	--	4.2	26.1	17.3	34.1
06...	1520	10.0	2430	287	6.5	27.5	--	4.2	27.5	13.7	33.8
06...	1522	5.0	2430	290	6.5	24.5	--	4.4	27.7	12.6	33.4
06...	1523	1.0	2430	291	6.6	27.5	--	4.4	28.3	12.3	33.9
06...	1524	--	2430	--	--	--	--	--	26.0	15.2	33.0
06...	1525	14.0	3500	308	6.8	27.4	15.0	5.4	--	--	--
06...	1527	7.0	3500	309	6.8	27.4	--	5.5	--	--	--
06...	1529	1.0	3500	309	6.8	27.3	--	5.5	--	--	--
06...	1530	--	3500	--	--	--	--	--	44.8	13.2	50.5
18...	1105	--	3500	--	--	--	--	--	57.6	15.0	64.1
18...	1110	10.0	3500	336	7.3	26.6	23.0	6.1	--	--	--
18...	1111	1.6	3500	335	7.3	27.0	--	6.4	--	--	--
18...	1140	13.0	630	311	7.0	26.4	24.0	5.5	--	--	--
18...	1141	7.0	630	312	7.0	26.5	--	5.5	--	--	--
18...	1142	5.0	630	316	7.0	26.5	--	5.8	--	--	--
18...	1143	1.6	630	332	7.4	26.8	--	7.5	--	--	--
18...	1144	--	630	--	--	--	--	--	53.4	14.0	59.4
18...	1145	--	2430	--	--	--	--	--	64.0	23.3	74.4
18...	1150	20.0	2430	341	7.2	26.5	--	6.0	--	--	--
18...	1152	13.0	2430	341	7.3	26.6	24.0	6.2	65.3	17.1	72.7
18...	1154	7.0	2430	341	7.3	26.5	--	6.2	59.6	20.8	68.8
18...	1155	5.0	2430	338	7.5	26.7	--	7.4	72.2	13.5	77.8
18...	1157	1.6	2430	338	7.8	27.0	--	8.2	82.1	11.4	86.4
18...	1200	--	50000	--	--	--	--	--	58.9	16.9	66.3
18...	1835	--	690	--	--	--	--	--	27.4	17.2	35.4
24...	1840	16.0	690	355	5.8	24.5	--	5.5	--	--	--
24...	1842	10.0	690	355	5.8	24.5	--	5.4	--	--	--
24...	1844	4.0	690	353	5.8	24.6	--	6.1	--	--	--
24...	1846	1.0	690	354	5.8	24.5	--	5.5	--	--	--
24...	1849	--	2430	--	--	--	--	--	35.6	17.7	43.7
24...	1850	24.0	2430	357	5.9	24.4	20.0	5.5	31.8	29.9	45.9
24...	1852	10.0	2430	350	5.9	24.6	--	6.0	37.3	10.8	42.0
24...	1854	4.0	2430	369	6.1	24.8	--	7.3	37.3	10.8	42.0
24...	1856	1.0	2430	369	6.1	24.9	--	7.4	40.3	12.6	45.8
24...	1900	--	50000	--	--	--	--	--	35.6	17.3	43.5
24...	1902	17.0	3500	356	6.3	25.0	19.0	7.8	--	--	--
24...	1904	10.0	3500	356	6.4	25.0	--	7.9	--	--	--
24...	1906	4.0	3500	356	6.4	25.0	--	8.0	--	--	--
24...	1908	1.0	3500	356	6.5	25.0	--	8.1	--	--	--

384136077054600 - POTOMAC RIVER AT MARSHALL HALL --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A METRIC METHOD CORR. (JG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)		
AUG 24...	1910	--	3500	--	--	--	51.2	11.4	56.0		
25...	0725	--	690	--	--	--	27.3	18.4	35.8		
25...	0730	13.0	690	356	6.7	24.1	--	--	--		
25...	0732	7.0	690	356	6.7	24.1	26.0	--	--		
25...	0734	1.0	690	356	6.7	24.1	--	--	--		
25...	0740	22.0	2490	358	6.7	24.1	24.0	--	--		
25...	0742	10.0	2490	357	6.7	24.1	--	--	46.0		
25...	0744	4.0	2490	357	6.7	24.1	--	--	39.4		
25...	0746	1.0	2490	356	6.7	24.1	--	--	34.0		
25...	0748	--	2490	--	--	--	--	--	35.1		
25...	0750	--	5000	--	--	--	29.8	20.9	39.5		
25...	0751	13.0	3500	358	6.7	24.1	30.0	20.7	39.6		
25...	0752	3.0	3500	357	6.7	24.1	--	--	--		
25...	0754	1.0	3500	357	6.7	24.0	--	--	--		
25...	0800	--	3500	--	--	--	29.8	20.0	39.0		
25...	2125	--	690	--	--	--	34.5	18.5	42.9		
25...	2130	17.0	690	359	6.7	24.2	--	--	--		
25...	2131	10.0	690	360	6.8	24.3	--	--	--		
25...	2133	4.0	690	361	6.8	24.3	--	--	--		
25...	2134	1.0	690	360	6.8	24.3	--	--	--		
25...	2135	23.0	2490	365	6.9	24.3	--	--	47.9		
25...	2137	10.0	2490	365	6.9	24.3	40.0	17.6	51.3		
25...	2139	4.0	2490	363	6.8	24.3	45.8	12.6	48.4		
25...	2141	1.0	2490	360	6.8	24.3	41.6	15.2	44.7		
25...	2143	--	2490	--	--	--	38.8	13.4	47.4		
25...	2145	--	5000	--	--	--	38.3	19.9	51.9		
25...	2200	12.0	3500	365	7.0	24.3	45.0	15.6	--		
25...	2202	4.0	3500	364	7.6	24.6	--	--	--		
25...	2204	1.0	3500	363	7.7	24.5	--	--	--		
25...	2210	--	3500	--	--	--	70.6	12.4	75.6		
26...	0725	--	690	--	--	--	31.0	22.1	41.3		
26...	0730	17.0	690	424	6.5	23.7	--	--	--		
26...	0732	1.0	690	406	6.5	23.7	16.0	--	--		
26...	0740	--	2490	--	--	--	--	--	60.0		
26...	0745	20.0	2490	493	6.8	23.9	17.0	17.8	59.4		
26...	0747	10.0	2490	494	6.8	23.9	--	24.3	58.1		
26...	0749	4.0	2490	494	6.9	23.9	--	21.8	56.6		
26...	0750	1.0	2490	493	6.9	24.0	--	21.2	57.6		
26...	0755	14.0	3500	360	6.7	23.7	17.0	14.6	--		

APPENDIX A-2

384136077054600 - POTOMAC RIVER AT MARSHALL HALL --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHDS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG	0757	1.0	3500	360	6.7	23.7	--	5.7	--	--	--
26...	0800	--	3500	--	--	--	--	--	34.5	19.1	43.2
26...	0815	--	5000	--	--	--	--	--	38.8	20.8	48.3
26...	1945	--	3500	--	--	--	--	--	58.0	12.9	63.4
26...	1950	17.0	3500	454	--	--	--	--	--	--	--
26...	1952	10.0	3500	446	6.6	24.8	--	8.2	--	--	--
26...	1954	4.0	3500	441	6.6	24.9	--	8.1	--	--	--
26...	1956	1.0	3500	436	6.5	24.9	--	8.2	--	--	--
26...	2005	26.0	2490	496	6.5	24.7	--	8.0	53.5	15.7	60.4
26...	2007	10.0	2490	502	6.5	24.7	--	8.0	52.5	15.9	59.5
26...	2009	4.0	2490	504	6.5	24.7	--	8.0	49.0	13.8	55.0
26...	2011	1.0	2490	503	6.5	24.7	--	8.0	52.2	14.0	58.3
26...	2013	--	2490	--	--	--	--	--	53.0	15.4	59.7
26...	2015	--	5000	--	--	--	--	--	52.2	14.2	58.4
26...	2017	19.0	690	495	6.1	24.5	--	6.3	--	--	--
26...	2018	10.0	690	486	6.1	24.5	--	6.3	--	--	--
26...	2020	4.0	690	443	6.0	24.5	--	6.2	--	--	--
26...	2022	1.0	690	450	6.0	24.5	--	6.1	--	--	--
26...	2025	--	690	--	--	--	--	--	39.6	21.0	49.2
SEP	0855	--	2300	--	--	--	--	--	27.7	18.1	36.1
10...	0940	3.0	2300	634	6.3	24.2	--	6.0	--	--	--
16...	0945	--	2300	--	--	--	--	--	22.6	20.6	32.3
22...	0855	19.0	2300	454	7.2	21.5	22.0	6.2	20.4	30.2	34.8
22...	0857	13.0	2300	454	7.2	21.5	--	6.2	16.8	23.3	27.9
22...	0859	6.0	2300	454	7.2	21.5	--	6.2	18.5	16.6	26.2
22...	0900	1.6	2300	454	7.2	21.6	--	6.2	19.0	14.6	25.8

APPENDIX A-2

383818077072900 - POTOMAC RIVER AT HALLOWING POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LINES DEPTH (FT)	(000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(000009)	SPE- CIFIC CON- DUCT- ANCE (JMHDS)	(000095)	PH (UNITS)	(000400)	TEMPER- ATURE (DEG C)	(000010)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	(000077)	OXYGEN, DIS- SOLVED (MG/L)	(000300)	CHLORO- PHYLL. A FLUORO- METRIC METHOD CORR. (JG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL. A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
OCT																					
02...	1650	25.0		4140		420		6.5		22.1		23.0		5.1							
02...	1652	11.0		4140		427		6.6		22.2		--		5.3							
02...	1654	6.0		4140		442		6.9		22.3		--		6.6							
02...	1656	1.0		4140		441		7.1		22.4		--		7.3							
02...	1657	--		4140		--		--		--		--		--							
02...	1700	36.0		3490		434		6.4		22.2		19.0		--		37.6		19.7		46.6	
02...	1702	17.0		3490		440		6.7		22.4		--		5.3		33.3		24.5		44.7	
02...	1704	10.0		3490		449		6.8		22.5		--		6.3		41.4		19.8		50.4	
02...	1706	6.0		3490		452		6.8		22.5		--		6.9		40.3		19.8		49.4	
02...	1708	1.0		3490		450		6.8		22.5		--		7.1		42.7		20.3		51.9	
02...	1710	--		50000		--		--		--		--		--		42.4		20.4		51.7	
02...	1715	20.0		2940		394		6.5		22.4		22.0		5.8		38.3		20.3		47.6	
02...	1717	12.0		2940		390		6.5		22.4		--		5.9		--		--		--	
02...	1718	1.0		2940		379		6.6		22.5		--		6.5		--		--		--	
02...	1719	--		2940		--		--		--		--		--		32.8		17.2		40.7	
02...	1725	8.0		1710		380		6.5		22.5		19.0		6.1		--		--		--	
02...	1726	1.0		1710		380		6.6		22.5		--		6.5		--		--		--	
02...	1727	--		1710		--		--		--		--		--		36.8		17.2		44.6	
03...	0840	20.0		4140		401		6.1		20.6		25.0		6.0		--		--		--	
03...	0842	11.0		4140		402		6.1		20.8		--		6.1		--		--		--	
03...	0844	1.0		4140		401		6.2		20.8		--		6.1		--		--		--	
03...	0845	--		4140		--		--		--		--		--		29.7		29.6		43.6	
03...	0850	34.0		3490		415		6.1		20.9		19.0		6.1		38.4		35.1		54.9	
03...	0852	17.0		3490		410		6.1		20.9		--		6.0		35.1		22.5		45.5	
03...	0854	6.0		3490		396		6.1		20.9		--		6.0		34.5		21.9		44.7	
03...	0856	1.0		3490		390		6.1		20.9		--		6.2		35.9		18.7		44.5	
03...	0900	24.0		2940		356		6.0		20.8		19.0		6.1		--		--		--	
03...	0902	12.0		2940		355		6.0		20.8		--		6.1		--		--		--	
03...	0904	1.0		2940		353		6.1		20.7		--		6.3		--		--		--	
03...	0905	--		2940		--		--		--		--		--		33.3		18.2		41.7	
03...	0915	7.0		1710		358		6.1		20.5		19.0		6.6		--		--		--	
03...	0916	1.0		1710		357		6.2		20.6		--		7.0		43.8		20.0		52.8	
03...	0917	--		1710		--		--		--		--		--		41.7		21.0		51.2	
03...	0920	--		50000		--		--		--		--		--		--		--		--	
21...	1125	5.0		1710		444		7.2		17.0		18.0		9.6		--		--		--	
21...	1126	1.0		1710		445		7.3		16.8		--		9.7		56.2		17.1		63.8	
21...	1127	--		1710		--		--		--		--		--		46.8		18.7		55.2	
21...	1139	--		2940		--		--		--		--		--		--		--		--	
21...	1140	23.0		2940		440		6.9		16.9		24.0		8.7		--		--		--	

383818077072800 - POTOMAC RIVER AT HALLOWING POINT --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LNG (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
OCT	1142	12.0	--	2940	446	7.0	16.8	--	9.1	--	--	--
	1144	1.0	--	2940	436	7.0	17.0	--	8.9	--	--	--
	1145	33.0	--	3490	428	6.9	17.0	18.0	8.2	40.4	20.3	49.6
	1147	17.0	--	3490	432	6.8	17.0	--	8.4	48.0	14.8	54.5
	1149	6.0	--	3490	439	6.8	17.0	--	8.4	40.4	16.7	47.9
	1151	1.0	--	3490	438	6.8	17.0	--	8.4	40.4	17.9	48.5
	1155	--	--	50000	--	--	--	--	--	42.7	17.1	50.3
	1156	--	--	4140	--	--	--	--	--	34.2	18.9	42.9
	1157	13.0	--	4140	481	6.9	17.0	22.0	8.3	--	--	--
	1158	1.0	--	4140	473	6.9	17.0	--	8.5	--	--	--
NOV	1115	26.0	--	4140	2600	7.7	8.4	28.0	10.2	--	--	--
	1116	11.0	--	4140	1500	7.6	8.4	--	10.3	--	--	--
	1117	2.0	--	4140	1200	7.7	8.4	--	10.2	--	--	--
	1118	--	--	4140	--	--	--	--	--	19.6	10.7	24.5
	1125	33.0	--	3490	2070	7.5	8.7	29.0	9.8	24.6	14.0	31.1
	1127	17.0	--	3490	1910	7.6	8.5	--	10.2	23.0	11.9	28.5
	1129	2.0	--	3490	1300	7.6	8.5	--	10.2	17.6	8.8	21.7
	1135	--	--	50000	--	--	--	--	--	18.0	11.0	23.1
	1137	23.0	--	2940	1710	7.6	8.5	28.0	10.2	--	--	--
	1139	12.0	--	2940	1490	7.6	8.6	--	10.1	--	--	--
	1141	2.0	--	2940	1350	7.6	8.5	--	10.2	--	--	--
	1142	--	--	2940	--	--	--	--	--	19.4	10.9	24.4
	1145	9.0	--	1710	590	7.8	7.9	28.0	10.7	--	--	--
	1147	2.0	--	1710	620	7.8	7.9	--	10.6	--	--	--
DEC	1148	--	--	1710	--	--	--	--	--	14.5	10.4	19.3
	1214	--	--	4140	--	--	--	--	--	22.1	15.3	29.2
	1215	29.0	--	4140	710	8.0	4.9	20.0	11.8	--	--	--
	1217	11.0	--	4140	662	7.9	5.0	--	11.5	--	--	--
	1219	1.0	--	4140	672	7.9	5.0	--	11.5	--	--	--
	1220	34.0	--	3430	516	7.8	5.2	18.0	11.2	22.1	29.8	36.2
	1222	25.0	--	3430	517	7.8	5.2	--	11.2	18.7	18.6	27.4
	1224	17.0	--	3430	527	7.8	5.2	--	11.2	17.9	17.5	26.1
	1226	8.0	--	3430	536	7.8	5.2	--	11.2	17.3	13.6	23.7
	1228	1.0	--	3430	541	7.8	5.2	--	11.3	16.6	13.0	22.6
	1229	--	--	3480	--	--	--	--	--	19.2	18.6	28.0
	1230	--	--	50000	--	--	--	--	--	19.4	15.0	26.4
	1239	--	--	2940	--	--	--	--	--	18.8	14.9	25.7
	1240	27.0	--	2940	538	7.8	5.3	19.0	11.1	--	--	--

APPENDIX A-2

383818077072800 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING DEPTH (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
					(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
DEC												
16...	1242	12.0		2940	551	7.8	5.2	--	11.2	--	--	--
16...	1244	1.0		2940	556	7.8	5.2	--	11.3	--	--	--
16...	1245	9.0		1710	493	7.8	5.2	17.0	11.1	--	--	--
16...	1247	1.0		1710	493	7.8	5.2	--	11.1	--	--	--
16...	1248	--		1710	--	--	--	--	--	16.7	15.4	23.9
FER												
03...	1445	30.0		4020	3200	7.9	1.1	--	12.5	--	--	--
03...	1447	15.0		4020	2300	7.9	1.3	--	12.0	--	--	--
03...	1449	3.0		4020	1700	7.9	1.6	--	12.0	--	--	--
04...	1130	32.0		4020	2100	8.0	1.2	26.0	12.4	10.1	13.0	16.3
04...	1132	22.0		4020	1780	8.0	1.4	--	12.2	8.2	7.7	11.8
04...	1134	15.0		4020	1730	8.0	1.3	--	12.2	7.9	6.5	11.0
04...	1136	8.0		4020	1690	8.0	1.4	--	12.1	7.5	5.5	10.1
04...	1138	2.0		4020	1740	8.0	1.3	--	12.7	7.4	5.7	10.1
04...	1140	--		50000	--	--	--	--	--	7.4	7.0	10.6
VAR												
04...	0820	--		4020	--	--	--	--	--	3.5	7.5	7.1
04...	0822	37.0		4020	199	7.5	6.7	11.0	11.6	10.0	25.0	22.0
04...	0824	30.0		4020	198	7.5	6.9	--	11.2	6.6	15.6	14.2
04...	0826	15.0		4020	192	7.6	7.0	--	11.3	3.1	6.1	6.0
04...	0828	2.0		4020	192	7.6	7.0	--	11.3	3.0	5.2	5.5
18...	0815	3.0		4020	380	7.6	5.5	--	10.0	7.6	11.6	13.1
24...	1220	3.0		4020	300	7.5	5.6	--	10.7	4.0	7.7	7.7
APR												
01...	1550	--		4020	--	--	--	--	--	8.1	11.9	13.8
15...	0925	29.0		4020	289	7.5	14.7	10.0	8.4	53.9	79.1	91.5
15...	0927	22.0		4020	289	7.5	14.7	--	8.5	44.4	47.1	66.6
15...	0929	15.0		4020	289	7.5	14.7	--	8.4	42.1	38.1	60.0
15...	0931	2.0		4020	290	7.6	14.7	--	8.4	42.7	32.2	57.7
MAY												
19...	0955	35.0		4020	254	7.4	18.1	18.0	7.7	48.4	21.4	58.0
19...	0957	24.0		4020	256	7.3	18.2	--	7.3	35.6	21.8	45.6
19...	0959	18.0		4020	258	7.2	18.4	--	7.1	27.6	17.8	35.8
19...	1001	10.0		4020	258	7.2	18.6	--	6.8	18.1	13.9	24.6
19...	1003	2.0		4020	258	7.2	18.6	--	6.7	15.9	12.1	21.6
JUN												
09...	1220	--		1710	--	--	--	--	--	19.6	5.2	21.9
08...	1245	--		2940	--	--	--	--	--	21.1	7.0	24.2
08...	1255	--		4020	--	--	--	--	--	28.1	11.1	33.1
08...	1305	--		4450	--	--	--	--	--	33.5	10.9	38.3

APPENDIX A-2

393818077072900 - POTOMAC RIVER AT HALLOWING POINT ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LINC (00003)	SAMPLE LOC- TION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMH05) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUN												
24...	1500	--	--	4020	--	--	--	--	--	16.6	6.80	19.7
30...	1217	32.0		4020	222	6.5	26.8	17.0	6.0	--	--	--
30...	1219	28.0		4020	224	6.5	26.9	--	6.0	--	--	--
30...	1221	20.0		4020	223	6.5	27.0	--	6.2	--	--	--
30...	1223	15.0		4020	221	6.6	27.1	--	6.5	--	--	--
30...	1225	7.0		4020	220	6.6	27.2	--	6.8	--	--	--
30...	1227	2.0		4020	219	6.7	27.3	--	7.0	--	--	--
30...	1230	--	--	4020	--	--	--	--	--	25.5	13.8	31.6
JUL												
06...	1640	2.0		4020	237	5.8	26.1	15.0	5.3	21.7	6.9	24.7
06...	1642	7.0		4020	237	5.8	26.1	--	5.1	21.4	6.4	24.2
06...	1644	14.0		4020	236	5.8	26.0	--	5.1	21.4	7.3	24.6
05...	1646	21.0		4020	234	5.7	25.9	--	4.9	21.2	10.8	26.1
05...	1648	28.0		4020	234	5.7	25.9	--	4.8	20.9	13.3	27.0
06...	1650	32.0		4020	234	5.7	25.8	--	4.8	19.6	15.5	26.9
06...	1652	34.0		4020	233	5.7	25.9	--	4.9	20.8	20.4	30.4
06...	1654	--	--	4020	--	--	--	--	--	19.2	8.50	23.1
06...	1700	9.0		4450	220	5.8	26.2	19.0	6.3	--	--	--
06...	1702	4.0		4450	222	5.9	26.2	--	6.4	--	--	--
06...	1704	1.0		4450	223	5.9	26.4	--	7.0	--	--	--
06...	1705	--	--	4450	--	--	--	--	--	32.5	8.70	36.2
08...	1710	25.0		4140	242	6.7	26.9	19.0	5.0	--	--	--
08...	1712	11.0		4140	242	6.6	27.0	--	5.5	--	--	--
08...	1714	5.0		4140	245	6.8	27.8	--	6.6	--	--	--
08...	1716	2.0		4140	244	7.0	28.4	--	8.2	--	--	--
08...	1717	--	--	4140	--	--	--	--	--	23.2	10.7	28.1
08...	1719	--	--	3480	--	--	--	--	--	21.4	8.5	25.2
08...	1720	34.0		3490	241	6.5	27.0	23.0	5.0	19.8	19.6	29.0
08...	1722	28.0		3490	242	6.5	27.1	--	5.1	21.4	13.7	27.7
08...	1724	21.0		3490	242	6.6	27.6	--	5.9	22.0	10.6	26.8
08...	1726	14.0		3490	243	6.7	27.8	--	6.4	28.5	8.6	32.2
08...	1728	7.0		3490	244	6.7	27.9	--	6.5	30.0	6.7	32.8
08...	1729	2.0		3490	246	6.7	28.1	--	6.7	26.2	5.3	28.4
08...	1730	--	--	50000	--	--	--	--	--	26.9	11.1	31.9
08...	1750	23.0		2940	241	6.6	27.2	18.0	5.3	--	--	--
08...	1752	12.0		2940	243	6.6	27.9	--	5.8	--	--	--
08...	1754	2.0		2940	243	6.6	28.1	--	6.2	--	--	--
08...	1755	--	--	2940	--	--	--	--	--	24.6	10.0	29.1
08...	1800	5.0		1710	230	6.6	28.1	24.0	6.4	--	--	--
08...	1802	2.0		1710	231	6.6	28.1	--	6.5	--	--	--

APPENDIX A-2

383818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (JM40S)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUL																					
08...	1803	--	--	1710	--	--	--	--	--	--	--	--	--	--	--	25.7	7.3	28.8			
10...	1830	2.0	200	4020	200	6.8	28.8	24.0	8.8	8.0	63.3	11.3	67.8			63.3	11.3	67.8			
10...	1832	7.0	200	4020	200	6.4	28.7	--	8.0	6.7	60.6	8.3	63.8			60.6	8.3	63.8			
10...	1833	14.0	200	4020	200	6.1	28.5	--	6.7	5.6	46.9	6.4	49.4			46.9	6.4	49.4			
10...	1834	21.0	200	4020	200	5.9	28.2	--	5.6	5.5	26.8	9.1	30.8			26.8	9.1	30.8			
10...	1836	28.0	200	4020	200	5.9	28.2	--	5.5	5.4	26.5	9.1	30.6			26.5	9.1	30.6			
10...	1838	31.0	200	4020	200	5.9	28.2	--	5.4	5.4	25.0	11.0	30.0			25.0	11.0	30.0			
10...	1840	--	--	4020	--	--	--	--	--	--	44.0	10.3	48.4			44.0	10.3	48.4			
10...	1845	--	--	4450	200	7.0	28.0	24.0	9.2	9.2	67.5	8.2	70.5			67.5	8.2	70.5			
13...	1718	35.0	243	4020	243	5.9	29.2	24.0	6.6	6.6	22.3	25.1	34.1			22.3	25.1	34.1			
13...	1720	32.0	243	4020	243	5.9	29.2	--	6.7	6.7	22.4	15.8	29.7			22.4	15.8	29.7			
13...	1722	28.0	242	4020	242	5.9	29.3	--	6.8	6.8	25.7	15.5	32.9			25.7	15.5	32.9			
13...	1724	21.0	242	4020	242	6.1	29.4	--	7.2	7.2	27.2	16.3	34.7			27.2	16.3	34.7			
13...	1726	14.0	241	4020	241	6.1	29.4	--	--	--	27.7	13.9	34.1			27.7	13.9	34.1			
13...	1728	7.0	240	4020	240	6.6	29.6	--	--	--	37.5	11.8	42.7			37.5	11.8	42.7			
13...	1730	2.0	238	4020	238	7.0	29.8	24.0	--	--	65.0	11.2	69.5			65.0	11.2	69.5			
13...	1731	--	--	4020	--	--	--	--	--	--	40.0	14.3	46.4			40.0	14.3	46.4			
13...	1745	9.0	240	4450	240	6.1	29.3	22.0	7.9	7.9	40.5	17.1	48.2			40.5	17.1	48.2			
13...	1746	--	--	4450	--	--	--	--	--	--	40.5	17.1	48.2			40.5	17.1	48.2			
13...	1800	2.0	234	4020	234	8.0	30.0	--	12.0	12.0	77.1	11.1	81.4			77.1	11.1	81.4			
13...	1802	7.0	236	4020	236	7.3	29.7	--	9.7	9.7	60.0	14.2	66.0			60.0	14.2	66.0			
13...	1804	14.0	239	4020	239	6.3	29.5	--	8.5	8.5	43.6	12.6	49.1			43.6	12.6	49.1			
13...	1806	21.0	241	4020	241	5.8	29.2	--	6.9	6.9	24.8	13.8	31.2			24.8	13.8	31.2			
13...	1808	28.0	240	4020	240	5.8	29.2	--	6.7	6.7	25.2	13.4	31.4			25.2	13.4	31.4			
13...	1809	32.0	240	4020	240	5.8	29.2	--	6.7	6.7	25.2	13.4	31.4			25.2	13.4	31.4			
13...	1810	35.0	240	4020	240	5.9	29.2	--	6.7	6.7	25.2	13.4	31.4			25.2	13.4	31.4			
15...	1542	34.0	259	4020	259	7.1	28.5	20.0	5.5	5.5	21.6	22.3	32.1			21.6	22.3	32.1			
15...	1544	28.0	254	4020	254	7.2	28.7	--	5.6	5.6	20.5	7.8	24.0			20.5	7.8	24.0			
15...	1546	21.0	264	4020	264	7.2	28.8	--	6.2	6.2	26.7	7.6	30.0			26.7	7.6	30.0			
15...	1548	14.0	255	4020	255	7.3	29.0	--	7.5	7.5	34.0	9.7	38.2			34.0	9.7	38.2			
15...	1550	7.0	253	4020	253	7.6	29.1	--	7.8	7.8	39.2	9.2	43.1			39.2	9.2	43.1			
15...	1552	2.0	249	4020	249	7.7	29.1	--	8.3	8.3	43.8	10.3	48.1			43.8	10.3	48.1			
15...	1600	3.0	253	4020	253	7.1	28.9	12.0	6.2	6.2	21.0	8.2	24.7			21.0	8.2	24.7			
15...	1601	--	--	1710	--	--	--	--	--	--	21.0	8.2	24.7			21.0	8.2	24.7			
15...	1605	3.0	242	4140	242	8.7	29.2	17.0	9.6	9.6	--	--	--			--	--	--			
15...	1607	19.0	253	4140	253	7.4	28.8	--	7.1	7.1	42.3	27.8	55.2			42.3	27.8	55.2			
15...	1608	--	--	4140	--	--	--	--	--	--	15.5	19.4	24.7			15.5	19.4	24.7			
17...	1500	35.0	254	3490	254	6.8	27.7	25.0	4.8	4.8	15.9	15.9	23.4			15.9	15.9	23.4			
17...	1502	30.0	253	3490	253	6.7	27.7	--	4.9	4.9	15.9	15.9	23.4			15.9	15.9	23.4			

393818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (JG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL											
17...	1504	21.0	3490	249	6.7	27.8	--	5.0	15.4	11.6	20.8
17...	1506	14.0	3490	247	6.7	27.8	--	5.1	17.0	12.4	22.8
17...	1508	7.0	3490	245	6.7	27.9	--	5.3	20.3	9.6	24.7
17...	1510	2.0	3490	246	6.7	28.9	--	6.2	17.6	7.0	20.8
17...	1511	--	3490	--	--	--	--	--	13.8	13.4	20.1
17...	1525	22.0	4140	260	6.7	28.1	24.0	4.4	--	--	--
17...	1527	2.0	4140	255	7.3	29.8	--	8.1	--	--	--
17...	1528	--	4140	--	--	--	--	--	24.7	9.2	28.8
17...	1530	3.0	1710	229	6.7	28.2	28.0	5.9	--	--	--
17...	1531	--	1710	--	--	--	--	--	23.6	9.6	28.0
20...	0815	22.0	4140	236	7.4	28.1	18.0	7.9	--	--	--
20...	0817	12.0	4140	234	8.1	28.3	--	8.3	--	--	--
20...	0819	1.0	4140	233	8.3	28.3	--	8.4	--	--	--
20...	0820	--	4140	--	--	--	--	--	73.3	33.8	88.7
20...	0825	--	50000	--	--	--	--	--	37.3	23.2	48.0
20...	0830	35.0	3490	241	6.8	28.4	20.0	6.8	47.4	64.2	77.9
20...	0832	32.0	3490	241	6.7	28.5	--	6.7	36.3	28.0	49.4
20...	0834	28.0	3490	241	6.7	28.5	--	6.8	31.6	27.4	44.5
20...	0836	21.0	3490	241	6.6	28.5	20.0	6.7	36.5	19.5	45.4
20...	0837	14.0	3490	241	6.6	28.5	--	6.8	35.6	15.9	42.8
20...	0839	7.0	3490	241	6.6	28.5	--	6.8	33.3	14.7	40.0
20...	0841	1.0	3490	241	6.7	28.4	--	6.8	35.8	11.8	41.0
20...	0842	--	3490	--	--	--	--	--	35.2	19.4	44.1
20...	0850	29.0	2940	240	6.8	28.5	20.0	6.7	--	--	--
20...	0852	15.0	2940	241	6.6	28.4	--	6.6	--	--	--
20...	0854	1.0	2940	241	6.6	28.4	--	6.7	--	--	--
20...	0856	--	2940	--	--	--	--	--	33.1	16.5	40.7
20...	0900	8.0	1710	241	6.6	28.4	20.0	6.6	--	--	--
20...	0902	1.0	1710	241	6.6	28.4	--	6.6	--	--	--
20...	0903	--	1710	--	--	--	--	--	27.9	12.2	33.4
20...	1830	26.0	4140	240	7.9	29.2	15.0	9.0	--	--	--
20...	1832	13.0	4140	241	8.2	29.2	--	9.3	--	--	--
20...	1834	5.0	4140	239	8.4	29.4	--	9.5	--	--	--
20...	1836	1.0	4140	230	9.1	30.0	--	10.1	--	--	--
20...	1837	--	4140	--	--	--	--	--	89.1	25.0	98.9
20...	1845	--	50000	--	--	--	--	--	58.7	19.2	67.2
20...	1847	35.0	3490	242	7.3	29.2	17.0	8.3	63.9	55.7	90.0
20...	1849	30.0	3490	243	7.3	29.2	--	8.3	72.4	55.4	98.3
20...	1851	22.0	3490	244	7.2	29.2	--	8.2	55.8	26.4	67.8

APPENDIX A-2

383818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUL																					
20...	1853	14.0		3490		246		7.2		29.2		--		8.1		50.5		22.1		60.5	
20...	1855	7.0		3490		248		7.2		29.2		--		8.0		56.2		13.3		61.9	
20...	1857	1.0		3490		245		7.2		29.2		--		8.2		54.5		11.9		59.5	
20...	1858	--		3490		--		--		--		--		--		56.1		22.3		66.2	
20...	1900	24.0		2940		252		6.8		29.0		24.0		6.8		--		--		--	
20...	1902	20.0		2940		251		6.9		29.1		--		7.5		--		--		--	
20...	1904	18.0		2940		252		7.0		29.1		--		7.6		--		--		--	
20...	1906	12.0		2940		254		7.0		29.1		--		7.7		--		--		--	
20...	1908	1.0		2940		254		7.1		29.1		--		7.9		--		--		--	
20...	1909	--		2940		--		--		--		--		--		39.4		12.2		44.8	
20...	1910	7.0		1710		242		6.7		29.2		--		7.3		--		--		--	
20...	1912	1.0		1710		242		6.7		29.2		--		7.3		--		--		--	
20...	1913	--		1710		--		--		--		--		--		33.5		11.9		38.8	
21...	0832	27.0		4140		241		7.2		28.3		16.0		6.7		--		--		--	
21...	0835	13.0		4140		241		7.2		28.3		--		6.7		--		--		--	
21...	0837	1.0		4140		238		7.5		28.3		--		6.9		--		--		--	
21...	0838	--		4140		--		--		--		--		--		48.3		29.7		61.9	
21...	0840	34.0		3490		241		7.0		28.4		18.0		6.7		45.3		29.6		59.0	
21...	0842	30.0		3490		241		7.0		28.4		--		6.6		46.6		23.6		57.4	
21...	0846	22.0		3490		242		7.0		28.5		--		6.6		43.3		19.1		51.9	
21...	0848	14.0		3490		244		6.9		28.6		--		6.4		44.1		17.7		52.0	
21...	0850	--		50000		--		--		--		--		--		47.5		21.0		57.0	
21...	0851	7.0		3490		244		6.9		28.7		--		6.3		37.8		17.1		45.5	
21...	0852	1.0		3490		245		6.8		28.8		--		6.2		32.8		11.3		37.8	
21...	0854	--		3490		--		--		--		--		--		38.5		17.9		46.6	
21...	0900	23.0		2940		241		6.8		28.7		23.0		6.3		--		--		--	
21...	0902	11.0		2940		242		6.8		28.7		--		6.3		--		--		--	
21...	0904	1.0		2940		243		6.8		28.8		--		6.4		--		--		--	
21...	0905	--		2940		--		--		--		--		--		37.0		16.0		44.2	
21...	0906	7.0		1710		244		6.7		28.7		19.0		6.2		--		--		--	
21...	0908	1.0		1710		244		6.7		28.7		--		6.3		--		--		--	
21...	0910	--		1710		--		--		--		--		--		31.6		10.9		36.4	
21...	1815	30.0		4140		252		6.4		29.3		26.0		5.1		--		--		--	
21...	1817	15.0		4140		264		6.4		29.4		--		5.9		--		--		--	
21...	1819	1.0		4140		251		6.8		29.6		--		7.4		--		--		--	
21...	1820	--		4140		--		--		--		--		--		35.8		12.4		41.2	
21...	1825	36.0		3490		259		6.4		29.1		26.0		5.0		25.3		18.4		33.9	
21...	1827	30.0		3490		258		6.3		29.1		--		5.1		26.4		15.2		33.4	
21...	1829	28.0		3490		259		6.4		29.1		--		5.2		26.2		14.0		32.7	

APPENDIX A-2

383818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE		SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO-			CHLORO-					
		SAMP- LING DEPTH (FT) (00003)	CROSS SECTION (FT FM L BANK) (00009)						PHYLL'A FLUORO- METRIC CORR. (UG/L) (32209)	PHYLL'A FLUORO- METRIC METHOD (UG/L) (32213)	PHYLL'A FLUORO- METRIC METHOD (UG/L) (32217)						
JUL																	
21...	1831	22.0	3490	254	6.4	29.2	--	5.5	28.7	13.2	34.7						
21...	1833	14.0	3490	250	6.4	29.3	--	5.8	30.6	12.0	36.0						
21...	1835	7.0	3490	242	6.4	29.4	--	6.1	32.2	14.7	38.9						
21...	1837	1.0	3490	238	6.4	29.6	--	6.3	27.0	19.1	35.8						
21...	1839	--	3490	--	--	--	--	--	29.6	11.9	34.9						
21...	1840	--	50000	--	--	--	--	--	32.6	11.0	37.5						
21...	1850	19.0	2940	246	6.3	29.0	26.0	5.1	--	--	--						
21...	1852	10.0	2940	233	6.4	29.4	--	6.5	--	--	--						
21...	1854	1.0	2940	233	6.4	29.5	--	6.7	--	--	--						
21...	1855	--	2940	--	--	--	--	--	28.7	16.3	36.2						
21...	1900	5.0	1710	230	6.4	29.7	26.0	7.5	--	--	--						
21...	1902	1.0	1710	231	6.5	29.7	--	7.8	--	--	--						
21...	1904	--	1710	--	--	--	--	--	31.9	7.90	35.3						
22...	0750	29.0	4140	252	7.1	28.2	23.0	6.7	--	--	--						
22...	0752	14.0	4140	258	6.8	28.3	--	6.5	--	--	--						
22...	0754	1.0	4140	257	6.9	28.3	--	6.6	--	--	--						
22...	0755	--	4140	--	--	--	--	--	47.0	17.9	55.0						
22...	0800	--	50000	--	--	--	--	--	40.8	19.2	49.5						
22...	0802	35.0	3490	258	6.9	28.3	23.0	6.3	46.1	15.1	52.8						
22...	0804	30.0	3490	256	6.9	28.3	--	6.4	49.4	19.4	58.1						
22...	0806	22.0	3490	255	6.8	28.4	--	6.2	42.7	19.1	51.4						
22...	0807	14.0	3490	251	6.7	28.4	--	6.0	32.0	18.3	40.4						
22...	0808	7.0	3490	257	6.5	28.6	--	5.4	27.1	12.7	32.9						
22...	0810	1.0	3490	257	6.6	28.6	--	5.5	26.9	12.3	32.5						
22...	0811	--	3490	--	--	--	--	--	37.4	16.2	44.7						
22...	0814	--	2940	--	--	--	--	--	23.7	17.9	32.0						
22...	0815	24.0	2940	237	6.5	28.5	24.0	5.6	--	--	--						
22...	0817	12.0	2940	239	6.5	28.6	--	5.7	--	--	--						
22...	0819	1.0	2940	241	6.5	28.6	--	5.8	--	--	--						
22...	0820	5.0	1710	230	6.4	28.5	24.0	6.0	--	--	--						
22...	0822	1.0	1710	231	6.4	28.5	--	6.1	--	--	--						
22...	0824	--	1710	--	--	--	--	--	26.8	16.7	34.6						
27...	1200	1.0	4020	--	--	--	--	--	39.1	9.6	43.2						
27...	1201	6.0	4020	--	--	--	--	--	54.6	14.3	60.7						
27...	1202	13.0	4020	--	--	--	--	--	59.0	9.8	62.9						
27...	1203	19.0	4020	--	--	--	--	--	48.9	10.9	53.5						
27...	1204	26.0	4020	--	--	--	--	--	19.8	10.8	24.8						
27...	1205	32.0	4020	--	--	--	--	--	23.2	12.6	29.0						
27...	1206	35.0	4020	--	--	--	--	--	24.6	12.7	30.3						

APPENDIX A-2

383818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(000003)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	(000009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	(000095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (JG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUL																					
27...	1207	--	--	4020	--	--	--	--	--	--	--	--	--	--	--	36.4	10.0	40.7	40.7		
27...	1208	--	--	4140	--	--	--	--	--	--	--	--	--	--	--	47.7	12.5	53.0	53.0		
28...	1020	--	--	4020	--	--	--	--	--	--	--	--	--	--	--	28.7	15.9	36.0	36.0		
28...	1021	33.0		4020	261			7.2		27.6		22.0		5.7		32.7	25.9	44.8	44.8		
28...	1022	27.0		4020	261			7.1		27.6		--		5.7		31.9	20.4	41.4	41.4		
28...	1024	20.0		4020	261			7.0		27.6		--		5.7		32.7	17.5	40.7	40.7		
28...	1026	13.0		4020	260			7.0		27.6		--		5.7		30.5	13.3	36.5	36.5		
28...	1028	6.0		4020	250			7.0		27.6		--		5.7		32.6	12.7	38.3	38.3		
28...	1030	1.6		4020	260			7.0		27.6		--		5.8		32.0	9.7	36.2	36.2		
28...	1035	1.5		1710	234			6.9		27.8		--		6.0		--	--	--	--		
28...	1040	24.0		4140	252			7.0		27.7		--		5.7		--	--	--	--		
28...	1042	1.5		4140	252			7.0		27.7		--		5.8		--	--	--	--		
28...	1043	--	--	4140	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
28...	1045	--	--	1710	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
29...	1640	32.0		4020	257			6.5		27.6		18.0		6.4		31.6	14.4	38.1	38.1		
29...	1642	26.0		4020	260			6.8		27.6		--		7.3		27.4	11.9	32.8	32.8		
29...	1644	19.0		4020	252			6.9		27.5		--		8.0		48.3	27.8	61.1	61.1		
29...	1646	13.0		4020	255			7.3		27.5		--		8.2		57.1	12.4	62.3	62.3		
29...	1648	6.0		4020	270			7.6		27.5		--		8.5		61.9	15.6	73.6	73.6		
29...	1650	2.0		4020	274			7.8		27.6		--		8.6		73.8	17.7	81.4	81.4		
29...	1652	--	--	4020	--	--	--	--	--	--	--	--	--	--	--	63.1	16.8	70.3	70.3		
29...	1655	--	--	4140	--	--	--	--	--	--	--	--	--	--	--	103	20.3	112	112		
29...	1705	5.0		1710	290			8.8		27.9		14.0		9.6		--	--	--	--		
31...	1802	32.0		4020	273			6.6		27.1		17.0		7.1		61.8	79.6	99.6	99.6		
31...	1804	26.0		4020	272			6.7		27.2		--		7.6		61.2	48.8	84.0	84.0		
31...	1806	20.0		4020	272			6.9		27.2		--		8.3		64.6	31.9	79.1	79.1		
31...	1808	13.0		4020	270			7.1		27.3		--		8.6		50.2	25.3	61.7	61.7		
31...	1810	6.0		4020	272			8.1		27.6		--		10.4		42.8	14.9	49.4	49.4		
31...	1812	3.0		4020	273			8.4		27.9		--		11.3		74.1	15.0	80.3	80.3		
31...	1814	1.5		4020	273			8.5		28.1		--		12.2		86.1	5.6	87.6	87.6		
31...	1820	--	--	4140	--	--	--	--	--	--	--	--	--	--	--	101	21.3	110	110		
31...	1830	6.0		1710	279			8.9		28.3		13.0		13.2		--	--	--	--		
AUG																					
04...	1430	32.0		4020	319			6.6		27.4		19.0		6.3		16.1	63.2	46.5	46.5		
04...	1432	26.0		4020	316			6.7		27.4		--		6.4		9.5	27.0	21.5	21.5		
04...	1434	20.0		4020	316			6.7		27.5		--		6.4		8.4	19.3	17.7	17.7		
04...	1436	13.0		4020	311			6.7		27.5		--		6.6		22.8	15.9	30.1	30.1		
04...	1438	6.0		4020	290			6.5		27.9		--		6.4		15.3	14.1	21.9	21.9		
04...	1440	1.5		4020	271			6.5		28.6		--		6.5		15.6	11.2	20.9	20.9		
04...	1442	--	--	4020	--	--	--	--	--	--	--	--	--	--	--	22.5	15.6	29.7	29.7		

APPENDIX A-2

383818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LNG (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG												
04...	1448	5.0		1710	300	7.1	28.2	18.0	8.3	--	--	--
04...	1450	--		4140	--	--	--	--	--	49.0	19.3	57.7
05...	1200	1.0		4020	--	--	--	--	--	27.8	13.5	34.0
05...	1201	6.0		4020	--	--	--	--	--	30.3	12.3	35.8
05...	1202	13.0		4020	--	--	--	--	--	36.5	14.5	43.0
05...	1204	26.0		4020	--	--	--	--	--	40.9	14.7	47.4
05...	1205	32.0		4020	--	--	--	--	--	40.7	15.2	47.5
05...	1206	--		4020	--	--	--	--	--	33.2	12.6	39.8
05...	1207	--		4140	--	--	--	--	--	58.2	9.7	62.1
05...	1800	32.0		4020	293	6.8	28.1	20.0	6.0	--	--	--
05...	1802	26.0		4020	293	6.7	28.1	--	6.1	--	--	--
05...	1804	20.0		4020	293	6.7	28.2	--	6.5	--	--	--
05...	1806	13.0		4020	273	6.5	28.3	--	5.8	--	--	--
05...	1808	6.0		4020	262	6.3	28.4	--	5.7	--	--	--
05...	1810	2.0		4020	262	6.3	28.4	--	5.7	--	--	--
05...	1830	6.0		1710	294	6.8	28.5	--	7.4	--	--	--
06...	1550	25.0		4140	339	7.0	27.4	18.0	6.5	--	--	--
06...	1552	12.0		4140	329	6.9	27.5	--	6.2	--	--	--
06...	1553	1.0		4140	326	6.8	27.4	--	6.2	--	--	--
06...	1554	--		4140	--	--	--	--	--	44.2	32.0	59.1
06...	1555	35.0		3490	346	7.0	27.5	15.0	6.4	55.6	18.9	63.9
06...	1557	28.0		3490	345	7.0	27.5	--	6.4	55.5	18.1	63.5
06...	1559	21.0		3490	337	6.9	27.5	--	6.2	49.6	14.8	56.0
06...	1601	14.0		3490	321	6.8	27.5	--	5.9	43.2	16.0	50.3
06...	1603	7.0		3490	314	6.7	27.5	--	5.8	35.9	16.8	43.6
06...	1605	4.0		3490	314	6.7	27.5	--	5.8	40.8	13.8	46.9
06...	1607	1.0		3490	314	6.7	27.5	--	5.8	39.2	14.1	45.5
06...	1608	--		3490	--	--	--	--	--	44.8	15.4	51.6
06...	1610	--		50000	--	--	--	--	--	37.9	15.7	44.9
06...	1615	24.0		2940	289	6.5	27.6	24.0	5.1	--	--	--
06...	1617	12.0		2940	289	6.5	27.6	--	5.1	--	--	--
06...	1619	1.0		2940	288	6.5	27.5	--	5.2	--	--	--
06...	1620	--		2940	--	--	--	--	--	29.2	15.3	36.2
06...	1625	5.0		1710	297	6.6	27.3	21.0	5.8	--	--	--
06...	1627	1.0		1710	287	6.6	27.3	--	5.9	--	--	--
06...	1630	--		1710	--	--	--	--	--	31.0	13.3	37.0
07...	1045	32.0		4020	332	7.0	26.6	23.0	5.7	33.8	22.1	44.0
07...	1047	26.0		4020	332	6.9	26.6	--	5.8	33.6	23.2	44.4
07...	1049	20.0		4020	332	6.9	26.6	--	5.8	39.3	19.1	47.0

383818077072800 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLDRO- PHYLL A FLUORO- METRIC CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLDRO- PHYLL A FLUORO- METRIC UNCORR. (UG/L) (32217)
AUG											
07...	1051	13.0	4020	335	6.9	26.6	--	5.9	41.4	18.7	49.9
07...	1053	6.0	4020	336	6.9	26.6	--	6.0	37.1	18.8	45.7
07...	1055	1.5	4020	337	6.9	26.8	--	6.3	38.1	16.8	45.8
07...	1056	--	4020	--	--	--	--	--	32.6	21.2	42.4
07...	1100	--	4140	--	--	--	--	--	25.3	9.3	29.5
07...	1130	6.0	1710	352	7.1	26.3	20.0	6.7	--	--	--
07...	1532	32.0	4020	353	6.8	26.8	23.0	5.9	34.6	21.1	44.3
07...	1534	26.0	4020	351	6.7	26.8	--	5.8	30.0	18.3	38.4
07...	1536	20.0	4020	354	6.8	26.8	--	6.0	30.4	16.4	37.9
07...	1538	13.0	4020	343	6.7	26.8	--	5.6	32.4	16.4	39.9
07...	1540	6.0	4020	344	6.7	26.9	--	5.8	35.2	17.5	43.1
07...	1541	3.0	4020	351	7.8	27.3	--	8.8	54.5	13.0	60.0
07...	1542	1.0	4020	353	8.3	28.7	--	10.0	51.0	9.6	54.9
07...	1544	--	4020	--	--	--	--	--	36.6	20.9	46.2
07...	1545	6.0	1710	339	6.9	26.9	23.0	6.0	--	--	--
07...	1550	--	4140	--	--	--	--	--	45.0	16.8	52.5
10...	1832	32.0	4020	306	6.4	27.8	20.0	5.7	36.3	17.7	44.4
10...	1834	26.0	4020	305	6.4	27.8	--	5.6	38.3	15.0	45.0
10...	1836	20.0	4020	306	6.4	27.8	--	5.8	38.6	14.4	45.0
10...	1838	13.0	4020	308	6.4	27.9	--	6.1	46.4	12.4	51.8
10...	1840	6.0	4020	317	6.6	28.0	--	6.8	46.9	11.1	51.6
10...	1842	3.0	4020	337	7.3	28.4	--	9.6	78.2	7.0	80.4
10...	1844	1.5	4020	338	8.9	29.3	--	10.2	98.6	8.5	101
10...	1845	--	4020	--	--	--	--	--	44.3	13.5	50.2
10...	1850	5.0	1710	304	6.7	28.0	16.0	6.4	--	--	--
10...	1855	--	4140	--	--	--	--	--	55.3	11.2	60.0
18...	1045	16.0	4140	396	7.5	26.2	18.0	6.8	--	--	--
18...	1047	7.0	4140	379	7.4	26.4	--	6.7	--	--	--
18...	1049	1.6	4140	376	7.4	26.6	--	6.6	--	--	--
18...	1050	--	4140	--	--	--	--	--	60.4	20.0	69.2
18...	1055	36.0	3490	404	7.8	25.9	24.0	7.4	68.1	25.6	79.5
18...	1057	26.0	3490	379	7.5	26.2	--	6.9	63.5	18.3	71.5
18...	1059	20.0	3490	395	7.3	26.5	--	6.1	52.1	17.6	59.9
18...	1101	13.0	3490	401	7.2	26.7	--	5.7	46.4	19.3	55.2
18...	1103	6.0	3490	398	7.1	26.8	--	5.5	45.3	19.9	54.3
18...	1105	1.6	3490	390	7.2	27.0	--	6.1	48.8	16.9	56.2
18...	1106	--	3490	--	--	--	--	--	53.5	19.1	62.0
18...	1108	--	2940	--	--	--	--	--	40.9	17.8	48.9
18...	1110	23.0	2940	377	7.2	26.9	24.0	5.7	--	--	--

APPENDIX A-2

383818077072800 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA- WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (JG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG											
18...	1112	10.0	2940	377	7.2	26.9	---	5.7	--	--	--
18...	1114	1.6	2940	379	7.3	27.1	---	6.4	--	--	--
18...	1115	5.0	1710	362	7.2	26.8	24.0	6.2	--	--	--
18...	1117	1.5	1710	370	7.6	27.1	---	7.2	--	--	--
18...	1118	--	1710	--	--	--	---	--	51.3	14.0	57.4
18...	1130	--	50000	--	--	--	---	--	52.9	18.3	61.0
24...	1930	26.0	4140	789	6.5	24.3	---	7.3	--	--	--
24...	1932	20.0	4140	792	6.5	24.3	---	7.3	--	--	--
24...	1934	10.0	4140	758	6.5	24.4	---	7.6	--	--	--
24...	1936	4.0	4140	753	7.6	24.9	---	10.0	--	--	--
24...	1938	1.0	4140	748	7.7	25.0	---	10.3	--	--	--
24...	1940	--	4140	--	--	--	---	--	48.6	20.4	57.7
24...	1945	--	50000	--	--	--	---	--	56.9	17.7	64.7
24...	1947	36.0	3490	694	6.6	24.5	---	7.9	54.1	29.2	67.5
24...	1949	28.0	3490	597	6.7	24.6	---	8.7	59.5	14.7	65.8
24...	1951	20.0	3490	600	6.7	24.6	---	8.6	56.4	14.5	62.6
24...	1953	10.0	3490	588	6.8	24.7	---	8.8	59.1	14.1	65.1
24...	1955	4.0	3490	539	6.6	24.7	---	8.4	53.7	16.1	60.7
24...	1957	1.0	3490	535	6.5	24.6	---	8.3	51.5	13.9	57.5
24...	1958	--	3490	--	--	--	---	--	55.9	17.2	63.4
24...	2000	26.0	2940	509	6.4	24.6	---	8.1	--	--	--
24...	2002	18.0	2940	502	6.4	24.6	---	8.1	--	--	--
24...	2004	10.0	2940	510	6.4	24.6	---	8.2	--	--	--
24...	2006	4.0	2940	490	6.4	24.7	---	8.6	--	--	--
24...	2007	1.0	2940	499	6.5	24.0	---	8.6	--	--	--
24...	2008	--	2940	--	--	--	---	--	55.3	13.7	61.1
24...	2010	6.0	1710	506	6.8	24.8	---	9.0	--	--	--
24...	2012	1.0	1710	505	6.6	24.8	---	9.2	--	--	--
24...	2014	--	1710	--	--	--	---	--	61.9	14.3	68.0
25...	0810	6.0	1710	591	7.0	24.0	16.0	7.4	--	--	--
25...	0812	1.0	1710	591	7.0	24.0	---	7.4	--	--	--
25...	0814	--	1710	--	--	--	---	--	46.5	19.9	55.5
25...	0820	20.0	2940	606	7.0	24.0	18.0	7.5	--	--	--
25...	0822	12.0	2940	596	7.0	24.0	---	7.6	--	--	--
25...	0824	1.0	2940	588	7.1	24.0	---	7.9	--	--	--
25...	0825	--	2940	--	--	--	---	--	48.5	19.3	57.1
25...	0826	37.0	3490	880	7.1	24.0	18.0	7.4	51.7	28.2	64.6
25...	0827	28.0	3490	644	6.9	24.0	---	7.0	48.4	16.6	55.7
25...	0829	20.0	3490	610	7.0	24.0	---	7.1	49.8	15.6	56.7

APPENDIX A-2

393818077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LINS DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI .DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL. A FLUORO- METRIC METHOD CORR. (JG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL. A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
AUG	0831	10.0		3490		602		6.9		24.0		--		7.2		45.3		18.3		53.5	
25...	0833	4.0		3490		599		7.0		24.0		--		7.2		47.5		16.9		55.0	
25...	0834	1.0		3490		590		7.0		24.0		--		7.3		47.5		16.9		55.0	
25...	0835	--		3490		--		--		--		--		--		48.8		18.5		57.0	
25...	0845	--		50000		--		--		--		--		--		55.0		17.2		62.6	
25...	0850	23.0		4140		794		7.0		24.0		19.0		7.2		--		--		--	
25...	0852	11.0		4140		765		7.0		24.0		--		7.3		--		--		--	
25...	0854	1.0		4140		751		7.0		24.0		--		7.3		--		--		--	
25...	0855	--		4140		--		--		--		--		--		49.2		21.7		59.0	
25...	1950	5.0		1710		562		7.5		24.4		--		8.7		--		--		--	
25...	1952	1.0		1710		552		7.4		24.4		--		8.7		--		--		--	
25...	1953	--		1710		--		--		--		--		--		64.4		12.0		69.3	
25...	1955	22.0		2940		599		7.2		24.4		--		8.1		--		--		--	
25...	1957	10.0		2940		566		7.2		24.4		--		8.2		--		--		--	
25...	1959	4.0		2940		565		7.3		24.4		--		8.5		--		--		--	
25...	2001	1.0		2940		567		7.4		24.4		--		8.5		--		--		--	
25...	2002	--		2940		--		--		--		--		--		61.2		15.4		67.8	
25...	2015	--		50000		--		--		--		--		--		60.0		15.4		66.6	
25...	2017	35.0		3490		755		7.2		24.2		--		7.8		58.6		25.9		70.4	
25...	2019	28.0		3490		754		7.5		24.3		--		8.5		56.9		20.6		66.1	
25...	2021	20.0		3490		759		7.8		24.2		--		8.8		56.6		16.3		63.7	
25...	2023	10.0		3490		775		7.8		24.4		--		8.8		57.6		16.8		64.9	
25...	2025	4.0		3490		792		8.1		24.5		--		9.5		65.6		11.6		70.3	
25...	2027	1.0		3490		792		8.7		24.5		--		9.5		61.4		12.6		66.7	
25...	2028	--		3490		--		--		--		--		--		55.7		17.3		63.3	
25...	2030	19.0		4140		709		7.7		24.4		--		8.9		--		--		--	
25...	2032	10.0		4140		670		7.8		24.5		--		9.0		--		--		--	
25...	2034	4.0		4140		580		7.7		24.4		--		9.0		--		--		--	
25...	2036	1.0		4140		514		7.4		24.4		--		8.7		--		--		--	
25...	2037	--		4140		--		--		--		--		--		64.0		17.4		71.5	
26...	0820	4.0		1710		771		6.9		23.8		13.0		7.1		--		--		--	
26...	0822	1.0		1710		776		7.0		23.8		--		7.2		--		--		--	
26...	0824	--		1710		--		--		--		--		--		48.1		19.6		56.9	
26...	0825	24.0		2940		1050		7.0		23.8		18.0		6.7		--		--		--	
26...	0827	12.0		2940		850		7.0		23.9		--		6.9		--		--		--	
26...	0829	1.0		2940		786		7.1		23.9		--		7.4		--		--		--	
26...	0830	--		2940		--		--		--		--		--		43.5		17.8		51.5	
26...	0835	33.0		3490		1170		7.1		23.9		18.0		7.0		48.8		32.4		63.8	
26...	0837	28.0		3490		1130		7.1		24.0		--		7.1		53.6		28.4		66.7	

383818077072800 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHQS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A METRIC METHOD UNCORR. (UG/L) (32217)
AUG											
26...	0839	20.0	3490	1030	7.3	23.9	--	7.4	55.5	26.7	67.6
26...	0841	10.0	3490	860	7.1	23.9	--	7.2	52.5	18.7	60.9
26...	0843	4.0	3490	790	7.0	23.9	--	7.2	48.2	19.7	57.0
26...	0844	1.0	3490	741	7.0	23.9	--	7.3	47.0	19.0	55.5
26...	0845	--	3490	--	--	--	--	--	53.8	18.1	61.8
26...	0900	--	50000	--	--	--	--	--	51.2	20.9	60.6
26...	0902	27.0	4140	892	7.2	23.8	17.0	7.5	--	--	--
26...	0904	11.0	4140	870	7.2	23.9	--	7.3	--	--	--
26...	0906	1.0	4140	649	7.1	24.0	--	7.4	--	--	--
26...	0907	--	4140	--	--	--	--	--	55.9	30.8	70.0
26...	1900	9.0	1710	1800	7.7	24.9	19.0	9.0	--	--	--
26...	1902	4.0	1710	1710	7.7	24.9	--	9.0	--	--	--
26...	1904	1.0	1710	1720	7.7	24.9	--	9.0	--	--	--
26...	1905	--	1710	--	--	--	--	--	52.3	11.9	57.4
26...	1906	23.0	2940	2100	6.9	24.4	20.0	6.3	--	--	--
26...	1908	10.0	2940	1610	7.1	24.6	--	7.7	--	--	--
26...	1910	4.0	2940	1590	7.7	24.9	--	9.0	--	--	--
26...	1912	1.0	2940	1500	7.9	24.9	--	9.3	--	--	--
26...	1915	--	2940	--	--	--	--	--	54.1	12.6	59.5
26...	1919	33.0	3490	--	--	--	--	--	39.7	18.3	48.0
26...	1920	--	50000	--	--	--	--	--	58.4	8.8	61.9
26...	1921	39.0	3490	2220	6.8	24.3	--	6.1	--	--	--
26...	1922	28.0	3490	1850	6.9	24.4	--	6.8	39.0	15.6	46.0
26...	1924	20.0	3490	1500	7.1	24.6	--	7.6	47.7	14.7	54.1
26...	1926	10.0	3490	1400	7.8	24.7	--	8.9	58.9	11.1	63.4
26...	1928	4.0	3490	1350	7.9	24.7	--	9.1	59.4	11.9	64.4
26...	1930	1.0	3490	1350	7.9	24.6	--	9.2	61.0	11.1	65.5
26...	1932	--	3490	--	--	--	--	--	49.3	14.2	55.4
26...	1935	19.0	4140	1730	7.0	24.4	--	6.8	--	--	--
26...	1937	10.0	4140	1480	7.4	24.5	--	8.0	--	--	--
26...	1939	4.0	4140	1320	8.2	24.8	--	9.9	--	--	--
26...	1941	1.0	4140	1220	8.3	24.9	--	10.4	--	--	--
26...	1942	--	4140	--	--	--	--	--	62.1	13.6	67.8
SEP											
03...	1000	35.0	4020	1890	7.0	25.0	--	6.3	50.0	29.3	63.5
03...	1002	21.0	4020	1690	6.9	25.1	--	6.4	53.2	17.9	61.1
03...	1004	11.0	4020	1640	6.9	25.1	--	6.5	--	--	--
03...	1006	4.0	4020	1730	6.9	25.1	--	6.6	60.0	18.5	68.1
03...	1008	1.0	4020	--	--	--	--	--	74.2	17.9	81.9
10...	0922	36.0	4020	1350	6.8	23.9	23.0	6.0	33.1	26.7	45.6

38381R077072900 - POTOMAC RIVER AT HALLOWING POINT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	LOC- TION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (JG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
SEP											
10...	0924	29.0	4020	1340	6.8	23.9	--	5.9	40.0	19.8	49.0
10...	0926	19.0	4020	1220	6.8	23.9	--	5.8	37.5	17.4	45.4
10...	0928	13.0	4020	1080	6.8	23.9	--	5.6	37.5	18.6	46.0
10...	0930	6.0	4020	1050	6.8	23.9	--	5.5	35.1	18.0	43.4
10...	0932	1.5	4020	851	6.8	23.9	--	5.5	37.0	15.5	44.0
10...	0935	--	1710	--	--	--	--	--	38.8	18.7	47.3
10...	0940	--	4140	--	--	--	--	--	40.4	19.0	49.1
10...	0902	38.0	4020	1140	6.7	24.1	--	6.5	50.4	24.9	61.8
16...	0904	25.0	4020	1070	6.5	24.3	--	6.5	48.6	22.0	58.6
16...	0906	15.0	4020	930	6.5	24.5	--	6.3	42.8	22.2	52.9
16...	0908	8.0	4020	950	6.5	24.6	--	6.1	38.4	23.9	49.4
16...	0910	3.0	4020	942	6.5	24.6	--	6.1	38.6	22.1	48.8
16...	0915	--	1710	--	--	--	--	--	41.2	20.6	50.6
16...	0920	--	4140	--	--	--	--	--	80.0	21.9	89.5
22...	0815	--	1710	--	--	--	--	--	30.2	19.6	39.3
22...	0827	33.0	4020	706	7.1	21.5	20.0	6.5	25.1	38.2	43.3
22...	0829	26.0	4020	697	7.1	21.5	--	6.5	24.0	26.5	36.6
22...	0831	19.0	4020	681	7.1	21.5	--	6.4	21.5	24.3	33.0
22...	0833	13.0	4020	677	7.1	21.5	--	6.4	22.6	25.1	34.5
22...	0835	6.0	4020	650	7.1	21.5	--	6.4	18.5	18.1	27.0
22...	0837	1.5	4020	647	7.1	21.5	--	6.4	18.6	17.9	27.0
22...	0840	--	4140	--	--	--	--	--	22.8	28.5	36.3

01655480 - POTOMAC R AT INDIAN HEAD, MD
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
OCT											
02...	1740	23.0	1200	1302	6.7	22.4	22.0	5.9	29.5	28.7	43.0
02...	1742	12.0	1200	1016	6.6	22.3	---	5.4	29.0	17.2	36.9
02...	1744	6.0	1200	925	6.7	22.5	---	6.0	32.8	15.7	40.0
02...	1746	1.0	1200	893	6.8	22.6	---	6.3	34.1	16.5	41.6
02...	1750	38.0	2340	977	6.6	22.2	---	5.2	---	---	---
02...	1752	18.0	2340	817	6.6	22.1	---	4.9	---	---	---
02...	1754	1.0	2340	751	6.8	22.2	---	5.7	---	---	---
02...	1755	---	2340	---	---	---	---	---	---	---	---
02...	1800	---	50000	---	---	---	---	---	28.6	22.4	39.1
02...	1805	13.0	3490	783	6.8	22.4	19.0	6.3	33.3	22.7	43.9
02...	1807	1.0	3490	710	6.8	22.3	---	6.1	---	---	---
02...	1808	---	3490	---	---	---	---	---	36.0	20.3	45.3
02...	1810	11.0	5420	702	6.9	22.2	19.0	6.8	---	---	---
02...	1812	1.0	5420	701	6.8	22.2	---	6.8	---	---	---
02...	1815	---	5420	---	---	---	---	---	45.4	25.5	57.1
03...	0800	21.0	1200	810	6.2	20.9	18.0	5.7	27.5	28.6	41.0
03...	0802	12.0	1200	786	6.2	20.9	---	5.6	28.1	26.0	40.3
03...	0804	6.0	1200	768	6.2	20.9	---	5.6	26.0	20.0	35.4
03...	0806	1.0	1200	731	6.3	20.8	---	5.7	27.2	17.7	35.4
03...	0808	---	2340	---	---	---	---	---	33.8	23.5	44.7
03...	0810	36.0	2340	611	6.2	20.8	16.0	5.4	---	---	---
03...	0812	18.0	2340	601	6.2	20.9	---	5.6	---	---	---
03...	0814	1.0	2340	642	6.2	20.7	---	5.6	---	---	---
03...	0820	---	3490	---	---	---	---	---	33.3	23.3	44.2
03...	0825	9.0	3490	599	6.2	20.6	17.0	5.6	---	---	---
03...	0827	1.0	3490	594	6.2	20.7	---	5.7	---	---	---
03...	0835	11.0	5420	621	6.2	20.9	---	6.7	---	---	---
03...	0837	1.0	5420	625	6.4	20.9	16.0	6.7	---	---	---
03...	0840	---	5420	---	---	---	---	---	41.2	25.5	52.9
03...	0850	---	50000	---	---	---	---	---	36.7	25.1	48.3
21...	1202	23.0	1200	571	7.0	17.2	18.0	8.4	38.8	27.8	51.8
21...	1204	13.0	1200	572	7.1	17.1	---	8.5	48.6	24.9	60.0
21...	1206	6.0	1200	570	7.0	17.1	---	8.5	47.5	25.2	59.1
21...	1208	1.0	1200	567	7.1	17.2	---	8.8	40.2	21.0	49.8
21...	1220	6.0	5420	915	8.8	16.9	12.0	10.5	---	---	---
21...	1222	1.0	5420	915	8.8	16.9	---	10.5	---	---	---
21...	1225	---	5420	---	---	---	---	---	95.6	22.3	105
21...	1235	9.0	3490	592	7.6	17.1	12.0	9.6	---	---	---
21...	1237	1.0	3490	609	7.7	16.9	---	9.8	---	---	---

01655480 -- POTOMAC R AT INDIAN HEAD, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (JG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
OCT											
21...	1240	--	3430	--	--	--	--	--	50.3	28.4	63.4
21...	1245	38.0	2340	560	7.2	17.1	18.0	8.7	44.0	25.0	55.5
21...	1247	20.0	2340	559	7.1	17.1	--	8.6	45.5	20.5	54.8
21...	1249	6.0	2340	559	7.1	17.1	--	8.6	47.0	22.0	57.0
21...	1251	1.0	2340	553	7.1	17.2	--	8.7	43.8	20.5	53.1
21...	1255	--	50000	--	--	--	--	--	54.2	18.3	62.3
NOV											
18...	1000	--	50000	--	--	--	--	--	25.0	12.5	30.7
18...	1005	26.0	1200	4200	7.6	9.1	25.0	9.5	23.1	12.0	28.6
18...	1007	13.0	1200	3900	7.6	9.0	--	9.6	21.8	12.1	27.3
18...	1009	6.0	1200	2800	7.7	8.7	--	10.0	22.0	12.8	27.8
18...	1011	2.0	1200	2000	7.8	8.5	--	10.3	20.1	9.9	24.6
18...	1030	36.0	2340	5600	7.5	9.4	31.0	9.3	22.8	17.7	31.0
18...	1032	18.0	2340	3900	7.6	9.1	--	9.6	22.5	14.1	29.0
18...	1034	2.0	2340	1900	7.8	8.5	25.0	10.4	22.0	9.4	26.2
18...	1045	10.0	3430	2700	7.8	8.5	--	10.3	--	--	--
18...	1047	2.0	3430	2700	7.8	8.5	--	10.4	--	--	--
18...	1048	--	3430	--	--	--	--	--	26.9	12.5	32.6
18...	1049	--	5420	--	--	--	--	--	30.5	13.8	36.8
18...	1050	10.0	5420	3100	7.7	8.8	28.0	10.0	--	--	--
18...	1052	2.00	5420	2400	7.8	8.5	--	10.4	--	--	--
DEC											
16...	1100	--	1200	--	--	--	--	--	18.1	16.0	25.6
16...	1105	35.0	1200	807	7.9	5.2	18.0	11.3	21.7	31.0	36.5
16...	1107	20.0	1200	798	7.9	5.2	--	11.3	17.1	17.0	25.1
16...	1109	13.0	1200	756	7.9	5.3	--	11.4	17.8	13.1	23.9
16...	1111	6.0	1200	726	7.9	5.2	--	11.4	17.5	13.9	24.0
16...	1113	1.0	1200	714	7.9	5.3	--	11.4	16.3	14.0	22.9
16...	1120	--	50000	--	--	--	--	--	18.9	14.8	25.8
16...	1124	--	2340	--	--	--	--	--	19.5	20.2	29.0
16...	1125	39.0	2340	773	7.9	5.2	23.0	11.4	--	--	--
16...	1127	18.0	2340	770	7.9	5.2	--	11.3	--	--	--
16...	1129	1.0	2340	711	7.9	5.3	--	11.5	--	--	--
16...	1137	10.0	3430	695	7.9	5.2	23.0	11.4	17.9	15.1	25.0
16...	1139	1.0	3430	698	7.9	5.2	--	11.5	--	--	--
16...	1145	12.0	5420	972	8.1	4.5	26.0	11.9	21.6	13.6	27.9
16...	1147	1.0	5420	837	8.0	4.8	--	11.8	19.3	12.2	24.9
16...	1150	--	5420	--	--	--	--	--	20.2	13.0	26.2
FER											
03...	1425	29.0	1500	2710	7.8	1.2	--	12.1	--	--	--
03...	1427	15.0	1500	2500	7.8	1.2	--	12.1	--	--	--
03...	1429	3.0	1500	2290	7.8	1.2	--	12.0	6.8	5.3	9.4

01655480 -- POTOMAC R AT INDIAN HEAD, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
FER											
04...	1155	--	1500	--	--	--	--	--	10.0	7.3	13.4
04...	1200	39.0	1500	3090	8.0	.8	26.0	12.2	11.2	16.3	19.0
04...	1202	25.0	1500	3060	8.0	.9	--	11.8	11.5	15.8	19.0
04...	1204	15.0	1500	3030	8.0	.9	--	11.7	9.7	10.2	14.5
04...	1206	7.0	1500	2940	8.0	.9	--	11.6	8.8	6.3	11.7
04...	1208	2.0	1500	2960	8.0	.9	--	11.5	8.8	6.4	11.8
04...	1217	10.0	5300	3360	8.1	.6	24.0	11.7	13.5	5.6	16.0
04...	1219	2.0	5300	3350	8.1	.7	--	11.4	12.5	5.6	15.5
04...	1220	--	5300	--	--	--	--	--	13.6	5.1	15.9
11...	1550	39.0	1500	3350	7.6	1.8	--	11.1	12.3	6.8	15.4
11...	1552	25.0	1500	3250	7.8	1.7	--	11.8	11.6	4.7	13.7
11...	1554	15.0	1500	--	--	--	--	--	9.5	5.1	11.8
11...	1556	7.0	1500	--	--	--	--	--	9.3	4.9	11.6
11...	1558	2.0	1500	--	--	--	--	--	8.5	4.2	10.4
17...	1210	37.0	1500	616	7.3	3.4	18.0	11.0	11.4	16.8	19.4
17...	1212	25.0	1500	604	7.2	3.4	--	11.0	10.4	10.5	15.4
17...	1214	15.0	1500	592	7.2	3.4	--	10.9	9.8	9.3	14.2
17...	1216	7.0	1500	586	7.2	3.4	--	11.0	10.2	6.9	13.4
17...	1218	2.0	1500	575	7.2	3.4	--	11.0	10.3	7.8	13.9
1600	1600	37.0	1500	290	7.0	7.9	--	9.0	25.7	36.1	42.8
24...	1602	20.0	1500	288	7.0	7.9	--	9.0	14.8	12.2	20.4
24...	1604	12.0	1500	290	7.0	8.0	--	8.9	13.4	8.9	17.6
24...	1606	2.0	1500	295	7.1	8.0	--	8.9	11.3	8.2	15.1
MAQ											
04...	0735	--	1500	--	--	--	--	--	3.5	6.4	6.6
04...	0740	38.0	1500	198	7.7	7.1	11.0	11.4	3.8	7.6	7.4
04...	0742	23.0	1500	197	7.7	7.1	--	11.3	3.4	6.6	6.5
04...	0744	12.0	1500	196	7.7	7.1	--	11.3	3.1	6.6	6.2
04...	0746	2.0	1500	194	7.7	7.0	--	11.3	3.1	6.3	6.2
04...	0751	11.0	5300	328	7.7	6.7	--	12.1	7.4	11.6	12.9
04...	0752	2.0	5300	298	7.7	6.7	--	11.4	5.8	7.80	9.5
18...	0828	3.0	1500	--	--	--	--	--	7.0	8.80	11.1
24...	1230	40.0	1500	314	7.5	5.3	--	10.1	3.5	13.9	10.2
24...	1232	30.0	1500	318	7.5	5.3	--	10.1	--	--	--
24...	1234	20.0	1500	312	7.5	5.5	--	10.2	3.5	11.1	8.8
24...	1236	10.0	1500	310	7.6	5.4	--	10.0	--	--	--
24...	1238	2.0	1500	306	7.6	5.7	--	10.1	3.3	9.4	7.8
APR											
01...	1530	35.0	1500	369	7.4	10.2	20.0	9.7	4.9	11.0	10.1
01...	1532	30.0	1500	363	7.4	10.1	--	9.6	--	--	--
01...	1534	20.0	1500	360	7.4	10.2	--	9.6	4.9	8.3	8.8

01655480 - POTOMAC R AT INDIAN HEAD, MD ---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
APR											
01...	1536	10.0	1500	347	7.4	10.2	--	9.6	--	--	--
01...	1538	2.0	1500	348	7.4	10.6	--	9.6	4.5	5.4	7.0
09...	1410	41.0	1500	377	7.2	13.9	--	8.3	13.3	28.2	26.8
09...	1412	30.0	1500	377	7.2	13.9	--	8.3	--	--	--
09...	1414	20.0	1500	377	7.3	14.0	--	8.3	11.9	16.1	19.5
09...	1416	10.0	1500	377	7.3	14.0	--	8.3	--	--	--
09...	1418	3.0	1500	377	7.3	14.0	--	8.4	10.1	15.2	17.4
15...	1002	37.0	1500	312	7.2	14.5	6.0	7.5	15.5	71.2	49.8
15...	1004	25.0	1500	309	7.2	14.5	--	7.5	10.4	31.2	25.4
15...	1006	15.0	1500	309	7.2	14.5	--	7.6	9.7	19.4	19.0
15...	1008	2.0	1500	309	7.2	14.5	--	7.6	7.3	19.0	16.4
15...	1020	12.0	5300	330	7.2	14.2	7.0	7.9	7.8	26.5	20.6
15...	1022	2.0	5300	333	7.2	14.1	--	8.0	6.6	16.4	14.4
MAY											
19...	1026	40.0	1500	263	7.3	18.3	16.0	7.2	22.8	20.3	32.3
19...	1027	30.0	1500	263	7.3	18.3	--	7.2	21.4	15.8	28.7
19...	1029	20.0	1500	263	7.3	18.3	--	7.2	22.4	15.2	29.4
19...	1031	10.0	1500	263	7.3	18.3	--	7.2	23.6	13.8	30.0
19...	1033	2.0	1500	263	7.3	18.3	--	7.2	22.1	14.6	28.8
19...	1042	12.0	1500	259	7.3	18.1	12.0	7.3	23.1	16.7	30.9
19...	1044	2.0	1500	259	7.3	18.1	--	7.4	24.0	13.1	30.0
JUN											
01...	1725	42.0	1500	249	7.2	23.3	12.0	7.0	40.0	34.2	56.0
01...	1727	30.0	1500	249	7.2	23.4	--	7.0	38.8	15.4	45.7
01...	1729	20.0	1500	249	7.2	23.4	--	7.0	37.8	12.3	43.2
01...	1731	10.0	1500	249	7.2	23.4	--	7.0	32.3	11.6	37.5
01...	1733	2.0	1500	249	7.2	23.4	--	7.0	33.5	11.1	38.4
01...	1735	2.0	5300	251	7.6	23.1	12.0	8.5	67.2	8.2	70.2
04...	0620	2.0	1500	--	--	--	--	--	9.8	9.9	14.4
04...	0622	12.0	1500	--	--	--	--	--	14.1	13.1	20.3
04...	0624	24.0	1500	--	--	--	--	--	15.5	13.9	22.0
04...	0626	36.0	1500	--	--	--	--	--	9.5	25.0	21.5
05...	0200	2.0	1500	--	--	--	--	--	1.8	9.2	6.3
05...	0202	10.0	1500	--	--	--	--	--	18.3	11.2	23.4
05...	0204	18.0	1500	--	--	--	--	--	15.0	14.1	21.6
05...	0206	26.0	1500	--	--	--	--	--	7.5	20.4	17.3
05...	0208	34.0	1500	--	--	--	--	--	4.9	11.4	10.4
05...	0209	37.0	1500	--	--	--	--	--	9.9	33.7	26.1
08...	1125	--	1500	--	--	--	--	--	18.7	7.8	22.2
08...	1200	--	5300	--	--	--	--	--	48.6	13.2	54.3
24...	1100	--	1500	--	--	--	--	--	23.9	8.2	27.5

01655480 -- POTOMAC R AT INDIAN HEAD, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECHI DISK) (1N)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUN											
24...	1102	--	5300	--	--	--	--	--	78.2	29.9	91.6
30...	1322	39.0	1500	215	6.7	27.2	19.0	7.1	30.0	17.9	38.3
30...	1324	30.0	1500	215	6.7	27.1	--	7.0	30.8	11.7	36.0
30...	1326	23.0	1500	215	6.7	27.1	--	6.9	29.0	9.9	33.4
30...	1328	15.0	1500	215	6.6	27.1	--	6.9	27.7	9.9	32.1
30...	1330	7.0	1500	214	6.6	27.3	--	7.0	25.9	9.2	30.0
30...	1332	2.0	1500	214	6.7	27.6	--	7.6	29.5	6.4	32.2
30...	1341	7.0	5300	217	8.3	27.2	17.0	9.4	73.8	12.9	79.0
30...	1342	2.0	5300	215	9.1	28.2	--	10.1	57.7	7.3	60.4
JUL											
08...	1625	--	1200	--	--	--	--	--	24.9	12.1	30.4
08...	1630	26.0	1200	231	6.8	26.9	24.0	5.5	--	--	--
08...	1632	12.0	1200	230	6.7	27.0	--	6.0	--	--	--
08...	1634	6.0	1200	232	6.9	28.0	--	7.6	--	--	--
08...	1636	2.0	1200	233	7.0	28.2	--	7.9	--	--	--
08...	1640	--	50000	--	--	--	--	--	38.7	11.1	43.5
08...	1642	--	2340	--	--	--	--	--	27.3	7.1	30.3
08...	1643	38.0	2340	231	6.7	26.9	--	5.8	27.2	12.8	33.1
08...	1644	28.0	3430	230	6.6	27.0	--	5.9	26.8	11.3	31.9
08...	1646	16.0	2340	230	6.6	27.0	--	6.0	26.5	9.9	30.9
08...	1648	7.0	2340	232	6.8	27.9	--	7.3	31.2	7.0	34.1
08...	1650	2.0	2340	233	6.9	28.1	25.0	7.6	27.9	7.2	31.0
08...	1652	--	3490	--	--	--	--	--	60.0	7.7	62.9
08...	1655	9.0	3490	227	7.4	27.6	19.0	8.4	--	--	--
08...	1657	2.0	3490	226	8.1	27.9	--	9.3	--	--	--
08...	1700	9.0	5420	222	7.8	27.3	--	8.5	--	--	--
08...	1701	6.0	5420	222	8.4	27.4	--	8.8	--	--	--
08...	1702	4.0	5420	220	8.4	27.7	18.0	10.5	--	--	--
08...	1704	2.0	5420	219	8.8	28.0	--	11.1	--	--	--
08...	1705	--	5420	--	--	--	--	--	78.3	13.2	83.6
15...	1500	3.0	1200	260	7.5	29.1	--	7.8	38.1	9.4	42.1
20...	1120	--	50000	--	--	--	--	--	52.2	20.1	61.2
20...	1124	--	1200	--	--	--	--	--	46.2	15.1	52.8
20...	1125	28.0	1200	495	7.4	28.1	28.0	6.7	--	--	--
20...	1127	14.0	1200	459	7.3	28.1	--	6.7	--	--	--
20...	1129	1.0	1200	324	7.3	28.2	--	7.2	--	--	--
20...	1130	39.0	2340	619	7.4	28.1	30.0	6.9	46.7	18.0	54.8
20...	1132	28.0	2340	526	7.4	29.1	--	6.7	44.1	20.7	53.5
20...	1134	18.0	2340	478	7.3	28.1	--	6.6	41.7	19.6	50.6
20...	1136	8.0	2340	316	7.2	28.3	--	6.9	42.3	13.9	48.4

APPENDIX A-2

01655480 - POTOMAC R AT INDIAN HEAD, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING DEPTH (FT)	SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JM+OS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL												
20...	1138	1.0	2340	299	7.2	28.4	--	--	7.2	42.5	14.8	49.1
20...	1139	--	2340	--	--	--	--	--	--	46.9	12.4	52.2
20...	1140	11.0	3480	246	7.9	28.2	18.0	--	7.8	--	--	--
20...	1142	1.0	3480	245	8.2	28.3	--	--	8.1	--	--	--
20...	1143	--	3480	--	--	--	--	--	--	69.0	16.5	76.0
20...	1145	7.0	5420	229	9.1	28.3	--	--	8.4	--	--	--
20...	1147	1.0	5420	230	9.2	28.4	--	--	8.8	--	--	--
20...	1150	--	5420	--	--	--	--	--	--	108	33.2	123
20...	1935	--	1200	--	--	--	--	--	--	32.1	18.6	40.7
20...	1940	25.0	1200	247	6.8	28.6	19.0	--	6.9	--	--	--
20...	1942	13.0	1200	247	6.8	28.6	--	--	7.0	--	--	--
20...	1944	1.0	1200	243	6.8	28.8	--	--	7.5	--	--	--
20...	1950	--	50000	--	--	--	--	--	--	57.2	22.7	67.4
20...	1951	--	2340	--	--	--	--	--	--	42.6	15.5	49.5
20...	1952	39.0	2340	243	6.7	28.8	22.0	--	7.2	33.3	13.8	39.4
20...	1954	28.0	2340	243	6.8	28.8	--	--	7.2	36.0	14.5	42.5
20...	1955	18.0	2340	243	7.0	28.9	--	--	7.7	38.9	12.6	44.4
20...	1957	8.0	2340	243	7.0	28.9	--	--	7.8	44.8	13.9	50.8
20...	1959	1.0	2340	243	7.0	29.0	--	--	7.9	45.6	14.2	51.9
20...	2000	10.0	3480	239	8.4	28.8	--	--	9.1	--	--	--
20...	2002	1.0	3480	239	8.4	28.8	--	--	9.2	75.7	24.3	86.4
20...	2003	--	3480	--	--	--	--	--	--	--	--	--
20...	2005	14.0	5420	234	8.9	29.0	--	--	9.2	--	--	--
20...	2007	1.0	5420	234	8.9	29.0	--	--	9.2	--	--	--
20...	2010	--	5420	--	--	--	--	--	--	95.8	23.8	106
21...	0725	--	1200	--	--	--	--	--	--	28.7	13.9	35.0
21...	0730	28.0	1200	278	7.0	28.4	22.0	--	6.4	--	--	--
21...	0732	15.0	1200	242	6.9	28.5	--	--	6.5	--	--	--
21...	0734	1.0	1200	242	6.8	28.5	--	--	6.5	--	--	--
21...	0741	--	2340	--	--	--	--	--	--	32.5	20.7	42.1
21...	0742	39.0	2340	288	6.8	28.4	24.0	--	6.4	34.0	29.4	47.8
21...	0744	28.0	2340	243	7.0	28.5	--	--	6.8	40.3	19.2	49.0
21...	0745	--	50000	--	--	--	--	--	--	45.9	22.8	56.3
21...	0746	18.0	2340	241	6.9	28.6	--	--	6.6	30.8	10.0	35.2
21...	0747	8.0	2340	241	6.8	28.6	--	--	6.5	29.7	10.0	34.2
21...	0749	1.0	2340	241	6.8	28.6	--	--	6.5	26.9	13.7	33.2
21...	0755	11.0	3480	241	7.3	28.3	24.0	--	7.2	--	--	--
21...	0757	1.0	3480	241	7.4	28.3	--	--	7.2	--	--	--
21...	0758	--	3480	--	--	--	--	--	--	53.3	23.0	63.8

01655480 - POTOMAC R AT INDIAN HEAD, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL 21...	0800	12.0	5420	248	8.7	28.2	12.0	6.4	--	--	--
21...	0802	1.0	5420	244	8.7	28.2	--	6.3	--	--	--
21...	0805	--	5420	--	--	--	--	--	92.3	28.9	105
21...	1920	11.0	5420	254	8.3	28.9	17.0	8.1	--	--	--
21...	1922	5.0	5420	254	8.7	29.2	--	9.3	--	--	--
21...	1924	1.0	5420	254	8.8	29.4	--	9.8	--	--	--
21...	1925	--	5420	--	--	--	--	--	91.6	23.4	102
21...	1929	--	3480	--	--	--	--	--	68.6	13.1	73.9
21...	1930	9.0	3480	242	7.8	29.3	20.0	8.4	--	--	--
21...	1932	5.0	3480	243	7.9	29.3	--	8.7	--	--	--
21...	1934	1.0	3480	244	8.1	29.4	--	9.2	--	--	--
21...	1940	--	5000	--	--	--	--	--	55.2	17.6	62.9
21...	1941	--	2340	--	--	--	--	--	39.1	14.6	45.6
21...	1942	39.0	2340	241	6.8	29.1	26.0	6.6	47.6	15.4	54.3
21...	1944	28.0	2340	241	6.7	29.1	--	6.7	48.5	15.7	55.4
21...	1946	18.0	2340	241	6.7	29.1	--	6.5	41.1	15.2	47.9
21...	1948	8.0	2340	240	6.5	29.1	--	6.4	38.6	13.3	44.5
21...	1949	1.0	2340	240	6.7	29.3	--	7.3	40.3	9.9	44.5
21...	1950	23.0	1200	248	6.6	29.0	26.0	6.7	--	--	--
21...	1952	11.0	1200	243	6.6	29.1	--	7.0	--	--	--
21...	1954	1.0	1200	243	6.7	29.1	--	7.2	--	--	--
21...	1955	--	1200	--	--	--	--	--	37.5	13.8	43.7
21...	0755	--	1200	--	--	--	--	--	32.7	19.7	41.8
22...	0850	25.0	1200	249	6.7	28.4	22.0	6.3	--	--	--
22...	0852	12.0	1200	251	6.8	28.4	--	6.4	--	--	--
22...	0854	1.0	1200	249	6.8	28.3	--	6.4	--	--	--
22...	0855	--	2340	--	--	--	--	--	32.9	18.2	41.2
22...	0900	40.0	2340	244	6.7	28.7	24.0	6.0	34.5	30.4	48.8
22...	0902	28.0	2340	245	6.7	28.6	--	6.1	32.3	19.4	41.2
22...	0904	18.0	2340	245	6.7	28.6	--	6.2	32.2	15.6	39.3
22...	0906	8.0	2340	245	6.7	28.6	--	6.2	32.3	16.5	39.9
22...	0908	1.0	2340	245	6.7	28.6	--	6.3	35.9	13.8	42.1
22...	0909	--	3480	--	--	--	--	--	40.9	19.2	49.6
22...	0910	12.0	3480	242	6.9	28.2	19.0	6.6	--	--	--
22...	0912	1.0	3480	243	6.9	28.2	--	6.6	--	--	--
22...	0915	--	5000	--	--	--	--	--	40.2	15.2	47.0
22...	0919	--	5420	--	--	--	--	--	86.0	29.4	99.0
22...	0920	12.0	5420	282	8.4	27.9	--	7.4	--	--	--
22...	0922	1.0	5420	273	8.5	28.0	--	7.6	--	--	--

01655480 - POTOMAC R AT INDIAN HEAD, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL											
28...	0935	--	1500	--	--	--	--	--	32.3	15.0	39.1
28...	0940	39.0	1500	329	7.3	27.7	--	5.9	33.4	19.2	42.3
28...	0942	32.0	1500	327	7.2	27.7	--	5.9	34.4	20.3	43.8
28...	0944	19.0	1500	330	7.1	27.7	--	5.9	33.2	14.2	39.6
28...	0946	13.0	1500	328	7.1	27.7	--	5.9	28.6	12.6	34.3
28...	0948	6.0	1500	325	7.1	27.7	--	6.0	32.8	10.4	37.4
28...	0949	1.6	1500	323	7.1	27.7	--	6.1	34.4	10.2	38.9
28...	0956	10.0	5300	305	9.0	27.7	19.0	8.9	--	--	--
28...	0957	1.6	5300	303	8.9	27.7	--	8.9	--	--	--
28...	0959	--	5300	--	--	--	--	--	98.0	16.3	105
AUG											
06...	1640	--	1200	--	--	--	--	--	37.5	19.7	46.5
06...	1645	24.0	1200	404	6.8	27.5	19.0	6.0	--	--	--
06...	1647	12.0	1200	395	6.9	27.5	--	6.1	--	--	--
06...	1649	1.0	1200	385	6.8	27.5	--	6.2	--	--	--
06...	1650	36.0	2340	395	6.8	27.6	20.0	5.8	41.7	32.2	56.7
06...	1652	28.0	2340	397	6.8	27.6	--	5.9	38.5	17.9	46.6
06...	1654	19.0	2340	391	6.8	27.6	--	5.9	37.5	17.2	45.3
06...	1656	8.0	2340	388	6.8	27.6	--	5.9	37.5	15.0	44.2
06...	1658	1.0	2340	384	6.8	27.5	--	6.0	38.8	14.5	45.2
06...	1659	--	2340	--	--	--	--	--	33.6	19.7	42.7
06...	1705	--	3480	--	--	--	--	--	42.9	17.3	50.7
06...	1710	10.0	3480	357	6.9	27.4	19.0	6.5	--	--	--
06...	1712	1.0	3480	355	6.9	27.4	--	6.6	--	--	--
06...	1720	12.0	5420	411	8.6	27.5	18.0	7.4	--	--	--
06...	1722	6.0	5420	411	8.6	27.5	--	7.4	--	--	--
06...	1724	1.0	5420	412	8.6	27.4	--	7.5	--	--	--
06...	1725	--	5420	--	--	--	--	--	89.6	19.2	97.6
18...	0950	--	50000	--	--	--	--	--	47.8	16.4	55.0
18...	0951	--	1200	--	--	--	--	--	44.5	16.2	51.7
18...	0952	19.0	1200	1010	7.3	26.0	22.0	6.1	--	--	--
18...	0954	10.0	1200	845	7.4	26.2	--	6.3	--	--	--
18...	0956	1.6	1200	774	7.3	26.4	--	6.2	--	--	--
18...	0959	--	2340	--	--	--	--	--	40.9	18.3	49.1
18...	1000	36.0	2340	1079	7.3	26.2	17.0	6.1	40.6	21.9	50.7
18...	1002	32.0	2340	1066	7.3	26.3	--	6.0	41.7	18.7	50.2
18...	1004	19.0	2340	1063	7.3	26.3	--	6.0	38.8	17.1	46.6
18...	1006	13.0	2340	1039	7.3	26.4	--	5.9	42.0	15.7	49.0
18...	1008	6.0	2340	1030	7.3	26.4	--	6.0	37.9	18.5	46.3
18...	1010	1.6	2340	1012	7.3	26.4	--	6.0	39.6	16.7	47.2

01655480 -- POTOMAC R AT INDIAN HEAD, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG											
18...	1014	--	3490	--	--	--	--	--	55.7	18.2	63.7
18...	1015	13.0	3490	855	7.6	25.9	18.0	6.8	--	--	--
18...	1017	1.6	3490	698	7.4	26.5	--	6.6	--	--	--
18...	1020	10.0	5420	450	8.1	25.7	13.0	7.6	--	--	--
18...	1022	1.6	5420	441	8.3	25.7	--	8.1	--	--	--
18...	1025	--	5420	--	--	--	--	--	71.2	20.5	80.2
24...	2055	--	1200	--	--	--	--	--	37.2	18.1	45.5
24...	2100	23.0	1200	1128	6.5	24.2	--	6.1	--	--	--
24...	2102	17.0	1200	1680	6.6	24.2	--	6.2	--	--	--
24...	2104	10.0	1200	1521	6.6	24.2	--	6.4	--	--	--
24...	2106	4.0	1200	1115	6.7	24.5	--	7.5	--	--	--
24...	2108	1.0	1200	1095	6.7	24.5	--	7.8	--	--	--
24...	2110	--	5000	--	--	--	--	--	52.1	17.8	60.0
24...	2111	--	2340	--	--	--	--	--	40.0	16.4	47.4
24...	2112	40.0	2340	1615	6.7	24.3	--	6.7	42.4	18.3	50.7
24...	2114	20.0	2340	1250	6.7	24.4	--	7.1	--	--	--
24...	2116	10.0	2340	1210	6.7	24.4	--	7.2	41.7	17.3	49.4
24...	2118	4.0	2340	1250	6.6	24.3	--	6.8	39.0	15.6	46.0
24...	2120	1.0	2340	1110	6.5	24.3	--	7.0	39.5	16.1	46.8
24...	2125	--	3490	--	--	--	--	--	52.1	17.8	60.0
24...	2130	8.0	3490	1242	7.4	24.7	--	8.8	--	--	--
24...	2132	4.0	3490	1224	7.3	24.7	--	8.7	--	--	--
24...	2134	1.0	3490	1216	7.3	24.1	--	8.6	--	--	--
24...	2135	10.0	5420	1197	8.4	24.7	--	11.0	--	--	--
24...	2137	4.0	5420	1154	8.3	24.7	--	10.9	--	--	--
24...	2139	1.0	5420	1156	8.3	24.7	--	10.9	--	--	--
24...	2140	--	5420	--	--	--	--	--	93.4	10.9	97.4
25...	0910	--	1200	--	--	--	--	--	35.9	19.4	44.8
25...	0915	24.0	1200	1653	7.0	24.0	20.0	6.4	--	--	--
25...	0917	12.0	1200	1580	7.0	24.0	--	6.5	--	--	--
25...	0919	1.0	1200	1118	7.1	24.0	--	7.2	--	--	--
25...	0925	--	2340	--	--	--	--	--	43.2	16.0	50.3
25...	0930	33.0	2340	1307	7.0	24.0	19.0	6.8	38.1	23.0	48.8
25...	0932	10.0	2340	1190	7.0	24.0	--	6.8	37.8	18.1	46.0
25...	0934	4.0	2340	1120	7.0	24.0	--	7.1	38.5	17.2	46.3
25...	0936	1.0	2340	1110	7.1	24.0	--	7.2	39.6	17.7	47.7
25...	0940	--	3490	--	--	--	--	--	47.5	16.9	55.0
25...	0945	9.0	3490	1177	7.1	23.8	18.0	7.0	--	--	--
25...	0947	1.0	3490	1202	7.1	23.9	--	7.3	--	--	--

APPENDIX A-2

01655480 - POTOMAC R AT INDIAN HEAD, MD --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECKI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METCORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG											
25....	0955	7.0	5420	1290	8.3	24.0	17.0	9.3	--	--	--
25....	0957	1.0	5420	1280	8.4	24.0	--	9.6	--	--	--
25....	0958	--	5420	--	--	--	--	--	77.4	12.1	82.1
25....	1000	--	50000	--	--	--	--	--	51.4	17.0	58.9
25....	1845	--	5420	--	--	--	--	--	78.4	12.3	83.2
25....	1850	11.0	5420	1400	8.6	24.5	14.0	9.1	--	--	--
25....	1852	4.0	5420	1370	8.7	24.5	--	9.6	--	--	--
25....	1854	1.0	5420	1360	8.8	24.5	--	9.7	--	--	--
25....	1900	--	50000	--	--	--	--	--	51.3	15.2	58.0
25....	1901	--	3480	--	--	--	--	--	58.0	11.9	63.0
25....	1902	11.0	3490	2160	7.5	24.2	--	6.7	--	--	--
25....	1904	4.0	3490	1260	8.3	24.5	--	6.9	--	--	--
25....	1906	1.0	3490	1130	8.2	24.5	--	8.9	--	--	--
25....	1910	26.0	1200	2750	7.2	24.1	20.0	6.0	--	--	--
25....	1911	--	1200	--	--	--	--	--	41.2	17.8	49.3
25....	1912	18.0	1200	2600	7.3	24.1	--	6.4	--	--	--
25....	1914	10.0	1200	2250	7.3	24.2	--	6.9	--	--	--
25....	1916	4.0	1200	1880	7.7	24.5	--	8.3	--	--	--
25....	1918	1.0	1200	1600	7.8	24.5	--	8.5	--	--	--
25....	1919	--	2340	--	--	--	--	--	42.0	16.4	49.3
25....	1920	40.0	2340	3100	7.1	24.0	--	5.6	33.0	23.0	43.7
25....	1922	20.0	2340	2570	7.2	24.0	--	6.1	--	--	--
25....	1924	10.0	2340	1810	7.4	24.2	--	7.5	44.9	11.8	50.0
25....	1926	4.0	2340	1420	8.1	24.7	--	9.3	58.0	11.4	62.7
25....	1928	1.0	2340	1340	8.2	24.7	--	9.4	56.4	12.6	61.7
26....	0920	--	1200	--	--	--	--	--	36.2	23.5	47.1
26....	0925	23.0	1200	1875	7.1	23.9	17.0	6.2	--	--	--
26....	0927	12.0	1200	1854	7.1	23.9	--	6.2	--	--	--
26....	0929	1.0	1200	1660	7.2	23.8	--	6.9	--	--	--
26....	0930	36.0	2340	1790	7.1	23.9	19.0	6.3	35.9	25.9	47.9
26....	0932	10.0	2340	1684	7.1	23.8	--	6.4	38.5	17.5	46.5
26....	0934	4.0	2340	1400	7.2	23.8	--	6.8	37.1	18.7	45.6
26....	0936	1.0	2340	1297	7.5	23.9	--	7.5	45.9	15.2	52.6
26....	0937	--	2340	--	--	--	--	--	39.7	19.8	48.8
26....	0940	9.0	3490	1120	7.2	23.6	17.0	6.9	--	--	--
26....	0942	1.0	3480	1071	7.4	23.8	--	7.6	--	--	--
26....	0945	--	3490	--	--	--	--	--	51.2	23.4	61.9
26....	0950	9.0	5420	1275	7.9	23.7	14.0	7.9	--	--	--
26....	0952	1.0	5420	1250	8.1	23.9	--	8.5	--	--	--

01655480 - POTOMAC R AT INDIAN HEAD, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LCC- SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00095)	(00077)	(00010)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG											
26...	0955	--	5420	--	--	--	--	--	65.4	21.0	74.7
26...	1015	--	50000	--	--	--	--	--	47.7	21.2	57.3
26...	1804	--	5420	--	--	--	--	--	75.9	11.0	80.2
26...	1805	10.0	5420	1620	8.4	24.7	15.0	9.2	--	--	--
26...	1807	4.0	5420	1740	8.6	25.0	--	11.0	--	--	--
26...	1809	1.0	5420	1650	8.7	25.2	--	11.5	--	--	--
26...	1814	--	3490	--	--	--	--	--	62.2	14.1	68.1
26...	1815	12.0	3490	4400	7.2	24.4	14.0	5.8	--	--	--
26...	1816	4.0	3490	2110	8.4	25.1	--	10.4	--	--	--
26...	1818	1.0	3490	2060	8.4	25.1	--	10.4	--	--	--
26...	1819	--	1200	--	--	--	--	--	45.0	17.3	52.7
26...	1820	26.0	1200	4440	7.2	24.4	18.0	6.1	--	--	--
26...	1822	20.0	1200	4440	7.2	24.4	--	6.1	--	--	--
26...	1824	10.0	1200	4160	8.2	25.2	--	9.3	--	--	--
26...	1826	4.0	1200	2850	8.4	25.2	--	10.4	--	--	--
26...	1828	1.0	1200	2790	8.5	25.4	--	11.1	--	--	--
26...	1835	--	50000	--	--	--	--	--	55.3	15.5	62.1
26...	1837	43.0	2340	4420	7.2	24.4	18.0	6.2	28.9	18.8	37.6
26...	1839	20.0	2340	4070	7.4	24.6	--	7.4	--	--	--
26...	1841	10.0	2340	3450	7.5	24.5	--	7.1	41.6	19.8	50.6
26...	1843	4.0	2340	2790	8.5	25.4	--	10.7	59.5	12.8	64.8
26...	1845	1.0	2340	2780	8.5	25.4	--	10.8	61.6	13.1	67.1
26...	1850	--	2340	--	--	--	--	--	41.0	17.0	48.7
SEP											
10...	0955	4.0	2340	1727	6.8	24.2	--	5.5	--	--	--
10...	0956	--	2340	--	--	--	--	--	34.8	19.0	43.5
10...	1000	--	5420	--	--	--	--	--	52.7	19.5	61.4
16...	0830	3.0	2340	1853	6.7	24.0	--	6.0	--	--	--
16...	0831	--	2340	--	--	--	--	--	38.9	25.3	50.6
16...	0835	3.0	5420	1778	6.9	23.8	--	6.9	--	--	--
16...	0836	--	5420	--	--	--	--	--	54.4	24.4	65.4
22...	0740	36.0	1500	1030	7.3	21.4	18.0	6.6	27.8	33.8	43.8
22...	0741	19.0	1500	1030	7.3	21.5	--	6.5	26.4	33.4	42.2
22...	0743	22.0	1500	1020	7.3	21.5	--	6.6	25.8	27.3	38.7
22...	0746	13.0	1500	1020	7.3	21.5	--	6.5	26.1	25.0	37.9
22...	0748	6.0	1500	1010	7.3	21.5	--	6.5	25.0	22.3	35.5
22...	0750	1.6	1500	1000	7.3	21.5	--	6.6	25.6	21.4	35.6
22...	0805	6.0	5300	1220	7.5	21.3	17.0	7.6	40.0	24.7	51.4
22...	0807	1.6	5300	1210	7.5	21.3	--	7.6	37.8	24.6	49.2

APPENDIX A-2

01558710 - POTOMAC RIVER AT QUANTICO, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR.	(JG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
02...	1840	--	--	2300	--	--	--	--	--	--	--	--	--	--	--	27.2	12.8	33.0	--	--	--	
02...	1845	21.0	2300	4680	--	7.2	--	7.2	22.1	--	--	--	--	7.1	--	--	--	--	--	--	--	
02...	1847	12.0	2300	4610	--	7.3	--	7.3	22.3	--	--	--	--	7.1	--	--	--	--	--	--	--	
02...	1848	1.0	2300	4590	--	7.3	--	7.3	22.1	--	--	--	--	--	--	22.4	12.7	28.2	--	--	--	
02...	1850	--	50000	--	--	--	--	--	--	--	--	--	--	--	--	18.6	11.2	23.8	--	--	--	
02...	1851	--	4500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
02...	1852	21.0	4500	4950	--	7.1	--	7.1	21.9	--	--	--	--	6.1	--	--	--	--	--	--	--	
02...	1853	12.0	4500	4770	--	7.2	--	7.2	21.9	--	--	--	--	6.3	--	--	--	--	--	--	--	
02...	1854	1.0	4500	4070	--	7.2	--	7.2	22.0	--	--	--	--	6.7	--	--	--	--	--	--	--	
02...	1855	29.0	6000	4980	--	6.9	--	6.9	21.8	--	--	--	--	5.3	--	13.2	26.4	25.8	--	--	--	
02...	1856	15.0	6000	4910	--	7.0	--	7.0	21.9	--	--	--	--	5.5	--	13.6	12.9	19.6	--	--	--	
02...	1857	6.0	6000	3610	--	7.3	--	7.3	22.2	--	--	--	--	6.9	--	22.9	13.4	29.1	--	--	--	
02...	1858	1.0	6000	3500	--	7.3	--	7.3	22.3	--	--	--	--	7.0	--	21.3	12.1	26.8	--	--	--	
03...	0725	29.0	6000	5400	--	6.8	--	6.8	21.3	--	23.0	--	--	6.9	--	23.8	19.4	32.8	--	--	--	
03...	0726	15.0	6000	5040	--	6.9	--	6.9	21.3	--	--	--	--	6.9	--	19.5	11.4	24.8	--	--	--	
03...	0727	6.0	6000	3690	--	6.8	--	6.8	20.9	--	--	--	--	6.7	--	19.2	12.9	25.2	--	--	--	
03...	0728	1.0	6000	3620	--	6.8	--	6.8	20.8	--	22.0	--	--	6.6	--	18.5	11.4	23.7	--	--	--	
03...	0730	21.0	4500	4830	--	6.8	--	6.8	21.1	--	--	--	--	6.9	--	--	--	--	--	--	--	
03...	0731	12.0	4500	4080	--	6.8	--	6.8	21.0	--	--	--	--	6.8	--	--	--	--	--	--	--	
03...	0732	1.0	4500	3450	--	6.8	--	6.8	20.7	--	--	--	--	6.9	--	19.6	13.1	25.7	--	--	--	
03...	0735	--	4500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
03...	0745	19.0	2300	4200	--	6.8	--	6.8	20.9	--	--	--	--	6.8	--	--	--	--	--	--	--	
03...	0746	11.0	2300	4100	--	6.8	--	6.8	20.9	--	--	--	--	6.9	--	--	--	--	--	--	--	
03...	0747	1.0	2300	3900	--	6.8	--	6.8	20.7	--	--	--	--	6.9	--	--	--	--	--	--	--	
03...	0750	--	2300	--	--	--	--	--	--	--	--	--	--	--	--	20.0	14.3	26.7	--	--	--	
03...	0755	--	50000	--	--	--	--	--	--	--	--	--	--	--	--	21.8	12.1	27.3	--	--	--	
09...	1400	25.0	6900	3450	--	7.4	--	7.4	18.9	--	16.0	--	--	8.1	--	--	--	--	--	--	--	
09...	1402	14.0	6900	3390	--	7.6	--	7.6	19.0	--	--	--	--	8.9	--	--	--	--	--	--	--	
09...	1404	3.0	6900	2730	--	7.9	--	7.9	19.5	--	--	--	--	10.4	--	--	--	--	--	--	--	
09...	1415	--	6900	--	--	--	--	--	--	--	--	--	--	--	--	18.8	10.0	23.3	--	--	--	
16...	0940	3.0	6000	3210	--	7.7	--	7.7	16.0	--	--	--	--	9.1	--	41.0	15.1	47.8	--	--	--	
16...	0948	14.0	6000	3500	--	7.3	--	7.3	16.1	--	--	--	--	8.1	--	--	--	--	--	--	--	
16...	0950	26.0	6000	3740	--	7.3	--	7.3	16.2	--	--	--	--	8.0	--	24.1	18.5	32.7	--	--	--	
21...	1338	1.0	6000	3450	--	7.7	--	7.7	17.4	--	--	--	--	8.0	--	34.4	15.9	41.7	--	--	--	
21...	1355	6.0	6000	3480	--	7.5	--	7.5	17.3	--	--	--	--	7.5	--	29.0	19.5	38.0	--	--	--	
21...	1359	16.0	6000	3640	--	7.4	--	7.4	17.3	--	--	--	--	7.3	--	25.5	16.2	33.0	--	--	--	
21...	1400	29.0	6000	3670	--	7.5	--	7.5	17.4	--	24.0	--	--	7.4	--	26.4	17.3	34.4	--	--	--	
21...	1410	--	6000	--	--	--	--	--	--	--	--	--	--	--	--	29.5	26.1	41.8	--	--	--	
30...	1600	3.0	6000	3020	--	7.5	--	7.5	12.8	--	--	--	--	9.1	--	33.4	20.4	42.8	--	--	--	

01658710 - POTOMAC RIVER AT QUANTICO, VA. -- Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
OCT	1604	11.0	6000	3050	7.4	12.8	--	9.0	--	--	--
	1606	16.0	6000	3230	7.3	12.6	--	8.6	--	--	--
	1608	20.0	6000	4010	7.1	12.7	23.0	8.0	--	--	--
	1609	24.0	6000	5000	7.0	12.7	--	7.9	--	--	--
	1610	29.0	6000	--	--	--	--	--	13.7	21.6	24.0
	NOV										
NOV	0915	17.0	2300	4320	7.4	11.6	--	8.8	--	--	--
	0916	10.0	2300	4200	7.4	11.5	--	8.8	--	--	--
	0917	3.0	2300	4220	7.4	11.5	--	8.8	--	--	--
	0925	17.0	4500	4230	7.5	11.6	--	8.9	--	--	--
	0926	10.0	4500	3890	7.5	11.5	--	8.9	--	--	--
	0927	3.0	4500	3750	7.5	11.4	--	8.9	--	--	--
	0931	27.0	6000	3830	7.5	12.5	--	8.6	--	--	--
	0932	15.0	6000	3870	7.5	11.7	--	9.0	--	--	--
	0933	3.0	6000	3650	7.6	11.4	--	9.0	--	--	--
	0945	3.0	5000	--	--	--	--	--	32.0	8.5	35.7
	0950	25.0	5000	--	--	--	--	--	24.0	15.0	30.9
	1030	3.0	6000	--	--	--	--	--	18.0	8.0	21.6
	1045	27.0	6000	--	--	--	--	--	25.5	13.5	31.7
	1200	3.0	6000	--	--	--	--	--	20.1	13.2	26.2
	1204	15.0	6000	3450	7.2	12.0	--	8.8	--	--	--
	1205	27.0	6000	3850	7.1	11.8	--	8.5	--	--	--
	1206	3.0	6000	4110	7.1	11.8	30.0	8.4	19.4	25.6	31.5
	1207	3.0	6000	2490	7.7	9.3	--	9.4	23.8	14.0	30.2
	1208	15.0	6000	2840	7.7	9.3	--	9.4	--	--	--
	1209	26.0	6000	2920	7.7	9.2	--	9.5	25.0	24.2	36.4
	1305	25.0	6000	4590	7.5	9.0	--	9.7	--	--	--
	1306	23.0	6000	4250	7.5	9.0	--	9.7	--	--	--
	1307	20.0	6000	3750	7.6	8.9	--	9.9	--	--	--
	1308	15.0	6000	3660	7.6	8.9	--	9.8	--	--	--
	1309	10.0	6000	3030	7.6	8.6	--	9.8	--	--	--
	1310	5.0	6000	2770	7.6	8.4	--	9.9	--	--	--
	1311	3.0	6000	2630	7.6	8.4	--	9.9	24.0	11.8	29.4
	1312	27.0	6000	4720	7.5	9.0	38.0	9.7	17.4	10.9	22.5
	1313	1.0	6000	5500	7.7	8.6	--	10.4	21.5	8.8	25.5
	1314	6.0	6000	5600	7.7	8.6	--	10.2	19.5	8.5	23.4
	1315	15.0	6000	6200	7.6	8.8	--	9.9	18.5	9.8	23.0
	1316	27.0	6000	5600	7.5	8.9	--	9.9	16.1	13.1	22.2
	1317	2.0	6000	6200	7.4	7.6	--	--	17.1	5.50	19.5
	1318	15.0	6000	6630	7.4	7.4	--	--	--	--	--
	1319	27.0	6000	6990	7.4	7.4	23.0	--	15.4	7.5	18.9

01558710 - POTOMAC RIVER AT QUANTICO, VA. ---Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
DEC											
02...	1200	27.0	6000	3400	7.7	6.5	36.0	11.3	26.9	7.20	30.0
02...	1205	15.0	6000	2890	7.7	6.5	--	11.2	--	--	--
02...	1210	3.0	6000	2580	7.8	6.7	--	11.5	21.5	4.8	23.5
08...	1010	3.0	6000	4830	8.1	6.0	--	11.6	39.2	5.7	41.4
08...	1012	15.0	6000	8440	8.0	5.9	--	11.4	--	--	--
08...	1015	27.0	6000	8830	8.0	5.9	40.0	11.5	40.9	10.3	45.2
15...	1705	2.0	6000	3620	8.2	5.7	--	11.8	29.1	11.3	34.2
15...	1706	6.0	6000	3640	8.2	5.7	--	11.8	29.0	10.6	33.8
15...	1708	10.0	6000	3670	8.2	5.7	--	11.8	29.0	12.6	34.8
15...	1709	20.0	6000	3950	8.2	5.7	--	11.8	32.7	13.0	38.5
15...	1710	27.0	6000	4330	8.2	5.7	--	11.8	36.3	14.8	43.0
16...	1015	27.0	6000	4470	7.9	5.4	29.0	11.6	36.2	21.7	46.2
16...	1016	20.0	6000	3900	8.0	5.3	--	11.5	32.2	17.8	40.4
16...	1017	10.0	6000	3620	8.0	5.2	--	11.6	29.4	14.0	35.8
16...	1018	6.0	6000	3500	8.0	5.2	--	11.6	26.8	11.8	32.1
16...	1019	1.0	6000	3390	8.0	5.3	--	11.7	25.6	10.5	30.3
29...	1215	3.0	6900	5240	8.2	.5	--	12.6	14.6	8.2	18.3
29...	1220	15.0	6900	9540	8.2	.5	--	12.2	--	--	--
29...	1230	29.0	6900	9620	8.2	.7	35.0	12.0	19.5	11.4	24.8
JAN											
15...	1110	3.0	6900	7970	7.6	.2	--	11.9	9.8	2.6	10.9
15...	1115	17.0	6900	7920	7.6	.2	--	11.5	--	--	--
15...	1120	24.0	6900	7950	7.6	.1	66.0	11.4	10.5	1.9	11.2
23...	1850	24.0	6900	8390	7.8	.0	--	12.3	15.7	5.7	18.2
23...	1855	11.0	6900	8370	7.8	.0	--	12.2	--	--	--
23...	1900	3.0	6900	8440	7.8	.0	--	12.2	14.5	3.5	16.0
29...	1120	3.0	6000	8250	7.8	.5	--	13.4	22.6	2.9	23.7
29...	1125	14.0	6000	10280	7.6	.4	--	13.1	--	--	--
29...	1130	25.0	6000	11490	7.5	.5	58.0	13.2	21.4	4.20	23.1
FEB											
03...	1315	27.0	6000	9700	7.8	1.0	--	12.7	15.7	4.2	17.5
03...	1316	20.0	6000	8200	7.8	.9	--	12.5	20.8	5.4	23.1
03...	1317	15.0	6000	7000	7.8	.8	--	12.4	17.5	6.4	20.4
03...	1318	10.0	6000	6100	7.8	.8	--	12.5	25.1	5.8	27.5
03...	1319	3.0	6000	5700	7.8	.9	--	12.8	24.3	4.2	26.0
04...	1250	2.0	6000	6190	8.1	.7	--	11.5	29.8	3.7	31.1
04...	1252	7.0	6000	6200	8.1	.7	--	11.4	29.5	4.7	31.3
04...	1253	12.0	6000	6470	8.1	.8	--	11.3	27.3	8.0	30.8
04...	1254	20.0	6000	7790	8.0	.9	--	11.3	23.9	8.4	27.6
04...	1255	30.0	6000	7940	8.0	.9	38.0	11.4	26.2	6.6	29.1

01658710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOCATION CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
FER											
11...	1650	26.0	6000	7670	--	--	--	--	32.8	6.0	35.3
11...	1651	20.0	6000	--	--	--	--	--	29.8	5.3	31.9
11...	1653	12.0	6000	--	--	--	--	--	36.7	3.3	37.8
11...	1654	7.0	6000	--	--	--	--	--	37.5	4.2	39.0
11...	1655	2.0	6000	7600	--	--	--	--	37.2	3.2	38.3
17...	0925	25.0	6000	5400	7.6	2.8	30.0	12.3	--	--	--
17...	0926	15.0	6000	5100	7.6	2.7	--	12.3	--	--	--
17...	0927	2.0	6000	3470	7.6	2.9	--	11.9	--	--	--
17...	0935	25.0	6000	5400	7.6	2.8	30.0	12.3	--	--	--
17...	1120	26.0	6000	4570	7.5	2.6	24.0	12.2	27.5	7.6	30.8
17...	1121	20.0	6000	4440	7.6	2.5	--	12.1	28.1	6.2	30.8
17...	1122	13.0	6000	4280	7.6	2.6	--	12.1	28.5	4.5	30.2
17...	1123	7.0	6000	3400	7.6	2.7	--	12.0	28.0	5.0	30.0
17...	1124	2.0	6000	3000	7.6	2.9	--	11.8	22.2	5.5	24.6
23...	1615	3.0	6000	1173	7.1	6.6	--	10.1	11.8	9.7	16.4
23...	1618	13.0	6000	1550	7.2	6.4	--	10.1	--	--	--
23...	1625	26.0	6000	1625	7.2	6.5	18.0	10.1	13.8	12.0	19.4
24...	1521	27.0	6000	965	7.2	6.8	12.0	8.8	10.9	15.3	18.2
24...	1522	20.0	6000	968	7.2	6.8	--	8.9	11.1	13.3	17.4
24...	1523	12.0	6000	870	7.2	6.8	--	8.9	9.9	11.0	15.1
24...	1524	7.0	6000	850	7.2	6.8	--	8.9	9.7	9.8	14.3
24...	1526	2.0	6000	830	7.2	6.8	--	8.9	9.2	7.3	12.6
25...	1550	25.0	6000	--	--	--	--	--	11.6	15.8	19.1
25...	1600	3.0	6000	--	--	--	--	--	11.9	14.2	18.6
27...	1340	3.0	6000	353	7.4	7.3	--	10.7	2.0	10.0	6.8
27...	1344	7.0	6000	355	7.4	7.3	--	10.6	3.4	10.1	8.3
27...	1347	12.0	6000	358	7.3	7.3	--	10.6	2.6	9.8	7.4
27...	1349	20.0	6000	365	7.3	7.2	--	10.7	3.2	10.7	8.3
27...	1350	28.0	6000	370	7.3	7.3	--	10.6	3.3	10.3	8.3
MAR											
03...	1936	26.0	6000	2870	7.4	7.3	--	9.8	4.6	9.2	9.0
03...	1937	18.0	6000	2500	7.5	7.3	--	9.9	4.3	8.2	8.2
03...	1938	10.0	6000	2100	7.5	7.4	--	10.1	5.2	7.5	8.8
03...	1939	3.0	6000	2050	7.5	7.4	--	10.1	5.1	6.3	8.1
04...	0703	27.0	6000	2310	7.5	7.0	12.0	10.4	6.0	12.1	11.8
04...	0704	20.0	6000	2320	7.6	7.1	--	10.4	7.3	14.4	14.2
04...	0705	10.0	6000	2270	7.6	7.1	--	10.4	5.9	11.8	11.6
04...	0706	2.0	6000	2050	7.6	7.0	--	10.4	6.0	8.8	10.2
11...	1410	25.0	6000	1810	7.3	6.3	6.0	10.3	7.8	29.7	22.1
11...	1411	12.0	6000	1240	7.3	6.4	--	10.4	--	--	--

01658710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.
WATER QUALITY DATA- WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH- (FT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A METRIC CORR. (JG/L)	PHEOPHY- FLUORO- METRIC METHOD (JG/L)	CHLORO- PHYLL A METRIC METHOD UNCORR. (JG/L)
VAR											
11...	1412	7.0	6000	1130	7.3	6.6	--	10.3	--	--	--
11...	1413	3.0	6000	1190	7.4	6.8	--	10.4	4.5	11.3	10.0
11...	1415	--	5000	--	--	--	--	--	5.4	17.3	13.8
18...	0850	29.0	6000	1988	7.4	5.5	6.0	9.9	6.1	17.6	14.6
18...	0851	22.0	6000	1960	7.4	5.4	--	9.9	6.5	16.9	14.6
18...	0852	15.0	6000	1650	7.5	5.4	--	9.9	5.9	15.4	13.3
18...	0853	8.0	6000	950	7.5	5.5	--	9.9	5.5	14.7	12.5
18...	0855	2.0	6000	722	7.5	5.4	--	9.9	5.1	15.2	12.4
24...	1315	31.0	6000	3650	7.2	5.6	12.0	9.9	5.6	18.2	14.4
24...	1316	22.0	6000	3210	7.4	5.6	--	9.9	--	--	--
24...	1317	15.0	6000	2940	7.4	5.6	--	9.9	3.9	9.1	8.3
24...	1318	8.0	6000	2620	7.5	5.9	--	10.1	--	--	--
24...	1319	2.0	6000	2240	7.5	6.3	--	10.1	4.3	6.9	7.6
APR											
01...	1401	26.0	6000	2170	7.4	9.5	18.0	9.5	--	--	--
01...	1402	14.0	6000	2100	7.4	9.6	--	9.5	--	--	--
01...	1403	3.0	6000	1940	7.4	9.9	--	9.9	--	--	--
01...	1500	25.0	6000	4200	7.2	9.0	--	11.6	9.2	24.6	21.0
01...	1502	15.0	6000	2530	7.3	9.7	--	11.3	9.0	10.8	14.1
01...	1504	2.0	6000	2330	7.4	10.3	--	11.2	8.2	5.4	10.7
09...	1315	--	6000	--	--	--	--	--	11.0	18.2	19.7
09...	1316	24.0	6000	1760	7.3	12.7	18.0	8.9	10.5	27.1	23.5
09...	1317	22.0	6000	1750	7.4	12.7	--	8.8	--	--	--
09...	1318	15.0	6000	1620	7.4	12.8	--	8.9	9.6	16.3	17.3
09...	1319	8.0	6000	1360	7.4	13.3	--	8.9	--	--	--
09...	1320	3.0	6000	1330	7.4	13.3	--	8.9	10.7	15.8	18.2
15...	0855	24.0	6000	412	7.1	13.9	6.0	--	--	--	--
15...	0856	12.0	6000	407	7.1	13.9	--	--	--	--	--
15...	0857	3.0	6000	407	7.2	13.9	--	--	--	--	--
15...	1050	--	6000	--	--	--	--	--	8.7	27.9	22.1
15...	1055	27.0	6000	402	7.2	14.3	6.0	--	9.1	31.6	24.3
15...	1056	18.0	6000	416	7.2	14.4	--	8.0	10.4	23.4	21.6
15...	1057	9.0	6000	430	7.2	14.4	--	8.3	9.5	21.4	19.8
15...	1058	2.0	6000	457	7.2	14.4	--	8.5	11.2	19.4	20.5
16...	0920	--	6000	--	--	--	--	--	10.5	19.7	19.9
16...	0930	25.0	6000	399	7.3	13.5	--	--	14.5	29.6	28.7
16...	0931	15.0	6000	383	7.3	13.6	--	--	11.5	19.4	20.8
16...	0933	3.0	6000	362	7.3	13.7	--	--	8.9	15.1	16.1
17...	0915	23.0	6000	326	6.9	14.1	12.0	8.0	--	--	--
17...	0916	13.0	6000	325	7.0	14.2	--	7.9	--	--	--

01658710 -- POTOMAC RIVER AT QUANTICO, VA. --Cont.
 WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL/A METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
APR 17...	0917	3.0	6000	323	7.0	14.2	--	7.9	--	--	--
17...	0925	--	6000	--	--	--	--	--	13.7	25.0	25.7
22...	1300	--	6000	--	--	--	--	--	13.2	22.8	24.0
22...	1305	24.0	6000	258	7.4	14.8	12.0	7.7	12.8	31.9	28.1
22...	1307	15.0	6000	258	7.5	14.6	--	7.8	11.7	18.9	20.7
22...	1309	3.0	5000	256	7.5	14.8	--	7.9	12.2	12.9	18.3
29...	1250	24.0	6000	1480	7.3	15.9	16.0	7.4	11.7	15.6	19.1
29...	1251	20.0	6000	1470	7.3	15.0	--	7.3	11.8	14.8	18.8
29...	1252	10.0	6000	845	7.3	16.7	--	8.1	17.4	9.6	21.8
29...	1253	2.0	6000	743	7.3	16.9	--	8.2	19.1	9.9	23.7
29...	1300	--	6000	--	--	--	--	--	15.4	13.9	21.9
MAY 04...	0928	23.0	6000	1771	7.4	15.6	10.0	8.7	--	--	--
04...	0929	10.0	6000	716	7.5	15.7	--	8.7	--	--	--
04...	0930	3.0	6000	582	7.7	16.1	--	9.5	--	--	--
04...	0935	--	6000	--	--	--	--	--	31.1	15.8	38.3
12...	1455	26.0	6000	903	7.6	17.4	22.0	8.6	30.0	21.0	39.8
12...	1456	20.0	6000	927	7.6	17.4	--	8.5	37.5	22.6	47.9
12...	1457	10.0	6000	945	7.6	17.4	--	8.6	34.0	19.3	42.9
12...	1458	2.0	5000	766	8.0	18.0	--	9.5	41.5	16.1	48.8
19...	1115	29.0	6000	297	7.7	17.9	12.0	8.5	71.6	35.8	87.9
19...	1116	18.0	6000	296	7.7	18.0	--	8.6	66.4	23.0	76.6
19...	1117	10.0	6000	296	7.8	18.0	--	8.6	72.4	17.1	79.6
19...	1118	2.0	6000	296	7.8	18.0	--	8.7	69.1	23.6	79.6
27...	1550	27.0	6000	270	8.2	21.2	20.0	9.0	--	--	--
27...	1553	15.0	6000	264	8.2	21.3	--	9.1	--	--	--
27...	1555	3.0	6000	257	8.8	21.7	--	10.2	--	--	--
28...	1250	27.0	6000	267	7.8	21.5	18.0	8.8	67.7	41.9	87.1
28...	1251	20.0	6000	257	7.9	21.6	--	8.9	61.0	21.4	70.5
28...	1252	10.0	6000	256	8.0	21.6	--	9.0	66.0	11.9	70.8
28...	1253	2.0	6000	256	8.2	21.8	--	9.7	61.9	12.5	67.0
28...	1300	--	6000	--	--	--	--	--	60.8	21.9	70.5
JUN 01...	1655	30.0	6000	264	7.6	22.7	--	7.4	44.4	44.2	65.2
01...	1656	20.0	6000	264	7.6	22.9	--	7.4	38.7	23.6	49.6
01...	1657	10.0	6000	264	7.6	22.9	--	7.5	39.1	18.3	47.4
01...	1658	2.0	6000	264	7.6	22.9	--	7.5	42.4	17.9	50.5
08...	1500	2.0	6000	--	--	--	--	--	30.3	9.5	34.4
08...	1502	7.0	6000	--	--	--	--	--	29.1	15.0	35.9
08...	1504	14.0	6000	--	--	--	--	--	23.1	12.9	29.0

01658710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LINGS (FT)	DEPTH (FT)	SAMPLE LDC- ACTION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUN	1506	21.0	6000		--	--	--	--	--	22.2	19.0	31.1
	1508	24.0	6000		--	--	--	--	--	25.5	32.5	40.9
	1510	--	6000		--	--	--	--	--	24.9	21.8	35.1
	1722	2.0	6000		--	--	--	--	--	42.7	7.6	45.8
	1724	10.0	6000		--	--	--	--	--	46.9	10.1	51.1
	1726	20.0	6000		--	--	--	--	--	27.5	16.3	35.0
	1728	24.0	6000		--	--	--	--	--	35.4	13.4	41.4
	1005	25.0	6000		230	6.4	26.0	19.0	7.0	26.4	31.7	41.4
	1006	19.0	6000		230	6.4	26.1	--	7.1	27.3	19.6	36.4
	1007	12.0	5000		230	6.4	26.2	--	7.2	34.7	26.7	38.5
	1008	7.0	5000		230	6.5	26.2	--	7.3	31.7	14.0	38.1
	1009	4.0	6000		230	6.8	26.4	--	8.0	32.1	12.0	37.5
	1011	2.0	5000		230	6.9	26.7	--	8.3	27.7	8.6	31.4
	1420	29.0	5000		217	8.0	27.2	18.0	8.4	56.4	22.8	66.6
	1421	23.0	6000		214	8.1	27.2	--	8.8	60.6	12.1	65.6
	1422	15.0	6000		213	8.2	27.2	--	8.9	64.1	13.2	69.6
	1423	7.0	6000		212	8.3	27.5	--	9.5	67.9	7.00	70.2
	1424	2.0	6000		212	8.3	27.4	--	9.4	64.1	10.5	68.3
JUL	1515	26.0	6000		1270	7.1	26.6	19.0	6.7	30.6	24.4	42.0
	1516	22.0	6000		1260	7.1	26.6	--	6.6	31.0	20.8	40.7
	1517	15.0	6000		915	7.2	26.6	--	6.8	34.8	13.7	40.9
	1518	7.0	5000		579	7.6	27.2	--	7.9	39.8	12.4	45.3
	1519	2.0	5000		528	8.1	27.9	--	9.0	47.8	12.2	53.0
	1520	--	5000		--	--	--	--	--	45.5	14.2	51.7
	1525	--	6000		--	--	--	--	--	32.3	15.2	39.2
	1545	25.0	2300		797	7.5	27.1	17.0	7.5	--	--	--
	1546	12.0	2300		757	7.7	27.2	--	7.8	--	--	--
	1547	7.0	2300		690	7.8	27.2	--	8.3	--	--	--
	1548	4.0	2300		531	8.1	27.5	--	9.0	60.8	8.8	64.1
	1549	2.0	2300		508	8.4	27.9	--	9.8	--	--	--
	1550	--	2300		--	--	--	--	--	51.9	13.4	57.7
	1456	24.0	5000		849	8.0	28.3	24.0	6.7	53.7	22.5	63.9
	1457	19.0	6000		859	8.0	28.3	--	6.8	49.5	18.8	57.9
	1458	13.0	6000		795	8.0	28.3	--	6.9	44.2	18.2	52.4
	1459	7.0	6000		774	8.1	28.5	--	7.3	49.1	12.1	54.3
	1500	2.0	6000		565	8.9	29.1	--	9.5	65.6	7.1	69.1
	1020	--	2300		--	--	--	--	--	44.5	13.0	50.2
	1025	21.0	2300		4890	7.7	28.3	20.0	7.7	--	--	--
	1026	10.0	2300		4860	7.8	28.4	--	7.6	--	--	--

01658710 - POTOMAC RIVER AT QUANTICO, VA. ---Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL/A METRIC CORR. (JG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL											
20...	1027	1.0	2300	4830	7.8	28.4	--	7.6	37.0	14.9	43.7
20...	1030	--	5000	--	--	--	--	--	33.3	15.5	40.3
20...	1033	--	6000	--	--	--	--	--	28.0	18.3	36.5
20...	1035	29.0	6000	4150	7.3	27.8	23.0	6.3	28.2	18.2	36.6
20...	1036	22.0	6000	4040	7.3	27.8	--	6.2	27.7	17.2	35.7
20...	1037	15.0	6000	3720	7.3	27.8	--	6.1	31.1	17.0	38.9
20...	1038	7.0	6000	3650	7.3	27.8	--	6.2	35.2	14.5	41.8
20...	1039	1.0	6000	3600	7.5	27.9	--	6.8	40.9	18.3	49.1
20...	2045	--	2300	--	--	--	--	--	--	--	--
20...	2050	19.0	2300	4330	7.7	28.5	--	7.7	--	--	--
20...	2051	10.0	2300	4340	7.8	28.5	--	7.7	--	--	--
20...	2052	1.0	2300	4310	7.8	28.5	--	7.7	--	--	--
20...	2100	--	5000	--	--	--	--	--	39.2	17.6	47.1
20...	2103	--	6000	--	--	--	--	--	40.6	16.7	48.1
20...	2105	29.0	6000	4080	7.6	28.3	--	7.0	38.9	51.5	63.3
20...	2106	22.0	6000	4070	7.6	28.4	--	7.1	38.9	17.6	46.8
20...	2107	15.0	6000	4000	7.7	28.4	--	7.4	37.9	14.2	44.2
20...	2108	7.0	6000	3870	7.8	28.5	--	7.6	45.7	13.1	51.4
20...	2109	1.0	6000	3570	7.9	28.5	--	7.9	50.2	18.5	58.5
21...	0645	--	6000	--	--	--	--	--	42.2	17.3	50.0
21...	0650	29.0	6000	2920	7.5	27.9	22.0	6.8	38.0	34.2	54.1
21...	0651	22.0	6000	2750	7.5	28.1	--	6.7	38.9	15.8	46.0
21...	0652	15.0	6000	2700	7.5	28.1	--	6.6	36.4	16.5	43.8
21...	0653	7.0	6000	2540	7.5	28.1	--	6.6	35.2	16.5	42.7
21...	0654	1.0	6000	2220	7.6	27.9	--	6.7	36.3	14.0	42.6
21...	0700	--	2300	--	--	--	--	--	37.5	18.0	45.7
21...	0705	20.0	2300	4100	7.6	28.2	20.0	6.7	--	--	--
21...	0706	10.0	2300	3550	7.5	28.0	--	6.5	--	--	--
21...	0707	1.0	2300	3444	7.5	27.9	--	6.5	--	--	--
21...	0710	--	5000	--	--	--	--	--	36.3	19.5	45.2
21...	2030	--	5000	--	--	--	--	--	46.5	18.5	54.9
21...	2145	--	2300	--	--	--	--	--	38.0	19.4	46.9
21...	2200	17.0	2300	3800	7.4	28.4	--	6.2	--	--	--
21...	2201	8.0	2300	3500	7.6	28.5	--	7.2	--	--	--
21...	2202	1.0	2300	3300	8.1	28.6	--	8.2	--	--	--
21...	2205	--	6000	--	--	--	--	--	48.5	18.2	54.6
21...	2210	27.0	6000	3050	7.5	28.5	--	6.1	43.1	30.0	57.0
21...	2211	22.0	6000	3050	7.4	28.5	--	6.0	37.3	24.0	48.4
21...	2212	14.0	6000	2900	8.0	28.8	--	7.6	49.1	15.3	55.9

APPENDIX A-2

01658710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL											
21...	2213	7.00	6000	2380	8.0	28.6	--	7.5	49.3	12.5	54.6
21...	2214	1.00	6000	1850	8.4	28.7	--	9.3	63.5	9.1	67.0
22...	1000	--	2300	--	--	--	--	--	41.0	18.7	49.5
22...	1002	21.0	2300	3370	7.5	28.0	--	6.6	--	--	--
22...	1003	10.0	2300	3350	7.5	28.0	--	6.7	--	--	--
22...	1004	1.0	2300	3350	7.5	28.0	--	6.8	--	--	--
22...	1010	--	5000	--	--	--	--	--	39.6	19.5	48.5
22...	1012	--	5000	--	--	--	--	--	32.9	23.9	44.0
22...	1015	28.0	6000	2930	7.4	28.0	18.0	6.2	32.2	31.9	47.2
22...	1016	22.0	6000	2920	7.4	28.0	--	6.3	36.0	24.1	47.1
22...	1017	15.0	6000	2840	7.4	28.0	--	6.3	31.8	20.1	41.1
22...	1018	7.0	5000	2750	7.4	28.0	--	6.3	--	--	--
22...	1019	1.0	6000	2750	7.4	28.0	--	6.4	40.7	15.6	47.7
28...	0847	28.0	6000	4150	7.3	27.6	22.0	5.4	31.6	36.1	48.6
28...	0848	19.0	5000	3080	7.5	27.5	--	6.1	36.6	21.3	46.4
28...	0849	13.0	6000	2920	7.6	27.5	--	6.2	39.2	20.1	48.4
28...	0850	6.0	6000	2890	7.6	27.6	--	6.5	39.4	17.9	47.5
28...	0851	1.5	6000	2590	7.9	27.6	--	7.4	47.7	13.6	53.6
AUG											
05...	1745	--	6000	--	--	--	--	--	29.7	17.8	37.9
06...	1750	28.0	6000	2940	7.1	27.2	21.0	5.5	29.0	24.3	40.3
06...	1751	20.0	6000	2720	7.1	27.2	--	5.7	28.8	17.5	36.9
06...	1752	14.0	6000	2670	7.2	27.2	--	5.8	29.4	16.6	37.1
06...	1753	7.0	6000	2580	7.2	27.1	--	6.0	32.9	18.2	41.2
06...	1754	1.0	6000	2580	7.2	27.1	--	6.0	31.0	16.9	38.7
06...	1800	--	5000	--	--	--	--	--	28.5	18.0	36.8
06...	1805	24.0	2300	3530	7.0	27.4	19.0	5.1	--	--	--
06...	1807	12.0	2300	3090	7.1	27.3	--	5.7	--	--	--
06...	1808	1.0	2300	2690	7.4	27.1	--	6.4	--	--	--
06...	1810	--	2300	--	--	--	--	--	27.5	17.4	35.6
17...	1747	25.0	6000	3590	7.8	27.3	23.0	7.4	36.6	25.2	48.3
17...	1748	19.0	6000	3520	7.7	27.3	--	7.0	33.0	15.0	39.8
17...	1749	13.0	6000	3090	7.5	27.3	--	6.4	29.7	12.6	35.4
17...	1750	6.0	6000	2800	7.9	27.4	--	7.5	37.5	11.5	42.5
17...	1751	1.5	6000	2770	8.0	27.3	--	7.9	40.9	11.2	45.8
18...	0845	--	6000	--	--	--	--	--	25.8	14.8	32.5
18...	0850	25.0	6000	4220	7.3	26.0	17.0	6.3	26.9	23.7	38.0
18...	0851	19.0	6000	4190	7.4	26.2	--	6.2	26.6	18.4	35.2
18...	0852	13.0	6000	4170	7.3	26.3	--	6.1	24.7	14.2	31.2
18...	0853	6.0	6000	4150	7.3	26.3	--	6.1	25.4	15.6	32.6

01658710 -- POTOMAC RIVER AT QUANTICO, VA. --Cont.

WATER QUALITY DATA: WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG											
18...	0854	1.6	6000	4090	7.4	26.3	--	6.2	25.6	15.1	32.5
18...	0902	16.0	2300	5140	7.4	26.0	25.0	6.5	--	--	--
18...	0903	6.0	2300	5150	7.4	26.0	--	6.5	--	--	--
18...	0904	1.6	2300	4950	7.5	26.0	--	6.5	--	--	--
18...	0905	--	2300	--	--	--	--	--	26.0	9.0	30.0
24...	2225	--	2300	--	--	--	--	--	33.0	16.7	40.6
24...	2230	--	5000	--	--	--	--	--	34.1	17.4	42.1
24...	2231	22.0	2300	6380	7.1	24.1	--	5.8	--	--	--
24...	2232	10.0	2300	6230	7.3	24.2	--	6.4	--	--	--
24...	2233	4.0	2300	5380	8.1	24.6	--	9.0	--	--	--
24...	2234	1.0	2300	5450	8.1	24.6	--	9.1	--	--	--
24...	2240	--	6000	--	--	--	--	--	35.4	16.6	42.9
24...	2245	27.0	6000	5750	7.3	24.2	--	6.3	27.0	20.9	36.8
24...	2246	19.0	6000	5450	7.4	24.3	--	6.8	29.5	15.6	36.7
24...	2247	10.0	6000	5050	7.4	24.4	--	7.3	32.1	15.1	38.9
24...	2248	4.0	6000	4180	8.0	24.5	--	8.7	46.0	13.1	51.7
24...	2249	1.0	6000	4160	8.1	24.5	--	8.8	50.2	10.5	54.6
25...	1015	--	2300	--	--	--	--	--	29.9	20.9	39.6
25...	1020	18.0	2300	5450	7.3	24.1	14.0	6.8	--	--	--
25...	1021	10.0	2300	5430	7.4	24.0	--	7.0	--	--	--
25...	1022	1.0	2300	5190	7.6	24.0	--	7.6	--	--	--
25...	1025	--	6000	--	--	--	--	--	30.5	18.5	39.0
25...	1030	23.0	6000	5330	7.3	23.9	23.0	6.6	28.9	17.6	37.0
25...	1031	10.0	6000	5020	7.3	23.9	--	6.8	30.1	18.0	38.4
25...	1032	4.0	6000	4650	7.5	24.0	--	7.4	37.1	15.2	44.0
25...	1033	1.0	6000	4550	7.5	24.0	--	7.7	38.3	15.5	45.3
25...	1045	--	5000	--	--	--	--	--	30.8	17.9	39.0
25...	1745	--	2300	--	--	--	--	--	34.0	15.9	41.2
25...	1755	18.0	2300	6610	7.6	24.2	18.0	6.8	--	--	--
25...	1756	10.0	2300	6410	7.8	24.3	--	7.6	--	--	--
25...	1757	4.0	2300	6370	8.2	24.6	--	8.7	--	--	--
25...	1758	1.0	2300	6350	8.5	24.8	--	9.8	--	--	--
25...	1800	--	5000	--	--	--	--	--	36.0	15.0	42.8
25...	1805	--	6000	--	--	--	--	--	32.0	16.9	39.8
25...	1810	28.0	6000	6550	7.6	24.1	--	6.6	23.0	23.9	34.3
25...	1811	20.0	6000	5930	7.6	24.1	--	7.1	--	--	--
25...	1812	10.0	6000	5980	7.7	24.2	--	7.4	27.4	15.0	34.3
25...	1813	4.0	6000	5450	8.0	24.4	--	8.2	34.1	15.9	41.4
25...	1814	1.0	6000	4840	8.5	24.8	--	9.4	49.0	14.2	55.2

APPENDIX A-2

01658710 - POTOMAC RIVER AT QUANTICO, VA. --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JM405) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL. A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL. A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG											
26...	1025	--	2300	--	--	--	--	--	29.4	22.5	39.9
26...	1030	19.0	2300	1900	7.5	24.1	17.0	7.7	--	--	--
26...	1031	10.0	2300	1910	7.6	24.0	--	7.8	--	--	--
26...	1033	5.0	2300	1920	7.6	23.9	--	8.2	--	--	--
26...	1034	1.0	2300	1900	8.0	24.3	--	9.0	--	--	--
26...	1040	--	6000	--	--	--	--	--	33.5	19.1	42.2
26...	1045	22.0	6000	1930	7.6	24.1	16.0	8.1	27.5	20.0	36.8
26...	1046	10.0	6000	1930	7.6	24.0	--	8.2	27.7	17.5	35.8
26...	1047	4.0	6000	1940	7.9	24.0	--	9.2	39.1	17.7	47.1
26...	1048	2.0	6000	1950	8.4	24.0	--	10.8	58.6	17.2	66.1
26...	1049	1.0	6000	1940	8.8	24.2	--	12.4	77.8	13.8	83.3
26...	1100	--	5000	--	--	--	--	--	32.8	18.9	41.5
26...	1715	--	6000	--	--	--	--	--	17.8	19.9	27.2
26...	1720	33.0	6000	7800	7.4	24.5	15.0	6.2	10.5	25.3	22.6
26...	1721	20.0	6000	7730	7.5	24.6	--	6.7	--	--	--
26...	1722	10.0	6000	6230	7.5	24.5	--	6.6	15.2	18.1	23.8
26...	1723	4.0	6000	5900	7.6	24.7	--	8.8	33.5	17.5	41.5
26...	1724	1.0	6000	5550	8.3	25.1	--	9.1	26.4	16.2	33.9
26...	1730	--	5000	--	--	--	--	--	23.2	16.4	30.8
26...	1734	--	2300	--	--	--	--	--	42.0	15.9	49.1
26...	1735	20.0	2300	7610	8.1	25.0	22.0	8.4	--	--	--
26...	1736	10.0	2300	7300	8.5	25.5	--	10.4	--	--	--
26...	1737	4.0	2300	6950	8.5	25.5	--	10.2	--	--	--
26...	1738	1.0	2300	6940	8.5	25.5	--	10.2	--	--	--
SEP											
03...	0846	29.0	6000	6300	7.2	25.2	24.0	5.5	19.3	32.6	34.9
03...	0847	19.0	6000	6070	7.2	25.3	--	5.7	27.2	24.0	38.4
03...	0848	10.0	6000	5980	7.2	25.4	--	5.8	33.6	25.5	45.5
03...	0849	4.0	6000	5900	7.2	25.3	--	5.9	29.3	17.6	37.4
03...	0850	1.0	6000	5790	7.3	25.3	--	6.0	37.0	18.6	45.5
10...	1030	26.0	6000	5190	6.9	23.8	--	5.0	17.5	30.0	31.8
10...	1031	19.0	6000	5160	6.9	23.8	23.0	5.0	17.8	21.6	28.1
10...	1032	13.0	6000	5140	6.9	23.8	--	5.0	15.7	18.6	24.5
10...	1033	7.0	6000	5040	6.9	23.8	--	5.3	18.4	16.9	26.3
10...	1034	5.0	6000	4800	7.1	23.9	--	5.8	24.0	14.8	30.8
10...	1035	1.6	6000	4560	7.3	24.0	--	7.1	39.2	16.1	46.4
16...	0710	27.0	6000	5060	6.9	24.3	14.0	5.8	24.3	36.8	41.8
16...	0711	20.0	6000	5030	6.9	24.4	--	5.9	22.7	23.6	33.9
16...	0712	12.0	6000	5090	6.9	24.4	--	5.8	19.7	22.4	30.3
16...	0713	6.0	6000	5090	7.0	24.4	--	5.9	20.9	21.7	31.1

APPENDIX A-2

01658710 -- POTOMAC RIVER AT QUANTICO, VA. ---Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
SEP 16...	0714	2.0	6000	5120	7.0	24.2	---	21.8	20.7	31.5
21...	1759	1.6	6000	2960	7.7	22.3	---	26.4	20.9	36.2
21...	1801	6.0	6000	3340	7.4	21.7	---	19.1	25.8	31.4
21...	1802	13.0	6000	3810	7.3	21.8	---	16.0	25.2	28.0
21...	1803	19.0	6000	4350	7.3	21.9	---	13.0	26.7	25.8
21...	1805	26.0	6000	4530	7.3	21.9	14.0	14.1	33.7	30.2
22...	0705	26.0	6000	4760	7.1	21.7	12.0	19.3	55.2	45.8
22...	0706	19.0	6000	4460	7.2	21.7	---	15.7	26.4	28.3
22...	0707	13.0	6000	4250	7.2	21.7	---	16.6	32.0	31.9
22...	0709	6.0	6000	3400	7.3	21.5	---	20.7	21.9	31.0
22...	0711	1.6	6000	3390	7.3	21.5	---	22.2	20.1	31.6

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE		SAMP- LING DEPTH (FT) (00003)	LJC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO-	PHEOPHY-	CHLORO-
		PHYLLIA FLUORO- METRIC METHOD CORR. (UG/L) (32209)	TIN A FLUORO- METRIC METHOD (UG/L) (32213)								PHYLLIA FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)		
OCT	21...	1533	1.0	2000		6610	7.7	17.7	--	9.0	23.8	8.2	27.4
	21...	1538	6.0	2000		6520	7.7	17.8	--	8.6	22.9	10.1	27.4
	21...	1539	10.0	2000		6560	7.5	17.6	--	8.0	20.6	8.7	24.6
	21...	1540	20.0	2000		7250	7.4	17.7	22.0	7.8	13.0	8.6	17.0
	21...	1605	--	11700		--	--	--	--	--	27.8	13.1	33.7
	21...	1606	7.0	11700		5510	7.7	17.5	14.0	9.2	--	--	--
	21...	1608	1.0	11700		5510	7.8	17.4	--	9.2	--	--	--
	NOV												
NOV	17...	1845	2.0	2000		8300	7.9	9.0	--	10.0	10.2	4.6	12.3
	17...	1847	8.0	2000		10300	7.8	9.3	--	9.6	12.2	4.8	14.4
	17...	1850	17.0	2000		11000	7.8	9.4	--	9.3	12.9	5.1	15.2
	18...	0840	2.0	2000		8100	7.7	8.8	--	10.1	12.6	7.3	15.9
	18...	0842	10.0	2000		9400	7.6	9.0	--	9.9	10.5	5.7	13.1
	18...	0845	21.0	2000		10700	7.6	9.1	48.0	9.8	9.8	8.3	13.6
	18...	0902	7.0	11700		7000	7.7	8.5	23.0	10.2	12.7	8.8	16.8
	18...	0904	2.0	11700		7000	7.7	8.6	--	10.1	13.0	8.4	17.0
DEC	15...	1620	2.0	2000		6740	8.4	5.8	--	12.8	67.3	11.1	71.7
	15...	1622	5.0	2000		7490	8.6	5.9	--	13.2	73.0	10.4	77.0
	15...	1623	10.0	2000		9110	8.3	6.0	--	12.1	41.8	12.5	47.3
	15...	1625	15.0	2000		9690	8.3	6.0	34.0	12.0	37.8	8.0	41.1
	15...	1642	5.0	11700		6130	8.7	5.4	24.0	13.2	75.5	12.2	80.3
	15...	1644	2.0	11700		6130	8.7	5.4	--	13.2	72.6	15.1	78.8
	FER												
	03...	1155	20.0	2000		17200	7.8	1.4	--	12.4	--	--	--
FEB	03...	1156	15.0	2000		14600	7.9	1.1	--	12.5	--	--	--
	03...	1157	10.0	2000		8900	8.0	.8	--	13.0	--	--	--
	03...	1158	2.0	2000		8400	8.0	.7	--	12.8	--	--	--
	04...	1400	2.0	2000		8700	8.3	.8	--	11.6	50.4	2.60	50.9
	04...	1402	7.0	2000		8700	8.3	.8	--	11.5	49.7	5.40	51.6
	04...	1403	15.0	2000		9200	8.3	.7	--	11.6	39.1	7.70	42.3
	04...	1404	20.0	2000		10300	8.2	.7	--	11.3	35.3	6.50	37.9
	04...	1405	26.0	2000		10700	8.2	.8	36.0	11.3	31.9	5.90	34.4
	04...	1422	8.0	11700		9000	8.2	.9	34.0	12.2	33.9	4.40	35.6
	04...	1424	2.0	11700		9100	8.2	1.0	--	12.0	35.6	4.90	37.5
	17...	1045	25.0	2000		7970	7.8	2.6	24.0	13.0	54.6	1.60	54.6
	17...	1047	20.0	2000		7880	7.8	2.5	--	13.0	48.3	5.40	50.3
	17...	1049	13.0	2000		7180	7.8	2.5	--	12.9	51.6	5.70	53.6
	17...	1051	7.0	2000		6900	7.8	2.5	--	12.9	50.2	6.80	52.8
	17...	1053	2.0	2000		6050	7.8	2.7	--	12.9	78.2	.90	76.6
	24...	1430	27.0	2000		4900	7.5	5.7	23.0	9.5	25.6	6.70	28.4
	24...	1432	20.0	2000		3950	7.5	5.8	--	9.3	27.8	7.60	31.1

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT

--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	LOC- TION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
FER											
24...	1434	12.0	2000	3750	7.5	5.8	--	9.3	27.8	7.8	31.2
24...	1436	7.0	2000	3150	--	5.8	--	--	31.8	9.8	36.1
24...	1437	2.0	2000	4140	--	5.8	--	--	32.6	8.2	36.1
27...	1410	26.0	2000	2620	7.6	6.1	12.0	10.9	6.0	10.5	11.0
27...	1412	19.0	2000	2580	7.6	6.1	--	10.9	12.8	11.2	18.0
27...	1414	12.0	2000	2170	7.6	6.4	--	11.0	11.2	11.4	16.6
27...	1416	7.0	2000	1620	7.6	6.6	--	11.1	7.8	11.3	13.2
27...	1418	2.0	2000	1380	7.6	6.6	--	11.1	8.0	11.8	13.6
MAR											
03...	1830	3.0	2000	3650	7.6	7.2	--	10.6	10.0	10.9	15.1
03...	1831	10.0	2000	3670	7.6	7.2	--	10.6	9.9	6.9	13.1
03...	1832	15.0	2000	3660	7.6	7.3	--	10.4	9.5	7.5	13.0
03...	1835	20.0	2000	3660	7.6	7.3	--	10.5	9.7	7.6	13.2
03...	1902	10.0	11700	2320	7.6	7.3	--	10.6	7.4	7.6	11.0
03...	1904	3.0	11700	2300	7.6	7.3	--	10.5	7.2	8.0	11.0
18...	0930	3.0	2000	3110	7.5	5.2	--	9.7	6.8	13.9	13.5
24...	1400	28.0	2000	9940	7.2	5.6	12.0	9.2	4.0	10.0	8.8
24...	1402	15.0	2000	8740	7.4	5.5	--	9.3	4.2	8.1	8.1
24...	1404	8.0	2000	5830	7.5	5.7	--	9.8	4.1	6.7	7.3
24...	1406	2.0	2000	4990	7.5	6.3	--	10.0	4.3	6.2	7.3
APR											
01...	1430	25.0	2000	8300	7.1	9.3	--	9.2	7.8	11.2	13.1
01...	1432	15.0	2000	7920	7.2	9.4	--	9.1	6.8	7.9	10.6
01...	1434	8.0	2000	7530	7.2	9.6	--	9.3	7.5	8.3	11.4
01...	1436	2.0	2000	7060	7.3	9.9	--	9.4	6.9	4.7	9.1
09...	1250	27.0	2000	4940	7.1	12.7	--	8.7	7.4	15.7	14.8
09...	1252	15.0	2000	4600	7.2	12.6	--	8.7	7.1	13.9	13.7
09...	1254	8.0	2000	4070	7.3	12.6	--	8.8	6.4	9.8	11.1
09...	1256	2.0	2000	3690	7.3	12.6	--	8.8	5.7	10.7	10.8
15...	1300	23.0	2000	896	7.3	14.2	7.0	8.7	7.5	20.1	17.1
15...	1301	17.0	2000	698	7.3	14.3	--	8.5	8.9	19.1	18.0
15...	1303	12.0	2000	650	7.3	14.4	--	8.5	7.8	19.9	17.3
15...	1304	7.0	2000	592	7.2	14.4	--	8.4	9.8	19.1	17.9
15...	1305	2.0	2000	586	7.2	14.4	--	8.4	8.6	19.2	17.8
15...	1332	7.0	11700	1020	7.3	14.5	7.0	8.9	10.0	20.4	19.8
15...	1334	2.0	11700	1019	7.3	14.5	--	8.8	9.6	20.0	19.2
16...	0940	23.0	2000	867	7.2	13.4	18.0	--	9.6	36.2	27.0
16...	0942	13.0	2000	809	7.2	13.4	--	--	8.5	20.6	18.4
16...	0944	3.0	2000	617	7.3	13.6	--	--	6.6	10.8	11.7
16...	1330	24.0	2000	726	7.5	14.3	--	8.0	8.5	24.2	20.2
22...	1332	15.0	2000	704	7.5	14.3	--	7.9	8.4	16.5	16.3

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT ---Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
APR											
22....	1334	3.0	2000	627	7.5	14.4	---	7.9	8.0	14.4	14.9
29....	1215	25.0	2000	5050	7.1	15.3	---	6.3	9.6	9.8	13.3
29....	1217	23.0	2000	5050	7.1	15.2	---	6.2	---	---	---
29....	1219	20.0	2000	3350	7.4	15.8	---	7.1	10.6	8.0	14.4
29....	1221	10.0	2000	2670	7.4	16.5	---	7.9	17.6	7.0	20.8
29....	1223	2.0	2000	2130	7.8	17.1	---	8.9	27.2	3.1	28.3
MAY											
04....	0945	25.0	2000	5760	7.3	15.1	---	8.1	---	---	---
04....	0947	12.0	2000	4310	7.4	15.1	---	8.5	---	---	---
04....	0949	3.0	2000	2910	7.6	15.5	---	9.1	---	---	---
19....	1250	20.0	2000	2250	7.3	17.8	12.0	7.4	20.9	23.1	31.8
19....	1251	19.0	2000	1970	7.4	17.8	---	7.6	26.4	24.9	38.1
19....	1252	12.0	2000	1580	7.5	17.8	---	8.1	32.2	24.3	43.5
19....	1253	7.0	2000	1490	7.6	17.8	---	8.4	31.7	21.6	41.7
19....	1255	2.0	2000	1410	7.7	17.8	---	8.5	34.5	23.2	45.3
19....	1322	10.0	11700	379	8.2	17.4	12.0	9.5	86.3	20.2	94.8
19....	1324	2.0	11700	390	8.2	17.5	---	9.6	82.5	21.2	91.6
27....	1025	3.0	2000	---	---	---	---	---	49.0	11.8	54.0
27....	1030	21.0	2000	---	---	---	---	---	45.0	15.9	52.0
28....	1350	24.0	2000	3050	7.2	21.0	24.0	5.8	---	---	---
28....	1352	20.0	2000	2690	7.2	21.0	---	5.9	---	---	---
28....	1354	10.0	2000	2070	7.3	21.1	---	6.6	---	---	---
28....	1356	2.0	2000	1780	7.8	22.1	---	8.1	---	---	---
JUN											
01....	1620	23.0	2000	1390	7.2	22.5	12.0	6.0	20.8	38.9	39.4
01....	1622	15.0	2000	1360	7.2	22.5	---	6.1	24.4	26.5	36.9
01....	1624	10.0	2000	1190	7.3	22.6	---	6.3	22.4	16.9	30.2
01....	1626	2.0	2000	967	7.3	22.6	---	6.7	27.5	16.3	35.0
01....	1630	8.0	11700	314	7.7	22.4	12.0	7.4	38.1	30.8	52.5
01....	1632	2.0	11700	315	7.7	22.5	---	7.4	38.4	20.5	47.8
30....	1535	2.0	2000	1480	7.9	27.0	---	8.4	42.4	11.0	47.1
30....	1537	7.0	2000	1680	7.6	26.8	---	7.7	37.8	9.9	42.1
30....	1538	13.0	2000	2720	7.1	26.4	---	6.0	22.2	10.2	26.8
30....	1539	16.0	2000	3240	6.9	26.3	---	5.5	18.9	13.2	25.0
30....	1540	24.0	2000	3610	6.9	26.4	13.0	5.3	17.8	33.2	33.6
30....	1616	7.0	11700	219	9.0	27.3	11.0	11.5	108	7.7	110
30....	1618	2.0	11700	220	9.0	27.3	---	11.7	102	19.1	110
JUL											
15....	1445	3.0	2000	2120	8.8	28.7	---	9.4	56.6	7.6	57.5
27....	2030	25.0	2000	6700	7.3	27.5	24.0	5.6	---	---	---
27....	2034	20.0	2000	6700	7.3	27.5	---	5.7	21.6	16.1	29.1
27....	2036	13.0	2000	6000	7.6	27.8	---	6.7	31.4	15.2	38.3

APPENDIX A-2

--Cont.

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (000095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (JG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL											
27....	2038	7.0	2000	5900	7.6	27.8	--	6.7	29.1	12.1	34.7
27....	2040	1.6	2000	4900	8.2	28.3	--	8.7	38.9	10.3	43.3
28....	0800	25.0	2000	6930	7.3	27.5	18.0	6.2	23.3	16.4	30.9
28....	0804	20.0	2000	6790	7.4	27.6	--	6.2	22.0	15.0	28.9
28....	0806	13.0	2000	6620	7.4	27.6	--	6.3	20.2	12.9	26.2
28....	0808	7.0	2000	6310	7.4	27.6	--	6.4	28.1	12.3	33.6
28....	0810	1.6	2000	5990	7.5	27.6	--	6.8	46.6	11.0	51.2
28....	0816	7.0	11700	4040	7.6	27.3	12.0	6.5	41.5	34.5	57.7
28....	0818	1.6	11700	4050	7.6	27.3	--	6.6	41.9	21.2	51.6
AUG											
17....	1705	24.0	2000	6990	7.3	26.8	24.0	5.6	9.3	18.8	18.3
17....	1708	20.0	2000	6990	7.3	26.8	--	5.6	10.1	14.2	16.8
17....	1710	13.0	2000	5790	7.5	26.9	--	6.4	16.0	9.1	20.2
17....	1712	7.0	2000	5360	7.5	26.9	--	6.7	18.5	10.6	23.4
17....	1714	1.6	2000	4540	7.9	27.0	--	7.7	36.4	7.1	39.3
17....	1726	7.0	11700	4170	7.7	27.0	18.0	7.1	27.6	20.9	37.4
17....	1728	1.6	11700	4190	7.8	27.0	--	7.3	31.8	11.0	36.7
SEP											
10....	1045	4.0	2000	6790	7.2	24.2	--	6.8	38.7	12.6	44.3
21....	1735	20.0	2000	7290	7.3	22.0	22.0	6.4	6.7	18.3	15.5
21....	1738	17.0	2000	7170	7.3	21.9	--	6.5	7.0	12.4	12.9
21....	1740	13.0	2000	7040	7.4	22.1	--	6.6	6.7	8.6	10.8
21....	1742	7.0	2000	6490	7.5	22.7	--	7.2	8.4	9.0	12.7
21....	1744	1.6	2000	5910	7.6	23.6	--	7.4	13.9	11.3	19.2
21....	1746	7.0	11700	5840	7.4	22.2	16.0	6.6	8.6	19.3	17.9
21....	1748	1.6	11700	5820	7.4	22.3	--	6.7	11.7	15.0	18.8

382233077102000 - POTOMAC RIVER AT STUART WHARF

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
OCT											
21...	1639	1.0	3600	14700	7.4	17.9	--	7.5	7.3	4.9	9.6
21...	1641	6.0	3600	15800	7.4	17.9	--	7.3	4.5	4.6	6.7
21...	1645	16.0	3600	17000	7.3	17.9	24.0	6.8	4.0	20.0	13.7
NOV											
17...	1800	2.0	3600	15400	7.9	9.7	--	9.5	9.1	5.0	11.4
17...	1803	6.0	3600	16600	7.9	9.8	--	9.4	10.6	4.0	12.4
17...	1804	16.0	3600	19000	7.9	10.2	--	9.0	14.0	6.3	16.8
17...	1805	25.0	3600	19700	7.9	10.0	--	9.1	10.0	11.6	15.5
DEC											
15...	1535	2.0	3600	16100	8.2	6.2	--	10.9	14.4	10.0	19.0
15...	1538	5.0	3600	17500	8.0	6.5	--	10.4	13.9	7.0	17.1
15...	1539	10.0	3600	18900	8.0	6.6	--	10.2	13.1	7.4	16.4
15...	1540	20.0	3600	19600	8.0	6.5	35.0	10.3	12.9	9.1	17.1
FEB											
03...	1200	22.0	3600	17900	7.9	1.1	--	12.6	--	--	--
03...	1202	3.0	3600	13500	8.0	.8	--	12.8	--	--	--
04...	1500	2.0	3600	15800	8.1	1.1	--	11.4	34.1	4.8	35.9
04...	1503	7.0	3600	15800	8.1	1.1	--	11.4	34.2	4.4	35.8
04...	1504	12.0	3600	16500	8.0	1.1	--	11.3	32.9	7.5	36.0
04...	1505	20.0	3600	18600	7.9	1.1	36.0	11.1	34.1	13.5	52.8
MAR											
03...	1740	2.0	3600	7940	7.9	6.8	--	11.7	35.0	5.6	37.2
03...	1742	10.0	3600	8950	7.8	6.7	--	11.1	34.8	7.2	37.8
03...	1743	17.0	3600	22600	7.4	5.3	--	9.1	67.6	6.3	69.6
03...	1745	23.0	3600	24800	7.5	5.1	22.0	9.2	73.2	15.8	79.8
18...	1015	2.0	3600	12700	7.4	5.4	--	9.2	21.3	8.6	25.2
18...	1017	7.0	3600	13500	7.4	5.6	--	9.1	17.1	11.2	22.2
18...	1018	12.0	3600	14200	7.4	5.6	--	9.0	19.1	17.3	27.2
18...	1019	18.0	3600	14500	7.4	5.6	--	9.0	19.4	18.1	26.9
18...	1020	22.0	3600	14800	7.4	5.6	24.0	9.2	20.6	25.7	32.8
APR											
15...	1410	2.0	3600	4650	7.2	13.9	--	8.7	5.5	10.8	10.6
15...	1413	10.0	3600	4660	7.2	13.8	--	8.7	4.8	10.9	10.0
15...	1414	17.0	3600	4830	7.2	13.7	--	8.7	6.6	16.5	14.5
15...	1415	23.0	3600	4930	7.2	13.6	12.0	8.7	7.4	16.3	15.1
MAY											
19...	1400	2.0	3600	6940	7.2	17.4	--	6.5	37.4	12.4	42.8
19...	1402	7.0	3600	7540	7.1	17.5	--	6.1	22.2	14.9	29.1
19...	1403	12.0	3600	7680	7.1	17.5	--	6.0	20.8	18.4	29.4
19...	1404	20.0	3600	7940	7.1	17.5	--	5.8	19.9	20.6	29.6
19...	1405	26.0	3600	9570	7.1	17.5	13.0	5.6	17.2	21.4	27.3
JUN											
01...	1540	23.0	3600	9680	6.8	21.6	15.0	3.4	4.0	34.6	20.8
01...	1542	16.0	3600	7350	6.8	21.8	--	4.3	5.3	11.8	10.9

382233077102000 - POTOMAC RIVER AT STUART WHARF

--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLLIA FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLLIA FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
JUN																					
01...	1544	10.0		3600		6820		6.8		21.8		--		4.5		18.5		1.6		17.5	
01...	1546	2.0		3600		6620		6.9		21.9		--		4.7		8.1		9.6		12.6	
18...	1310	27.0		3600		10600		6.8		25.6		19.0		2.2		3.0		8.3		7.0	
18...	1311	24.0		3600		9750		6.8		25.8		--		2.3		3.0		8.8		7.2	
18...	1312	21.0		3600		8250		6.8		26.1		--		2.8		4.6		9.5		9.1	
18...	1313	15.0		3600		6200		6.9		26.5		--		3.6		6.1		9.9		10.8	
18...	1314	9.0		3600		5170		6.9		26.6		--		3.8		7.0		9.7		11.6	
18...	1315	3.0		3600		4390		6.9		26.8		--		3.9		8.8		8.5		12.8	
18...	1410	27.0		3600		11500		6.7		25.6		--		2.1		3.8		7.0		7.1	
18...	1411	24.0		3600		9640		6.7		25.9		--		2.3		2.3		8.9		6.6	
18...	1412	21.0		3600		8100		6.8		26.1		--		2.8		3.9		8.7		8.0	
18...	1413	15.0		3600		5830		6.9		26.4		--		3.6		6.8		9.1		11.2	
18...	1414	9.0		3600		5270		6.9		26.5		--		3.8		7.0		9.5		11.5	
18...	1415	3.0		3600		4450		6.9		26.6		--		4.0		7.2		9.3		11.6	
18...	1510	27.0		3600		11100		6.7		25.7		--		2.1		3.5		20.2		13.2	
18...	1511	24.0		3600		9650		6.7		25.9		--		2.5		2.8		9.9		7.6	
18...	1512	21.0		3600		7430		6.8		26.2		--		3.1		4.3		12.5		10.3	
18...	1513	15.0		3600		5510		6.9		26.5		--		3.6		5.8		11.6		11.3	
18...	1514	9.0		3600		5200		6.9		26.5		--		3.7		5.9		10.3		10.8	
18...	1515	3.0		3600		4630		6.9		26.6		--		4.0		5.7		10.9		10.9	
18...	1610	27.0		3600		15000		6.7		24.7		19.0		1.2		3.2		22.9		14.3	
18...	1611	24.0		3600		12700		6.8		25.4		--		1.8		2.5		9.4		7.0	
18...	1612	21.0		3600		10200		6.8		25.7		--		2.3		2.8		6.7		6.0	
18...	1613	15.0		3600		5470		6.9		26.5		--		3.8		6.3		9.1		10.7	
18...	1614	9.00		3600		5150		6.9		26.6		--		3.9		6.8		9.1		11.1	
18...	1615	3.00		3600		3870		7.4		28.0		--		6.1		17.7		8.3		21.5	
18...	1710	28.0		3600		15000		6.7		24.5		19.0		1.2		2.7		11.3		8.1	
18...	1711	24.0		3600		12800		6.8		24.9		--		1.9		2.3		7.2		5.8	
18...	1712	21.0		3600		9470		6.8		25.8		--		2.7		3.1		7.2		6.5	
18...	1713	15.0		3600		8720		6.8		25.9		--		2.9		2.6		7.4		6.2	
18...	1714	9.0		3600		6030		6.9		26.3		--		3.6		3.8		8.5		7.9	
18...	1715	3.0		3600		5060		7.0		26.6		--		4.1		8.4		8.8		12.6	
18...	1810	29.0		3600		12800		6.7		25.0		21.0		1.9		3.3		15.1		10.6	
18...	1811	24.0		3600		12300		6.8		25.2		--		2.0		2.4		8.8		6.6	
18...	1812	21.0		3600		11700		6.8		25.3		--		2.2		3.1		7.2		6.6	
18...	1813	15.0		3600		8430		6.9		26.0		--		3.4		6.4		7.0		9.7	
18...	1814	9.00		3600		6590		7.1		26.8		--		4.9		8.6		7.0		11.9	
18...	1815	3.00		3600		5830		7.2		27.2		--		5.5		17.6		6.9		20.7	
18...	1910	29.0		3600		12500		6.7		25.1		22.0		1.8		3.1		15.1		10.4	

APPENDIX A-2

382233077102000 - POTOMAC RIVER AT STUART WHARF

---Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL/A METRIC METHOD CORR. (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUN											
18...	1911	24.0	3600	12500	6.8	25.0	--	1.8	3.1	9.8	7.8
18...	1912	21.0	3600	12600	6.8	25.1	--	2.0	3.1	5.8	5.9
18...	1913	15.0	3600	9450	6.9	26.0	--	3.7	5.6	6.8	8.8
18...	1914	9.0	3600	9220	7.0	26.0	--	3.8	6.2	7.1	9.6
18...	1915	3.0	3600	6700	7.2	27.0	--	5.3	11.4	6.5	14.4
18...	2010	28.0	3600	14200	6.8	24.6	21.0	1.7	3.7	15.1	10.9
18...	2011	24.0	3600	14000	6.8	24.7	--	1.7	3.9	21.3	14.2
18...	2012	21.0	3600	13500	6.8	24.8	--	2.1	5.9	5.5	8.5
18...	2013	15.0	3600	9250	7.0	26.0	--	4.1	7.9	7.3	11.4
18...	2014	9.0	3600	8480	7.1	26.5	--	4.7	8.8	6.9	12.0
18...	2015	3.0	3600	7410	7.1	26.6	--	5.0	11.6	6.9	14.7
18...	2100	27.0	3600	14800	6.8	24.5	--	1.6	7.0	6.3	9.9
18...	2101	24.0	3600	14500	6.8	24.6	--	1.6	6.7	6.1	9.6
18...	2102	21.0	3600	14400	6.8	24.6	--	1.7	7.6	6.2	10.4
18...	2103	15.0	3600	9460	7.0	25.8	--	3.6	7.6	6.2	10.5
18...	2104	9.0	3600	7340	7.2	26.6	--	5.0	9.7	5.3	12.1
18...	2105	3.0	3600	7290	7.2	26.6	--	5.4	8.2	5.9	10.9
18...	2210	28.0	3600	14300	6.8	24.6	--	1.6	4.8	6.1	7.7
18...	2211	24.0	3600	14200	6.8	24.6	--	1.6	4.9	6.0	7.8
18...	2212	21.0	3600	13000	6.9	24.8	--	2.2	7.0	5.1	9.4
18...	2213	15.0	3600	11800	6.9	25.3	--	2.9	6.7	5.0	9.0
18...	2214	9.0	3600	7440	7.1	26.5	--	5.0	7.3	5.8	10.0
18...	2215	3.0	3600	7240	7.2	26.5	--	5.2	8.0	6.0	10.8
18...	2310	27.0	3600	13900	6.8	24.7	--	1.4	5.6	7.2	9.0
18...	2311	24.0	3600	13600	6.8	24.7	--	1.8	7.7	6.1	10.5
18...	2312	21.0	3600	12400	6.9	25.1	--	2.4	5.9	5.8	8.6
18...	2313	15.0	3600	10500	6.9	25.6	--	2.8	5.1	5.7	7.8
18...	2314	9.0	3600	7050	7.2	26.7	--	4.9	9.6	7.9	13.3
18...	2315	3.0	3600	6420	7.2	26.8	--	5.0	8.4	6.2	11.3
19...	0010	28.0	3600	12700	6.8	24.9	--	1.6	5.8	8.0	9.6
19...	0011	24.0	3600	12500	6.8	25.0	--	1.7	6.2	6.0	9.0
19...	0012	21.0	3600	11800	6.8	25.2	--	2.0	3.5	5.9	6.3
19...	0013	15.0	3600	9590	6.9	25.9	--	3.1	4.9	6.6	8.1
19...	0014	9.0	3600	8030	7.0	26.1	--	3.6	5.3	6.7	8.4
19...	0015	3.0	3600	5630	7.1	26.9	--	4.8	10.3	6.6	13.3
19...	0110	27.0	3600	12700	6.8	24.9	--	1.6	4.0	6.5	7.1
19...	0111	24.0	3600	12000	6.8	25.1	--	1.9	5.0	5.4	7.6
19...	0112	21.0	3600	11200	6.8	25.3	--	2.1	4.6	7.0	7.9
19...	0113	15.0	3600	9160	6.9	25.8	--	2.9	4.6	7.1	8.0

APPENDIX A-2

382233077102000 - POTOMAC RIVER AT STUART WHARF

--Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUN											
19...	0114	9.0	3600	8500	6.9	26.1	--	3.3	6.0	5.8	9.3
19...	0115	3.0	3600	5000	7.0	26.8	--	4.0	5.6	8.9	9.9
19...	0210	27.0	3600	12600	6.8	24.9	--	1.5	3.5	6.8	6.8
19...	0211	24.0	3600	12300	6.8	25.0	--	1.7	6.4	6.4	9.4
19...	0212	21.0	3600	11400	6.8	25.2	--	2.0	4.5	9.1	8.9
19...	0213	15.0	3600	8920	6.9	25.4	--	3.0	4.5	6.6	7.6
19...	0214	9.0	3600	6970	7.0	26.3	--	3.8	5.4	9.8	10.1
19...	0215	3.0	3600	6100	7.0	26.5	--	3.9	6.0	8.1	9.8
19...	0310	26.0	3600	12500	6.8	25.0	--	1.6	5.5	13.7	12.1
19...	0311	24.0	3600	10500	6.9	25.4	--	2.3	8.9	7.0	12.2
19...	0312	21.0	3600	10400	6.9	25.5	--	2.4	5.3	7.8	9.0
19...	0313	15.0	3600	7140	7.0	26.2	--	3.5	5.6	7.7	9.3
19...	0314	9.0	3600	6510	7.0	26.3	--	3.9	6.4	8.2	10.3
19...	0315	3.0	3600	5200	7.0	26.5	--	4.2	6.4	7.0	9.7
19...	0410	27.0	3600	15600	6.8	24.2	--	1.0	7.1	12.8	13.2
19...	0411	24.0	3600	12900	6.8	24.8	--	1.8	6.7	5.0	9.0
19...	0412	21.0	3600	11700	6.8	25.1	--	2.1	8.0	6.7	11.1
19...	0413	15.0	3600	9590	6.9	25.8	--	2.7	7.1	6.4	10.1
19...	0414	9.0	3600	5870	7.1	26.5	--	4.4	6.2	6.9	9.4
19...	0415	3.0	3600	4900	7.1	26.5	--	4.5	5.9	7.0	9.2
19...	0510	27.0	3600	15200	6.8	24.3	--	1.2	2.7	8.6	6.8
19...	0511	24.0	3600	12200	6.9	25.0	--	2.1	4.3	5.6	6.9
19...	0512	21.0	3600	9400	6.9	25.7	--	3.2	4.9	6.3	7.9
19...	0513	15.0	3600	8850	7.0	25.8	--	3.4	5.2	6.7	8.4
19...	0514	9.0	3600	8240	7.0	26.0	--	3.5	6.9	6.2	9.8
19...	0515	3.0	3600	7080	7.0	26.3	--	3.8	7.1	6.0	9.9
30...	1715	2.0	3600	11800	7.0	25.9	--	4.4	15.5	6.0	18.2
30...	1717	7.0	3600	12700	6.9	25.7	--	3.7	11.6	5.3	14.0
30...	1718	15.0	3600	13300	6.9	25.7	--	3.8	11.2	5.6	13.8
30...	1719	20.0	3600	14200	6.9	25.4	--	3.0	7.5	9.1	11.8
30...	1720	24.0	3600	14500	6.8	25.4	--	2.9	6.8	18.3	15.6
JUL											
15...	1200	3.0	3600	9840	7.5	28.1	--	5.3	--	--	--
27...	1924	1.6	3600	9700	7.3	27.8	--	5.9	10.6	8.3	14.5
27...	1927	6.0	3600	11600	7.0	27.4	--	4.4	12.7	8.8	16.8
27...	1928	13.0	3600	12500	7.0	27.2	--	3.8	5.2	7.5	8.8
27...	1929	19.0	3600	14100	6.9	27.1	--	3.1	9.8	11.6	15.2
27...	1930	26.0	3600	14300	6.9	27.1	18.0	3.0	11.1	25.5	23.3
AUG											
17...	1619	1.6	3600	10900	7.2	27.2	--	5.1	14.7	6.2	17.5
17...	1622	6.0	3600	11500	7.0	27.1	--	4.2	6.5	6.7	9.7

382233077102000 - POTOMAC RIVER AT STUART WHARF

--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION, (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG											
17...	1623	13.0	3600	11800	7.0	27.1	--	3.9	6.1	7.9	9.9
17...	1624	19.0	3600	12800	7.0	27.1	--	3.8	5.0	6.4	8.0
17...	1625	26.0	3600	13600	6.9	27.1	19.0	3.2	5.8	21.1	16.0
SEP											
10...	1200	3.0	3600	12200	7.0	24.6	--	5.8	9.0	5.6	11.6
21...	1630	22.0	3600	14700	7.3	22.3	23.0	5.6	3.7	9.4	8.2
21...	1631	19.0	3600	14500	7.2	22.2	--	5.6	3.7	5.4	6.3
21...	1632	13.0	3600	13600	7.3	22.2	--	6.1	5.3	4.5	7.5
21...	1633	6.0	3600	12700	7.4	23.2	--	7.1	6.4	4.3	8.4
21...	1636	1.6	3600	12100	7.5	23.2	--	7.2	16.0	4.6	18.0

APPENDIX A-2

01660800 - POTOMAC R NR MORGANTOWN, MD

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- (00003)	LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
					(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
OCT												
01...	1800	3.0		1500	17100	7.0	22.7	--	6.0	7.0	3.4	8.6
01...	1801	15.0		1500	17400	7.0	22.7	--	--	2.4	3.0	3.8
01...	1802	30.0		1500	18100	7.0	22.8	--	--	2.7	2.7	3.9
01...	1803	50.0		1500	19000	7.0	22.8	--	5.3	--	--	--
01...	1805	59.0		1500	18900	7.0	22.9	--	--	2.8	5.9	5.6
09...	1120	3.0		1500	17200	7.0	19.4	54.0	6.2	7.5	3.5	9.1
09...	1122	10.0		1500	17000	7.0	19.4	--	6.1	--	--	--
09...	1123	20.0		1500	17900	7.0	19.9	--	6.1	--	--	--
09...	1124	40.0		1500	18600	7.0	19.7	--	6.1	--	--	--
09...	1125	65.0		1500	18800	7.0	19.7	--	6.0	5.8	10.0	10.6
14...	1530	3.0		1500	16100	7.5	17.5	54.0	7.8	12.2	3.3	13.6
14...	1531	10.0		1500	16200	7.5	17.0	--	7.6	--	--	--
14...	1532	20.0		1500	16500	7.4	16.9	--	7.5	--	--	--
14...	1533	30.0		1500	19400	7.3	18.1	--	6.7	--	--	--
14...	1534	40.0		1500	19600	7.3	17.9	--	6.8	--	--	--
14...	1535	70.0		1500	20100	7.4	17.9	--	6.8	6.2	3.8	7.9
21...	1735	2.0		1500	19300	7.9	18.0	--	8.6	25.7	3.5	27.0
21...	1736	10.0		1500	20000	7.7	18.6	--	7.8	15.3	3.6	16.8
21...	1737	23.0		1500	20200	7.6	18.3	--	7.5	11.8	3.4	13.3
21...	1738	32.0		1500	20800	7.6	18.0	--	6.9	11.0	3.0	12.3
21...	1739	49.0		1500	22000	7.4	18.1	48.0	5.9	6.9	5.4	9.4
21...	1740	67.0		1500	22100	7.4	18.1	--	5.8	8.2	4.2	10.2
27...	1315	3.0		1500	15900	7.5	13.7	--	8.2	6.8	11.4	12.2
27...	1316	10.0		1500	16500	7.5	13.7	--	8.1	--	--	--
27...	1317	20.0		1500	17400	7.4	14.0	--	8.0	--	--	--
27...	1318	32.0		1500	19000	7.4	14.3	--	7.7	--	--	--
27...	1320	52.0		1500	20200	7.3	14.6	--	7.6	6.0	2.7	7.2
NOV												
05...	1600	57.0		1500	22900	7.6	12.8	60.0	7.3	8.6	8.9	12.8
05...	1601	40.0		1500	22300	7.6	12.8	--	7.4	10.3	4.4	12.3
05...	1602	30.0		1500	21100	7.7	12.7	--	7.9	10.9	3.4	12.4
05...	1603	20.0		1500	20900	7.7	12.7	--	7.9	10.5	3.2	11.9
05...	1604	10.0		1500	18900	7.7	12.4	--	8.2	11.1	2.3	12.1
05...	1605	2.0		1500	18900	7.7	12.4	--	8.3	11.4	2.6	12.5
13...	0720	2.0		1500	19000	7.7	9.5	46.0	9.1	18.9	2.5	19.8
13...	0722	10.0		1500	22600	7.8	10.4	--	8.8	--	--	--
13...	0723	20.0		1500	23800	7.8	10.5	--	8.8	--	--	--
13...	0724	40.0		1500	25100	7.8	10.7	--	8.7	--	--	--
13...	0725	67.0		1500	25400	7.8	10.8	--	8.9	26.7	14.5	33.3
17...	1705	2.0		1500	22000	8.1	9.9	--	9.5	15.0	4.6	17.0

APPENDIX A-2

01660800 - POTOMAC R NR MORGANTOWN, MD --Cont.
WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLDRO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLDRO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
NOV											
17...	1706	10.0	1500	22100	8.1	10.0	--	9.2	15.6	4.2	17.5
17...	1707	23.0	1500	23000	8.0	10.4	--	8.9	13.0	5.0	15.2
17...	1708	32.0	1500	24500	7.9	10.7	--	8.4	14.0	5.8	16.6
17...	1709	49.0	1500	25700	7.9	10.9	--	8.1	11.6	6.5	14.6
17...	1710	61.0	1500	26400	7.9	11.0	--	7.8	14.3	7.3	17.6
28...	1430	70.0	1500	25600	7.8	8.2	42.0	10.3	38.8	8.1	42.2
28...	1433	60.0	1500	26000	7.8	8.2	--	10.3	--	--	--
28...	1435	50.0	1500	25300	7.8	8.1	--	10.3	--	--	--
28...	1437	40.0	1500	25000	7.8	8.1	--	10.3	--	--	--
28...	1439	10.0	1500	21300	7.9	7.7	--	11.0	--	--	--
28...	1440	3.0	1500	20700	7.9	7.7	--	11.1	34.5	--	33.8
DEC											
04...	1340	60.0	1500	20800	--	--	35.0	--	23.1	7.3	26.3
04...	1345	3.0	1500	18200	--	--	--	--	26.1	3.3	27.3
09...	1620	2.0	1500	20600	7.9	7.4	--	9.3	10.5	3.2	11.9
09...	1622	15.0	1500	22500	7.9	7.5	--	9.3	--	--	--
09...	1623	25.0	1500	22500	7.9	7.2	--	9.1	--	--	--
09...	1624	45.0	1500	25600	7.9	6.8	--	8.4	--	--	--
09...	1625	61.0	1500	26500	7.9	6.8	--	8.6	13.0	10.0	17.6
15...	1435	2.0	1500	22600	8.2	6.8	--	11.0	24.3	6.0	26.9
15...	1440	68.0	1500	26700	7.9	7.2	57.0	9.3	24.0	13.1	30.0
15...	1441	60.0	1500	26200	7.9	7.2	--	9.3	18.0	6.1	20.7
15...	1442	50.0	1500	25800	7.9	7.2	--	9.4	19.0	8.8	23.0
15...	1443	40.0	1500	25400	8.0	7.1	--	9.5	18.0	7.2	21.2
15...	1444	30.0	1500	24500	8.0	6.8	--	9.9	16.4	5.0	18.6
15...	1445	20.0	1500	24000	8.0	6.7	--	10.2	16.5	3.6	18.0
15...	1446	10.0	1500	23200	8.1	6.7	--	10.7	16.0	3.6	17.5
15...	1447	5.0	1500	22900	8.1	6.8	--	10.7	18.9	4.0	20.6
JAN											
02...	1410	3.0	1500	21300	8.3	1.5	--	11.7	16.2	4.1	18.0
02...	1412	10.0	1500	23700	8.3	1.6	--	11.2	--	--	--
02...	1414	20.0	1500	24400	8.2	1.8	--	11.0	--	--	--
02...	1416	40.0	1500	26400	8.2	2.0	--	10.5	--	--	--
02...	1420	69.0	1500	27000	8.1	2.2	--	10.4	27.2	13.4	33.4
22...	0910	2.0	1500	25000	8.1	.2	--	13.2	17.3	2.4	18.3
22...	0911	7.0	1500	25500	8.1	.0	--	13.2	21.0	5.0	23.2
22...	0912	12.0	1500	25800	8.0	.0	--	13.2	20.5	5.7	22.9
22...	0913	20.0	1500	25900	8.0	.0	--	13.2	22.6	3.4	23.9
22...	0914	30.0	1500	25900	8.0	.0	--	13.2	19.3	4.5	21.2
22...	0915	60.0	1500	26000	8.1	.0	66.0	12.9	27.2	4.0	28.7

APPENDIX A-2

01660800 - POTOMAC R NR MORGANTOWN, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (000003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (000095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (000077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JAN 22...	0916	40.0	1500	26000	8.1	.0	--	12.9	24.7	3.0	25.8
22...	0917	50.0	1500	26000	8.1	.0	--	12.9	24.2	2.5	25.1
FER 03...	1025	70.0	1500	25800	8.0	.8	--	12.2	--	--	--
03...	1030	3.0	1500	21700	8.0	.8	--	12.3	--	--	--
04...	1610	2.0	1500	21500	8.1	1.6	60.0	11.1	24.7	2.6	25.6
04...	1615	72.0	1500	24600	7.9	1.0	--	11.0	28.6	5.9	31.0
04...	1617	60.0	1500	24500	8.0	1.0	--	10.8	27.0	6.1	29.5
04...	1618	50.0	1500	24400	8.0	1.0	--	10.8	27.9	5.2	30.0
04...	1619	40.0	1500	24200	8.1	1.0	--	10.8	24.2	4.2	25.9
04...	1620	30.0	1500	24300	8.1	1.0	--	10.9	23.5	5.9	26.0
04...	1621	20.0	1500	24100	8.1	1.0	--	10.8	23.9	2.9	25.0
04...	1622	10.0	1500	21700	8.1	2.1	--	11.0	24.6	3.9	26.2
13...	1200	58.0	1500	24000	7.7	1.3	54.0	11.2	14.5	13.5	20.8
13...	1204	41.0	1500	23600	7.8	1.2	--	11.4	4.8	5.4	7.4
13...	1206	25.0	1500	22900	7.8	1.2	--	11.7	--	--	--
13...	1208	15.0	1500	22200	7.8	1.2	--	11.6	17.4	3.4	18.8
13...	1210	3.0	1500	21600	7.8	1.4	--	12.1	4.4	4.2	6.3
19...	1345	57.0	1500	25000	7.9	3.6	54.0	10.6	50.6	19.2	59.1
19...	1349	40.0	1500	24400	7.9	3.6	--	10.9	45.0	11.4	49.9
19...	1353	20.0	1500	23200	7.9	3.7	--	11.1	39.2	4.7	40.9
19...	1355	3.0	1500	20200	8.2	4.4	--	12.6	45.6	2.6	46.2
26...	1630	59.0	1500	--	--	--	--	--	73.8	6.1	75.6
26...	1635	20.0	1500	--	--	--	--	--	53.6	2.7	54.1
26...	1640	3.0	1500	--	--	--	--	--	51.7	5.8	53.8
VAR											
03...	1630	3.0	1500	14800	8.1	6.2	30.0	12.4	48.2	2.6	48.8
03...	1631	10.0	1500	20300	7.8	6.2	--	11.4	55.3	3.6	56.2
03...	1632	20.0	1500	25900	7.7	5.0	--	10.5	150	14.3	155
03...	1633	30.0	1500	26900	7.7	4.9	--	10.6	114	9.0	116
03...	1634	40.0	1500	28300	7.7	4.7	--	10.4	103	8.6	105
03...	1635	70.0	1500	29100	7.7	4.7	--	10.2	99.6	15.8	106
03...	1636	50.0	1500	29700	7.6	4.7	--	10.3	97.7	11.9	102
03...	1637	60.0	1500	29100	7.6	4.6	--	10.2	95.2	15.1	101
09...	1145	3.0	1500	21900	7.6	5.0	31.0	11.2	44.5	5.1	46.4
09...	1147	20.0	1500	22200	7.7	5.0	--	11.3	54.2	6.6	56.6
09...	1148	30.0	1500	22500	7.8	5.1	--	11.6	52.0	8.8	55.5
09...	1149	37.0	1500	21600	7.8	5.1	--	11.8	56.2	2.6	56.7
09...	1150	57.0	1500	20600	7.9	5.4	--	12.1	57.4	10.6	61.7
18...	1050	2.0	1500	16900	7.6	5.1	--	9.3	35.9	6.7	38.6

APPENDIX A-2

01660800 - POTOMAC R NR MORGANTOWN, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
MAR	18...	72.0	1500	21100	7.7	5.4	33.0	9.0	41.1	6.7	43.8
	1055	60.0	1500	21000	7.7	5.4	--	9.1	39.8	8.6	43.4
	1057	50.0	1500	20900	7.7	5.4	--	9.1	38.9	8.4	42.4
	1058	40.0	1500	19900	7.6	5.4	--	9.1	38.6	5.3	40.7
	1100	30.0	1500	19500	7.6	5.4	--	9.0	31.8	9.6	36.0
	1101	20.0	1500	18600	7.6	5.3	--	9.0	31.8	5.9	34.2
	1102	14.0	1500	18300	7.6	5.3	--	9.0	29.1	6.9	32.0
	1103	7.0	1500	17300	7.6	5.2	--	9.2	29.3	6.6	32.0
	1445	3.0	1500	17800	7.9	7.6	42.0	10.6	17.3	2.9	18.4
	1447	9.0	1500	18800	7.9	6.8	--	9.9	--	--	--
	1449	15.0	1500	19800	7.8	6.4	--	9.5	15.8	3.2	17.1
	1451	30.0	1500	21400	7.9	6.0	--	9.5	20.5	6.0	23.1
	1453	46.0	1500	22100	7.8	5.8	--	8.8	26.2	7.5	29.5
	1455	61.0	1500	22300	7.8	5.9	--	8.9	27.4	6.2	30.0
APR	02...	56.0	1500	21900	7.4	8.5	--	6.9	12.0	11.1	17.2
	1903	35.0	1500	21600	7.3	8.6	--	7.1	11.7	5.7	14.4
	1906	27.0	1500	21200	7.3	8.8	--	7.3	10.0	8.2	13.8
	1909	15.0	1500	20000	7.3	9.7	--	7.8	7.9	5.8	10.6
	1910	3.0	1500	18600	7.3	10.3	--	8.0	4.8	4.5	6.9
	1220	63.0	1500	19500	7.2	11.0	18.0	7.2	5.7	42.2	26.0
	1224	48.0	1500	19400	7.3	11.0	--	7.1	4.3	19.8	13.8
	1226	31.0	1500	18800	7.3	11.0	--	7.3	3.0	11.7	8.6
	1228	15.0	1500	17500	7.3	11.1	--	7.4	5.1	11.7	10.7
	1230	3.0	1500	15700	7.4	11.8	--	7.8	4.9	6.7	8.1
	1510	2.0	1500	11400	7.2	13.7	--	8.5	2.1	5.3	4.6
	1515	68.0	1500	19300	7.1	12.8	19.0	7.5	11.2	18.0	19.8
	1516	60.0	1500	19200	7.2	12.8	--	7.5	9.7	13.4	16.1
	1517	50.0	1500	18300	7.2	12.8	--	7.6	7.3	8.0	11.0
	1518	40.0	1500	18100	7.2	12.8	--	7.6	6.6	6.6	9.8
	1519	30.0	1500	16200	7.2	12.9	--	8.0	4.7	6.3	7.7
	1520	20.0	1500	14200	7.2	13.1	--	8.0	3.3	6.3	6.3
	1521	10.0	1500	11800	7.2	13.6	--	8.5	2.8	5.0	5.2
	1325	3.0	1500	--	--	--	--	--	32.7	7.3	35.8
	1327	20.0	1500	--	--	--	--	--	29.5	6.2	32.1
	1329	42.0	1500	--	--	--	--	--	61.2	7.7	64.1
	1330	62.0	1500	--	--	--	--	--	65.0	23.6	75.5
	1330	2.0	1500	14000	7.9	15.6	--	9.2	52.5	4.9	54.1
	1332	8.0	1500	16100	7.9	15.4	--	9.0	--	--	--
	1333	15.0	1500	20800	7.9	13.9	--	7.5	71.0	9.3	74.5

01660800 - POTOMAC R NR MORGANTOWN, MD --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
APR											
30...	1334	30.0	1500	23400	7.9	13.1	--	6.9	86.0	9.8	89.5
30...	1335	40.0	1500	24200	7.9	12.8	--	6.7	88.1	9.4	91.4
30...	1336	50.0	1500	25000	7.8	12.7	--	6.2	90.0	28.6	103
30...	1340	59.0	1500	25100	7.8	12.6	--	6.3	96.2	40.1	114
MAY											
04...	1350	3.0	1500	16100	7.9	15.5	24.0	--	47.4	7.6	50.4
04...	1351	20.0	1500	18600	7.8	14.5	--	--	57.8	11.5	62.6
04...	1352	40.0	1500	19500	7.8	14.2	--	--	58.8	13.0	64.3
04...	1355	69.0	1500	20600	7.9	14.0	--	--	62.3	11.4	66.9
05...	1813	3.0	900	20200	8.3	15.9	--	10.1	--	--	--
05...	1814	13.0	900	20400	8.4	15.8	--	10.6	--	--	--
05...	1816	23.0	900	20800	8.3	15.7	--	10.5	--	--	--
05...	1818	33.0	900	20900	8.3	15.5	--	10.1	--	--	--
05...	1821	43.0	900	21600	8.1	14.8	--	8.3	--	--	--
05...	1823	53.0	900	21800	8.1	14.6	--	7.7	--	--	--
05...	1824	63.0	900	21800	8.1	14.6	--	7.6	--	--	--
05...	1827	73.0	900	21800	8.0	14.6	--	7.6	--	--	--
05...	1900	3.0	900	20200	8.3	15.7	--	10.6	56.4	12.9	61.8
05...	1902	15.0	900	20800	8.4	15.5	--	10.7	56.5	23.5	67.1
05...	1904	30.0	900	21000	8.3	15.4	--	10.0	68.4	10.7	72.7
05...	1906	45.0	900	21900	8.1	14.5	--	7.8	58.3	21.4	67.8
05...	1908	60.0	900	21900	8.1	14.5	--	7.8	58.3	21.4	67.8
05...	1910	70.0	900	21900	8.1	14.5	--	7.8	56.6	27.1	78.8
05...	2025	3.0	900	20600	8.2	16.6	--	9.7	--	--	--
05...	2026	15.0	900	20700	8.3	15.7	--	10.5	--	--	--
05...	2027	30.0	900	21300	8.1	14.9	--	8.7	--	--	--
05...	2028	45.0	900	21600	8.1	14.7	--	8.2	--	--	--
05...	2029	60.0	900	21900	8.0	14.4	--	7.6	--	--	--
05...	2030	70.0	900	21900	8.0	14.4	--	7.5	--	--	--
05...	2110	3.0	900	20200	8.2	15.5	--	9.5	--	--	--
05...	2111	15.0	900	20800	8.3	15.4	--	10.4	--	--	--
05...	2112	30.0	900	21100	8.2	15.0	--	9.1	--	--	--
05...	2113	45.0	900	21700	8.1	14.6	--	8.2	--	--	--
05...	2114	60.0	900	21900	8.1	14.4	--	7.6	--	--	--
05...	2115	70.0	900	22000	8.1	14.4	--	7.5	--	--	--
05...	2205	3.0	900	19400	8.1	15.5	--	9.4	--	--	--
05...	2206	15.0	900	20500	8.2	15.5	--	10.3	--	--	--
05...	2207	30.0	900	21100	8.2	15.1	--	9.8	--	--	--
05...	2208	45.0	900	21700	8.1	14.6	--	8.3	--	--	--
05...	2209	60.0	900	21900	8.0	14.4	--	7.8	--	--	--

APPENDIX A-2

01660900 - POTOMAC R NR MORGANTOWN, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- L (00003)	LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
MAY	2210	69.0	900	900	21900	8.0	14.4	--	7.6	--	--	--
05...	2300	3.0	900	900	19200	8.1	15.5	--	9.4	--	--	--
05...	2301	15.0	900	900	20000	8.1	15.4	--	9.4	--	--	--
05...	2302	30.0	900	900	20800	8.2	15.3	--	9.7	--	--	--
05...	2303	45.0	900	900	21000	8.1	14.5	--	9.1	--	--	--
05...	2304	60.0	900	900	21600	8.0	14.6	--	8.2	--	--	--
05...	2305	71.0	900	900	21700	8.0	14.5	--	7.8	--	--	--
06...	0001	3.0	900	900	18700	8.1	15.3	--	8.6	--	--	--
06...	0002	15.0	900	900	19600	8.1	15.0	--	8.4	--	--	--
06...	0003	30.0	900	900	19900	8.1	15.1	--	8.6	--	--	--
06...	0004	45.0	900	900	20700	8.1	14.9	--	8.4	--	--	--
06...	0005	60.0	900	900	21200	8.1	14.7	--	7.9	--	--	--
06...	0006	69.0	900	900	21400	8.1	14.6	--	7.7	--	--	--
06...	0115	3.0	900	900	17700	7.9	15.2	--	8.5	--	--	--
06...	0116	15.0	900	900	18600	8.0	15.1	--	8.2	--	--	--
06...	0117	30.0	900	900	19200	8.0	15.0	--	8.0	--	--	--
06...	0118	45.0	900	900	20500	8.1	14.7	--	7.7	--	--	--
06...	0119	60.0	900	900	20700	8.1	14.6	--	7.5	--	--	--
06...	0120	70.0	900	900	21100	8.0	14.6	--	7.5	--	--	--
06...	0200	3.0	900	900	17600	7.9	15.2	--	8.2	--	--	--
06...	0201	15.0	900	900	19600	8.0	15.0	--	7.9	--	--	--
06...	0202	30.0	900	900	19000	8.0	15.0	--	7.8	--	--	--
06...	0203	45.0	900	900	20600	8.0	14.7	--	7.6	--	--	--
06...	0204	60.0	900	900	20900	8.1	14.6	--	7.5	--	--	--
06...	0205	70.0	900	900	21100	8.1	14.6	--	7.5	--	--	--
06...	0300	3.0	900	900	17700	8.0	15.2	--	8.2	--	--	--
06...	0301	15.0	900	900	19100	7.9	15.5	--	7.8	--	--	--
06...	0302	30.0	900	900	19600	8.0	15.7	--	8.2	--	--	--
06...	0303	45.0	900	900	20100	8.0	15.1	--	8.0	--	--	--
06...	0304	60.0	900	900	20500	8.1	14.7	--	7.7	--	--	--
06...	0305	70.0	900	900	21100	8.1	14.6	--	7.5	--	--	--
06...	0400	3.0	900	900	18000	7.9	15.1	--	8.1	--	--	--
06...	0401	15.0	900	900	19100	8.0	15.2	--	8.1	--	--	--
06...	0402	30.0	900	900	19900	8.0	15.4	--	8.1	--	--	--
06...	0403	45.0	900	900	20600	8.1	14.9	--	7.9	--	--	--
06...	0404	60.0	900	900	21100	8.1	14.7	--	7.8	--	--	--
06...	0405	71.0	900	900	21100	8.1	14.7	--	7.8	--	--	--
06...	0500	3.0	900	900	18700	8.1	15.1	--	8.0	--	--	--
06...	0501	15.0	900	900	19600	8.1	15.1	--	8.1	--	--	--

01660800 - POTOMAC R NR MORGANTOWN, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLA FLUORO- METRIC CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
MAY	0502	30.0	900	20600	8.3	15.1	--	8.6	--	--	--
06...	0503	45.0	900	21200	8.2	14.9	--	8.2	--	--	--
06...	0504	60.0	900	21700	8.2	14.7	--	7.7	--	--	--
06...	0505	73.0	900	21900	8.2	14.6	--	7.4	--	--	--
06...	0615	3.0	900	19900	8.2	15.0	--	8.6	--	--	--
06...	0616	15.0	900	20700	8.3	15.0	--	8.8	--	--	--
06...	0617	30.0	900	21300	8.2	14.7	--	--	--	--	--
06...	0618	45.0	900	21600	8.2	14.5	--	7.5	--	--	--
06...	0619	60.0	900	21700	8.2	14.5	--	7.5	--	--	--
06...	0620	70.0	900	21700	8.2	14.5	--	7.5	--	--	--
06...	0710	3.0	900	20400	8.2	15.0	--	8.6	59.9	16.1	65.9
06...	0711	15.0	900	20700	8.3	14.9	--	8.6	60.0	17.8	67.7
06...	0712	30.0	900	21400	8.2	14.6	--	7.7	65.6	14.5	71.7
06...	0713	45.0	900	21600	8.2	14.6	--	7.5	64.2	21.7	73.8
06...	0714	60.0	900	21700	8.2	14.6	--	7.5	65.4	25.4	76.8
06...	0715	73.0	900	--	8.2	14.5	--	7.4	68.9	29.5	82.2
06...	0800	3.0	900	20400	8.3	15.1	--	8.3	--	--	--
06...	0801	15.0	900	20700	8.3	15.0	--	8.5	--	--	--
06...	0802	30.0	900	20800	8.2	14.9	--	8.2	--	--	--
06...	0803	45.0	900	21500	8.2	14.7	--	7.7	--	--	--
06...	0804	60.0	900	21500	8.2	14.7	--	7.5	--	--	--
06...	0805	73.0	900	21500	8.2	14.6	--	7.5	--	--	--
11...	1220	58.0	1500	19900	7.8	16.0	36.0	6.3	20.0	8.7	23.9
11...	1222	50.0	1500	19400	7.9	16.3	--	6.8	26.7	8.5	30.5
11...	1224	40.0	1500	19300	7.9	16.3	--	7.2	29.1	8.0	32.6
11...	1226	30.0	1500	19100	7.9	16.4	--	7.4	32.6	8.4	36.2
11...	1228	20.0	1500	19100	7.9	16.4	--	7.4	33.4	8.7	37.2
11...	1229	10.0	1500	19100	7.9	16.4	--	7.4	33.4	8.7	37.2
11...	1230	2.0	1500	18900	7.9	16.5	--	7.6	39.4	11.5	44.4
19...	1447	7.0	1500	15500	7.8	17.2	--	6.5	35.7	11.3	40.7
19...	1448	12.0	1500	16900	7.8	17.3	--	6.2	34.0	9.8	38.2
19...	1449	20.0	1500	17700	7.8	17.3	--	5.7	31.8	9.4	35.9
19...	1450	30.0	1500	18300	7.7	17.3	--	4.9	41.8	14.6	48.3
19...	1451	40.0	1500	18800	7.6	17.3	--	4.2	41.7	12.7	47.2
19...	1452	50.0	1500	19000	7.5	17.3	--	3.9	49.0	15.1	55.7
19...	1453	60.0	1500	19200	7.5	17.3	--	3.5	50.8	13.9	56.8
19...	1454	70.0	1500	19200	7.5	17.3	--	3.5	67.7	12.0	72.6
19...	1455	78.0	1500	19300	7.4	17.3	--	3.4	33.8	15.7	41.0
19...	1500	2.0	1500	14300	7.9	17.0	36.0	7.6	44.2	12.2	49.4

APPENDIX A-2

01660800 -- POTOMAC R NR MORGANTOWN, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
MAY											
28...	1335	57.0	1500	22300	7.0	17.8	36.0	.9	6.1	3.1	7.5
28...	1336	50.0	1500	21800	7.0	18.0	--	1.2	8.1	2.7	9.3
28...	1338	40.0	1500	20900	7.0	18.4	--	2.0	10.0	3.0	11.4
28...	1339	30.0	1500	18900	7.3	19.5	--	4.6	15.5	4.0	17.3
28...	1340	20.0	1500	17200	7.7	20.4	--	7.1	50.0	5.4	51.9
28...	1342	10.0	1500	17100	7.9	20.7	--	7.6	47.6	4.4	49.0
28...	1345	2.0	1500	16800	8.0	20.9	--	8.7	92.7	6.2	94.4
JUN											
01...	1420	78.0	1500	19900	7.0	20.1	36.0	2.1	21.8	3.5	23.1
01...	1421	70.0	1500	19700	7.0	20.2	--	2.2	20.0	1.6	20.5
01...	1422	60.0	1500	19700	7.0	20.2	--	2.1	19.6	1.8	20.2
01...	1423	50.0	1500	18600	7.0	20.5	--	3.0	16.8	2.0	17.5
01...	1424	40.0	1500	18100	7.0	20.7	--	3.3	15.1	2.2	15.9
01...	1425	30.0	1500	16600	7.0	21.0	--	3.6	13.3	3.4	14.8
01...	1426	20.0	1500	15500	7.0	21.2	--	3.8	12.0	4.1	13.8
01...	1428	10.0	1500	14200	6.9	21.3	--	3.8	9.8	4.8	11.9
01...	1430	2.0	1500	13200	7.0	21.7	--	5.2	46.2	5.5	48.2
01...	1450	10.0	4800	13800	7.0	21.1	21.0	4.8	25.0	9.9	29.4
01...	1452	2.0	4800	12500	7.0	21.2	--	4.8	35.4	7.4	38.5
09...	1113	7.0	1500	15000	7.7	24.3	--	7.0	37.7	9.6	41.8
09...	1114	12.0	1500	15700	7.5	24.3	--	6.5	41.1	6.6	43.7
09...	1115	20.0	1500	16400	7.2	23.4	--	5.9	15.3	4.3	17.2
09...	1116	25.0	1500	17700	7.1	23.2	--	4.0	6.5	5.2	8.9
09...	1117	30.0	1500	19800	6.8	22.0	--	1.8	4.9	3.9	6.7
09...	1118	40.0	1500	20600	6.8	21.7	--	1.2	3.2	3.4	4.9
09...	1119	50.0	1500	20900	6.8	21.6	--	1.0	3.1	3.8	4.9
09...	1121	60.0	1500	--	--	--	--	--	2.6	3.5	4.2
09...	1122	64.0	1500	20900	6.8	21.5	--	.9	2.4	3.4	4.0
09...	1123	66.0	1500	--	--	--	--	--	2.4	3.0	3.8
09...	1125	2.0	1500	14600	7.8	24.5	24.0	7.8	71.1	10.1	75.0
09...	1230	11.0	4800	14500	7.0	24.2	--	4.3	6.9	7.2	10.3
09...	1232	7.0	4800	14500	7.0	24.5	--	4.8	13.4	8.7	17.4
09...	1234	2.0	4800	14500	7.0	24.5	--	5.1	25.5	9.7	29.8
09...	1650	64.0	1500	19800	7.0	22.0	--	1.3	3.2	4.3	5.2
09...	1652	40.0	1500	16600	7.3	23.4	--	3.9	4.9	5.3	7.4
09...	1654	25.0	1500	15300	7.2	23.6	--	3.9	4.8	4.4	6.8
09...	1656	12.0	1500	11600	7.3	24.8	--	5.3	9.4	6.1	12.2
09...	1658	3.0	1500	11000	7.3	23.2	--	5.7	18.0	6.7	21.0
15...	1440	56.0	1500	22000	7.2	22.9	24.0	.0	2.6	5.9	5.5
15...	1442	40.0	1500	21800	7.2	22.9	--	.0	3.0	3.9	4.9

01660800 -- POTOMAC R NR MORGANTOWN, MD --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CTIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUN											
15...	1443	30.0	1500	17600	7.3	24.0	--	2.0	2.9	3.4	4.5
15...	1444	25.0	1500	16500	7.3	24.3	--	2.5	3.3	2.6	4.6
15...	1445	20.0	1500	14800	7.3	24.7	--	3.1	3.5	4.8	5.8
15...	1446	12.0	1500	13500	7.3	25.0	--	3.9	4.7	3.4	6.3
15...	1448	7.0	1500	12600	7.3	25.3	--	4.1	7.0	3.6	8.7
15...	1450	2.0	1500	11600	7.6	25.6	--	5.6	20.9	5.0	23.0
25...	1130	58.0	1500	22700	7.3	23.9	30.0	.1	2.9	5.7	5.6
25...	1131	40.0	1500	21100	7.3	24.1	--	.0	4.0	5.1	6.5
25...	1132	30.0	1500	17500	7.5	25.9	--	2.2	--	--	--
25...	1134	20.0	1500	14900	7.7	26.4	--	4.7	18.6	4.7	20.6
25...	1136	12.0	1500	14700	7.8	26.5	--	5.1	37.4	6.0	39.8
25...	1138	6.0	1500	14700	7.9	26.6	--	5.8	38.7	4.7	40.4
25...	1140	2.0	1500	14200	8.8	27.6	--	10.8	260	23.0	245
30...	1900	2.0	1500	17600	7.6	25.7	30.0	5.3	28.6	5.3	30.8
30...	1902	7.0	1500	18300	7.5	25.8	--	4.8	26.4	5.5	28.7
30...	1903	10.0	1500	18400	7.6	25.8	--	5.1	34.1	4.2	35.7
30...	1904	15.0	1500	18600	7.7	25.6	--	5.6	40.9	6.0	43.2
30...	1905	20.0	1500	19500	7.7	25.2	--	5.1	33.6	4.2	35.2
30...	1906	25.0	1500	20700	7.3	24.4	--	2.4	24.3	6.7	27.2
30...	1907	30.0	1500	20800	7.2	24.3	--	2.1	25.0	4.2	26.7
30...	1908	40.0	1500	22000	7.0	23.9	--	.6	12.0	5.8	14.6
30...	1909	50.0	1500	22000	7.0	23.8	--	.6	14.4	5.8	17.0
30...	1910	68.0	1500	22300	7.0	23.8	--	.5	17.4	7.3	20.7
JUL											
07...	1620	59.0	1500	18500	6.9	25.0	24.0	.9	6.1	32.5	21.8
07...	1621	50.0	1500	18500	6.9	25.0	--	.8	5.0	6.3	8.0
07...	1622	40.0	1500	17900	6.9	25.2	--	1.1	4.4	4.1	6.4
07...	1624	30.0	1500	17700	6.9	25.3	--	1.3	5.2	5.9	8.0
07...	1626	21.0	1500	17500	6.9	25.4	--	1.3	4.9	4.4	7.0
07...	1627	14.0	1500	14100	6.9	26.1	--	2.3	5.7	5.0	8.0
07...	1629	7.0	1500	13300	7.1	26.9	--	3.6	11.8	5.0	14.1
07...	1630	2.0	1500	12900	7.3	26.9	--	4.1	22.4	3.8	23.8
15...	1315	2.0	1500	16000	7.5	27.1	--	5.7	27.6	5.2	29.8
15...	1320	78.0	1500	24000	7.0	25.7	26.0	.0	2.5	5.5	5.2
15...	1321	68.0	1500	23800	6.9	25.8	--	.0	2.3	5.0	4.7
15...	1322	46.0	1500	23700	6.9	25.8	--	.4	2.6	5.0	5.0
15...	1323	36.0	1500	22900	6.9	25.9	--	.5	1.3	10.2	6.2
15...	1324	26.0	1500	21000	7.0	26.4	--	1.5	6.8	4.7	8.9
15...	1325	20.0	1500	19400	7.0	26.5	--	2.3	9.2	5.6	11.8
15...	1326	13.0	1500	19000	7.1	27.2	--	2.9	10.2	5.3	12.7

01660800 - POTOMAC R NR MORGANTOWN, MD --Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL											
15...	1327	7.0	1500	17400	7.3	27.3	--	4.5	22.2	5.5	24.6
24...	1045	63.0	1500	21700	7.3	26.4	32.0	2.1	8.5	11.5	13.9
24...	1047	36.0	1500	20900	7.4	26.3	--	3.1	11.1	9.4	15.5
24...	1049	20.0	1500	19900	7.5	26.4	--	3.7	27.2	6.5	30.0
24...	1051	10.0	1500	20100	7.4	26.4	--	3.6	61.5	9.1	65.0
24...	1055	2.0	1500	19900	7.6	26.5	--	4.3	83.0	4.6	84.0
27...	1830	1.6	1500	17100	7.5	28.3	--	6.6	13.7	4.1	15.5
27...	1835	67.0	1500	20100	7.0	27.0	--	3.7	4.2	12.4	10.2
27...	1837	57.0	1500	20000	7.0	27.0	--	3.7	3.4	5.2	5.9
27...	1838	38.0	1500	20000	7.0	27.0	--	3.8	3.1	5.3	5.7
27...	1839	19.0	1500	19800	7.0	27.1	--	3.7	3.0	4.9	5.4
27...	1840	19.0	1500	18800	7.0	27.5	--	4.0	4.4	4.9	6.6
27...	1841	13.0	1500	18200	7.1	27.8	--	4.8	10.4	5.1	12.7
27...	1842	6.0	1500	18000	7.2	27.9	--	5.1	15.4	4.4	17.3
AUG											
07...	1100	2.0	1500	18100	7.3	26.8	34.0	3.7	11.2	5.5	13.8
07...	1103	10.0	1500	18300	7.2	26.7	--	3.5	5.9	5.3	8.4
07...	1104	20.0	1500	19900	7.2	26.7	--	2.9	6.9	3.5	8.5
07...	1106	35.0	1500	21000	7.2	26.6	--	2.3	3.9	6.1	6.8
07...	1108	50.0	1500	22800	7.1	26.5	--	.8	2.2	4.2	4.2
07...	1110	57.0	1500	23000	7.0	26.4	--	.7	1.4	4.5	3.6
14...	1145	56.0	1500	23600	7.1	27.0	30.0	.5	1.6	5.9	4.5
14...	1148	30.0	1500	22500	7.1	27.1	--	.8	--	--	--
14...	1150	20.0	1500	20200	7.2	27.2	--	1.9	2.8	3.9	4.6
14...	1152	12.0	1500	17500	7.3	27.3	--	3.3	5.6	5.6	8.3
14...	1153	5.0	1500	16400	7.4	27.3	--	4.6	13.9	5.6	16.4
14...	1155	2.0	1500	16200	7.4	27.6	--	4.9	18.1	4.8	20.2
17...	1535	70.0	1500	22100	6.9	27.0	31.0	2.2	4.6	10.5	9.6
17...	1537	48.0	1500	21800	6.9	27.0	--	2.2	3.6	4.5	5.8
17...	1539	29.0	1500	21100	6.9	27.1	--	2.3	3.4	4.3	5.4
17...	1540	19.0	1500	20500	7.0	27.0	--	2.7	3.5	4.4	5.6
17...	1541	13.0	1500	20400	7.0	27.3	--	3.2	4.3	3.6	6.0
17...	1542	6.0	1500	20300	7.0	28.3	--	3.6	7.2	3.8	8.9
17...	1543	1.6	1500	20300	7.0	28.2	--	3.7	7.2	4.8	9.5
28...	1020	55.0	1500	21000	7.2	24.3	26.0	5.0	4.3	7.1	7.7
28...	1022	45.0	1500	20800	7.2	24.2	--	5.1	4.1	6.8	7.3
28...	1024	30.0	1500	19800	7.2	24.2	--	5.1	4.3	4.8	6.6
28...	1026	13.0	1500	19600	7.2	24.2	--	5.2	4.2	4.6	6.4
28...	1028	6.0	1500	19700	7.2	24.2	--	5.1	4.5	4.0	6.4
28...	1029	1.0	1500	19400	7.2	24.3	--	5.3	4.8	3.4	6.4

01660800 - POTOMAC R NR MORGANTOWN, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
SEP											
02...	1530	58.0	1500	20500	7.6	25.4	--	4.9	3.4	5.2	5.9
02...	1532	50.0	1500	20200	7.6	25.3	--	4.9	3.5	5.0	5.9
02...	1534	25.0	1500	19300	7.5	25.3	--	5.0	4.1	4.2	6.1
02...	1536	13.0	1500	18900	7.6	25.3	--	5.3	3.5	4.0	5.3
02...	1538	6.0	1500	18600	7.6	25.4	--	5.5	5.8	3.5	7.4
02...	1539	1.0	1500	18500	7.6	25.4	--	5.6	7.6	3.8	9.4
10...	1225	57.0	1500	21900	7.1	24.4	32.0	3.9	2.7	16.2	10.5
10...	1227	48.0	1500	21300	7.1	24.4	--	4.3	2.9	4.4	5.0
10...	1228	35.0	1500	21300	7.1	24.4	--	4.4	2.2	4.4	4.3
10...	1229	22.0	1500	20000	7.1	24.5	--	4.8	2.3	3.8	4.2
10...	1230	13.0	1500	19000	7.1	24.8	--	5.1	2.9	3.9	4.7
10...	1231	6.0	1500	19100	7.1	25.5	--	5.5	6.0	3.2	7.5
10...	1232	1.6	1500	17400	7.2	24.9	--	6.0	6.9	2.6	8.0
17...	1351	1.0	1500	18900	7.1	24.4	24.0	4.4	7.0	2.7	8.2
17...	1352	6.0	1500	20000	7.1	24.3	--	3.9	2.4	2.7	3.7
17...	1354	12.0	1500	20400	7.1	24.1	--	3.8	2.2	3.2	3.7
17...	1355	20.0	1500	20800	7.1	24.1	--	3.6	2.1	2.8	3.4
17...	1356	30.0	1500	21500	7.0	24.1	--	3.3	--	--	--
17...	1357	40.0	1500	22200	7.0	24.0	--	3.1	2.2	3.9	4.1
17...	1358	50.0	1500	22300	7.0	24.1	--	2.9	2.3	4.9	4.6
17...	1400	62.0	1500	22400	7.0	24.1	--	2.8	2.6	5.1	5.1
21...	1548	1.6	1500	18600	7.3	23.2	--	6.2	5.9	2.7	7.2
21...	1549	6.0	1500	18600	7.4	23.2	--	6.2	5.4	2.2	6.5
21...	1551	13.0	1500	18600	7.3	23.2	--	6.2	4.6	2.7	5.9
21...	1552	19.0	1500	18700	7.3	23.3	--	6.2	3.7	2.6	5.0
21...	1553	32.0	1500	20900	7.2	22.3	--	5.2	2.4	3.0	3.8
21...	1554	51.0	1500	22000	7.2	22.3	--	5.1	2.2	3.9	4.1
21...	1555	67.0	1500	22100	7.3	22.3	26.0	5.1	3.0	4.3	5.0

APPENDIX A-2

381516076503000 - POTOMAC RIVER AT COBB ISLAND

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCTI- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
OCT	1840	2.0	6600	20800	8.4	17.7	--	11.0	26.3	2.9	27.4
	1842	6.0	6600	21900	8.3	17.7	--	10.5	27.5	3.4	28.8
	1843	10.0	6600	24800	7.9	18.0	--	6.9	20.4	2.6	21.4
	1845	23.0	6600	28600	7.5	18.4	62.0	4.5	18.4	8.7	22.3
	1820	2.0	6600	20700	7.8	16.8	--	9.2	25.5	2.9	26.6
	1821	6.0	6600	20800	7.8	16.9	--	9.0	24.2	4.5	26.0
	1822	10.0	6600	22700	7.6	17.5	--	7.6	22.5	4.5	24.4
	1823	16.0	6600	26700	7.1	17.9	--	5.0	13.7	5.4	16.1
	1825	18.0	6600	28200	7.1	17.9	65.0	4.9	12.4	6.6	15.4
	1845	2.0	20100	19900	7.8	16.5	--	9.4	26.2	.8	26.2
	1846	6.0	20100	19900	7.8	16.8	--	9.3	27.5	.8	27.5
	1847	10.0	20100	20000	7.9	16.8	--	9.2	23.0	2.7	23.9
	1848	16.0	20100	21300	7.8	17.2	--	8.5	27.9	5.6	30.2
	1850	20.0	20100	25600	6.9	16.9	60.0	4.3	13.5	6.0	16.2
	1540	2.0	6600	22900	8.4	9.4	--	11.0	24.5	3.9	26.0
	1541	6.0	6600	25300	8.1	10.4	--	9.8	13.0	5.0	15.2
	1542	13.0	6600	26600	8.0	10.6	--	9.1	13.1	4.7	15.2
	1545	21.0	6600	28900	7.7	11.1	60.0	8.3	13.0	7.6	16.5
	1605	2.0	20100	21700	8.4	9.6	--	11.3	28.9	5.8	31.3
	1606	6.0	20100	22900	8.3	9.8	--	10.3	15.5	4.2	17.3
	1607	10.0	20100	24200	8.1	10.3	--	9.7	19.8	3.5	21.2
	1610	17.0	20100	24800	8.1	10.3	48.0	9.6	17.1	2.6	18.1
DEC	1320	2.0	6600	25800	8.3	6.5	--	11.6	19.6	3.2	20.9
	1321	10.0	6600	25800	8.2	6.6	--	11.4	20.0	2.5	20.9
	1322	15.0	6600	25900	8.2	6.6	78.0	11.5	20.7	3.3	22.0
	1325	22.0	6600	28500	8.0	7.3	--	10.0	31.5	4.0	33.0
	1350	2.0	20100	24500	8.2	6.4	48.0	11.4	28.8	4.6	30.7
	1352	6.0	20100	24600	8.2	6.4	--	11.4	32.4	5.5	34.7
	1353	10.0	20100	24800	8.2	6.4	--	11.2	31.4	3.9	32.9
	1355	15.0	20100	24800	8.2	6.4	48.0	11.2	32.6	3.6	33.9
JAN	1110	2.0	6600	25200	8.2	.4	98.0	13.7	9.8	1.9	10.6
	1111	7.0	6600	26100	8.2	.3	--	13.6	12.1	2.4	13.1
	1112	10.0	6600	27200	8.2	.3	--	13.6	11.9	3.6	3.4
	1113	15.0	6600	28200	8.2	.3	--	13.5	--	--	--
	1114	20.0	6600	28500	8.1	.2	--	13.2	21.6	3.5	23.0
	1115	24.0	6600	28600	8.1	.2	--	13.1	21.0	4.3	22.8
	1125	2.0	20100	25200	8.1	.4	90.0	13.7	13.2	1.8	13.9

APPENDIX A-2

381516076503000 - POTOMAC RIVER AT COBB ISLAND

--Cont.

WATER QUALITY DATA- WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	(00095)	PH (UNITS)	(00400)	TEMPER- ATURE (DEG C)	(00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
JAN																					
22...	1127	7.0	20100	25200	8.2	.4	--	13.7	13.1	13.7	13.1	1.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	
22...	1128	10.0	20100	27300	8.1	.2	--	13.0	23.8	13.0	23.8	2.5	13.0	24.7	24.7	24.7	24.7	24.7	24.7	24.7	
22...	1130	15.0	20100	27800	8.1	.2	--	12.8	26.1	12.8	26.1	2.3	12.8	26.9	26.9	26.9	26.9	26.9	26.9	26.9	
FEB																					
03...	0940	23.0	6600	29900	7.9	.7	--	11.8	--	11.8	--	--	--	--	--	--	--	--	--	--	
03...	0941	3.0	6600	27100	8.0	.5	--	11.9	--	11.9	--	--	--	--	--	--	--	--	--	--	
04...	1715	18.0	20100	27600	8.0	1.0	--	10.9	35.4	10.9	35.4	5.2	10.9	37.4	37.4	37.4	37.4	37.4	37.4	37.4	
04...	1716	15.0	20100	27600	8.1	1.0	--	10.6	33.4	10.6	33.4	5.7	10.6	35.7	35.7	35.7	35.7	35.7	35.7	35.7	
04...	1717	10.0	20100	26600	8.1	.9	--	10.7	17.8	10.7	17.8	2.5	10.7	18.8	18.8	18.8	18.8	18.8	18.8	18.8	
04...	1718	7.0	20100	26600	8.2	.8	--	10.8	16.9	10.8	16.9	4.6	10.8	18.9	18.9	18.9	18.9	18.9	18.9	18.9	
04...	1720	2.0	20100	26600	8.2	.9	--	10.8	15.9	10.8	15.9	2.8	10.8	17.0	17.0	17.0	17.0	17.0	17.0	17.0	
04...	1735	2.0	6600	27200	8.2	.8	--	10.8	19.1	10.8	19.1	2.6	10.8	20.1	20.1	20.1	20.1	20.1	20.1	20.1	
04...	1736	7.0	6600	27100	8.1	.8	--	10.8	18.1	10.8	18.1	2.5	10.8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	
04...	1737	10.0	6600	27100	8.1	.9	--	10.7	18.1	10.7	18.1	3.5	10.7	19.5	19.5	19.5	19.5	19.5	19.5	19.5	
04...	1738	15.0	6600	27100	8.1	.9	--	10.6	19.5	10.6	19.5	2.6	10.6	20.5	20.5	20.5	20.5	20.5	20.5	20.5	
04...	1739	20.0	6600	28700	8.0	.8	--	10.6	23.6	10.6	23.6	6.5	10.6	26.4	26.4	26.4	26.4	26.4	26.4	26.4	
04...	1740	23.0	6600	29300	7.8	.9	--	10.6	27.1	10.6	27.1	4.1	10.6	28.7	28.7	28.7	28.7	28.7	28.7	28.7	
05...	0825	23.0	6600	27300	8.0	.5	--	12.6	27.5	12.6	27.5	2.7	12.6	28.4	28.4	28.4	28.4	28.4	28.4	28.4	
05...	0827	20.0	6600	26400	8.1	.1	--	12.8	18.1	12.8	18.1	1.3	12.8	18.5	18.5	18.5	18.5	18.5	18.5	18.5	
05...	0828	15.0	6600	26500	8.1	.0	--	13.0	17.9	13.0	17.9	.8	13.0	17.9	17.9	17.9	17.9	17.9	17.9	17.9	
05...	0829	9.0	6600	26500	8.2	.0	--	13.0	17.9	13.0	17.9	.5	13.0	17.9	17.9	17.9	17.9	17.9	17.9	17.9	
05...	0830	2.0	6600	26500	8.2	.0	--	13.0	16.9	13.0	16.9	2.4	13.0	17.8	17.8	17.8	17.8	17.8	17.8	17.8	
MAR																					
03...	1445	3.0	6600	28200	8.0	5.6	--	11.9	15.6	11.9	15.6	2.2	11.9	16.4	16.4	16.4	16.4	16.4	16.4	16.4	
03...	1446	10.0	6600	29300	8.0	5.6	--	11.9	14.8	11.9	14.8	2.8	11.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	
03...	1447	15.0	6600	29300	7.9	5.2	--	12.0	19.3	12.0	19.3	2.8	12.0	20.4	20.4	20.4	20.4	20.4	20.4	20.4	
03...	1448	20.0	6600	30700	7.9	4.4	--	11.5	23.4	11.5	23.4	6.0	11.5	26.0	26.0	26.0	26.0	26.0	26.0	26.0	
03...	1450	23.0	6600	30700	7.9	4.5	--	11.6	26.4	11.6	26.4	9.8	11.6	30.8	30.8	30.8	30.8	30.8	30.8	30.8	
03...	1510	3.0	20100	19000	8.4	6.3	--	13.1	23.6	13.1	23.6	3.5	13.1	24.9	24.9	24.9	24.9	24.9	24.9	24.9	
03...	1513	10.0	20100	20600	8.2	6.0	--	12.8	32.7	12.8	32.7	5.5	12.8	34.9	34.9	34.9	34.9	34.9	34.9	34.9	
03...	1515	15.0	20100	24800	8.0	5.3	--	12.0	63.0	12.0	63.0	9.1	12.0	66.5	66.5	66.5	66.5	66.5	66.5	66.5	
18...	1150	7.0	20100	21000	7.7	5.2	--	9.1	48.1	9.1	48.1	3.5	9.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2	
18...	1151	13.0	20100	21000	7.7	5.2	--	9.0	43.0	9.0	43.0	7.6	9.0	46.1	46.1	46.1	46.1	46.1	46.1	46.1	
18...	1152	16.0	20100	21400	7.7	5.2	--	9.0	39.3	9.0	39.3	6.9	9.0	42.1	42.1	42.1	42.1	42.1	42.1	42.1	
18...	1153	18.0	20100	21700	7.7	5.2	--	9.1	44.4	9.1	44.4	2.2	9.1	44.9	44.9	44.9	44.9	44.9	44.9	44.9	
18...	1155	2.0	6600	21800	7.7	5.2	--	9.1	45.0	9.1	45.0	5.5	9.1	47.0	47.0	47.0	47.0	47.0	47.0	47.0	
18...	1210	7.0	6600	24600	7.9	5.1	--	9.2	29.5	9.2	29.5	4.4	9.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	
18...	1211	13.0	6600	24500	7.9	5.2	--	9.1	29.5	9.1	29.5	3.0	9.1	30.5	30.5	30.5	30.5	30.5	30.5	30.5	
18...	1212	18.0	6600	24600	7.9	5.2	--	9.2	28.3	9.2	28.3	5.6	9.2	30.6	30.6	30.6	30.6	30.6	30.6	30.6	
18...	1213	18.0	6600	24500	7.9	5.2	--	9.2	28.9	9.2	28.9	4.2	9.2	30.5	30.5	30.5	30.5	30.5	30.5	30.5	

381516076503000 - POTOMAC RIVER AT COBB ISLAND

--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00093)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
MAR	1215	24.0	6600	24500	7.9	5.2	36.0	9.3	29.0	4.8	31.0
APR	1720	19.0	6600	25700	7.7	7.7	--	7.5	38.2	2.6	39.0
02...	1721	16.0	6600	24000	8.0	9.6	--	10.0	32.7	2.4	33.3
02...	1722	10.0	6600	23100	8.2	10.9	--	11.8	31.6	2.0	32.1
02...	1730	3.0	6600	22900	8.1	11.4	--	12.0	30.7	2.0	31.2
02...	1800	19.0	20100	25200	7.2	7.4	42.0	5.1	22.9	7.7	26.2
02...	1802	14.0	20100	20700	7.8	10.4	--	10.9	--	--	--
02...	1803	10.0	20100	20600	8.0	10.7	--	11.1	28.2	4.6	30.0
02...	1810	3.0	20100	19500	7.8	10.9	--	10.5	17.6	4.4	19.5
15...	1605	17.0	20100	20600	7.7	13.0	29.0	9.6	32.7	8.1	36.2
15...	1606	12.0	20100	20000	7.5	13.0	--	9.1	21.8	6.9	24.8
15...	1607	7.0	20100	19900	7.5	13.1	--	9.1	19.4	6.3	22.2
15...	1610	2.0	20100	19900	7.5	13.1	--	9.1	18.3	5.7	20.8
15...	1634	24.0	6600	23900	8.1	12.5	38.0	9.8	98.8	24.8	109
15...	1635	19.0	6600	21800	8.1	13.1	--	11.4	82.2	12.9	87.2
15...	1636	12.0	6600	21000	8.1	13.3	--	11.7	51.7	12.0	56.8
15...	1637	7.0	6600	20800	8.1	13.3	--	11.7	55.8	4.6	57.2
15...	1640	2.0	6600	20800	8.1	13.4	--	11.9	51.9	9.9	55.9
16...	0740	2.0	6600	19000	7.6	12.2	--	9.3	20.7	5.6	23.1
16...	0741	7.0	6600	20400	8.0	12.5	--	10.4	43.5	8.5	47.0
16...	0742	12.0	6600	20800	8.0	12.5	--	10.7	47.6	10.3	51.9
16...	0743	19.0	6600	22700	8.1	12.8	--	10.7	80.6	3.3	81.0
16...	0745	23.0	6600	23100	8.0	12.4	48.0	9.1	78.8	17.4	86.1
MAY	1600	2.0	20100	17600	9.5	17.1	--	10.7	42.9	5.0	44.7
19...	1601	7.0	20100	17600	8.5	17.1	--	10.7	40.6	6.0	42.9
19...	1602	13.0	20100	17900	8.5	17.2	--	10.7	38.0	3.5	39.2
19...	1605	19.0	20100	18400	8.5	17.2	48.0	9.9	41.3	4.2	42.7
19...	1630	29.0	6600	25300	7.7	16.2	48.0	2.2	37.2	11.7	42.4
19...	1632	20.0	6600	21800	8.0	17.1	--	6.1	37.6	8.9	41.4
19...	1633	12.0	6600	17500	8.4	16.9	--	10.1	42.6	5.6	44.7
19...	1634	7.0	6600	17400	8.4	16.8	--	10.5	43.0	6.3	45.4
19...	1635	2.0	6600	17300	8.4	16.8	--	10.8	46.2	6.5	48.7
20...	0725	2.0	6600	17600	8.3	16.4	--	9.3	42.6	8.2	45.9
20...	0726	7.0	6600	18100	8.3	16.5	--	9.0	52.7	5.4	54.6
20...	0727	12.0	6600	18900	8.3	16.7	--	8.4	38.3	3.8	39.6
20...	0728	20.0	6600	21600	8.0	16.7	48.0	5.9	38.6	10.0	42.9
20...	0729	25.0	6600	24900	7.7	16.2	--	2.8	52.7	7.2	55.4
20...	0730	30.0	6600	25800	7.7	16.0	--	1.9	40.2	12.7	45.7

APPENDIX A-2

381516076503000 - POTOMAC RIVER AT COBB ISLAND --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMH05)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (JG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)		
MAY											
28...	1446	23.0	6600	25000	7.2	17.3	51.0	.9	16.8	3.8	18.4
28...	1447	18.0	6600	19600	8.2	20.7	--	7.7	21.3	2.4	22.2
28...	1448	12.0	6600	19400	8.3	21.1	--	8.3	32.2	2.1	32.8
28...	1449	7.0	6600	19200	8.3	21.2	--	8.5	31.6	4.1	33.1
28...	1450	2.0	6600	19100	8.7	21.2	--	8.7	36.9	4.1	38.4
JUN											
01...	1325	20.0	20100	20900	7.2	19.8	60.0	1.4	19.8	3.3	21.1
01...	1326	13.0	20100	17300	8.5	22.4	--	9.6	25.1	5.0	27.2
01...	1327	7.0	20100	17300	8.5	22.4	--	9.9	29.7	4.8	31.6
01...	1328	2.0	20100	17300	8.5	22.4	--	9.8	29.3	4.9	31.2
01...	1345	28.0	6600	24000	7.2	18.5	66.0	.7	5.1	3.2	6.6
01...	1346	20.0	6600	23900	7.1	18.5	--	.7	4.6	1.9	5.4
01...	1347	15.0	6600	23100	7.1	18.9	--	.9	9.0	2.8	9.2
01...	1348	10.0	6600	21800	8.2	16.9	--	8.4	21.1	3.7	22.6
01...	1355	2.0	6600	16900	8.2	21.8	--	8.8	23.3	5.5	25.6
09...	1525	18.0	20100	25200	7.1	20.8	48.0	.6	3.0	3.0	4.4
09...	1526	14.0	20100	25200	7.1	20.7	--	.6	4.8	5.1	7.2
09...	1527	10.0	20100	19800	7.7	23.3	--	5.4	39.8	10.0	44.1
09...	1528	3.0	20100	17000	8.0	24.0	--	8.1	75.2	12.6	81.2
09...	1545	25.0	6600	25800	7.2	20.3	--	.7	7.0	4.5	9.1
09...	1546	18.0	6600	24200	7.2	21.3	--	.2	17.4	4.5	19.4
09...	1547	12.0	6600	19300	7.8	23.4	--	5.9	26.6	8.2	30.2
09...	1548	6.0	6600	15500	8.4	24.8	--	10.3	94.4	9.9	97.9
09...	1549	2.0	6600	15500	8.4	25.0	--	10.6	105	13.5	110
30...	2020	2.0	6600	16800	8.6	25.4	--	9.3	21.5	3.2	22.8
30...	2022	7.0	6600	17200	8.5	25.3	--	8.9	20.3	4.1	22.0
30...	2023	12.0	6600	20800	7.3	24.6	--	2.4	30.5	5.1	32.6
30...	2024	20.0	6600	27300	7.2	22.4	--	.0	2.5	3.3	4.0
30...	2025	24.0	6600	28100	7.2	22.2	34.0	.0	2.4	3.0	3.8
JUL											
01...	1005	2.0	6600	20000	7.7	24.7	--	5.4	28.6	6.0	31.0
01...	1006	7.0	6600	20000	7.7	24.7	--	5.4	20.9	8.4	24.6
01...	1007	12.0	6600	20000	7.7	24.6	--	5.2	22.8	3.5	24.2
01...	1008	20.0	6600	20200	7.6	24.4	--	4.6	22.8	4.4	24.6
01...	1015	24.0	6600	26400	7.0	22.9	--	.0	5.0	4.4	7.1
01...	1035	2.0	20100	16900	8.2	25.3	--	6.9	25.3	3.0	27.4
01...	1036	7.0	20100	16900	8.2	25.2	--	6.9	24.8	5.6	27.1
01...	1037	13.0	20100	17000	8.2	25.2	--	6.9	17.0	5.0	19.2
01...	1040	22.0	20100	17500	8.1	25.0	36.0	6.8	12.7	5.1	15.0
15...	1100	2.0	6600	20000	7.7	27.3	--	5.6	25.3	4.5	27.2

APPENDIX A-2

381516076503000 - POTOMAC RIVER AT COBB ISLAND
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
 ---Cont.

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHQS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL/A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD UNCORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)		
JUL											
15...	1101	7.0	6600	20400	7.5	27.0	--	4.7	22.2	4.4	24.0
15...	1102	13.0	6600	23900	7.0	26.3	--	1.3	26.5	4.4	28.2
15...	1103	20.0	6600	25800	7.0	25.5	--	.3	1.4	3.2	2.9
15...	1105	23.0	6600	25900	7.0	25.5	42.0	.3	1.4	3.3	3.0
15...	1110	2.0	20100	18400	7.5	26.9	--	5.4	24.0	6.9	27.0
15...	1113	7.0	20100	18400	7.5	26.9	--	5.2	21.8	6.1	24.4
15...	1114	13.0	20100	18400	7.4	26.8	--	4.9	15.1	5.1	17.4
15...	1115	18.0	20100	19600	7.3	26.6	36.0	3.7	10.2	4.7	12.4
27...	1709	1.5	6600	22100	7.9	27.7	--	7.6	15.2	4.9	18.4
27...	1710	3.0	6600	--	--	--	--	--	10.9	6.2	13.8
27...	1711	6.0	6600	22200	7.7	27.3	--	6.8	6.9	4.8	9.1
27...	1713	13.0	6600	22500	7.4	26.7	--	5.3	--	--	--
27...	1714	19.0	6600	24000	7.0	26.2	--	2.4	3.1	5.0	5.5
27...	1715	22.0	6600	26300	6.9	26.1	36.0	.7	1.8	3.4	3.4
27...	1734	1.6	20100	21400	8.3	28.2	--	11.8	60.0	8.4	63.2
27...	1738	6.0	20100	21500	8.1	27.7	--	9.5	24.3	7.1	27.4
27...	1739	13.0	20100	21500	7.8	27.1	--	7.2	19.1	7.7	21.6
27...	1740	16.0	20100	21700	7.5	26.9	42.0	5.2	17.9	6.4	20.8
AUG											
17...	1423	1.6	20100	21300	7.6	26.5	--	6.8	35.5	6.7	38.3
17...	1428	6.0	20100	21300	7.6	26.5	--	6.6	31.2	4.1	32.8
17...	1429	13.0	20100	21400	7.5	26.5	--	6.3	23.0	5.9	25.5
17...	1430	16.0	20100	21400	7.6	26.5	44.0	6.7	--	--	--
19...	0739	1.6	6600	23000	7.7	25.1	--	6.6	15.1	6.2	17.9
19...	0742	6.0	6600	23000	7.6	25.2	--	6.4	16.4	6.4	19.3
19...	0743	13.0	6600	24000	7.4	25.6	--	5.0	17.3	5.1	19.5
19...	0744	19.0	6600	26000	6.9	25.9	--	1.0	18.5	5.3	20.8
19...	0745	27.0	6600	26800	6.8	26.0	60.0	.5	10.5	3.5	12.1
SEP											
10...	1325	4.0	6600	21800	7.9	25.4	--	9.2	--	--	--
21...	1430	23.0	6600	30600	7.1	23.2	60.0	1.2	1.9	4.7	4.2
21...	1431	19.0	6600	27400	7.1	22.8	--	2.5	2.5	4.4	4.6
21...	1432	13.0	6600	25100	7.3	22.2	--	5.2	4.4	3.3	5.9
21...	1433	6.0	6600	23800	7.8	22.3	--	8.9	18.0	5.4	20.3
21...	1436	1.6	6600	23800	7.8	22.5	--	9.1	22.2	3.2	23.5
21...	1500	16.0	20100	22200	7.9	22.4	48.0	9.1	34.3	4.4	36.0
21...	1501	13.0	20100	22200	7.9	22.3	--	9.2	34.2	5.4	36.3
21...	1502	6.0	20100	22200	7.9	22.4	--	9.2	35.2	3.7	36.5
21...	1506	1.6	20100	22100	7.9	22.3	--	9.0	47.4	3.4	48.4

APPENDIX A-2

01661475' -- POTOMAC R AT PINEY POINT, MD
WATER QUALITY DATA. WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR, (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
(00003)			(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
01...	1545	3.0	4500	26700	7.5	22.9	--	--	17.6	4.0	19.3
01...	1547	15.0	4500	27000	7.4	23.1	--	--	8.8	4.2	10.8
01...	1548	30.0	4500	27800	7.2	23.8	--	--	6.2	5.0	8.5
01...	1549	60.0	4500	28600	7.2	23.9	--	--	8.3	5.4	10.8
01...	1551	75.0	4500	28500	7.3	23.9	--	--	9.9	5.2	12.2
01...	1615	3.0	10800	26300	7.4	22.7	--	--	11.2	3.1	12.5
01...	1618	15.0	10800	26500	7.3	22.8	--	--	10.2	3.7	11.9
01...	1620	33.0	10800	27400	7.3	23.2	--	--	7.8	4.8	10.0
09...	0745	3.0	10800	25800	7.7	19.2	72.0	9.1	17.5	1.9	18.2
09...	0747	10.0	10800	25900	7.7	19.3	--	8.9	--	--	--
09...	0748	20.0	10800	26300	7.7	19.4	--	8.0	--	--	--
09...	0749	25.0	10800	27400	7.4	19.9	--	6.5	--	--	--
09...	0750	32.0	10800	28100	7.3	19.9	--	5.8	6.4	6.3	9.4
09...	0800	3.0	4500	24600	7.9	18.7	72.0	9.5	12.2	3.3	13.6
09...	0801	10.0	4500	25000	7.8	18.9	--	9.1	--	--	--
09...	0802	20.0	4500	27400	7.5	19.5	--	7.2	--	--	--
09...	0803	30.0	4500	28100	7.4	19.9	--	6.3	--	--	--
09...	0804	50.0	4500	28500	7.3	19.9	--	6.0	--	--	--
09...	0805	65.0	4500	28300	7.3	19.8	--	6.0	5.7	4.8	7.9
14...	1140	3.0	10800	27600	7.6	18.4	66.0	7.3	14.6	3.2	15.9
14...	1143	20.0	10800	27600	7.6	18.4	--	7.3	--	--	--
14...	1145	34.0	10800	27600	7.6	18.3	--	7.3	9.8	5.6	12.4
14...	1230	3.0	4500	27700	7.6	18.3	72.0	7.3	17.1	3.7	18.6
14...	1232	15.0	4500	27800	7.6	18.3	--	7.2	--	--	--
14...	1234	30.0	4500	27900	7.6	18.4	--	7.1	--	--	--
14...	1235	60.0	4500	28200	7.6	18.6	--	7.1	6.2	4.5	8.3
22...	1030	2.0	4500	25400	8.0	17.1	--	9.0	13.4	2.7	14.5
22...	1035	71.0	4500	32300	7.4	18.4	74.0	4.8	7.0	18.6	16.0
22...	1036	58.0	4500	32400	7.3	18.4	--	4.6	4.9	7.9	8.6
22...	1037	32.0	4500	31300	7.4	18.3	--	5.5	4.0	2.9	5.4
22...	1038	23.0	4500	30400	7.5	18.5	--	5.7	6.7	3.4	8.3
22...	1039	10.0	4500	29500	7.5	18.0	--	6.2	10.6	3.2	12.0
22...	1040	6.0	4500	26900	7.8	17.5	--	7.8	14.6	2.6	15.6
22...	1045	2.0	10800	22300	8.0	17.6	89.0	9.2	15.9	2.3	16.8
22...	1048	10.0	10800	26000	8.0	17.5	--	8.2	11.7	2.3	12.6
22...	1049	23.0	10800	31100	7.3	17.4	--	4.6	5.0	5.2	7.4
22...	1050	30.0	10800	31200	7.3	17.3	--	4.8	5.1	5.3	7.6
27...	0940	70.0	4500	29500	7.3	15.9	--	6.7	6.0	4.8	8.2
27...	0941	50.0	4500	29200	7.4	15.6	--	6.8	--	--	--

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (JG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
NOV											
27...	0942	30.0	4500	28400	7.5	15.0	--	7.5	--	--	--
27...	0943	15.0	4500	28400	7.6	14.9	--	7.6	--	--	--
27...	0944	9.0	4500	28400	7.6	14.9	--	7.7	--	--	--
27...	0945	3.0	4500	28400	7.6	14.9	--	7.7	--	--	--
27...	0955	32.0	10800	28800	7.5	15.0	--	7.5	17.3	3.3	18.7
27...	0956	22.0	10800	28400	7.6	14.7	--	7.8	7.4	4.9	9.7
27...	0958	12.0	10800	28300	7.7	14.7	--	7.9	--	--	--
27...	1000	3.0	10800	28100	7.7	14.7	--	8.0	16.3	4.3	18.2
NOV											
05...	1140	2.0	10800	26300	8.0	12.5	--	9.5	21.8	2.0	22.4
05...	1142	10.0	10800	26500	8.0	12.5	--	9.5	19.8	2.4	20.7
05...	1144	20.0	10800	26800	7.9	12.6	--	9.1	20.9	3.3	22.2
05...	1145	33.0	10800	28500	7.7	13.3	84.0	7.9	13.9	4.0	15.6
05...	1300	2.0	4500	27800	7.9	13.1	--	8.3	18.3	4.0	20.0
05...	1302	12.0	4500	28200	7.9	13.4	--	8.5	16.6	3.2	17.9
05...	1303	25.0	4500	29100	7.6	13.4	--	7.6	11.3	3.4	12.8
05...	1304	45.0	4500	29800	7.5	13.8	--	7.3	6.4	3.0	7.7
05...	1305	70.0	4500	30200	7.5	13.8	84.0	7.2	6.2	4.3	8.2
13...	1025	2.0	10800	30000	7.8	11.2	--	9.0	15.6	2.7	17.6
13...	1027	15.0	10800	30200	7.8	11.2	--	8.8	--	--	--
13...	1029	25.0	10800	30500	7.8	11.2	--	8.7	--	--	--
13...	1030	40.0	10800	30500	7.7	11.3	60.0	8.6	10.1	3.4	11.6
13...	1100	2.0	4500	29400	7.9	11.2	--	8.9	15.4	3.3	16.8
13...	1105	15.0	4500	30500	7.8	11.2	--	8.7	--	--	--
13...	1108	25.0	4500	30700	7.8	11.3	--	8.6	--	--	--
13...	1109	40.0	4500	31600	7.8	11.7	--	8.4	--	--	--
13...	1110	62.0	4500	31700	7.7	11.8	68.0	8.4	10.6	3.3	12.1
17...	1405	2.0	10800	27400	8.2	10.1	--	10.4	18.5	3.1	19.8
17...	1407	10.0	10800	29800	8.0	11.2	--	9.3	12.4	3.2	13.7
17...	1409	23.0	10800	30700	7.9	11.6	--	8.8	8.7	2.0	9.6
17...	1410	27.0	10800	30800	7.8	11.6	60.0	8.6	9.0	3.2	10.4
17...	1420	2.0	4500	29000	8.1	10.5	--	9.6	20.3	2.1	21.0
17...	1425	73.0	4500	32600	7.8	11.9	72.0	8.1	11.8	4.5	13.8
17...	1426	60.0	4500	32600	7.8	11.9	--	7.9	11.5	4.4	13.4
17...	1427	32.0	4500	32200	7.8	11.9	--	8.0	11.0	4.1	12.8
17...	1428	23.0	4500	30700	7.9	11.3	--	8.6	9.7	3.6	11.3
17...	1429	10.0	4500	30600	7.9	11.3	--	8.8	10.2	2.8	11.4
17...	1430	6.0	4500	30400	8.0	11.1	--	9.0	14.0	3.4	15.5
28...	1110	3.0	4500	30000	7.9	8.7	96.0	10.4	25.7	2.1	26.4
28...	1111	10.0	4500	30200	7.8	8.7	--	10.2	--	--	--

01661475' POTOMAC R AT PINEY POINT, MD (Cont.)
WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION, (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
VOV											
28...	1112	20.0	4500	30500	7.8	8.7	--	10.0	--	--	--
28...	1113	30.0	4500	30900	7.8	8.8	--	9.8	--	--	--
28...	1114	40.0	4500	31000	7.8	8.8	--	9.8	--	--	--
28...	1115	50.0	4500	31100	7.8	8.9	--	9.7	--	--	--
28...	1116	60.0	4500	31100	7.8	8.9	--	9.7	--	--	--
28...	1121	72.0	4500	31100	7.8	9.0	--	9.6	12.1	3.8	13.8
28...	1140	3.0	10800	29300	7.9	8.4	54.0	10.9	37.5	1.8	37.8
28...	1144	10.0	10800	29400	7.9	8.4	--	10.8	--	--	--
28...	1148	25.0	10800	30300	7.7	8.6	--	10.2	--	--	--
28...	1150	31.0	10800	31200	7.6	8.8	--	10.0	24.8	2.1	25.5
DEC											
09...	1340	34.0	10800	31600	7.8	7.4	108	9.2	28.3	3.8	29.8
09...	1341	20.0	10800	30400	7.8	7.3	--	9.0	--	--	--
09...	1342	10.0	10800	28100	7.8	7.3	--	9.2	--	--	--
09...	1345	2.0	10800	26100	7.9	7.6	--	9.6	7.6	2.0	9.5
09...	1405	2.0	4500	25400	7.9	7.7	--	10.5	9.0	1.9	9.8
09...	1406	15.0	4500	30600	7.8	7.3	--	10.3	--	--	--
09...	1407	25.0	4500	30900	7.8	7.2	--	10.2	--	--	--
09...	1408	45.0	4500	31900	7.7	7.2	--	9.7	--	--	--
09...	1410	65.0	4500	32000	7.8	7.2	108	9.9	39.5	6.9	42.2
15...	1125	2.0	4500	29000	8.0	6.8	--	10.8	11.3	2.5	12.4
15...	1130	72.0	4500	32500	7.8	7.8	78.0	9.0	49.7	9.2	53.4
15...	1131	60.0	4500	32400	7.8	7.8	--	9.3	20.7	6.3	23.4
15...	1132	50.0	4500	32200	7.8	7.7	--	9.5	23.9	4.7	25.8
15...	1133	40.0	4500	32000	7.9	7.7	--	9.5	20.5	4.2	22.2
15...	1134	30.0	4500	30600	7.9	7.3	--	10.1	15.5	3.7	17.1
15...	1135	20.0	4500	30000	8.0	7.1	--	10.5	14.9	1.8	15.6
15...	1136	10.0	4500	29000	8.0	6.8	--	10.8	11.4	2.9	12.7
15...	1155	20.0	10800	28600	8.0	6.6	100	10.7	12.0	2.4	13.0
15...	1156	10.0	10800	28600	8.0	6.6	--	10.7	12.1	2.9	13.3
15...	1200	2.0	10800	28600	8.0	6.6	--	10.8	12.8	2.2	13.7
JAN											
02...	1010	3.0	4500	27000	8.4	1.7	--	11.5	--	--	--
02...	1011	15.0	4500	30700	8.3	2.7	--	10.8	--	--	--
02...	1012	30.0	4500	31100	8.3	2.6	--	10.9	--	--	--
02...	1013	50.0	4500	31100	8.3	2.7	--	10.7	--	--	--
02...	1020	69.0	4500	31100	8.2	2.9	--	10.4	--	--	--
02...	1030	3.0	10800	26300	8.4	1.4	--	11.9	--	--	--
02...	1035	10.0	10800	27600	8.4	2.3	--	11.4	--	--	--
02...	1040	30.0	10800	31100	8.3	2.5	--	10.8	--	--	--
22...	1425	2.0	4500	30100	8.2	.7	--	12.8	12.7	1.6	13.3

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JAN											
22...	1430	63.0	4500	31600	8.2	.0	72.0	12.7	14.6	2.6	15.6
22...	1432	60.0	4500	31600	8.2	.0	--	12.8	13.6	2.6	14.7
22...	1433	50.0	4500	31600	8.2	.0	--	12.8	14.5	2.3	15.4
22...	1434	40.0	4500	31600	8.2	.0	--	12.8	13.6	2.8	14.8
22...	1435	30.0	4500	31300	8.3	.0	--	13.0	12.2	1.9	13.0
22...	1436	20.0	4500	31300	8.3	.0	--	13.1	12.9	2.1	13.7
22...	1437	12.0	4500	31200	8.3	.0	--	13.0	12.9	2.1	13.7
22...	1438	7.0	4500	30600	8.2	.3	--	12.9	12.1	1.8	12.8
22...	1455	2.0	10800	29800	8.1	.5	--	13.3	14.6	1.1	14.9
22...	1457	10.0	10800	29900	8.2	.3	--	13.3	14.8	1.5	15.3
22...	1500	20.0	10800	30800	8.1	.1	78.0	13.0	18.4	4.4	20.3
27...	1300	3.0	10800	29200	8.2	.5	108	13.7	9.5	1.2	9.9
27...	1304	12.0	10800	29800	8.1	.0	--	13.3	--	--	--
27...	1308	24.0	10800	31200	8.0	.0	--	13.0	--	--	--
27...	1310	34.0	10800	31500	7.8	.0	--	12.9	16.5	2.0	17.2
27...	1340	3.0	4500	29500	8.3	.3	108	13.4	10.6	1.0	11.0
27...	1341	12.0	4500	30500	8.2	.1	--	13.3	--	--	--
27...	1342	15.0	4500	31000	8.2	.0	--	13.0	15.5	1.9	16.2
27...	1343	25.0	4500	31500	8.2	.0	--	13.0	--	--	--
27...	1344	50.0	4500	32400	8.1	--	--	12.4	--	--	--
27...	1345	61.0	4500	32500	8.0	--	--	12.4	19.9	1.7	20.4
27...	1346	69.0	4500	32600	8.0	--	--	12.4	--	--	--
27...	1350	78.0	4500	32500	7.9	.0	--	12.1	16.8	1.5	17.2
FEB											
03...	0820	73.0	4500	31000	7.9	1.0	--	11.6	--	--	--
03...	0821	3.0	4500	29400	7.9	.8	--	11.8	--	--	--
05...	0940	2.0	10800	28500	8.1	.2	12.0	12.7	9.4	2.4	10.5
05...	0942	7.0	10800	28300	8.1	.1	--	12.7	8.0	3.1	9.4
05...	0943	12.0	10800	28300	8.1	.2	--	12.7	10.2	2.4	11.2
05...	0945	20.0	10800	28300	8.1	.3	--	12.6	10.2	2.6	11.3
05...	1005	70.0	4500	31300	8.0	.5	90.0	12.1	20.1	4.8	22.1
05...	1006	60.0	4500	31200	8.0	.5	--	12.2	12.6	2.4	13.6
05...	1007	50.0	4500	31000	8.0	.5	--	12.2	10.9	2.0	11.7
05...	1008	40.0	4500	30800	8.0	.5	--	12.2	11.1	1.6	11.7
05...	1009	30.0	4500	30500	8.0	.4	--	12.2	11.9	1.9	12.6
05...	1010	3.0	4500	29200	8.0	.1	--	12.7	8.9	1.8	9.6
05...	1011	20.0	4500	29400	8.0	.1	--	12.5	9.0	1.8	9.8
05...	1012	12.0	4500	29200	8.0	.1	--	12.6	9.6	1.5	10.2
13...	0800	28.0	10800	31800	7.4	.6	78.0	11.5	8.0	1.7	8.7
13...	0808	15.0	10800	31100	7.5	.5	--	11.5	--	--	--

01661475' -- POTOMAC R AT PINEY POINT, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
FER											
13...	0810	3.0	10800	30400	7.6	.5	--	11.3	8.9	2.2	9.8
13...	0840	3.0	4500	31600	7.6	.5	90.0	11.5	6.8	1.9	7.6
13...	0842	15.0	4500	32400	7.6	.4	--	11.5	4.0	1.3	4.6
13...	0844	30.0	4500	32700	7.6	.3	--	11.4	5.1	1.0	5.5
13...	0846	53.0	4500	32800	7.6	.5	--	11.4	7.3	1.6	8.0
13...	0850	70.0	4500	32900	7.5	.5	--	11.4	7.2	1.4	7.8
19...	1110	31.0	10800	31400	7.6	2.2	108	10.4	10.0	1.8	10.8
19...	1115	17.0	10800	31100	7.6	2.3	--	10.4	--	--	--
19...	1120	3.0	10800	27600	7.6	4.3	--	10.8	2.4	1.0	2.9
19...	1130	70.0	4500	32400	7.6	1.6	120	10.3	5.5	1.8	6.3
19...	1134	52.0	4500	32400	7.6	1.8	--	10.3	3.0	.9	3.5
19...	1138	20.0	4500	31700	7.6	2.5	--	10.4	6.6	1.5	7.2
19...	1140	3.0	4500	29400	7.6	3.8	--	10.8	2.2	1.0	2.6
26...	1345	3.0	10800	--	--	--	--	--	10.3	3.0	11.6
26...	1355	31.0	10800	--	--	--	--	--	10.5	3.5	12.1
26...	1415	3.0	4500	--	--	--	--	--	9.7	1.8	10.4
26...	1417	20.0	4500	--	--	--	--	--	9.9	2.2	10.9
26...	1425	70.0	4500	--	--	--	--	--	11.6	2.1	12.4
MAR											
03...	1150	3.0	4500	23900	8.2	5.9	96.0	12.2	6.8	1.5	7.4
03...	1152	12.0	4500	24300	8.1	5.8	--	12.2	6.9	1.4	7.5
03...	1154	20.0	4500	27500	8.0	5.2	--	11.9	8.4	1.5	9.1
03...	1156	30.0	4500	29600	8.0	4.6	--	11.6	12.4	1.2	12.8
03...	1157	40.0	4500	31000	7.9	4.4	--	11.2	16.0	2.7	17.0
03...	1158	50.0	4500	31200	7.9	4.3	--	11.2	15.2	2.0	16.0
03...	1159	60.0	4500	31200	7.9	4.4	--	11.2	14.2	3.1	15.5
03...	1200	68.0	4500	31200	7.9	4.4	--	11.2	12.6	3.3	14.1
03...	1230	3.0	10800	22100	8.2	6.2	96.0	12.1	6.5	2.0	7.4
03...	1233	12.0	10800	22300	8.2	6.1	--	12.1	7.1	1.1	7.5
03...	1235	20.0	10800	22900	8.2	6.0	--	12.2	7.3	2.0	8.1
09...	1340	3.0	10800	25900	7.9	5.5	66.0	11.7	12.2	1.9	13.0
09...	1350	33.0	10800	26700	7.8	5.1	--	11.4	12.5	2.4	13.5
09...	1400	3.0	4500	26500	8.0	5.4	63.0	11.7	13.4	2.0	14.2
09...	1402	20.0	4500	26600	7.9	5.3	--	11.7	11.9	2.1	12.7
09...	1405	35.0	4500	26800	7.9	5.0	--	11.5	15.5	3.2	16.8
09...	1407	50.0	4500	27100	7.9	5.0	--	11.4	13.9	2.4	14.8
09...	1410	70.0	4500	27700	7.8	4.9	--	11.1	15.8	5.7	18.3
18...	1340	2.0	10800	26700	7.9	5.5	96.0	8.7	6.8	1.5	7.4
18...	1342	7.0	10800	26700	7.9	5.4	--	8.7	9.2	2.1	10.1
18...	1343	12.0	10800	26800	7.9	5.4	--	8.7	9.0	1.8	9.8

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- TION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
MAR											
18...	1344	20.0	10800	26800	7.9	5.4	--	8.8	9.4	2.5	10.5
18...	1345	32.0	10800	26800	7.9	5.4	--	8.8	10.0	2.4	11.1
18...	1410	2.0	4500	27000	7.9	5.3	--	8.7	6.5	1.3	7.0
18...	1415	81.0	4500	27800	7.9	5.4	--	8.7	10.4	2.8	11.6
18...	1416	70.0	4500	27300	7.9	5.3	--	8.7	9.4	2.7	10.6
18...	1417	60.0	4500	27300	7.9	5.4	--	8.7	9.1	2.9	10.4
18...	1418	50.0	4500	27200	7.9	5.3	--	8.7	8.2	2.5	9.3
18...	1419	40.0	4500	27100	7.9	5.3	--	8.7	6.6	2.2	7.6
18...	1420	30.0	4500	27100	7.9	5.2	--	8.8	6.4	2.0	7.3
18...	1421	20.0	4500	27000	7.9	5.2	--	8.9	6.7	1.7	7.4
18...	1422	10.0	4500	27000	7.9	5.3	--	8.7	6.6	1.8	7.4
26...	1120	3.0	10800	25400	8.2	6.4	78.0	11.5	.9	1.4	1.6
26...	1122	6.0	10800	25300	8.2	6.2	--	11.5	--	--	--
26...	1124	9.0	10800	25300	8.1	5.8	--	11.3	--	--	--
26...	1126	19.0	10800	26500	8.0	5.7	--	10.6	--	--	--
26...	1130	27.0	10800	26600	8.0	5.7	--	10.5	9.2	1.4	9.7
26...	1150	3.0	4500	26300	8.1	6.5	102	11.0	1.6	1.3	2.2
26...	1152	15.0	4500	26900	8.1	5.7	--	10.8	4.2	1.6	5.0
26...	1154	30.0	4500	27100	8.1	5.4	--	10.5	4.3	1.5	4.9
26...	1156	50.0	4500	27300	8.0	5.3	--	10.4	3.7	1.7	4.4
26...	1158	60.0	4500	27200	8.0	5.2	--	10.4	4.2	1.8	5.0
26...	1200	70.0	4500	27400	8.0	5.1	--	10.2	3.4	1.3	3.9
APR											
02...	1510	29.0	10800	28700	7.7	6.8	84.0	9.0	12.6	2.5	13.6
02...	1514	20.0	10800	25500	7.9	9.8	--	10.7	--	--	--
02...	1516	16.0	10800	25600	7.9	9.8	--	10.4	--	--	--
02...	1520	3.0	10800	25500	7.9	10.4	--	10.7	13.0	2.7	14.2
02...	1610	68.0	4500	30100	7.7	6.2	90.0	8.7	8.9	2.0	9.7
02...	1615	53.0	4500	30000	7.7	6.3	--	8.8	7.6	2.0	8.4
02...	1616	35.0	4500	29500	7.7	6.5	--	9.1	7.9	1.7	8.6
02...	1618	15.0	4500	27400	7.7	8.2	--	10.0	8.8	1.7	9.5
02...	1620	3.0	4500	26200	7.8	9.9	--	10.3	10.2	2.1	11.1
07...	0950	68.0	4500	30200	7.5	7.4	60.0	8.5	17.3	3.5	18.7
07...	0954	55.0	4500	29800	7.8	7.8	--	8.7	20.0	2.1	20.7
07...	0956	35.0	4500	29000	7.9	8.4	--	8.9	21.8	2.2	22.5
07...	0958	15.0	4500	27500	7.9	9.3	--	9.0	31.4	4.4	33.1
07...	1000	3.0	4500	26600	8.1	9.6	--	9.4	34.6	5.0	36.5
07...	1030	30.0	10800	27000	7.8	9.5	--	8.9	33.1	3.8	34.5
07...	1038	16.0	10800	26100	8.0	9.9	54.0	9.0	--	--	--
07...	1040	3.0	10800	25500	8.1	10.5	--	9.8	34.0	5.6	36.3

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
APR											
16...	0848	10.0	4500	26400	8.2	11.7	--	11.4	75.7	8.3	78.6
16...	0849	20.0	4500	26500	8.2	11.5	--	11.3	78.2	4.6	79.3
16...	0850	30.0	4500	27200	8.1	11.3	--	10.5	59.0	3.8	60.0
16...	0851	40.0	4500	28300	7.8	10.3	--	8.7	43.3	6.2	45.7
16...	0852	50.0	4500	28800	7.7	9.7	--	8.3	33.4	6.6	36.1
16...	0853	60.0	4500	28800	7.6	9.6	--	8.2	32.3	7.0	35.2
16...	0854	70.0	4500	28800	7.7	9.6	--	8.2	33.9	6.3	36.5
16...	0855	78.0	4500	28800	7.7	9.6	--	8.4	--	--	--
16...	0900	2.0	4500	24800	8.4	12.3	48.0	13.4	105	4.2	106
16...	0925	29.0	10800	27500	8.0	10.8	54.0	9.8	57.7	4.6	59.1
16...	0927	20.0	10800	26900	8.2	11.5	--	10.9	72.7	5.0	74.1
16...	0928	10.0	10800	25300	8.3	11.9	--	12.2	100	4.9	101
16...	0930	2.0	10800	24800	8.4	12.7	--	13.4	107	6.3	109
23...	1000	3.0	4500	22300	8.7	14.3	36.0	13.9	112	21.9	121
23...	1001	10.0	4500	23000	8.6	13.9	--	13.1	116	13.8	121
23...	1002	20.0	4500	27500	8.0	12.3	--	8.5	75.5	8.7	78.6
23...	1003	48.0	4500	28700	7.7	11.6	--	6.3	47.2	7.6	50.2
23...	1004	68.0	4500	29300	7.6	11.4	--	6.3	34.1	6.9	37.0
23...	1100	3.0	10800	20900	8.6	14.3	36.0	13.8	98.4	11.6	103
23...	1104	10.0	10800	23200	8.6	13.6	--	13.1	102	11.4	106
23...	1110	18.0	10800	26600	8.1	12.7	--	10.1	106	4.2	106
30...	1100	2.0	4500	20300	8.8	16.6	36.0	13.2	117	17.2	124
30...	1104	10.0	4500	25900	8.5	14.4	--	10.5	93.3	8.8	96.2
30...	1105	20.0	4500	28000	8.2	12.8	--	11.0	84.4	15.1	90.6
30...	1106	30.0	4500	28700	8.1	12.5	--	7.7	78.9	9.7	82.5
30...	1108	50.0	4500	30100	8.1	12.6	--	7.5	73.0	8.4	76.0
30...	1110	68.0	4500	30200	8.1	12.5	--	7.3	82.3	--	81.0
30...	1145	2.0	10800	20000	8.7	16.4	36.0	13.4	102	10.6	105
30...	1150	10.0	10800	20100	8.7	16.4	--	13.2	--	--	--
30...	1153	20.0	10800	28000	8.2	12.6	--	8.2	--	--	--
30...	1155	28.0	10800	29100	8.0	12.5	--	7.8	87.4	6.2	89.1
MAY											
04...	1215	67.0	4500	30100	8.0	12.9	--	10.0	75.9	10.2	79.7
04...	1216	50.0	4500	29600	8.0	13.2	--	9.6	--	--	--
04...	1217	35.0	4500	28400	8.2	13.7	--	10.6	80.9	10.6	84.9
04...	1218	15.0	4500	26300	8.4	14.4	--	12.0	--	--	--
04...	1220	2.0	4500	25600	8.6	15.3	42.0	13.1	106	4.4	107
04...	1235	3.0	10800	23400	8.6	15.3	--	14.4	105	3.1	105
04...	1237	15.0	10800	24600	8.4	14.2	--	12.5	116	10.7	119
04...	1240	28.0	10800	28800	8.1	13.4	--	10.6	105	5.1	106

APPENDIX A-2

01661475: -- POTOMAC R AT PINEY POINT, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
MAY											
11...	1500	2.0	10800	26300	8.6	15.9	36.0	--	79.7	8.1	82.5
11...	1508	20.0	10800	26700	8.5	15.6	--	--	87.6	5.1	88.8
11...	1510	38.0	10800	26900	8.3	14.8	--	8.2	92.7	11.0	96.7
11...	1540	2.0	4500	25900	--	16.3	30.0	--	93.6	.9	91.8
11...	1544	20.0	4500	26300	--	15.5	--	--	93.0	10.0	94.0
11...	1546	40.0	4500	26800	--	14.8	--	--	90.0	5.3	91.2
11...	1548	60.0	4500	27500	7.2	14.1	--	--	97.0	8.1	99.5
20...	0843	7.0	4500	--	--	--	--	--	55.1	6.0	57.2
20...	0844	12.0	4500	25400	8.5	16.5	--	9.2	56.7	2.8	57.2
20...	0845	20.0	4500	26200	8.5	16.6	--	8.9	58.1	4.2	59.3
20...	0846	30.0	4500	26500	8.4	16.6	--	8.0	59.4	3.9	60.4
20...	0847	40.0	4500	27400	8.1	15.9	--	5.2	67.4	5.6	69.2
20...	0848	50.0	4500	28100	7.9	15.3	--	3.2	54.1	13.7	60.0
20...	0849	60.0	4500	28200	7.9	15.2	--	2.7	61.3	15.6	68.0
20...	0850	69.0	4500	28400	7.8	15.2	--	2.7	63.2	19.2	71.6
20...	0855	2.0	4500	24800	8.5	16.4	49.0	9.8	61.0	-3.7	58.4
20...	0915	2.0	10800	23700	8.5	16.7	57.0	9.7	59.6	-1.5	58.0
20...	0917	7.0	10800	23800	8.5	16.6	--	9.5	54.0	8.0	57.1
20...	0918	12.0	10800	23800	8.5	16.6	--	9.3	56.2	9.3	60.0
20...	0919	20.0	10800	24000	8.5	16.6	--	8.6	57.4	8.5	60.7
20...	0920	31.0	10800	26800	8.1	16.2	--	4.9	71.0	9.3	74.5
28...	1830	3.0	10800	25200	8.6	19.1	54.0	9.1	33.6	2.2	34.2
28...	1834	12.0	10800	25300	8.6	19.0	--	9.1	35.8	1.1	35.8
28...	1838	25.0	10800	25400	8.5	18.7	--	--	29.6	3.6	30.9
28...	1840	33.0	10800	26500	8.2	17.5	--	--	45.0	7.4	47.9
28...	1925	3.0	4500	24300	8.5	19.8	--	8.5	31.0	1.5	31.3
28...	1926	15.0	4500	24400	8.5	19.7	--	8.3	30.0	4.6	31.8
28...	1927	30.0	4500	24500	8.5	19.6	--	8.4	30.7	2.4	31.4
28...	1928	40.0	4500	26000	8.1	17.4	--	5.1	31.1	4.7	32.9
28...	1929	50.0	4500	26700	8.0	16.9	--	4.6	34.2	7.9	37.6
28...	1930	69.0	4500	31300	7.3	16.1	--	.4	108	25.8	119
28...	1931	60.0	4500	27900	7.6	16.3	--	1.6	47.8	11.1	52.5
JUN											
01...	1125	2.0	10800	20900	8.5	22.0	72.0	8.4	18.6	2.8	19.6
01...	1127	10.0	10800	21100	8.4	21.8	--	8.0	19.6	2.9	20.8
01...	1128	20.0	10800	26900	7.8	18.3	--	2.9	26.1	3.5	27.4
01...	1130	32.0	10800	30300	7.5	16.9	--	1.5	31.0	10.6	35.7
01...	1150	2.0	4500	23200	8.4	20.8	72.0	7.4	24.2	2.5	25.0
01...	1152	10.0	4500	23800	8.4	20.4	--	6.9	24.5	2.8	25.5
01...	1153	20.0	4500	25700	8.1	19.1	--	5.2	29.1	4.8	31.0

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.
 WATER QUALITY DATA: WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LNG (FT)	SECTION (FT)	LOC- TION, CROSS SECTION (FT)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00005)	(00400)	(00010)	(00077)	(00300)	(32209)	(32217)					
JUN													
01...	1154	30.0	4500	29800	7.5	17.0	1.8	29.5	8.0	33.0			
01...	1155	40.0	4500	31600	7.3	16.7	.8	28.8	10.4	33.4			
01...	1156	50.0	4500	31700	7.3	16.7	.5	27.5	9.6	31.8			
01...	1157	60.0	4500	31900	7.3	16.7	.8	30.5	10.7	35.2			
01...	1158	70.0	4500	32000	7.3	16.7	.8	47.0	28.1	60.0			
01...	1200	78.0	4500	32000	7.3	16.7	.8	58.9	31.5	73.3			
10...	1200	2.0	10800	18900	8.2	24.9	45.0	8.1	4.5	26.5			
10...	1201	6.0	10800	19100	8.1	24.6		6.9	4.8	17.6			
10...	1202	10.0	10800	19800	8.0	24.1		6.2	3.7	11.3			
10...	1203	15.0	10800	29500	7.8	22.1		3.4	2.8	12.2			
10...	1204	18.0	10800	26600	7.7	21.3		2.5	3.5	21.9			
10...	1205	22.0	10800	29100	7.2	18.8		.0	2.5	7.3			
10...	1240	2.0	4500	19200	8.2	25.1		7.9	3.1	17.1			
10...	1245	68.0	4500	32500	7.1	18.3	52.0	.0	4.2	14.2			
10...	1246	60.0	4500	30900	7.1	18.2		.0	2.6	10.5			
10...	1247	50.0	4500	30300	7.1	18.1		.0	8.3	4.0			
10...	1248	40.0	4500	29900	7.2	18.2		.0	2.2	6.4			
10...	1249	30.0	4500	29700	7.2	18.4		.0	2.0	6.2			
10...	1250	20.0	4500	28000	7.5	19.4		.0	5.9	10.4			
10...	1251	18.0	4500	27000	7.5	20.4		.9	4.4	14.1			
10...	1252	15.0	4500	25400	7.9	21.7		4.3	3.6	16.1			
10...	1253	10.0	4500	22600	8.0	23.3		5.8	2.9	14.4			
10...	1254	6.0	4500	21500	8.1	24.0		6.6	3.0	23.3			
15...	1615	2.0	10800	20300	8.4	27.0	48.0	7.8	2.8	13.5			
15...	1616	6.0	10800	20900	8.4	25.8		8.2	3.9	14.1			
15...	1617	10.0	10800	20900	8.4	25.4		7.9	4.3	13.0			
15...	1618	15.0	10800	22200	8.2	25.0		5.3	3.8	10.0			
15...	1619	20.0	10800	24100	7.5	23.7		1.3	3.3	7.9			
15...	1620	31.0	10800	25200	7.3	23.1		.0	2.0	2.0			
15...	1645	2.0	4500	20400	8.5	27.4		8.1	3.8	13.1			
15...	1650	70.0	4500	33000	7.3	19.9	54.0	.0	--	--			
15...	1651	62.0	4500	32600	7.4	19.9		.0	1.8	3.4			
15...	1652	50.0	4500	31900	7.3	19.7		.0	1.5	3.3			
15...	1653	40.0	4500	31400	7.3	19.6		.0	1.7	3.5			
15...	1654	30.0	4500	30100	7.3	20.1		.0	1.9	3.8			
15...	1655	25.0	4500	27500	7.4	21.2		.0	2.1	2.7			
15...	1656	20.0	4500	24000	7.8	23.4		2.7	2.7	5.3			
15...	1657	15.0	4500	22300	8.2	24.7		6.1	3.0	10.2			
15...	1658	7.0	4500	21100	8.4	25.9		8.1	4.1	12.7			

APPENDIX A-2

01661475 POTOMAC R AT PINEY POINT, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUN 25...	1320	64.0	4500	31800	7.4	20.4	---	.0	1.1	2.1	2.1
25...	1322	40.0	4500	31600	7.4	20.6	---	.0	.9	1.5	1.6
25...	1323	32.0	4500	30600	7.4	21.4	---	.0	---	---	---
25...	1324	28.0	4500	27100	7.4	24.1	---	.1	---	---	---
25...	1325	24.0	4500	22400	8.1	25.5	---	4.8	4.1	1.9	4.9
25...	1326	18.0	4500	21600	8.3	26.5	---	6.3	10.8	2.4	11.8
25...	1327	12.0	4500	21700	8.3	27.0	---	6.7	12.1	2.2	13.0
25...	1328	6.0	4500	21100	8.4	27.3	---	7.4	20.2	4.6	22.2
25...	1330	2.0	4500	21200	8.3	28.4	---	7.2	16.7	2.5	17.7
25...	1416	23.0	10800	24200	7.8	25.8	48.0	2.6	3.3	2.5	4.5
25...	1417	18.0	10800	22100	8.2	26.2	---	6.0	8.8	2.2	9.8
25...	1418	12.0	10800	21600	8.3	26.4	---	6.6	17.9	3.9	19.5
25...	1419	6.0	10800	21500	8.4	27.7	---	7.6	30.6	3.3	31.7
25...	1425	2.0	10800	20700	8.5	28.1	---	8.1	36.9	4.3	38.4
JUL 01...	1210	2.0	10800	23200	8.0	25.2	36.0	6.3	15.9	4.7	17.9
01...	1212	10.0	10300	24200	7.9	25.0	---	6.0	10.1	4.0	11.9
01...	1214	20.0	10800	25900	7.7	24.9	---	5.7	4.8	3.2	6.3
01...	1215	30.0	10800	27200	7.4	24.0	---	2.9	2.9	4.3	5.0
01...	1245	4.0	4500	23100	8.1	25.2	30.0	7.1	13.2	3.1	14.5
01...	1246	1.0	4500	23600	8.0	25.1	---	6.6	11.3	4.2	13.2
01...	1247	1.0	4500	25600	7.8	24.9	---	6.0	6.0	2.8	7.3
01...	1248	1.0	4500	25800	7.8	24.9	---	5.7	4.7	3.5	6.4
01...	1249	1.0	4500	26100	7.7	24.7	---	5.2	4.9	4.2	6.9
01...	1250	1.0	4500	31200	7.2	21.4	---	.0	5.2	11.2	10.5
01...	1251	1.0	4500	29000	7.2	23.0	---	.4	1.6	3.1	3.1
07...	1230	2.0	10800	27300	6.9	23.6	40.0	.0	.3	3.1	1.8
07...	1232	21.0	10800	24700	6.9	24.8	---	1.6	4.3	10.5	9.3
07...	1234	14.0	10800	22400	8.0	25.3	---	6.5	14.1	6.7	17.1
07...	1236	7.0	10800	22200	9.1	25.4	---	7.4	16.9	8.7	20.9
07...	1240	2.0	10800	21700	8.6	26.3	---	10.7	77.6	9.8	81.2
07...	1320	77.0	4500	28800	.0	23.3	---	.0	1.6	8.4	5.6
07...	1321	60.0	4500	28800	.0	23.6	---	.0	1.2	5.6	4.0
07...	1322	50.0	4500	28800	.0	23.6	---	.0	.6	3.5	2.2
07...	1323	40.0	4500	28100	.0	24.3	---	.0	.6	2.8	2.0
07...	1324	30.0	4500	28000	.0	24.9	---	1.3	.7	5.8	3.5
07...	1325	21.0	4500	26700	.0	25.0	---	1.7	.5	4.1	2.5
07...	1326	14.0	4500	24800	.0	25.4	---	2.4	3.7	4.0	5.6
07...	1327	7.0	4500	24000	.0	26.2	---	4.8	20.6	5.4	23.0
07...	1330	2.0	4500	23300	.0	26.4	---	8.3	10.4	9.3	10.7

APPENDIX A-2

01661475 - POTOMAC R AT PINEY POINT, MD
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL											
15...	0900	3.0	4500	22700	7.7	26.5	60.0	5.0	15.9	5.5	18.4
15...	0901	10.0	4500	24600	7.4	25.7	--	3.3	12.7	4.5	14.7
15...	0902	20.0	4500	26600	7.1	25.5	--	1.7	4.8	2.1	5.8
15...	0903	30.0	4500	28200	7.0	24.8	--	.5	1.3	2.0	2.3
15...	0904	40.0	4500	32100	7.1	25.2	--	.7	1.1	1.8	1.9
15...	0905	71.0	4500	35600	7.1	24.8	--	.0	1.4	2.0	2.4
15...	0906	50.0	4500	34700	7.1	25.0	--	.4	1.1	1.5	1.8
15...	0925	2.0	10800	22500	7.7	26.6	--	4.8	20.0	5.3	22.2
15...	0926	7.0	10800	22500	7.7	26.6	--	4.7	18.9	5.4	21.2
15...	0927	14.0	10800	22600	7.7	26.5	--	4.6	16.4	5.4	18.8
15...	0928	21.0	10800	23400	7.6	26.3	--	4.3	11.9	4.5	13.9
15...	0929	26.0	10800	26200	7.1	25.5	--	1.6	1.7	3.7	3.4
15...	0930	32.0	10800	29500	7.0	24.7	48.0	.4	.9	1.8	1.8
24...	1240	67.0	4500	33900	7.4	25.1	54.0	.0	1.3	4.5	3.4
24...	1242	30.0	4500	31000	7.4	25.4	--	.0	3.7	3.9	5.5
24...	1244	20.0	4500	25400	8.0	26.3	--	3.6	5.1	3.4	6.7
24...	1246	10.0	4500	24500	8.3	26.2	--	5.0	9.7	3.9	11.4
24...	1250	2.0	4500	24100	8.5	26.4	--	6.0	17.6	4.8	19.7
24...	1320	26.0	10800	27600	7.4	26.1	62.0	.5	3.0	8.8	7.2
24...	1322	20.0	10800	26100	7.7	26.5	--	2.6	4.4	3.4	5.9
24...	1324	10.0	10800	23600	8.4	26.5	--	6.8	29.1	3.3	30.2
24...	1330	2.0	10800	23600	8.5	26.5	--	7.1	31.6	4.1	33.1
27...	1515	1.6	10800	24300	8.0	27.8	48.0	8.0	28.6	3.8	30.0
27...	1517	6.0	10800	24400	7.9	27.3	--	7.0	17.9	3.9	19.6
27...	1518	13.0	10800	24900	7.5	26.8	--	4.4	6.5	3.2	8.0
27...	1519	19.0	10800	25400	7.2	26.7	--	3.2	2.6	2.5	3.8
27...	1520	29.0	10800	27700	7.0	26.5	--	1.1	1.8	3.0	3.2
27...	1535	77.0	4500	33200	6.9	25.7	48.0	.0	.9	2.0	1.9
27...	1537	57.0	4500	33100	6.9	25.7	--	.0	.9	1.7	1.7
27...	1538	38.0	4500	31900	6.9	25.8	--	.0	.9	1.7	1.7
27...	1539	29.0	4500	30000	6.9	26.2	--	.4	1.1	1.9	2.0
27...	1540	19.0	4500	26600	7.3	26.5	--	3.1	3.4	2.0	4.4
27...	1541	13.0	4500	25000	7.6	27.1	--	5.3	12.6	2.8	13.8
27...	1542	6.0	4500	24100	8.0	27.7	--	7.7	18.6	4.0	20.2
27...	1543	1.6	4500	24000	8.0	28.0	--	7.8	16.6	4.9	18.8
AUG											
07...	1345	2.0	4500	25200	8.3	27.3	42.0	8.3	54.3	4.8	55.9
07...	1348	10.0	4500	26200	7.8	26.5	--	4.3	14.4	4.2	16.2
07...	1350	20.0	4500	27400	7.3	26.5	--	1.8	7.6	2.6	8.8
07...	1352	35.0	4500	30000	7.1	26.0	--	.0	.8	1.5	1.5

APPENDIX A-2

01661475 -- POTOMAC R AT PINEY POINT, MD --Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING DEPTH (FT)	SAMPLE LCC- ACTION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHDS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00003)	(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG												
07...	1354	50.0		4500	30200	7.1	26.0	--	.0	.8	1.3	1.4
07...	1400	71.0		4500	30300	7.1	26.0	--	.0	.8	1.8	1.7
07...	1420	27.0		10800	28600	7.2	26.7	--	.4	1.9	1.9	2.3
07...	1424	20.0		10800	26900	7.3	26.7	--	1.5	2.4	2.9	3.8
07...	1426	10.0		10800	25200	8.1	26.9	--	6.5	9.9	4.0	11.7
07...	1430	2.0		10800	24800	8.4	27.7	--	8.8	34.0	7.2	37.0
14...	1300	75.0		4500	30700	7.2	26.5	54.0	.0	1.5	4.0	3.4
14...	1304	30.0		4500	29700	7.2	26.6	--	.0	.9	2.2	2.0
14...	1306	20.0		4500	29000	7.3	27.0	--	1.2	2.1	3.7	3.9
14...	1307	10.0		4500	25500	7.8	27.1	--	4.1	6.2	3.0	7.6
14...	1308	5.0		4500	25000	8.1	27.3	--	5.5	15.0	4.7	17.0
14...	1310	2.0		4500	23500	8.3	27.9	--	7.2	10.2	2.8	11.4
14...	1355	2.0		10800	23000	8.4	28.0	--	7.7	9.7	2.3	10.7
14...	1356	5.0		10800	23100	8.4	27.4	--	8.0	16.2	5.0	18.4
14...	1357	12.0		10800	28900	7.8	27.1	--	3.5	11.2	4.4	13.2
14...	1358	20.0		10800	29000	7.2	26.5	--	.0	.6	2.2	1.7
14...	1400	28.0		10800	29300	7.2	26.7	54.0	.0	.2	3.9	2.1
17...	1120	1.6		10800	25200	7.9	26.5	48.0	5.9	20.9	3.3	22.2
17...	1122	6.0		10800	25400	7.8	26.4	--	5.6	21.1	4.1	22.8
17...	1123	13.0		10800	26000	7.7	26.4	--	4.5	15.9	3.3	17.3
17...	1124	19.0		10800	26200	7.6	26.4	--	4.3	14.7	3.0	15.9
17...	1125	26.0		10800	26700	7.5	26.3	--	3.7	9.0	3.0	10.3
17...	1135	70.0		4500	31700	7.1	26.4	--	.0	6.5	10.4	11.4
17...	1140	1.6		4500	27300	7.4	26.3	--	3.4	17.0	3.5	18.4
17...	1142	57.0		4500	31400	7.1	26.4	--	.3	1.8	2.2	2.9
17...	1143	38.0		4500	31000	7.1	26.4	--	.3	1.2	1.8	2.1
17...	1144	29.0		4500	30700	7.1	26.3	--	.2	1.7	3.4	3.4
17...	1145	19.0		4500	29000	7.1	26.3	--	.7	2.5	2.6	3.7
17...	1146	13.0		4500	27700	7.3	26.2	--	2.5	9.6	2.2	10.5
17...	1147	6.0		4500	27300	7.4	26.2	--	3.2	15.3	4.2	17.1
28...	1150	27.0		10800	28000	7.3	24.0	64.0	4.4	3.6	3.3	5.2
28...	1154	20.0		10800	27700	7.4	23.9	--	4.4	3.7	3.3	5.3
28...	1156	13.0		10800	27700	7.4	23.9	--	4.4	6.9	3.5	8.5
28...	1158	6.0		10800	27600	7.5	24.1	--	5.1	24.7	3.7	26.1
28...	1200	1.0		10800	27700	7.5	24.6	--	5.3	7.9	2.9	9.2
28...	1225	73.0		4500	31000	7.2	23.7	66.0	2.4	16.0	31.4	31.0
28...	1226	66.0		4500	28700	7.2	23.8	--	3.4	7.8	4.7	10.0
28...	1227	30.0		4500	28100	7.3	24.1	--	4.4	4.6	3.6	6.3
28...	1228	13.0		4500	28000	7.6	24.2	--	5.8	8.3	3.4	9.9

APPENDIX A-2

01661475 - POTOMAC R AT PINEY POINT, MD --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHDS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG											
28...	1229	6.00	4500	28000	7.8	24.5	---	7.0	15.7	4.0	17.4
28...	1230	1.00	4500	28000	7.9	25.1	---	7.1	15.4	3.2	16.8
SEP											
02...	1117	75.0	4500	---	---	---	---	---	2.5	3.4	4.2
02...	1118	58.0	4500	30700	7.4	24.0	72.0	1.3	2.1	4.2	4.1
02...	1119	35.0	4500	29500	7.5	24.3	---	2.4	2.5	3.5	4.2
02...	1120	25.0	4500	27800	7.9	24.8	---	5.9	4.5	3.2	6.0
02...	1121	13.0	4500	27800	7.9	25.0	---	6.0	6.5	3.3	8.0
02...	1122	6.0	4500	27700	8.0	25.0	---	6.2	6.6	3.2	8.0
02...	1125	2.0	4500	27700	8.0	25.1	---	6.2	6.9	2.8	8.2
02...	1210	34.0	10800	28500	7.5	24.8	---	2.5	2.5	4.0	4.4
02...	1212	27.0	10800	28200	7.7	24.8	---	3.6	2.5	3.0	3.9
02...	1214	13.0	10800	27700	8.1	25.1	---	6.1	4.7	2.8	6.0
02...	1216	6.0	10800	27600	8.1	25.2	---	6.3	7.8	2.6	9.0
02...	1220	2.0	10800	25200	8.1	27.7	---	6.5	5.0	2.5	6.1
10...	1513	51.0	4500	34200	6.9	23.8	---	.4	1.0	2.1	2.0
10...	1514	35.0	4500	30500	7.0	24.1	---	1.9	1.6	2.1	2.6
10...	1515	22.0	4500	28100	7.3	24.2	---	5.2	3.4	3.0	4.8
10...	1516	13.0	4500	27700	7.4	24.1	---	5.9	5.8	3.0	7.2
10...	1517	6.0	4500	27500	7.4	24.2	---	6.2	7.3	3.4	8.9
10...	1518	5.0	4500	27500	7.5	24.3	---	6.3	9.4	2.8	10.6
10...	1520	1.6	4500	27100	7.6	24.7	---	6.9	9.7	2.8	10.9
10...	1525	74.0	4500	35600	7.0	23.7	78.0	.0	1.0	3.7	2.8
10...	1530	26.0	10800	30700	6.9	24.0	84.0	1.3	1.2	2.8	2.6
10...	1531	19.0	10800	28500	7.1	24.1	---	3.5	2.9	2.6	4.2
10...	1532	13.0	10800	26700	7.5	24.0	---	6.2	8.9	1.3	9.4
10...	1533	6.0	10800	25700	7.6	24.2	---	7.1	7.5	3.0	8.9
10...	1535	1.6	10800	25700	7.6	24.5	---	7.4	9.1	2.5	10.2
17...	1110	1.0	4500	25300	7.7	23.5	60.0	6.4	10.5	3.0	11.8
17...	1116	6.0	4500	25400	7.7	23.5	---	6.2	12.2	3.2	13.5
17...	1118	11.0	4500	27100	7.5	23.9	---	5.2	9.5	3.2	10.9
17...	1120	20.0	4500	29400	7.4	24.0	---	4.3	6.7	2.4	7.8
17...	1122	30.0	4500	33500	7.0	23.6	---	.5	1.4	1.7	2.2
17...	1124	40.0	4500	33800	7.0	23.6	---	.5	1.0	1.5	1.7
17...	1126	50.0	4500	34200	7.0	23.6	---	.5	---	---	---
17...	1128	61.0	4500	34300	7.0	23.5	---	.5	1.4	2.0	2.4
17...	1130	72.0	4500	34200	7.0	23.6	---	.0	2.0	3.1	3.4
17...	1200	1.0	10800	24300	7.9	23.7	54.0	7.2	17.3	3.7	18.9
17...	1210	6.0	10800	24500	7.5	23.8	---	7.2	37.2	3.7	38.5
17...	1212	11.0	10800	24800	7.8	23.8	---	6.8	21.0	-5.6	17.9

01561475 - POTOMAC R AT PINEY POINT, MD --Cont.
WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LING (FT)	SECTION (FT)	CROSS SECTION (FT)	LOC- TION, CROSS SECTION (FT)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)
(00003)	(00009)	(00003)	(00009)	(00009)	(00009)	(00009)	(00009)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
SEP 17...	1214	20.0	10800	29100	7.3	23.8	--	3.6	5.8	3.0	7.2	--	3.0	7.2
17...	1216	30.0	10800	32700	7.0	23.6	--	.5	--	--	--	--	2.2	2.5
17...	1220	37.0	10800	32700	7.0	23.5	--	.4	1.4	2.2	2.5	30.4	4.5	30.4
21...	1124	6.0	4500	27200	7.8	22.0	--	7.5	28.6	3.6	20.4	10.9	3.1	10.9
21...	1125	13.0	4500	27700	7.7	21.8	--	6.9	19.0	3.1	10.9	6.4	3.9	6.4
21...	1126	19.0	4500	28200	7.6	22.1	--	5.0	9.5	2.8	4.4	4.3	2.7	4.3
21...	1127	32.0	4500	29800	7.5	22.9	--	2.4	4.6	3.0	14.2	15.5	3.2	14.2
21...	1128	45.0	4500	31600	7.2	23.4	--	.4	13.8	3.8	15.5	20.6	4.7	20.6
21...	1130	80.0	4500	33500	7.1	23.7	--	8.2	18.6	4.1	14.5	9.0	3.8	9.0
21...	1135	1.6	4500	26400	7.9	22.1	66.0	8.4	12.7	4.0	5.8	5.8	4.0	5.8
21...	1220	1.6	10800	26100	7.9	22.3	66.0	8.2	12.7	4.0	5.8	5.8	4.0	5.8
21...	1222	6.0	10800	26300	7.8	22.1	--	7.0	12.7	4.0	5.8	5.8	4.0	5.8
21...	1223	13.0	10800	26900	7.7	22.1	--	6.3	7.3	3.9	5.8	5.8	4.0	5.8
21...	1224	19.0	10800	27200	7.6	22.3	--	2.6	3.9	4.0	5.8	5.8	4.0	5.8
21...	1225	32.0	10800	30900	7.3	23.2	--	--	--	--	--	--	--	--

380212076195000 - POTOMAC RIVER AT POINT LOOKOUT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING DEPTH (FT)	SECTION L BANK	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)
		(00003)		(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32213)	(32217)
OCT													
22...	1240	2.0		4500	30900	7.7	17.9	--	7.0	6.0	7.0	2.7	7.2
22...	1245	50.0		4500	31200	7.7	18.0	57.0	6.7	6.6	5.3	5.3	9.0
22...	1246	32.0		4500	31300	7.7	18.1	--	6.7	6.3	4.6	4.6	8.5
22...	1247	23.0		4500	31100	7.7	17.9	--	6.9	6.5	4.2	4.2	8.4
22...	1248	10.0		4500	31000	7.7	17.9	--	7.0	6.7	3.4	3.4	8.3
22...	1320	2.0		24300	27000	8.0	17.5	--	8.8	12.0	2.4	2.4	13.0
22...	1323	10.0		24300	27000	8.0	17.5	--	8.7	11.7	2.4	2.4	12.7
22...	1325	20.0		24300	27100	8.0	17.6	84.0	8.6	10.9	2.5	2.5	11.9
NOV													
17...	1235	2.0		24300	27900	8.0	10.2	--	9.8	13.5	3.9	3.9	15.2
17...	1236	10.0		24300	29300	7.9	10.8	--	9.3	12.9	3.7	3.7	14.5
17...	1240	19.0		24300	29700	7.8	11.0	60.0	9.3	11.4	3.8	3.8	13.1
17...	1315	55.0		4500	31800	7.7	11.3	72.0	8.8	11.2	3.5	3.5	12.8
17...	1316	32.0		4500	31700	7.7	11.2	--	9.0	13.1	3.1	3.1	14.4
17...	1317	23.0		4500	31700	7.8	11.2	--	9.1	13.8	4.0	4.0	15.5
17...	1318	10.0		4500	31600	7.8	11.1	--	9.1	14.3	3.0	3.0	15.5
17...	1320	2.0		4500	31600	7.8	10.9	--	9.3	14.6	2.8	2.8	15.7
DEC													
15...	1000	2.0		24300	30300	8.0	6.7	--	11.2	13.6	2.3	2.3	14.5
15...	1004	10.0		24300	30300	8.0	6.7	--	10.7	14.1	2.4	2.4	15.0
15...	1005	22.0		24300	30400	8.0	6.7	90.0	10.8	14.1	2.4	2.4	15.0
15...	1025	2.0		4500	30900	8.1	6.9	--	11.2	12.8	2.6	2.6	13.9
15...	1026	10.0		4500	30900	8.1	6.9	--	11.2	12.8	2.9	2.9	14.0
15...	1027	20.0		4500	31300	8.0	6.9	--	11.1	12.7	3.6	3.6	14.3
15...	1028	30.0		4500	31400	8.0	6.9	--	11.0	12.7	4.6	4.6	14.8
15...	1029	40.0		4500	31500	8.0	6.9	--	11.0	11.8	4.9	4.9	14.0
15...	1030	53.0		4500	31800	8.0	7.0	96.0	10.9	15.7	7.6	7.6	19.2
JAN													
22...	1547	54.0		4500	32700	8.2	.1	98.0	12.7	13.0	3.3	3.3	14.4
22...	1548	50.0		4500	32700	8.2	.1	--	12.7	13.9	1.8	1.8	14.5
22...	1549	40.0		4500	32600	8.2	.1	--	12.7	13.6	2.9	2.9	14.8
22...	1550	30.0		4500	32600	8.2	.1	--	12.7	13.5	2.4	2.4	14.5
22...	1551	20.0		4500	31500	8.2	.1	--	13.0	10.0	2.1	2.1	10.9
22...	1552	10.0		4500	31400	8.2	.3	--	12.9	10.1	1.7	1.7	10.8
22...	1555	2.0		4500	31200	8.1	.6	--	12.8	9.4	.9	.9	9.7
22...	1625	2.0		24300	30700	8.2	.4	--	13.0	13.1	2.1	2.1	14.0
22...	1627	10.0		24300	30500	8.2	.2	--	13.1	13.3	1.9	1.9	14.1
22...	1630	18.0		24300	31200	8.2	.1	72.0	13.0	14.0	2.2	2.2	14.9
FEB													
05...	1100	3.0		4500	31000	8.0	.2	--	12.5	6.6	1.1	1.1	7.0

380212076195000 -- POTOMAC RIVER AT POINT LOOKOUT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT)	SAMP- DEPTH (00003)	LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
					(00009)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)	
FER													
05...	1101	10.0		4500	31000	8.0	.2	--	12.5	5.8	1.1	6.2	
05...	1102	20.0		4500	31000	8.0	.1	--	12.4	6.3	1.4	6.9	
05...	1103	30.0		4500	31000	8.0	.1	--	12.4	5.7	2.1	6.6	
05...	1104	40.0		4500	31000	8.0	.1	--	12.4	7.6	1.3	8.1	
05...	1105	60.0		4500	31000	8.0	.2	132	12.4	8.2	1.8	8.9	
05...	1106	50.0		4500	31000	8.0	.2	--	12.4	6.8	2.5	7.9	
05...	1135	20.0		24300	29700	8.1	.1	--	13.1	13.3	6.2	16.1	
05...	1137	12.0		24300	29700	8.1	.1	--	12.7	11.2	4.7	13.3	
05...	1140	3.0		24300	29700	8.1	.1	--	12.7	9.0	3.4	10.5	
VAR													
03...	1000	3.0		24300	23500	8.1	6.2	--	11.9	7.6	2.4	8.6	
03...	1003	12.0		24300	23700	8.1	6.2	--	11.8	8.4	1.7	9.1	
03...	1005	15.0		4300	23800	8.1	6.1	42.0	11.9	8.7	2.2	9.6	
03...	1045	3.0		4500	23600	8.3	4.9	--	13.6	37.9	3.0	38.8	
03...	1046	12.0		4500	24000	8.3	4.9	--	13.6	41.5	--	40.7	
03...	1047	20.0		4500	25200	8.2	5.0	--	13.3	35.2	2.1	35.8	
03...	1048	30.0		4500	26400	8.2	5.1	--	12.3	30.0	1.6	30.3	
03...	1049	40.0		4500	28100	7.9	4.6	--	11.2	14.5	2.6	15.5	
03...	1050	53.0		4500	31200	7.8	4.3	36.0	11.0	17.7	2.4	18.6	
APR													
16...	1045	2.0		24300	27600	8.1	12.6	--	11.1	36.2	3.8	37.5	
16...	1047	7.0		24300	27500	8.2	12.2	--	11.6	43.7	1.9	44.0	
16...	1049	12.0		24300	27600	8.1	12.1	--	11.0	35.6	2.6	36.4	
16...	1050	18.0		24300	27800	8.1	11.8	60.0	10.6	38.7	2.3	39.3	
16...	1110	2.0		4500	27900	8.2	11.9	--	11.8	41.4	9.6	44.5	
16...	1115	55.0		4500	28700	8.0	11.2	72.0	10.3	41.4	5.7	43.6	
16...	1116	50.0		4500	28700	8.0	11.2	--	10.3	40.8	5.3	42.8	
16...	1117	40.0		4500	28300	8.1	11.4	--	10.5	--	--	--	
16...	1118	30.0		4500	28000	8.1	11.5	--	10.8	44.5	4.6	46.1	
16...	1119	20.0		4500	28000	8.1	11.5	--	11.0	42.8	4.7	44.4	
16...	1120	10.0		4500	27900	8.2	11.7	--	11.6	41.7	6.1	44.1	
MAY													
20...	1025	2.0		4500	26300	8.3	16.1	--	9.2	36.3	3.2	37.3	
20...	1030	58.0		4500	28000	8.0	15.7	60.0	4.7	68.8	7.2	71.2	
20...	1031	50.0		4500	27400	8.2	16.0	--	6.2	65.2	6.6	67.5	
20...	1032	40.0		4500	26700	8.3	16.1	--	8.0	50.9	4.8	52.5	
20...	1033	30.0		4500	26500	8.4	16.1	--	8.8	46.8	14.4	53.1	
20...	1034	20.0		4500	26400	8.3	16.0	--	8.9	45.0	3.8	46.2	
20...	1035	12.0		4500	26400	8.3	16.0	--	8.9	44.2	4.0	45.5	
20...	1036	7.0		4500	26300	8.3	16.0	--	9.1	41.0	4.3	42.5	

APPENDIX A-2

380212076195000 - POTOMAC RIVER AT POINT LOOKOUT --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CRDSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
MAY											
20...	1045	20.0	24300	24700	8.6	16.3	54.0	8.9	57.6	5.0	59.2
20...	1047	12.0	24300	24600	8.6	16.4	--	8.9	58.5	6.3	60.7
20...	1049	7.0	24300	24600	8.7	16.5	--	9.1	60.0	8.2	63.1
20...	1050	2.0	24300	24700	8.7	16.6	--	9.6	57.0	4.8	58.5
JUN											
01...	1005	20.0	24300	23100	8.7	22.6	60.0	9.2	19.8	1.1	20.1
01...	1006	10.0	24300	23100	8.7	22.7	--	9.2	19.6	1.4	20.0
01...	1007	2.0	24300	23100	8.7	22.7	--	9.2	20.6	.6	20.6
01...	1030	58.0	4500	33400	7.4	17.0	78.0	1.0	29.0	5.5	31.2
01...	1031	45.0	4500	33300	7.4	16.9	--	1.1	26.2	3.6	27.6
01...	1032	30.0	4500	27000	8.3	18.7	--	7.3	96.0	1.6	95.4
01...	1033	10.0	4500	25800	8.8	21.2	--	11.1	24.8	2.2	25.6
01...	1034	2.0	4500	25800	8.8	21.3	--	11.1	25.5	.8	25.6
10...	0815	63.0	4500	35200	7.2	19.0	57.0	.7	3.4	1.3	4.0
10...	0816	50.0	4500	34700	7.4	19.4	--	.9	3.7	1.2	4.2
10...	0817	40.0	4500	33900	7.4	19.4	--	1.1	4.6	1.6	5.4
10...	0818	35.0	4500	33500	7.4	19.5	--	1.1	4.2	1.5	4.9
10...	0819	30.0	4500	30900	7.6	20.1	--	1.4	19.4	.8	19.5
10...	0820	25.0	4500	26300	8.3	22.4	--	6.7	21.2	4.5	23.1
10...	0821	20.0	4500	26000	8.4	22.9	--	7.6	19.0	2.9	20.1
10...	0822	15.0	4500	25900	8.6	23.0	--	8.3	18.6	3.0	19.8
10...	0823	10.0	4500	25300	8.5	23.0	--	7.7	15.4	1.0	15.6
10...	0824	6.0	4500	25500	8.4	23.1	--	7.4	14.9	3.0	16.1
10...	0825	3.0	4500	24300	8.3	23.3	--	7.0	10.0	2.9	11.2
15...	1750	56.0	4500	34000	7.4	21.1	96.0	.0	1.2	.6	1.5
15...	1751	45.0	4500	33800	7.4	21.0	--	.0	1.3	.7	1.6
15...	1752	40.0	4500	32600	7.4	21.4	--	.0	1.0	.6	1.3
15...	1753	35.0	4500	30500	7.4	20.0	--	.0	1.8	.7	2.1
15...	1754	30.0	4500	29600	7.4	20.3	--	.0	1.7	.8	2.1
15...	1755	25.0	4500	27600	7.9	22.8	--	1.4	7.5	1.2	8.0
15...	1756	20.0	4500	25800	8.5	24.2	--	5.7	3.4	1.2	3.9
15...	1757	12.0	4500	25200	8.6	24.9	--	6.7	3.5	.7	3.8
15...	1758	7.0	4500	24500	8.5	25.3	--	7.1	3.3	.7	3.6
15...	1759	2.0	4500	23700	8.4	26.2	--	6.7	3.3	.9	3.7
15...	1820	37.0	16800	30100	7.3	20.2	--	.0	1.8	1.1	2.3
15...	1821	30.0	16800	29300	7.4	20.4	--	.0	1.4	.9	1.9
15...	1822	25.0	16800	28200	7.4	21.3	--	.0	2.3	1.4	2.9
15...	1823	20.0	16800	26400	7.8	23.0	--	1.2	7.1	2.2	8.0
15...	1824	15.0	16800	24300	8.5	24.9	--	7.0	3.6	.9	4.0
15...	1825	7.0	16800	23900	8.5	25.4	--	7.2	2.9	.4	3.1

390212076195000 - POTOMAC RIVER AT POINT LOOKOUT

--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUN 15...	1826	2.00	16800	23400	8.5	26.9	--	6.8	3.8	.7	5.0
JUL 07...	0940	59.0	4500	28800	6.9	24.1	--	1.6	1.0	2.0	2.0
07...	0941	50.0	4500	28600	7.0	24.2	--	1.8	1.0	2.3	2.1
07...	0942	40.0	4500	28100	7.1	24.3	--	2.7	.7	2.4	1.9
07...	0943	30.0	4500	27200	7.3	24.7	--	4.7	3.4	3.0	4.8
07...	0944	21.0	4500	26900	7.4	24.8	--	5.1	5.4	2.6	6.6
07...	0945	14.0	4500	26800	7.4	24.8	--	5.2	8.0	3.1	9.4
07...	0946	7.0	4500	26500	7.5	25.0	--	5.4	7.5	2.9	8.8
07...	0947	2.0	4500	26400	7.5	25.1	--	5.6	10.0	2.5	11.1
07...	1025	39.0	16800	28100	6.9	23.8	--	.9	.6	2.0	1.6
07...	1026	30.0	16800	26500	7.0	24.5	--	2.6	1.2	3.3	2.8
07...	1027	21.0	16800	25300	7.5	25.0	--	5.1	4.2	5.1	6.6
07...	1028	14.0	16800	25200	7.6	25.1	--	5.7	4.4	3.5	6.0
07...	1029	7.0	16800	25100	7.7	25.2	--	6.3	3.8	2.6	5.4
07...	1030	2.0	16800	25100	7.7	25.4	--	6.6	4.8	2.8	6.0
15...	0800	55.0	4500	35600	7.1	25.2	84.0	.5	1.5	1.6	2.2
15...	0801	35.0	4500	33600	7.0	25.5	--	.9	2.4	2.4	3.5
15...	0802	25.0	4500	24300	7.9	27.1	--	6.5	13.7	3.5	15.2
15...	0803	12.0	4500	24300	7.9	27.1	--	6.7	10.2	19.8	19.7
15...	0804	3.0	4500	24300	7.9	27.1	--	6.7	15.0	3.5	16.5
27...	0930	24.0	4300	26800	7.7	26.8	--	5.6	7.2	3.3	8.7
27...	0931	19.0	24300	26800	7.7	26.8	--	6.0	8.1	2.7	9.3
27...	0932	13.0	24300	26700	7.8	26.7	--	6.2	10.6	2.2	11.5
27...	0933	6.0	24300	26700	7.8	26.9	--	6.4	10.3	2.7	11.4
27...	0934	1.0	24300	26700	7.8	26.9	--	6.5	8.8	2.2	9.7
27...	1005	1.5	4500	--	--	--	--	--	16.4	1.8	17.1
27...	1006	6.0	4500	--	--	--	--	--	20.6	3.2	21.9
27...	1007	13.0	4500	--	--	--	--	--	9.7	3.1	11.0
27...	1008	19.0	4500	--	--	--	--	--	6.4	2.9	7.7
27...	1009	29.0	4500	--	--	--	--	--	3.8	2.5	4.9
27...	1011	38.0	4500	33000	6.9	25.9	--	.0	.7	1.6	1.5
27...	1013	48.0	4500	33100	6.9	25.9	--	.0	.8	1.4	1.4
27...	1015	57.0	4500	33100	6.9	25.9	72.0	.4	.9	1.4	1.6
AUG 19...	0902	54.0	4500	32200	7.1	26.3	72.0	6.4	8.5	11.8	14.4
19...	0903	48.0	4500	29800	7.4	26.0	--	3.7	14.8	6.9	17.9
19...	0904	38.0	4500	29500	7.6	26.0	--	6.5	17.4	7.8	21.0
19...	0905	29.0	4500	29100	7.7	25.9	--	6.1	16.2	5.6	18.8
19...	0906	19.0	4500	28800	7.7	25.8	--	5.8	17.3	8.0	20.9

380212076195000 - POTOMAC RIVER AT POINT LOOKOUT --Cont.

WATER QUALITY DATA - WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPE- CTIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG											
19...	0907	13.0	4500	28400	7.7	25.7	--	6.2	14.1	3.8	15.8
19...	0908	6.0	4500	27500	7.9	25.6	--	6.8	12.1	3.6	13.7
19...	0909	1.6	4500	27200	7.9	25.6	--	6.9	10.3	3.7	12.0
19...	0955	45.0	16800	30800	7.2	26.1	60.0	1.3	--	--	--
19...	0956	32.0	16800	29100	7.6	25.9	--	4.9	--	--	--
19...	0957	22.0	16800	29000	7.6	25.8	--	5.0	--	--	--
19...	0958	10.0	16800	26900	7.9	25.6	--	6.6	--	--	--
19...	0959	1.6	16800	26800	7.9	25.5	--	6.9	--	--	--
19...	1010	22.0	24300	29200	7.8	26.2	60.0	2.3	9.4	4.2	11.3
19...	1011	19.0	24300	29200	7.3	26.3	--	2.2	7.8	4.6	10.0
19...	1012	13.0	24300	26800	7.8	25.8	--	5.6	11.8	3.8	13.5
19...	1013	6.0	24300	26700	7.9	25.7	--	6.0	12.8	2.4	13.8
19...	1014	1.6	24300	26700	7.9	25.7	--	6.0	12.6	3.7	14.2
SEP											
10...	1628	48.0	4500	35500	7.1	23.7	--	1.1	2.0	1.2	2.6
10...	1629	38.0	4500	31000	7.5	24.0	--	5.1	5.4	1.9	6.3
10...	1630	29.0	4500	29700	7.7	24.0	--	6.4	8.4	2.1	9.3
10...	1631	19.0	4500	29600	7.8	24.5	--	7.2	12.4	2.3	13.3
10...	1632	13.0	4500	29900	7.8	24.5	--	7.3	11.5	2.8	12.7
10...	1633	6.0	4500	29600	7.7	24.3	--	7.4	11.6	2.6	12.7
10...	1634	1.6	4500	29600	7.8	24.5	--	7.3	12.3	2.4	13.3
10...	1640	57.0	4500	37700	7.2	23.7	78.0	1.0	1.2	1.7	2.0
21...	1024	1.6	24300	27800	7.9	22.1	--	8.1	18.7	4.5	20.6
21...	1026	6.0	24300	27800	7.8	22.0	--	8.0	18.0	4.5	19.9
21...	1028	13.0	24300	28100	7.8	22.2	--	7.1	16.4	4.2	18.2
21...	1029	19.0	24300	28200	7.8	22.2	--	7.0	14.2	5.0	16.4
21...	1030	26.0	24300	28500	7.6	22.5	72.0	5.7	10.8	6.0	13.6
21...	1043	48.0	4500	33200	7.5	23.1	--	3.7	3.0	2.6	4.2
21...	1044	38.0	4500	30700	7.7	22.7	--	6.3	5.5	3.1	6.9
21...	1045	29.0	4500	30500	7.7	22.7	--	6.6	6.5	2.3	7.5
21...	1046	19.0	4500	30200	7.7	22.5	--	6.7	9.0	3.4	10.5
21...	1047	13.0	4500	30200	7.7	22.3	--	7.0	9.3	3.1	10.7
21...	1048	6.0	4500	30200	7.7	22.5	--	7.3	9.3	3.1	10.7
21...	1049	1.6	4500	30200	7.8	22.5	--	7.3	10.0	2.2	10.9
21...	1055	57.0	4500	34600	7.4	23.5	--	2.3	4.0	3.1	5.4

APPENDIX A-2

380200076124100 - CHESAPEAKE BAY NR POTOMAC R / PT LOOKOUT TRENCH

WATER QUALITY DATA. WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCTI- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
OCT											
22...	1500	2.0	--	31000	8.1	18.1	102	8.2	13.1	3.1	14.4
22...	1501	10.0	--	31000	8.0	18.1	--	8.1	13.9	2.7	15.0
22...	1502	23.0	--	31000	8.0	17.9	--	7.7	12.6	3.3	14.0
22...	1503	32.0	--	31500	7.9	18.1	--	6.9	7.7	2.2	8.7
22...	1504	55.0	--	33000	7.8	18.3	--	6.3	4.6	2.2	5.6
22...	1505	76.0	--	35100	7.7	18.6	--	5.3	1.7	2.5	2.9
NOV											
17...	1105	2.0	--	32400	7.7	10.9	72.0	9.1	11.6	3.0	12.8
17...	1106	10.0	--	32400	7.7	11.0	--	8.9	10.8	2.4	11.8
17...	1107	23.0	--	32500	7.7	11.1	--	8.8	9.4	2.5	10.4
17...	1108	32.0	--	32500	7.7	11.1	--	8.7	9.7	1.8	10.4
17...	1109	55.0	--	34600	7.7	11.6	--	7.9	7.9	3.6	9.5
17...	1110	75.0	--	35300	7.6	11.7	--	7.9	6.4	4.5	8.5
DEC											
15...	0800	2.0	--	32300	8.0	7.0	--	10.7	11.8	4.1	13.6
15...	0801	10.0	--	32300	8.0	7.0	--	10.7	13.1	3.9	14.8
15...	0802	20.0	--	32300	8.0	7.0	--	10.7	13.4	3.3	14.8
15...	0803	30.0	--	32300	7.9	7.0	--	10.6	12.8	3.6	14.3
15...	0804	55.0	--	33900	7.8	7.5	--	9.7	10.6	4.8	12.8
15...	0805	75.0	--	34900	7.8	7.5	84.0	9.3	15.0	7.5	18.4
JAN											
22...	1815	2.0	--	33000	8.2	.2	--	12.9	9.3	1.4	9.9
22...	1816	10.0	--	33200	8.2	.0	--	13.0	10.5	1.1	10.9
22...	1817	20.0	--	33400	8.2	.0	--	12.9	10.5	1.6	11.1
22...	1818	30.0	--	34300	8.2	.0	--	12.8	11.1	3.0	12.4
22...	1819	55.0	--	37100	8.1	-.1	--	12.2	11.7	2.1	12.5
22...	1820	72.0	--	37600	8.1	-.2	--	12.0	13.5	3.0	14.8
MAR											
03...	0805	3.0	--	24700	8.1	4.6	--	12.8	34.6	2.8	35.5
03...	0810	72.0	--	36600	7.8	4.4	54.0	10.8	11.2	2.9	12.5
03...	0812	65.0	--	36500	7.8	4.3	--	10.8	11.2	3.1	12.6
03...	0813	55.0	--	32700	7.9	4.3	--	11.5	10.9	1.7	11.6
03...	0814	45.0	--	31200	7.9	4.3	--	11.6	14.3	1.4	14.8
03...	0815	30.0	--	26500	8.1	4.7	--	12.5	28.1	2.1	28.8
03...	0816	20.0	--	25600	8.1	4.7	--	12.8	30.5	.4	30.2
03...	0817	12.0	--	25300	8.1	4.6	--	12.8	34.2	1.6	34.5
MAY											
20...	1245	75.0	--	35100	7.8	15.8	54.0	3.2	17.3	4.5	19.2
20...	1246	50.0	--	33000	7.9	16.0	--	4.6	22.8	2.4	23.6
20...	1247	25.0	--	27200	8.5	16.2	--	8.5	49.3	5.9	51.4

380200076124100 - CHESAPEAKE BAY NR POTOMAC R / PT LOOKOUT TRENCH --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
MAY											
20...	1248	10.0	--	27000	8.5	16.3	--	9.2	51.7	3.1	52.5
20...	1250	2.0	--	26900	8.5	16.3	--	9.3	49.6	5.4	51.6
JUN											
01...	1830	78.0	--	37100	7.5	17.1	78.0	2.3	2.5	2.2	3.5
01...	1831	50.0	--	36000	7.5	17.1	--	2.3	6.4	2.6	7.6
01...	1832	25.0	--	29300	8.1	18.3	--	5.3	57.4	--	56.5
01...	1833	10.0	--	26500	8.8	21.9	--	9.9	23.5	.7	23.5
01...	1834	2.0	--	26400	8.8	22.0	--	10.0	23.8	--	23.1
JUL											
15...	0721	65.0	--	39900	7.1	24.8	--	.8	1.4	1.0	1.9
15...	0722	50.0	--	39700	7.1	24.8	--	.8	1.5	.4	1.7
15...	0723	40.0	--	37900	7.1	25.1	--	.9	2.9	1.8	3.7
15...	0724	35.0	--	36000	7.1	25.6	--	1.0	6.1	1.9	6.9
15...	0725	30.0	--	26600	7.6	25.6	--	5.0	22.4	2.6	23.4
15...	0726	21.0	--	26600	7.6	26.5	--	5.2	5.7	2.7	6.9
15...	0727	14.0	--	25900	7.6	26.5	--	5.6	5.3	2.9	6.6
15...	0728	7.0	--	25900	7.6	26.5	--	5.6	5.2	2.9	6.5
15...	0730	2.0	--	39900	7.1	24.8	72.0	.8	1.4	1.0	1.8
15...	0735	75.0	--	36200	6.9	25.7	--	.0	.6	1.3	1.2
27...	0706	58.0	--	34300	6.9	25.8	--	.4	1.6	1.8	2.4
27...	0707	38.0	--	33500	6.9	25.9	--	1.0	1.4	2.4	2.5
27...	0708	37.0	--	28200	7.6	26.5	--	5.0	6.8	1.9	7.7
27...	0709	29.0	--	26800	7.8	26.6	--	6.8	3.4	2.4	4.5
27...	0710	19.0	--	26800	7.8	26.7	--	6.8	3.3	2.9	4.6
27...	0711	10.0	--	26800	7.8	26.7	--	6.8	3.3	2.6	4.6
27...	0712	1.6	--	37300	6.9	25.6	--	.0	.4	.4	.6
27...	0720	80.0	--				92.0	.0			
AUG											
17...	0850	74.0	--	38200	7.3	26.4	96.0	.4	1.9	2.0	2.8
17...	0852	51.0	--	37100	7.3	26.4	--	.3	.9	1.6	1.7
17...	0853	38.0	--	33000	7.2	26.5	--	.7	4.2	1.9	5.1
17...	0854	32.0	--	30100	7.9	26.4	--	5.2	7.8	2.2	8.8
17...	0855	26.0	--	30000	7.9	26.4	--	5.4	9.2	1.9	10.0
17...	0856	16.0	--	30000	7.9	26.4	--	5.4	8.3	2.3	9.3
17...	0857	1.6	--	29900	7.9	26.4	--	5.5	8.8	2.0	9.7
19...	1230	70.0	--	36300	7.3	26.3	72.0	.4	2.2	.9	2.6
19...	1231	54.0	--	35200	7.4	26.4	--	1.1	2.3	1.5	3.0
19...	1232	44.0	--	33600	7.5	26.1	--	1.9	4.3	2.4	5.4
19...	1233	35.0	--	30200	7.8	25.7	--	5.0	11.9	2.7	13.0
19...	1234	26.0	--	29600	7.9	25.4	--	6.3	14.0	2.7	15.1

380200076124100 - CHESAPEAKE BAY NR POTOMAC R / PT LOOKOUT TRENCH

--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG											
19...	1235	13.0	--	29600	7.9	25.4	--	6.5	14.9	2.5	15.9
19...	1236	1.6	--	29600	7.9	25.4	--	6.5	15.2	2.6	16.3
SEP											
10...	1715	83.0	--	40600	7.2	23.7	84.0	1.4	1.7	2.8	3.1
10...	1716	48.0	--	39500	7.3	23.7	--	1.4	2.5	2.6	3.8
10...	1717	29.0	--	33000	7.5	24.0	--	4.2	6.0	2.1	6.9
10...	1718	19.0	--	30100	7.9	23.9	--	7.2	4.6	2.3	5.6
10...	1719	10.0	--	29900	7.9	24.2	--	7.9	4.5	1.4	5.1
10...	1720	1.6	--	29900	7.9	24.5	--	8.2	6.4	2.0	7.3
21...	0845	58.0	--	36100	7.3	24.0	--	1.9	1.8	2.1	2.8
21...	0846	35.0	--	32400	7.6	23.1	--	5.2	4.6	3.3	6.2
21...	0847	22.0	--	31300	7.7	22.4	--	6.8	9.0	3.3	10.5
21...	0848	10.0	--	31300	7.8	22.7	--	6.9	8.7	3.8	10.4
21...	0849	1.6	--	31200	7.8	22.7	--	7.0	9.0	3.4	10.5
21...	0855	83.0	--	36600	7.3	24.0	84.0	1.3	1.5	2.0	2.5

APPENDIX A-2

375248076094200 - CHESAPEAKE BAY NR POTOMAC RIVER OFF SMITH POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LDC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
OCT											
22...	1404	98.0	--	34800	7.7	18.4	120	6.2	2.6	3.5	4.2
22...	1405	55.0	--	34000	7.8	18.2	--	6.6	4.6	4.3	6.6
22...	1406	32.0	--	31400	7.8	17.9	--	7.3	9.7	2.5	10.7
22...	1407	23.0	--	30900	7.8	17.8	--	7.5	9.6	3.5	11.2
22...	1408	10.0	--	30200	7.9	17.8	--	7.8	10.4	3.3	11.8
22...	1415	2.0	--	27700	7.9	18.0	--	8.4	10.5	2.7	11.6
NOV											
17...	1146	10.0	--	31900	7.8	11.1	--	9.1	11.9	2.4	12.9
17...	1147	23.0	--	32400	7.8	11.2	--	8.6	10.4	3.4	11.9
17...	1148	32.0	--	34700	7.7	11.6	--	8.4	9.8	3.7	11.4
17...	1149	55.0	--	34800	7.7	11.6	--	8.3	9.1	4.8	11.3
17...	1150	2.0	--	31300	7.8	10.9	--	9.3	13.9	2.9	15.1
17...	1151	98.0	--	35500	7.7	11.8	60.0	8.3	9.5	3.4	11.0
17...	1155	130	--	--	--	--	--	--	9.3	8.0	13.1
DEC											
15...	0850	98.0	--	35600	7.8	7.7	89.0	9.3	10.8	5.4	13.3
15...	0851	60.0	--	35600	7.8	7.7	--	9.3	10.4	5.5	13.0
15...	0852	30.0	--	32600	7.9	7.3	--	10.0	9.8	4.8	11.9
15...	0853	20.0	--	32500	7.9	7.2	--	10.2	9.9	4.4	11.9
15...	0854	10.0	--	32300	7.9	7.2	--	10.2	6.9	4.1	8.8
15...	0900	2.0	--	32100	7.9	7.0	--	10.4	8.4	4.6	10.5
15...	0905	117	--	--	--	--	--	--	12.3	12.5	18.2
JAN											
22...	1704	98.0	--	39000	8.1	.0	86.0	12.1	14.1	3.5	15.6
22...	1705	60.0	--	38100	8.1	.0	--	12.3	11.8	2.9	13.1
22...	1706	30.0	--	34100	8.2	.0	--	13.0	10.0	1.2	10.4
22...	1707	20.0	--	33800	8.2	.2	--	13.0	9.6	1.0	9.9
22...	1708	10.0	--	32700	8.2	.3	--	13.0	9.6	.6	9.7
22...	1710	2.0	--	32300	8.2	.5	--	12.9	10.0	.6	10.2
22...	1715	130	--	--	--	--	--	--	15.5	5.3	17.8
MAR											
03...	0848	98.0	--	39600	7.8	4.7	42.0	10.6	10.5	2.9	11.8
03...	0849	70.0	--	39100	7.8	4.8	--	10.7	9.9	1.3	10.3
03...	0850	50.0	--	35600	7.9	4.6	--	11.1	11.8	2.1	12.6
03...	0851	30.0	--	31600	8.0	4.5	--	11.9	15.3	2.1	16.1
03...	0852	20.0	--	28600	8.1	4.6	--	12.6	26.4	1.9	26.9
03...	0853	12.0	--	28200	8.2	4.6	--	12.8	27.6	1.4	27.9
03...	0855	3.0	--	28200	8.2	4.6	--	12.8	25.1	2.4	25.9
03...	0900	127	--	--	--	--	--	--	14.2	6.8	17.3
MAY											
20...	1135	130	--	--	--	--	--	--	14.9	2.5	15.9

APPENDIX A-2

375248076094200 - CHESAPEAKE BAY NR POTOMAC RIVER OFFI SMITH POINT

--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPEH- CIFIC CON- DUCT- ANCE (JMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
MAY											
20...	1140	2.0	--	27600	8.6	16.3	--	9.6	41.2	2.1	41.7
20...	1141	113	--	35900	7.7	16.0	60.0	3.4	13.7	1.8	14.4
20...	1142	75.0	--	35300	7.8	16.1	--	3.7	13.8	3.6	15.4
20...	1143	50.0	--	31600	8.1	16.1	--	5.4	36.1	2.8	36.9
20...	1144	25.0	--	27800	8.5	16.2	--	8.7	47.1	4.6	48.6
20...	1145	10.0	--	27700	8.5	16.2	--	9.1	46.3	2.1	46.6
JUN											
01...	0910	75.0	--	37800	7.5	17.2	72.0	2.6	1.1	1.3	1.7
01...	0911	50.0	--	37200	7.5	17.2	--	2.8	2.7	1.6	3.5
01...	0912	25.0	--	29800	8.3	18.8	--	6.8	34.0	2.6	34.8
01...	0913	10.0	--	26700	8.7	20.5	--	9.6	28.7	.4	28.5
01...	0914	2.0	--	26000	8.8	21.4	--	10.1	24.0	.7	24.0
JUL											
27...	0824	1.6	--	28500	7.8	26.8	--	6.2	10.2	2.6	11.3
27...	0825	10.0	--	29900	7.6	26.7	--	5.1	12.0	2.6	13.1
27...	0826	19.0	--	30200	7.6	26.7	--	4.8	17.0	3.4	18.4
27...	0827	29.0	--	30600	7.5	26.6	--	4.0	30.0	2.7	30.9
27...	0828	38.0	--	34100	7.0	26.3	--	.7	2.7	2.2	3.7
27...	0829	57.0	--	35800	7.0	26.1	--	.3	1.0	1.1	1.5
27...	0835	80.0	--	36500	7.0	26.1	72.0	.3	1.3	1.1	1.9
AUG											
19...	1211	99.0	--	36700	7.3	26.4	66.0	.5	2.0	2.0	3.0
19...	1212	64.0	--	36400	7.3	26.4	--	.7	2.6	1.7	3.4
19...	1213	48.0	--	36100	7.4	26.4	--	1.0	2.7	1.6	3.4
19...	1214	38.0	--	34800	7.4	26.2	--	1.6	4.8	2.3	5.8
19...	1215	32.0	--	31300	7.7	26.0	--	4.2	11.1	2.2	12.0
19...	1216	26.0	--	30200	7.8	25.8	--	5.3	12.2	3.1	13.5
19...	1217	19.0	--	29600	7.9	25.7	--	6.0	14.1	2.4	15.1
19...	1218	13.0	--	29600	7.9	25.7	--	6.1	15.5	2.4	16.4
19...	1219	6.0	--	29600	7.9	25.7	--	6.1	14.8	2.7	15.8
19...	1220	1.6	--	29600	7.9	25.7	--	6.2	15.9	3.2	17.2
SEP											
21...	0923	102	--	36300	7.4	24.0	78.0	2.3	2.8	2.5	3.9
21...	0924	70.0	--	35000	7.6	23.8	--	4.0	2.7	3.1	4.1
21...	0925	48.0	--	32600	7.6	23.1	--	5.3	4.2	4.1	6.2
21...	0926	35.0	--	31400	7.8	22.7	--	6.5	8.6	4.0	10.4
21...	0927	22.0	--	30500	7.8	22.4	--	7.0	13.9	5.9	16.6
21...	0928	10.0	--	29800	7.8	22.6	--	7.3	13.6	4.4	15.6
21...	0929	1.6	--	29000	7.9	22.4	--	7.9	13.4	3.8	15.0
21...	0935	120	--	--	--	--	--	--	1.8	4.6	4.0

APPENDIX A-3.- Major cation and anion data

APPENDIX A-3
385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LDC- ATION, CROSS SECTION (FT FM L BANK) (00009)	CALCIUM DIS- SOLVED (MG/L) AS CA (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)	ALKA- LITY LAB (MG/L) AS CAC03 (90410)	SULFATE DIS- SOLVED (MG/L) AS S04 (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL7 (00940)
------	------	--	---	---	---	--	--	--	---

JUL	0840	50000	36	8.3	14	2.8	93	33	12
AUG	25...	50000	30	9.6	25	3.1	72	71	21

DATE	FLUO- RIDE, DIS- SOLVED (MG/L) AS F (00950)	SILICA, DIS- SOLVED (MG/L) AS SiO2 (00955)	SOLIDS, SUM OF CONSTI- TENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L) AS N (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N (00613)	NITRO- GEN, N02+N03 DIS- SOLVED (MG/L) AS N (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)
------	---	--	---	--	--	--	--	--	---

JUL	22...	3.5	168	.61	.020	.63	.040	.43	.69
AUG	25...	1.5	205	.03	.020	.05	.200	.20	.71

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L) AS N (00623)	PHOS- PHORUS, TOTAL (MG/L) AS P (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L) AS P (00665)	CARBON, ORGANIC TOTAL (MG/L) AS C (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C (00681)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)
------	--	--	---	--	---	--	--	---	--

JUL	22...	.081	.033	3.1	1.6	20.3	8.2	24.0	.7
AUG	25...	.048	.022	4.0	3.1	16.1	9.9	20.6	.6

APPENDIX A-3

385039077012500 - POTOMAC RIVER AT GEISHORO POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	CALCIUM DIS- SOLVED (MG/L) AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K) (00935)	ALKA- LINITY LAB AS CAC03) (90410)	SULFATE DIS- SOLVED (MG/L) AS S04) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)
JUL 22...	0915	50000	34	7.9	15	3.1	82	40	12
AUG 25...	1925	50000	41	8.1	24	4.0	75	60	30

DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	SILICA, DIS- SOLVED (MG/L) AS SI02) (00955)	SOLIDS, SJM OFI CONSTI- TJENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L) AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N) (00607)	VITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N) (00625)
JUL 22...	.1	3.4	157	.58	.040	.62	.030	.54	.73	
AUG 25...	.2	2.0	222	1.50	.150	1.6	.230	.56	.90	

DATE	TIME	VITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L) AS N) (00623)	PHOS- PHORUS, TOTAL (MG/L) AS P) (00565)	PHOS- PHORUS, DIS- SOLVED (MG/L) AS P) (00566)	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00680)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)
JUL 22...	.57	.088	.016	4.8	3.2	34.0	21.1	43.8	1.0	
AUG 25...	.79	.117	.052	4.5	3.7	--	--	--	5.6	

384852077020500 - POTOMAC RIVER AT MARBURY POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE										CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (009407)
		LCC- ATION, CROSS SECTION (FT FM L BANK) (00009)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY LAB AS CAC03) (90410)	SULFATE DIS- SOLVED (MG/L AS S04) (00945)				
JUL 22...	0750	50000	35	8.1	16	3.5	87	46			16	
AUG 25...	1900	50000	37	7.5	24	4.1	73	58			32	
DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS S102) (00955)	SOLIDS, SJM OF CONSTI- TJENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, N02+N03 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS V) (00607)			
										NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)		
JUL 22...	.2	3.8	186	1.20	.050	1.2	.140	.49			1.10	
AUG 25...	.3	1.8	213	1.60	.180	1.8	.310	.20			1.30	
DATE	TIME	NITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L AS N) (00623)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00680)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)		
JUL 22...	.63	.142	.038	4.9	2.4	36.4	19.8	45.4			4.4	
AUG 25...	.51	.114	.049	4.9	3.4	61.5	14.2	67.5			8.8	

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

- 261 -

APPENDIX A-3

01652590 - POTOMAC R AT ALEXANDRIA, VA. -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	P-POS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)
FEB 04...	.152	.087	10	--	--	4.3	1.6	5.0	--
FEB 04...	.204	.125	10	--	--	4.5	1.1	4.9	--
JUL 22...	.151	.060	--	5.1	2.4	35.4	17.0	43.2	6.8
JUL 22...	.135	.063	--	4.6	2.4	35.9	19.4	44.8	4.6
AUG 25...	.154	.042	--	5.7	4.5	82.9	9.8	86.5	11
AUG 25...	.122	.030	--	4.6	4.9	63.0	17.3	70.5	6.7
SEP 22...	.214	.128	--	3.7	--	--	--	--	--

APPENDIX A-3

384605077015800 - POTOMAC RIVER AT ROSIER BLUFF

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS- SOLVED (MG/L AS S04) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL 22...	0615	5000	34	8.1	17	4.2	74	46	22
AUG 25...	1730	5000	34	8.4	23	4.5	66	57	34

DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00450)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	SOLIDS, SJM OF CONSTI- TENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, VITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUL 22...	02	4.2	198	1.60	0.070	1.7	0.450	1.3	1.60	
AUG 25...	03	1.1	210	1.40	0.200	1.6	0.150	0.52	1.10	

DATE	TIME	NITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L AS N) (00623)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)
JUL 22...	1.7	0.149	0.061	5.3	3.2	35.4	15.6	42.5	0	
AUG 25...	0.67	0.118	0.024	4.9	4.3	66.8	13.0	72.1	14	

394318077020300 - POTOMAC RIVER AT HATTON POINT.

WATER QUALITY DATA. WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

- 264 -

APPENDIX A-3

384136077054500 - POTOMAC RIVER AT MARSHALL HALL

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOCATION	CALCIUM DIS- SOLVED (MG/L)	MAGNESIUM DIS- SOLVED (MG/L)	SODIUM DIS- SOLVED (MG/L)	POTASSIUM DIS- SOLVED (MG/L)	ALKALINITY LAB (MG/L)	SULFATE DIS- SOLVED (MG/L)	CHLORIDE DIS- SOLVED (MG/L)
JUL 22...	0715	50000	27	8.0	18	3.9	56	43	20
AUG 25...	2145	50000	29	8.5	23	4.2	56	52	34

DATE	TIME	FLUORIDE DIS- SOLVED (MG/L)	SILICA DIS- SOLVED (MG/L)	SOLIDS, SPM OFI	NITROGEN, NITRATE DIS- SOLVED (MG/L)	NITROGEN, NITRITE DIS- SOLVED (MG/L)	NITROGEN, NITROGEN, NO2+NO3 DIS- SOLVED (MG/L)	NITROGEN, AMMONIA DIS- SOLVED (MG/L)	NITROGEN, AMMONIA DIS- SOLVED (MG/L)	NITROGEN, AMMONIA DIS- SOLVED (MG/L)	NITROGEN, AMMONIA DIS- SOLVED (MG/L)
JUL 22...	02	4.1	165	150	0.60	1.6	0.310	0.53	1.10	0.93	0.93
AUG 25...	03	0.8	191	1.00	0.160	1.2	0.150	0.41	0.93	0.93	0.93

DATE	TIME	NITROGEN, AMMONIA DIS- SOLVED (MG/L)	PHOSPHORUS, TOTAL (MG/L)	PHOSPHORUS, DIS- SOLVED (MG/L)	CARBON, ORGANIC DIS- SOLVED (MG/L)	CARBON, ORGANIC DIS- SOLVED (MG/L)	CHLOROPHYLL A	CHLOROPHYLL A	CHLOROPHYLL A	CHLOROPHYLL A	CHLOROPHYLL A
JUL 22...	084	0.114	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048
AUG 25...	056	0.119	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028

DATE	TIME	NITROGEN, AMMONIA DIS- SOLVED (MG/L)	PHOSPHORUS, TOTAL (MG/L)	PHOSPHORUS, DIS- SOLVED (MG/L)	CARBON, ORGANIC DIS- SOLVED (MG/L)	CARBON, ORGANIC DIS- SOLVED (MG/L)	CHLOROPHYLL A	CHLOROPHYLL A	CHLOROPHYLL A	CHLOROPHYLL A	CHLOROPHYLL A
JUL 22...	084	0.114	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048
AUG 25...	056	0.119	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028

APPENDIX A-3

343818077072900 - POTOMAC RIVER AT HALLOWING POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	CALCIUM DIS- SOLVED (MG/L) AS CA (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)	ALKA- LINITY LAB (MG/L) AS CAC03 (90410)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL7 (009407)
JUL 22...	0800	50000	22	7.3	16	3.5	43	40	16
AUG 25...	2015	50000	24	13	71	5.9	41	55	130
DATE									
JUL 22...	02	3.6	139	1.10	.040	1.1	.110	.42	.97
AUG 25...	03	.5	328	.77	.120	.89	.130	.47	.94
DATE									
JUL 22...	053	.120	.031	4.2	2.4	40.8	19.2	49.5	2.5
AUG 25...	060	.114	.038	3.2	3.8	60.0	15.4	66.6	9.2
DATE									

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

01658710

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00619)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00507)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
FER										
04...	.4	1.9	3660	3450	1.80	.020	1.8	.460	.25	.75
04...	.4	1.7	4680	4370	1.60	.020	1.6	.350	.23	.90
JUL										
22...	.2	3.2	--	1620	.47	.010	.48	.020	.40	.94
AUG										
25...	.3	3.7	--	3060	.21	.100	.31	.050	.49	.79
SEP										
21...	.3	2.2	--	1600	.56	.030	.69	.130	.62	.96

DATE	VITRO- GENI-AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHOS- TOTAL (MG/L AS P) (00665)	PHOS- PHOS- DIS- SOLVED (MG/L AS P) (00566)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC UNCORR. (UG/L) (32217)	ADE- NOSINE TRI- PHOS- PHATE (IATP) (UG/L) (70998)
FEB										
04...	.71	.075	.010	<10	--	--	29.8	3.7	31.1	--
04...	.58	.074	.006	<10	--	--	26.2	6.6	29.1	--
JUL										
22...	.42	.179	.055	--	5.9	3.1	39.6	19.5	48.5	3.7
AUG										
25...	.54	.121	.064	--	14	3.3	36.0	15.0	42.8	4.2
SEP										
21...	.75	.197	.050	--	6.0	--	--	--	--	--

APPENDIX A-3

01660800 - POTOMAC R NR MORGANTOWN, MD

WATER QUALITY DATA WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT F-M L BANK)	(00009)	CALCIUM DIS- SOLVED (MG/L AS CA)	(00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	(00925)	SODIUM, DIS- SOLVED (MG/L AS NA)	(00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB AS CACO3	(90410)	SULFATE DIS- SOLVED (MG/L AS SO4)	(00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	(00940)
JAN																		
22...	0910	2.0		1500		150		430		5300		210	--		1100		7700	
22...	0915	50.0		1500		160		440		5200		210	--		1100		9400	
SEP																		
21...	1550	3.0		1500		130		390		3700		120	75		750		6500	
21...	1555	67.0		1500		160		490		4200		140	77		1100		7900	

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)
JAN									
22...	.6	--	16200	--	--	<.010	.22	.010	.20
22...	.6	.1	16700	--	--	<.010	.19	.020	.08
SEP									
21...	.4	4.2	--	11600	.23	.150	.38	.030	.43
21...	.5	3.9	--	14000	.20	.150	.35	.040	.48

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	CARBON, ORGANIC TOTAL (MG/L AS C)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD (UG/L)
JAN									
22...	.16	.21	.051	.021	<10	--	17.3	2.4	18.3
22...	.18	.10	.056	.020	<10	--	27.2	4.0	28.7
SEP									
21...	.47	.46	.091	.073	--	2.7	--	--	--
21...	.44	.52	.090	.070	--	2.0	3.0	4.3	5.0

01661475 - POTOMAC R AT PINEY POINT, MD
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION		CALCIUM DIS- SOLVED (MG/L) AS CA	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG		SODIUM, DIS- SOLVED (MG/L) AS NA		POTAS- SIUM, DIS- SOLVED (MG/L) AS K		ALKA- LINEITY LAB AS CACO3		SULFATE DIS- SOLVED (MG/L) AS SO4		CHLD- RIDE, DIS- SOLVED (MG/L) AS CL	
			CROSS SECTION (FT FV)	DEPTH (FT)													
JAN																	
22...	1425	2.0	4500	180	530	6300	250	--	1300	9800							
22...	1430	53.0	4500	190	570	6300	270	--	1400	10000							
SEP																	
21...	1130	90.0	4500	230	770	6600	240	89	1600	12000							
21...	1135	1.6	4500	180	570	5300	170	79	1100	9600							
21...	1220	1.6	10800	170	540	5100	180	75	1100	9300							
21...	1225	32.0	10800	180	630	5900	190	81	--	12000							

- 270 -

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION		CALCIUM DIS- SOLVED (MG/L) AS CA	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG		SODIUM, DIS- SOLVED (MG/L) AS NA		POTAS- SIUM, DIS- SOLVED (MG/L) AS K		ALKA- LINEITY LAB AS CACO3		SULFATE DIS- SOLVED (MG/L) AS SO4		CHLD- RIDE, DIS- SOLVED (MG/L) AS CL	
			CROSS SECTION (FT FV)	DEPTH (FT)													
JAN																	
22...	1425	2.0	4500	180	530	6300	250	--	1300	9800							
22...	1430	53.0	4500	190	570	6300	270	--	1400	10000							
SEP																	
21...	1130	90.0	4500	230	770	6600	240	89	1600	12000							
21...	1135	1.6	4500	180	570	5300	170	79	1100	9600							
21...	1220	1.6	10800	170	540	5100	180	75	1100	9300							
21...	1225	32.0	10800	180	630	5900	190	81	--	12000							

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION		CALCIUM DIS- SOLVED (MG/L) AS CA	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG		SODIUM, DIS- SOLVED (MG/L) AS NA		POTAS- SIUM, DIS- SOLVED (MG/L) AS K		ALKA- LINEITY LAB AS CACO3		SULFATE DIS- SOLVED (MG/L) AS SO4		CHLD- RIDE, DIS- SOLVED (MG/L) AS CL	
			CROSS SECTION (FT FV)	DEPTH (FT)													
JAN																	
22...	1425	2.0	4500	180	530	6300	250	--	1300	9800							
22...	1430	53.0	4500	190	570	6300	270	--	1400	10000							
SEP																	
21...	1130	90.0	4500	230	770	6600	240	89	1600	12000							
21...	1135	1.6	4500	180	570	5300	170	79	1100	9600							
21...	1220	1.6	10800	170	540	5100	180	75	1100	9300							
21...	1225	32.0	10800	180	630	5900	190	81	--	12000							

APPENDIX A-4.- Sediment size data

01646580 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LDC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SEDI- MENT, SJS- PENDEO (MG/L) (80154)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)
APR	1515	1350	247	47	61	79	92	98	100	100	100	--
14...	1520	1350	192	60	80	93	99	99	99	99	100	--
16...												

01652590

- POTOMAC R AT ALEXANDRIA, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SEDI- MENT, SJS- PENED (MG/L) (80154)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)
APR 15...	1200	3400	135	32	51	69	84	93	100	100	100	--
15...	1210	3400	125	41	57	80	88	97	99	99	100	--
15...	1300	500	51	45	61	75	88	95	99	100	100	--
16...	1140	500	105	58	77	92	97	99	100	100	100	--
16...	1335	3400	149	43	63	81	93	98	100	100	--	--
17...	1130	3400	110	37	60	76	91	97	100	100	--	--
17...	1145	3400	85	36	59	80	94	98	99	99	99	100
17...	1200	500	49	52	75	90	95	97	100	--	--	--
17...	1215	500	59	60	76	89	94	97	98	99	99	100

01558710

- POTOMAC RIVER AT QUANTICO, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SECTION (FT F4 L BANK) (00009)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED.			SED.			SED.		
				SUSP. FALL DIAM.	% FINER THAN	(70337)	SUSP. FALL DIAM.	% FINER THAN	(70338)	SUSP. FALL DIAM.	% FINER THAN	(70339)
APR 16...	0920	5000	62	48	72	90	95					
17...	0920	5000	59	36	59	80	89					
17...	0930	5000	67	40	63	82	96					

DATE	SED. SUSP. FALL DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.
APR 16...	100	99	99	99	99	99	99	99	99	99	99	99
17...	95	97	99	99	99	99	99	99	99	99	99	99
17...	98	99	99	99	99	99	99	99	99	99	99	99

APPENDIX B-1.- High and low water predictions

WASHINGTON, D.C., 1980
TIMES AND HEIGHTS OF HIGH AND LOW WATERS

OCTOBER								NOVEMBER								DECEMBER											
DAY	TIME	HEIGHT		DAY	TIME	HEIGHT		DAY	TIME	HEIGHT		DAY	TIME	HEIGHT		DAY	TIME	HEIGHT		DAY	TIME	HEIGHT		DAY	TIME	HEIGHT	
	h.m.	ft.	m.		h.m.	ft.	m.		h.m.	ft.	m.		h.m.	ft.	m.		h.m.	ft.	m.		h.m.	ft.	m.		h.m.	ft.	m.
1	0048	3.0	0.9	16	0732	0.7	0.2	1	0240	2.5	0.8	16	0117	2.8	0.9	1	0306	2.2	0.7	16	0202	2.5	0.8				
W	0822	0.1	0.0	TH	1229	2.7	0.8	SA	0945	0.0	0.0	SU	0851	0.3	0.1	M	0951	-0.2	-0.1	TU	0917	-0.2	-0.1				
	1341	2.7	0.8		1920	0.6	0.2		1524	2.5	0.8		1400	2.7	0.8		1542	2.3	0.7		1434	2.6	0.8				
	2023	0.1	0.0						2159	0.1	0.0		2111	0.3	0.1		2223	-0.1	0.0		2202	-0.2	-0.1				
2	0159	2.9	0.9	17	0039	3.1	0.9	2	0344	2.5	0.8	17	0223	2.8	0.9	2	0403	2.2	0.7	17	0310	2.4	0.7				
TH	0923	0.1	0.0	F	0826	0.7	0.2	SU	1038	0.0	0.0	M	0947	0.1	0.0	TU	1038	-0.2	-0.1	W	1015	-0.3	-0.1				
	1449	2.6	0.8		1326	2.7	0.8		1619	2.5	0.8		1502	2.8	0.9		1631	2.4	0.7		1538	2.7	0.8				
	2127	0.2	0.1		2021	0.6	0.2		2258	0.1	0.0		2219	0.1	0.0		2316	-0.1	0.0		2307	-0.3	-0.1				
3	0309	2.8	0.9	18	0143	3.0	0.9	3	0439	2.5	0.8	18	0333	2.8	0.9	3	0455	2.3	0.7	18	0416	2.4	0.7				
F	1023	0.1	0.0	SA	0924	0.6	0.2	M	1127	0.0	0.0	TU	1044	0.0	0.0	W	1125	-0.2	-0.1	TH	1114	-0.4	-0.1				
	1551	2.6	0.8		1430	2.8	0.9		1708	2.6	0.8		1603	2.9	0.9		1717	2.5	0.8		1639	2.8	0.9				
	2229	0.2	0.1		2128	0.5	0.2		2353	0.0	0.0		2325	-0.1	0.0												
4	0413	2.7	0.8	19	0250	3.0	0.9	4	0527	2.6	0.8	19	0436	2.8	0.9	4	0009	-0.1	0.0	19	0009	-0.5	-0.2				
SA	1117	0.1	0.0	SU	1021	0.5	0.2	TU	1212	0.0	0.0	W	1140	-0.2	-0.1	TH	0543	2.3	0.7	F	0518	2.4	0.7				
	1647	2.6	0.8		1532	2.9	0.9		1753	2.7	0.8		1700	3.1	0.9		1209	-0.1	0.0		1212	-0.6	-0.2				
	2327	0.2	0.1		2236	0.4	0.1										1757	2.6	0.8		1737	2.8	0.9				
5	0508	2.8	0.9	20	0355	3.1	0.9	5	0041	0.0	0.0	20	0024	-0.3	-0.1	5	0057	-0.1	0.0	20	0107	-0.7	-0.2				
SU	1208	0.1	0.0	M	1117	0.3	0.1	W	0613	2.6	0.8	TH	0535	2.9	0.9	F	0628	2.4	0.7	SA	0614	2.4	0.7				
	1737	2.7	0.8		1631	3.1	0.9		1254	0.0	0.0		1233	-0.3	-0.1		1252	-0.1	0.0		1307	-0.7	-0.2				
					2340	0.2	0.1		1831	2.8	0.9		1756	3.2	1.0		1834	2.7	0.8		1830	2.9	0.9				
6	0020	0.2	0.1	21	0458	3.2	1.0	6	0127	0.0	0.0	21	0120	-0.4	-0.1	6	0144	-0.1	0.0	21	0202	-0.8	-0.2				
M	0556	2.8	0.9	TU	1210	0.1	0.0	TH	0655	2.7	0.8	F	0630	2.9	0.9	SA	0708	2.4	0.7	SU	0709	2.5	0.8				
	1252	0.1	0.0		1727	3.3	1.0		1331	0.1	0.0		1327	-0.5	-0.2		1334	-0.1	0.0		1402	-0.7	-0.2				
	1823	2.8	0.9						1908	2.9	0.9		1846	3.3	1.0		1907	2.8	0.9		1921	2.9	0.9				
7	0109	0.1	0.0	22	0040	0.0	0.0	7	0211	0.0	0.0	22	0215	-0.6	-0.2	7	0227	-0.1	0.0	22	0253	-0.8	-0.2				
TU	0641	2.9	0.9	W	0553	3.3	1.0	F	0734	2.7	0.8	SA	0723	2.9	0.9	SU	0744	2.4	0.7	M	0800	2.5	0.8				
	1334	0.1	0.0		1302	0.0	0.0		1409	0.1	0.0		1418	-0.5	-0.2		1416	0.0	0.0		1454	-0.7	-0.2				
	1902	2.9	0.9		1817	3.5	1.1		1939	3.0	0.9		1936	3.3	1.0		1939	2.8	0.9		2012	2.9	0.9				
8	0153	0.2	0.1	23	0136	-0.2	-0.1	8	0253	0.1	0.0	23	0308	-0.7	-0.2	8	0311	-0.1	0.0	23	0342	-0.9	-0.3				
W	0723	3.0	0.9	TH	0648	3.4	1.0	SA	0810	2.7	0.8	SU	0814	2.9	0.9	M	0819	2.4	0.7	TU	0849	2.4	0.7				
	1411	0.1	0.0		1351	-0.2	-0.1		1446	0.2	0.1		1510	-0.6	-0.2		1458	0.0	0.0		1543	-0.7	-0.2				
	1939	3.0	0.9		1907	3.6	1.1		2007	3.0	0.9		2027	3.3	1.0		2011	2.9	0.9		2101	2.8	0.9				
9	0235	0.2	0.1	24	0230	-0.3	-0.1	9	0333	0.1	0.0	24	0400	-0.7	-0.2	9	0351	-0.1	0.0	24	0430	-0.8	-0.2				
TH	0800	3.0	0.9	F	0740	3.4	1.0	SU	0843	2.7	0.8	M	0907	2.8	0.9	TU	0853	2.4	0.7	W	0940	2.4	0.7				
	1445	0.2	0.1		1440	-0.3	-0.1		1523	0.2	0.1		1600	-0.6	-0.2		1538	0.0	0.0		1633	-0.7	-0.2				
	2012	3.1	0.9		1956	3.7	1.1		2037	3.1	0.9		2117	3.1	0.9		2048	2.9	0.9		2149	2.6	0.8				
10	0315	0.3	0.1	25	0323	-0.4	-0.1	10	0413	0.2	0.1	25	0451	-0.6	-0.2	10	0433	0.0	0.0	25	0515	-0.8	-0.2				
F	0834	3.0	0.9	SA	0832	3.3	1.0	M	0915	2.7	0.8	TU	0959	2.7	0.8	W	0926	2.5	0.8	TH	1030	2.3	0.7				
	1519	0.3	0.1		1529	-0.4	-0.1		1601	0.3	0.1		1651	-0.5	-0.2		1622	0.0	0.0		1720	-0.6	-0.2				
	2040	3.1	0.9		2046	3.6	1.1		2113	3.1	0.9		2209	3.0	0.9		2128	2.9	0.9		2239	2.5	0.8				
11	0356	0.3	0.1	26	0417	-0.4	-0.1	11	0454	0.3	0.1	26	0541	-0.6	-0.2	11	0513	0.0	0.0	26	0559	-0.7	-0.2				
SA	0909	3.0	0.9	SU	0921	3.2	1.0	TU	0950	2.6	0.8	W	1054	2.5	0.8	TH	1005	2.5	0.8	F	1118	2.2	0.7				
	1551	0.3	0.1		1621	-0.4	-0.1		1638	0.3	0.1		1742	-0.4	-0.1		1707	0.1	0.0		1810	-0.5	-0.2				
	2109	3.2	1.0		2137	3.5	1.1		2150	3.1	0.9		2302	2.8	0.9		2213	2.9	0.9		2331	2.3	0.7				
12	0435	0.4	0.1	27	0509	-0.4	-0.1	12	0536	0.3	0.1	27	0631	-0.5	-0.2	12	0555	0.0	0.0	27	0643	-0.6	-0.2				
SU	0943	2.9	0.9	M	1016	3.0	0.9	W	1027	2.6	0.8	TH	1147	2.4	0.7	F	1048	2.5	0.8	SA	1211	2.2	0.7				
	1625	0.4	0.1		1713	-0.3	-0.1		1720	0.4	0.1		1837	-0.3	-0.1		1755	0.0	0.0		1859	-0.4	-0.1				
	2140	3.2	1.0		2228	3.3	1.0		2232	3.1	0.9						2302	2.8	0.9								
13	0514	0.5	0.2	28	0604	-0.3	-0.1	13	0619	0.4	0.1	28	0000	2.5	0.8	13	0640	0.0	0.0	28	0026	2.2	0.7				
M	1016	2.9	0.9	TU	1112	2.8	0.9	TH	1110	2.6	0.8	F	0721	-0.4	-0.1	SA	1139	2.5	0.8	SU	0727	-0.5	-0.2				
	1702	0.5	0.2		1805	-0.2	-0.1		1809	0.4	0.1		1247	2.3	0.7		1850	0.0	0.0		1303	2.1	0.6				
	2217	3.2	1.0		2323	3.1	0.9		2320	3.0	0.9		1932	-0.2	-0.1		2357	2.7	0.8		1950	-0.3	-0.1				
14	0555	0.6	0.2	29	0658	-0.2	-0.1	14	0705	0.4	0.1	29	0100	2.4	0.7	14	0727	-0.1	0.0	29	0122	2.1	0.6				
TU	1054	2.8	0.9	W	1213	2.6	0.8	F	1200	2.6	0.8	SA	0811	-0.3	-0.1	SU	1233	2.5	0.8	M	0811	-0.4	-0.1				
	1741	0.5	0.2		1901	-0.1	0.0		1903	0.4	0.1		1349	2.2	0.7		1951	0.0	0.0		1359	2.1	0.6				
	2259	3.2	1.0										2028	-0.2	-0.1						2045	-0.2	-0.1				
15	0642	0.7	0.2	30	0025	2.8	0.9	15	0016	2.9	0.9	30	0205	2.3	0.7	15	0056	2.6	0.8	30	0222	2.0	0.6				
W	1139	2.7	0.8	TH	0754	-0.1	0.0	SA	0756	0.3	0.1	SU	0902	-0.3	-0.1	M	0820	-0.1	0.0	TU	0857	-0.3	-0.1				
	1827	0.6	0.2		1319	2.5	0.8		1258	2.6	0.8		1447	2.3	0.7		1332										

WASHINGTON, D.C., 1981

Times and Heights of High and Low Waters

JANUARY								FEBRUARY								MARCH							
Time	Height			Time	Height			Time	Height			Time	Height			Time	Height			Time	Height		
Day	h.m.	ft.	m.	Day	h.m.	ft.	m.	Day	h.m.	ft.	m.	Day	h.m.	ft.	m.	Day	h.m.	ft.	m.	Day	h.m.	ft.	m.
1	0421	2.0	0.6	16	0402	2.1	0.6	1	0521	2.1	0.6	16	0038	-0.5	-0.2	1	0347	2.2	0.7	16	0443	2.3	0.7
Th	1036	-0.2	-0.1	F	1055	-0.5	-0.2	Su	1137	-0.1	0.0	M	0553	2.2	0.7	Su	1001	0.2	0.1	M	1127	-0.1	0.0
	1636	2.3	0.7		1621	2.5	0.8		1719	2.5	0.8		1241	-0.4	-0.1		1539	2.6	0.8		1701	2.5	0.8
	2335	-0.2	-0.1		2356	-0.5	-0.2						1809	2.5	0.8		2312	0.2	0.1				
2	0511	2.1	0.6	17	0506	2.1	0.6	2	0043	-0.1	0.0	17	0131	-0.6	-0.2	2	0439	2.3	0.7	17	0014	-0.2	-0.1
F	1125	-0.2	-0.1	Sa	1156	-0.6	-0.2	M	0604	2.2	0.7	Tu	0644	2.3	0.7	M	1103	0.2	0.1	Tu	0539	2.4	0.7
	1719	2.4	0.7		1721	2.5	0.8		1232	-0.1	0.0		1335	-0.5	-0.2		1637	2.7	0.8		1225	-0.2	-0.1
									1803	2.7	0.8		1859	2.5	0.8						1756	2.5	0.8
3	0028	-0.2	-0.1	18	0054	-0.7	-0.2	3	0131	-0.2	-0.1	18	0218	-0.6	-0.2	3	0006	0.2	0.1	18	0105	-0.3	-0.1
Sa	0557	2.1	0.6	Su	0604	2.1	0.6	Tu	0644	2.3	0.7	W	0731	2.3	0.7	Tu	0524	2.5	0.8	W	0628	2.5	0.8
	1214	-0.2	-0.1		1254	-0.6	-0.2		1323	-0.1	0.0		1424	-0.5	-0.2		1204	0.1	0.0		1318	-0.2	-0.1
	1759	2.5	0.8		1817	2.6	0.8		1846	2.8	0.9		1947	2.5	0.8		1730	2.8	0.9		1846	2.6	0.8
4	0115	-0.2	-0.1	19	0147	-0.7	-0.2	4	0215	-0.2	-0.1	19	0300	-0.6	-0.2	4	0055	0.1	0.0	19	0149	-0.3	-0.1
Su	0641	2.2	0.7	M	0657	2.2	0.7	W	0723	2.5	0.8	Th	0817	2.4	0.7	W	0609	2.7	0.8	Th	0713	2.6	0.8
	1302	-0.2	-0.1		1347	-0.7	-0.2		1414	-0.2	-0.1		1509	-0.5	-0.2		1259	0.0	0.0		1406	-0.2	-0.1
	1837	2.6	0.8		1910	2.6	0.8		1930	2.9	0.9		2030	2.6	0.8		1819	3.0	0.9		1930	2.7	0.8
5	0201	-0.2	-0.1	20	0239	-0.8	-0.2	5	0259	-0.3	-0.1	20	0340	-0.5	-0.2	5	0141	0.0	0.0	20	0230	-0.2	-0.1
M	0719	2.2	0.7	Tu	0747	2.2	0.7	Th	0800	2.6	0.8	F	0857	2.5	0.8	Th	0651	2.9	0.9	F	0752	2.7	0.8
	1349	-0.2	-0.1		1439	-0.7	-0.2		1503	-0.3	-0.1		1553	-0.4	-0.1		1352	-0.1	0.0		1449	-0.2	-0.1
	1911	2.7	0.8		2000	2.6	0.8		2012	3.0	0.9		2113	2.6	0.8		1905	3.1	0.9		2011	2.7	0.8
6	0246	-0.3	-0.1	21	0324	-0.8	-0.2	6	0341	-0.3	-0.1	21	0417	-0.4	-0.1	6	0226	-0.1	0.0	21	0306	-0.2	-0.1
Tu	0752	2.3	0.7	W	0835	2.3	0.7	F	0841	2.8	0.9	Sa	0935	2.5	0.8	F	0733	3.1	0.9	Sa	0829	2.8	0.9
	1435	-0.2	-0.1		1527	-0.7	-0.2		1550	-0.4	-0.1		1635	-0.4	-0.1		1443	-0.2	-0.1		1530	-0.2	-0.1
	1951	2.8	0.9		2045	2.5	0.8		2058	3.0	0.9		2153	2.5	0.8		1955	3.2	1.0		2051	2.7	0.8
7	0327	-0.3	-0.1	22	0409	-0.8	-0.2	7	0422	-0.4	-0.1	22	0450	-0.4	-0.1	7	0309	-0.2	-0.1	22	0342	-0.1	0.0
W	0828	2.4	0.7	Th	0921	2.3	0.7	Sa	0923	2.9	0.9	Su	1013	2.5	0.8	Sa	0816	3.2	1.0	Su	0905	2.9	0.9
	1520	-0.2	-0.1		1614	-0.6	-0.2		1638	-0.4	-0.1		1715	-0.3	-0.1		1532	-0.3	-0.1		1610	-0.1	0.0
	2030	2.9	0.9		2132	2.5	0.8		2145	3.0	0.9		2235	2.5	0.8		2042	3.2	1.0		2129	2.7	0.8
8	0408	-0.3	-0.1	23	0448	-0.7	-0.2	8	0504	-0.4	-0.1	23	0523	-0.3	-0.1	8	0353	-0.3	-0.1	23	0414	0.0	0.0
Th	0905	2.5	0.8	F	1006	2.3	0.7	Su	1009	2.9	0.9	M	1049	2.6	0.8	Su	0901	3.3	1.0	M	0934	2.9	0.9
	1605	-0.2	-0.1		1657	-0.6	-0.2		1730	-0.4	-0.1		1755	-0.2	-0.1		1622	-0.4	-0.1		1648	0.0	0.0
	2113	2.9	0.9		2217	2.4	0.7		2235	2.9	0.9		2318	2.4	0.7		2130	3.2	1.0		2206	2.7	0.8
9	0449	-0.3	-0.1	24	0528	-0.6	-0.2	9	0550	-0.4	-0.1	24	0558	-0.2	-0.1	9	0438	-0.3	-0.1	24	0445	0.1	0.0
F	0945	2.5	0.8	Sa	1049	2.3	0.7	M	1057	2.9	0.9	Tu	1126	2.5	0.8	M	0947	3.3	1.0	Tu	1008	2.9	0.9
	1654	-0.3	-0.1		1742	-0.5	-0.2		1824	-0.4	-0.1		1837	0.0	0.0		1715	-0.4	-0.1		1728	0.1	0.0
	2200	2.8	0.9		2304	2.3	0.7		2328	2.7	0.8					2221	3.1	0.9		2245	2.6	0.8	
10	0531	-0.3	-0.1	25	0605	-0.5	-0.2	10	0637	-0.4	-0.1	25	0003	2.3	0.7	10	0526	-0.3	-0.1	25	0518	0.2	0.1
Sa	1029	2.6	0.8	Su	1133	2.2	0.7	Tu	1149	2.8	0.9	W	0635	-0.1	0.0	Tu	1037	3.3	1.0	W	1041	2.9	0.9
	1742	-0.3	-0.1		1827	-0.4	-0.1		1922	-0.4	-0.1		1208	2.5	0.8		1810	-0.3	-0.1		1808	0.2	0.1
	2249	2.7	0.8		2352	2.2	0.7						1925	0.1	0.0		2315	2.9	0.9		2326	2.6	0.8
11	0615	-0.3	-0.1	26	0643	-0.4	-0.1	11	0027	2.5	0.8	26	0052	2.2	0.7	11	0616	-0.3	-0.1	26	0555	0.3	0.1
Su	1118	2.6	0.8	M	1218	2.2	0.7	W	0729	-0.4	-0.1	Th	0717	0.0	0.0	W	1129	3.1	0.9	Th	1120	2.9	0.9
	1837	-0.3	-0.1		1914	-0.3	-0.1		1248	2.7	0.8		1253	2.5	0.8		1907	-0.3	-0.1		1853	0.3	0.1
	2341	2.6	0.8						2027	-0.3	-0.1		2018	0.2	0.1								
12	0701	-0.4	-0.1	27	0042	2.1	0.6	12	0130	2.3	0.7	27	0146	2.2	0.7	12	0014	2.7	0.8	27	0010	2.5	0.8
M	1211	2.6	0.8	Tu	0722	-0.4	-0.1	Th	0828	-0.4	-0.1	F	0803	0.1	0.0	Th	0711	-0.2	-0.1	F	0639	0.4	0.1
	1935	-0.3	-0.1		1305	2.2	0.7		1351	2.6	0.8		1341	2.5	0.8		1227	2.9	0.9		1203	2.9	0.9
					2004	-0.2	-0.1		2132	-0.3	-0.1		2115	0.2	0.1		2010	-0.2	-0.1		1941	0.4	0.1
13	0040	2.4	0.7	28	0139	2.0	0.6	13	0241	2.2	0.7	28	0247	2.2	0.7	13	0119	2.5	0.8	28	0059	2.4	0.7
Tu	0753	-0.4	-0.1	W	0804	-0.3	-0.1	F	0932	-0.3	-0.1	Sa	0859	0.2	0.1	F	0811	-0.1	0.0	Sa	0727	0.5	0.2
	1309	2.5	0.8		1356	2.2	0.7		1458	2.5	0.8		1442	2.5	0.8		1333	2.7	0.8		1253	2.8	0.9
	2040	-0.3	-0.1		2100	-0.1	0.0		2238	-0.3	-0.1		2215	0.3	0.1		2115	-0.2	-0.1		2036	0.5	0.2
14	0145	2.3	0.7	29	0237	2.0	0.6	14	0351	2.1	0.6	29	0247	2.2	0.7	14	0231	2.3	0.7	29	0154	2.4	0.7
W	0850	-0.4	-0.1	Th	0853	-0.2	-0.1	Sa	1036	-0.3	-0.1		1049	2.6	0.8	Sa	0917	-0.1	0.0	Su	0823	0.5	0.2
	1411	2.5	0.8		1448	2.2	0.7		1607	2.4	0.7		1445	2.6	0.8		1445	2.6	0.8		1351	2.8	0.9
	2146	-0.3	-0.1		2157	0.0	0.0		2340	-0.4	-0.1		2218	-0.2	-0.1		2218	-0.2	-0.1		2133	0.5	0.2
15	0254	2.2	0.7	30	0337	2.0	0.6	15	0455	2.1	0.6	30	0340	2.3	0.7								

WASHINGTON, D.C., 1981
Times and Heights of High and Low Waters

APRIL							MAY							JUNE						
Day	Time	Height		Day	Time	Height		Day	Time	Height		Day	Time	Height		Day	Time	Height		
	h.m.	ft.	m.		h.m.	ft.	m.		h.m.	ft.	m.		h.m.	ft.	m.		h.m.	ft.	m.	
1	0445	2.8	0.9	16	0033	0.0	0.0	1	0457	3.3	1.0	16	0034	0.2	0.1	1	0051	0.0	0.0	
W	1137	0.3	0.1	Th	0605	2.8	0.9	F	1214	0.2	0.1	Sa	0618	3.0	0.9	M	0615	3.7	1.1	
	1659	3.0	0.9		1256	0.0	0.0		1724	3.2	1.0		1317	0.2	0.1		1350	-0.1	0.0	
					1825	2.7	0.8						1841	2.7	0.8		1853	3.1	0.9	
2	0015	0.3	0.1	17	0115	0.0	0.0	2	0028	0.2	0.1	17	0115	0.2	0.1	2	0146	-0.1	0.0	
Th	0532	3.1	0.9	F	0647	2.9	0.9	Sa	0548	3.6	1.1	Su	0655	3.1	0.9	Tu	0707	3.8	1.2	
	1236	0.2	0.1		1342	0.0	0.0		1310	0.1	0.0		1400	0.2	0.1		1443	-0.3	-0.1	
	1753	3.2	1.0		1908	2.7	0.8		1820	3.3	1.0		1923	2.7	0.8		1948	3.1	0.9	
3	0105	0.1	0.0	18	0155	0.1	0.0	3	0118	0.0	0.0	18	0152	0.3	0.1	3	0240	-0.1	0.0	
F	0617	3.3	1.0	Sa	0725	3.0	0.9	Su	0639	3.7	1.1	M	0729	3.2	1.0	W	0758	3.7	1.1	
	1332	0.0	0.0		1427	0.0	0.0		1405	-0.1	0.0		1442	0.2	0.1		1537	-0.3	-0.1	
	1844	3.3	1.0		1949	2.8	0.9		1913	3.3	1.0		2003	2.8	0.9		2041	3.1	0.9	
4	0152	0.0	0.0	19	0232	0.1	0.0	4	0209	-0.1	0.0	19	0229	0.4	0.1	4	0334	-0.1	0.0	
Sa	0705	3.5	1.1	Su	0800	3.1	0.9	M	0727	3.8	1.2	Tu	0800	3.2	1.0	Th	0850	3.6	1.1	
	1423	-0.2	-0.1		1508	0.1	0.0		1459	-0.2	-0.1		1524	0.3	0.1		1628	-0.4	-0.1	
	1934	3.4	1.0		2028	2.8	0.9		2006	3.3	1.0		2040	2.8	0.9		2136	3.0	0.9	
5	0238	-0.1	0.0	20	0305	0.2	0.1	5	0300	-0.1	0.0	20	0307	0.5	0.2	5	0427	-0.1	0.0	
Su	0752	3.7	1.1	M	0832	3.1	0.9	Tu	0818	3.9	1.2	W	0829	3.3	1.0	F	0941	3.5	1.1	
	1515	-0.3	-0.1		1547	0.2	0.1		1551	-0.3	-0.1		1603	0.3	0.1		1720	-0.3	-0.1	
	2024	3.4	1.0		2104	2.8	0.9		2059	3.3	1.0		2115	2.8	0.9		2230	2.9	0.9	
6	0325	-0.2	-0.1	21	0339	0.3	0.1	6	0352	-0.1	0.0	21	0344	0.5	0.2	6	0522	0.0	0.0	
M	0839	3.7	1.1	Tu	0900	3.2	1.0	W	0907	3.8	1.2	Th	0900	3.3	1.0	Sa	1036	3.3	1.0	
	1606	-0.3	-0.1		1625	0.2	0.1		1645	-0.3	-0.1		1643	0.4	0.1		1810	-0.3	-0.1	
	2113	3.3	1.0		2140	2.8	0.9		2150	3.2	1.0		2149	2.8	0.9		2327	2.8	0.9	
7	0414	-0.2	-0.1	22	0412	0.4	0.1	7	0445	-0.1	0.0	22	0424	0.6	0.2	7	0616	0.0	0.0	
Tu	0927	3.7	1.1	W	0932	3.2	1.0	Th	0958	3.6	1.1	F	0937	3.3	1.0	Su	1134	3.0	0.9	
	1700	-0.3	-0.1		1704	0.3	0.1		1739	-0.3	-0.1		1723	0.4	0.1		1901	-0.2	-0.1	
	2206	3.2	1.0		2216	2.8	0.9		2247	3.0	0.9		2222	2.8	0.9					
8	0504	-0.2	-0.1	23	0448	0.5	0.2	8	0539	0.0	0.0	23	0505	0.7	0.2	8	0027	2.8	0.9	
W	1016	3.5	1.1	Th	1006	3.2	1.0	F	1054	3.4	1.0	Sa	1017	3.3	1.0	M	0713	0.1	0.0	
	1754	-0.3	-0.1		1744	0.4	0.1		1831	-0.2	-0.1		1803	0.5	0.2		1235	2.8	0.9	
	2301	3.0	0.9		2251	2.7	0.8		2348	2.9	0.9		2303	2.8	0.9		1951	-0.1	0.0	
9	0557	-0.1	0.0	24	0526	0.6	0.2	9	0637	0.0	0.0	24	0550	0.7	0.2	9	0128	2.7	0.8	
Th	1110	3.3	1.0	F	1043	3.2	1.0	Sa	1152	3.1	0.9	Su	1102	3.2	1.0	Tu	0810	0.2	0.1	
	1852	-0.2	-0.1		1826	0.5	0.2		1928	-0.1	0.0		1845	0.5	0.2		1337	2.7	0.8	
					2333	2.7	0.8						2347	2.8	0.9		2040	0.0	0.0	
10	0003	2.8	0.9	25	0610	0.6	0.2	10	0052	2.7	0.8	25	0641	0.7	0.2	10	0227	2.7	0.8	
F	0653	0.0	0.0	Sa	1128	3.1	0.9	Su	0735	0.1	0.0	M	1151	3.2	1.0	W	0908	0.2	0.1	
	1210	3.1	0.9		1911	0.6	0.2		1257	2.9	0.9		1929	0.5	0.2		1441	2.6	0.8	
	1951	-0.1	0.0						2025	-0.1	0.0						2128	0.0	0.0	
11	0108	2.6	0.8	26	0019	2.7	0.8	11	0157	2.7	0.8	26	0037	2.9	0.9	11	0323	2.8	0.9	
Sa	0754	0.1	0.0	Su	0701	0.7	0.2	M	0838	0.2	0.1	Tu	0737	0.7	0.2	Th	1007	0.3	0.1	
	1316	2.8	0.9		1219	3.1	0.9		1409	2.7	0.8		1248	3.1	0.9		1540	2.5	0.8	
	2052	-0.1	0.0		2000	0.6	0.2		2120	0.0	0.0		2018	0.5	0.2		2218	0.1	0.0	
12	0218	2.5	0.8	27	0111	2.7	0.8	12	0302	2.7	0.8	27	0133	2.9	0.9	12	0414	2.8	0.9	
Su	0900	0.1	0.0	M	0757	0.7	0.2	Tu	0940	0.2	0.1	W	0839	0.6	0.2	F	1101	0.3	0.1	
	1429	2.7	0.8		1315	3.0	0.9		1515	2.6	0.8		1349	3.0	0.9		1633	2.5	0.8	
	2153	0.0	0.0		2053	0.6	0.2		2215	0.0	0.0		2109	0.4	0.1		2303	0.2	0.1	
13	0325	2.5	0.8	28	0210	2.8	0.9	13	0358	2.7	0.8	28	0231	3.1	0.9	13	0459	2.9	0.9	
M	1005	0.1	0.0	Tu	0901	0.7	0.2	W	1040	0.2	0.1	Th	0946	0.5	0.2	Sa	1156	0.3	0.1	
	1541	2.6	0.8		1419	3.0	0.9		1615	2.6	0.8		1455	3.0	0.9		1724	2.6	0.8	
	2250	0.0	0.0		2149	0.6	0.2		2303	0.1	0.0		2202	0.3	0.1		2349	0.2	0.1	
14	0423	2.6	0.8	29	0307	2.9	0.9	14	0449	2.8	0.9	29	0331	3.2	1.0	14	0543	3.0	0.9	
Tu	1108	0.1	0.0	W	1008	0.6	0.2	Th	1137	0.2	0.1	F	1051	0.4	0.1	Su	1246	0.2	0.1	
	1644	2.6	0.8		1524	3.0	0.9		1709	2.6	0.8		1600	3.0	0.9		1812	2.6	0.8	
	2343	0.0	0.0		2243	0.5	0.2		2352	0.1	0.0		2258	0.2	0.1					
15	0518	2.7	0.8	30	0405	3.1	0.9	15	0535	2.9	0.9	30	0477	3.4	1.0	15	0033	0.3	0.1	
W	1204	0.1	0.0	Th	1112	0.4	0.1	F	1229	0.2	0.1	Sa	1153	0.2	0.1	M	0622	3.1	0.9	
	1737	2.6	0.8		1629	3.1	0.9		1756	2.7	0.8		1700	3.1	0.9		1333	0.2	0.1	
					2335	0.3	0.1						2356	0.1	0.0		1855	2.7	0.8	

Times and Heights of High and Low Waters

SEPTEMBER

Time				Time				Time				Time				Time				Time			
Day	h.m.	ft.	m.	Day	h.m.	ft.	m.	Day	h.m.	ft.	m.	Day	h.m.	ft.	m.	Day	h.m.	ft.	m.	Day	h.m.	ft.	m.
1	0128	-0.1	0.0	16	0129	0.4	0.1	1	0304	-0.1	0.0	16	0241	0.4	0.1	1	0417	0.1	0.0	16	0357	0.2	0.1
W	0651	3.5	1.1	Th	0702	3.3	1.0	Sa	0822	3.3	1.0	Su	0754	3.5	1.1	Tu	0934	3.1	0.9	W	0902	3.6	1.1
	1429	-0.3	-0.1		1432	0.3	0.1		1547	-0.3	-0.1		1521	0.3	0.1		1636	0.0	0.9		1612	0.1	0.0
	1933	2.9	0.9		1946	2.8	0.9		2100	2.9	0.9		2022	3.2	1.0		2157	3.0	0.9		2120	3.7	1.1
2	0224	-0.1	0.0	17	0216	0.5	0.2	2	0353	-0.1	0.0	17	0328	0.4	0.1	2	0502	0.2	0.1	17	0447	0.2	0.1
Th	0743	3.5	1.1	F	0737	3.3	1.0	Su	0910	3.2	1.0	M	0836	3.6	1.1	W	1016	3.0	0.9	Th	0950	3.5	1.1
	1520	-0.3	-0.1		1513	0.3	0.1		1630	-0.2	-0.1		1601	0.2	0.1		1712	0.1	0.0		1657	0.1	0.0
	2027	2.9	0.9		2019	2.8	0.9		2146	2.9	0.9		2102	3.3	1.0		2235	3.0	0.9		2208	3.7	1.1
3	0319	-0.1	0.0	18	0302	0.5	0.2	3	0441	0.0	0.0	18	0416	0.3	0.1	3	0544	0.3	0.1	18	0540	0.2	0.1
F	0834	3.4	1.0	Sa	0815	3.4	1.0	M	0957	3.1	0.9	Tu	0920	3.5	1.1	Th	1058	2.9	0.9	F	1041	3.3	1.0
	1609	-0.4	-0.1		1553	0.3	0.1		1712	-0.2	-0.1		1641	0.2	0.1		1747	0.2	0.1		1745	0.1	0.0
	2119	2.9	0.9		2055	2.9	0.9		2232	2.9	0.9		2145	3.4	1.0		2315	3.0	0.9		2258	3.6	1.1
4	0411	-0.1	0.0	19	0347	0.5	0.2	4	0528	0.1	0.0	19	0504	0.3	0.1	4	0627	0.4	0.1	19	0638	0.2	0.1
Sa	0925	3.3	1.0	Su	0855	3.4	1.0	Tu	1045	3.0	0.9	W	1006	3.5	1.1	F	1146	2.8	0.9	Sa	1136	3.1	0.9
	1657	-0.4	-0.1		1632	0.3	0.1		1750	-0.1	0.0		1723	0.2	0.1		1821	0.3	0.1		1839	0.1	0.0
	2211	2.9	0.9		2129	3.0	0.9		2318	2.9	0.9		2230	3.5	1.1		2358	3.0	0.9		2353	3.4	1.0
5	0502	-0.1	0.0	20	0433	0.5	0.2	5	0615	0.2	0.1	20	0555	0.3	0.1	5	0713	0.5	0.2	20	0738	0.3	0.1
Su	1018	3.2	1.0	M	0937	3.4	1.0	W	1131	2.8	0.9	Th	1057	3.3	1.0	Sa	1237	2.7	0.8	Su	1238	2.9	0.9
	1743	-0.3	-0.1		1710	0.3	0.1		1828	0.0	0.0		1808	0.2	0.1		1901	0.4	0.1		1937	0.2	0.1
	2303	2.8	0.9		2209	3.1	0.9						2320	3.4	1.0								
6	0553	0.0	0.0	21	0520	0.5	0.2	6	0003	2.9	0.9	21	0651	0.4	0.1	6	0045	2.9	0.9	21	0056	3.2	1.0
M	1110	3.0	0.9	Tu	1023	3.3	1.0	Th	0701	0.3	0.1	F	1150	3.1	0.9	Su	0805	0.6	0.2	M	0843	0.3	0.1
	1828	-0.2	-0.1		1751	0.2	0.1		1225	2.7	0.8		1857	0.2	0.1		1333	2.6	0.8		1349	2.7	0.8
	2357	2.8	0.9		2254	3.2	1.0		1908	0.1	0.0						1949	0.5	0.2		2042	0.2	0.1
7	0644	0.1	0.0	22	0611	0.5	0.2	7	0053	2.8	0.9	22	0013	3.4	1.0	7	0136	2.9	0.9	22	0207	3.0	0.9
Tu	1205	2.8	0.9	W	1113	3.2	1.0	F	0752	0.4	0.1	Sa	0753	0.4	0.1	M	0903	0.7	0.2	Tu	0947	0.2	0.1
	1912	-0.1	0.0		1833	0.2	0.1		1319	2.6	0.8		1250	2.9	0.9		1435	2.6	0.8		1502	2.6	0.8
					2342	3.2	1.0		1950	0.2	0.1		1951	0.2	0.1		2042	0.6	0.2		2149	0.2	0.1
8	0049	2.7	0.8	23	0706	0.5	0.2	8	0143	2.8	0.9	23	0114	3.2	1.0	8	0236	2.9	0.9	23	0321	2.9	0.9
W	0738	0.2	0.1	Th	1208	3.1	0.9	Sa	0847	0.5	0.2	Su	0858	0.4	0.1	Tu	0959	0.7	0.2	W	1051	0.2	0.1
	1303	2.7	0.8		1918	0.2	0.1		1418	2.5	0.8		1357	2.8	0.9		1533	2.6	0.8		1609	2.5	0.8
	1954	0.0	0.0						2035	0.3	0.1		2054	0.2	0.1		2142	0.6	0.2		2255	0.2	0.1
9	0145	2.7	0.8	24	0037	3.2	1.0	9	0237	2.8	0.9	24	0220	3.1	0.9	9	0333	3.0	0.9	24	0429	2.9	0.9
Th	0831	0.3	0.1	F	0805	0.4	0.1	Su	0943	0.5	0.2	M	1005	0.3	0.1	W	1058	0.7	0.2	Th	1147	0.1	0.0
	1403	2.6	0.8		1304	2.9	0.9		1517	2.5	0.8		1509	2.7	0.8		1629	2.7	0.8		1708	2.7	0.8
	2040	0.1	0.0		2010	0.2	0.1		2124	0.4	0.1		2200	0.2	0.1		2244	0.6	0.2		2356	0.1	0.0
10	0238	2.8	0.9	25	0135	3.2	1.0	10	0333	2.9	0.9	25	0330	3.1	0.9	10	0430	3.1	0.9	25	0528	2.9	0.9
F	0928	0.3	0.1	Sa	0911	0.4	0.1	M	1042	0.5	0.2	Tu	1109	0.2	0.1	Th	1149	0.6	0.2	F	1239	0.0	0.0
	1502	2.5	0.8		1411	2.8	0.9		1615	2.5	0.8		1618	2.6	0.8		1715	2.8	0.9		1801	2.8	0.9
	2126	0.2	0.1		2108	0.2	0.1		2220	0.5	0.2		2306	0.2	0.1		2342	0.6	0.2				
11	0330	2.8	0.9	26	0237	3.2	1.0	11	0423	3.0	0.9	26	0436	3.1	0.9	11	0519	3.2	1.0	26	0052	0.0	0.0
Sa	1024	0.4	0.1	Su	1019	0.3	0.1	Tu	1137	0.5	0.2	W	1209	0.1	0.0	F	1238	0.5	0.2	Sa	0620	3.0	0.9
	1558	2.5	0.8		1520	2.7	0.8		1708	2.6	0.8		1721	2.7	0.8		1757	3.0	0.9		1326	0.0	0.0
	2215	0.2	0.1		2210	0.1	0.0		2316	0.5	0.2									1849	2.9	0.9	
12	0420	2.9	0.9	27	0343	3.2	1.0	12	0511	3.1	0.9	27	0009	0.1	0.0	12	0038	0.5	0.2	27	0143	0.0	0.0
Su	1121	0.4	0.1	M	1124	0.2	0.1	W	1228	0.5	0.2	Th	0538	3.1	0.9	Sa	0606	3.4	1.0	Su	0707	3.0	0.9
	1651	2.5	0.8		1626	2.7	0.8		1753	2.7	0.8		1303	0.0	0.0		1323	0.4	0.1		1411	0.0	0.0
	2303	0.3	0.1		2316	0.1	0.0						1816	2.8	0.9		1836	3.2	1.0		1931	3.0	0.9
13	0503	3.0	0.9	28	0445	3.3	1.0	13	0012	0.5	0.2	28	0106	0.0	0.0	13	0131	0.4	0.1	28	0231	0.0	0.0
M	1213	0.4	0.1	Tu	1225	0.0	0.0	Th	0554	3.2	1.0	F	0632	3.2	1.0	Su	0649	3.5	1.1	M	0750	3.0	0.9
	1740	2.6	0.8		1729	2.7	0.8		1315	0.4	0.1		1352	-0.1	0.0		1406	0.3	0.1		1448	0.0	0.0
	2353	0.4	0.1						1836	2.8	0.9		1905	2.9	0.9		1914	3.4	1.0		2010	3.0	0.9
14	0546	3.1	0.9	29	0018	0.0	0.0	14	0103	0.5	0.2	29	0159	0.0	0.0	14	0219	0.3	0.1	29	0313	0.1	0.0
Tu	1302	0.3	0.1	W	0545	3.3	1.0	F	0634	3.3	1.0	Sa	0721	3.2	1.0	M	0732	3.6	1.1	Tu	0832	3.0	0.9
	1827	2.6	0.8		1320	-0.1	0.0		1358	0.4	0.1		1438	-0.1	0.0		1447	0.2	0.1		1526	0.1	0.0
					1825	2.8	0.9		1912	2.9	0.9		1952	2.9	0.9		1955	3.5	1.1		2046	3.1	0.9
15	0041	0.4	0.1	30	0116	0.0	0.0	15	0153	0.5	0.2	30	0248	0.0	0.0	15	0307	0.2	0.1	30	0355	0.1	0.0
W	0625	3.2	1.0	Th	0641	3.3	1.0	Sa	0714	3.4	1.0	Su	0807	3.2	1.0	Tu	0815	3.6	1.1	W	0911	3.0	0.9
	1350	0.3	0.1		1413	-0.2	-0.1		1440	0.3	0.1		1520	-0.1	0.0		1528	0.2	0.1		1600	0.1	0.0
	1909	2.7	0.8		1921	2.8	0.9		1948	3.1	0.9		2035	3.0	0.9		2035	3.7	1.1		2121	3.1	0.9
				31	0211	-0.1	0.0					31	0335	0.0	0.0								
				F	0732	3.3	1.0					M	0852	3.1	0.9								
					1501	-0.3	-0.1						1559	-0.1	0.0								
					2009	2.9	0.9						2117	3.0	0.9								

Time meridian 75° W. 0000 is midnight. 1200 is noon.
Heights are referred to mean low water which is the chart datum of soundings.

TABLE 2. - TIDAL DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Lat.	Long.	Time		Height		Mean Spring		
				High Water	Low Water	High Water	Low Water			
		° ' "	° ' "	h. m.	h. m.	ft	ft	ft	ft	ft
	Chesapeake Bay, Western Shore Time meridian, 75°W	N	W							
	MD., VA. and DISTRICT OF COLUMBIA Potomac River			on WASHINGTON, p.84						
2170	Cornfield Harbor, Md-----	38 04	76 22	-6 44	-7 35	*0.45	*0.45	1.3	1.5	0.7
2171	Lewisetta, Va-----	38 00	76 28	-6 37	-7 25	*0.45	*0.45	1.3	1.5	0.6
2172	Travis Point, Coan River, Va----- Yeocomico River	38 00	76 28	-6 33	-7 05	*0.41	*0.41	1.2	1.4	Q.6
2173	Lynch Point, Va-----	38 03	76 31	-6 24	-6 58	*0.45	*0.45	1.3	1.5	0.6
2175	Kinsale, Va----- St. Marys River	38 02	76 35	-6 19	-6 53	*0.41	*0.41	1.2	1.4	D.6
2177	Kitts Point, Md-----	38 06	76 25	-6 51	-7 23	*0.52	*0.52	1.5	1.7	0.7
2179	St. Marys City, Md-----	38 11	76 26	-6 36	-7 08	*0.52	*0.52	1.5	1.7	0.7
2181	Piney Point, Md-----	38 08	76 32	-6 27	-7 16	*0.48	*0.48	1.4	1.6	0.7
2182	Ragged Point, Coles Neck, Va-----	38 08	76 37	-6 08	-7 03	*0.52	*0.52	1.5	1.7	0.8
2183	Coles Point, Va-----	38 09	76 38	-6 10	-6 55	*0.62	*0.62	1.8	2.0	0.9
2185	Leonardtown, Breton Bay, Md-----	38 17	76 38	-6 05	-6 39	*0.59	*0.59	1.7	2.0	0.8
2187	Shipping Pt., St. Clements Bay, Md-----	38 16	76 42	-6 00	-6 34	*0.62	*0.62	1.8	2.1	0.9
2188	Mount Holly, Nomini Creek, Va-----	38 06	76 44	-5 24	-5 54	*0.52	*0.52	1.5	1.7	D.7
2189	Colton's Point, Md----- Wicomico River	38 13	76 45	-5 46	-6 44	*0.62	*0.62	1.8	2.0	0.9
2191	Cobb Point Bar Light, Md-----	38 15	76 50	-5 56	-6 28	-1.0	0.0	1.9	2.2	0.9
2193	Rock Point, Md-----	38 16	76 50	-5 51	-6 23	-1.0	0.0	1.9	2.2	0.9
2195	Bushwood Wharf, Md-----	38 17	76 48	-5 51	-6 23	-1.0	0.0	1.9	2.2	0.9
2196	Wicomico Beach, Md-----	38 20	76 52	-5 38	-6 05	-1.1	0.0	1.8	2.0	0.9
2197	Colonial Beach, Va-----	38 15	76 58	-5 26	-6 10	*0.59	*0.59	1.7	1.9	0.9
2199	Dahlgren, Upper Machodoc Creek, Va-----	38 19	77 02	-5 15	-5 51	*0.55	*0.55	1.6	1.8	0.8
2201	Lower Cedar Point, Md-----	38 20	76 59	-5 20	-5 56	*0.52	*0.52	1.5	1.7	0.7
2203	Mathias Point, Va-----	38 24	77 03	-4 32	-4 56	*0.41	*0.41	1.2	1.4	0.6
2205	Goose Bay, Port Tobacco River, Md-----	38 27	77 03	-4 35	-5 07	*0.52	*0.52	1.5	1.7	0.7
2207	Upper Cedar Point Light, Md-----	38 24	77 05	-4 23	-4 53	*0.41	*0.41	1.2	1.4	0.6
2209	Riverside, Md-----	38 23	77 09	-3 50	-4 25	*0.45	*0.45	1.3	1.5	0.6
2211	Maryland Point Light, Md-----	38 21	77 12	-3 27	-3 44	*0.38	*0.38	1.1	1.3	0.6
2213	Aquia Creek, Va-----	38 25	77 21	-2 01	-2 32	*0.45	*0.45	1.3	1.5	0.6
2215	Clifton Beach, Md-----	38 25	77 16	-2 15	-2 46	*0.38	*0.38	1.1	1.3	0.5
2217	Liverpool Point, Md-----	38 28	77 16	-2 22	-2 39	*0.45	*0.45	1.3	1.5	0.6
2219	Quantico Creek, Va-----	38 31	77 17	-1 19	-2 05	*0.48	*0.48	1.4	1.6	0.7
2221	Deep Point, Mattawoman Creek, Md-----	38 34	77 13	-1 27	-1 44	*0.55	*0.55	1.6	1.8	0.8
2223	High Point, Occoquan Bay, Va-----	38 37	77 12	-1 17	-1 34	*0.55	*0.55	1.6	1.8	0.8
2225	Indian Head, Md-----	38 36	77 11	-0 41	-1 34	*0.62	*0.62	1.8	2.0	0.9
2227	Glymont, Md-----	38 37	77 08	-1 02	-1 19	*0.62	*0.62	1.8	2.1	0.9
2229	Gunston Cove, Va-----	38 40	77 08	-0 43	-1 00	-0.9	0.0	2.0	2.3	1.0
2231	Marshall Hall, Md-----	38 41	77 06	-0 17	-0 56	-0.6	0.0	2.3	2.6	1.1
2233	Mount Vernon, Va-----	38 42	77 05	-0 32	-0 48	-0.7	0.0	2.2	2.5	1.1
2235	Fort Washington, Md-----	38 43	77 02	-0 22	-0 38	-0.5	0.0	2.4	2.8	1.2
2237	Riverview, Md-----	38 43	77 02	-0 22	-0 38	-0.4	0.0	2.5	2.9	1.2
2239	Alexandria, Va-----	38 48	77 02	-0 07	-0 23	-0.1	0.0	2.8	3.2	1.4
2241	Bellevue, D. C-----	38 50	77 02	+0 01	-0 10	-0.1	0.0	2.8	3.2	1.4
2243	Washington National Airport-----	38 51	77 02	+0 01	-0 08	0.0	0.0	2.9	3.3	1.5
2245	WASHINGTON, Washington Chan., D. C----- Anacostia River	38 52	77 01	Daily predictions				2.9	3.3	1.4
2247	Anacostia Bridge, D. C-----	38 52	77 00	+0 10	0 00	0.0	0.0	2.9	3.3	1.5
2249	Benning Bridge, D. C-----	38 54	76 58	+0 16	+0 04	0.0	0.0	2.9	3.3	1.5
2251	Key Bridge, D. C-----	38 54	77 04	+0 10	0 00	-0.1	0.0	2.8	3.2	1.4
2253	Chain Bridge, one mile below, D. C-----	38 55	77 06	+0 15	+0 05	-0.1	0.0	2.8	3.2	1.4
2255	Chain Bridge, D. C-----	38 56	77 07	+0 20	+0 10	-0.1	0.0	2.8	3.2	1.4

APPENDIX B-2.- Predicted tidal currents

CHESAPEAKE BAY ENTRANCE, VA., 1980
F-FLOOD, DIR. 305° TRUE E-EBB, DIR. 125° TRUE

SEPTEMBER								OCTOBER							
DAY	SLACK WATER TIME	MAXIMUM CURRENT TIME	VEL.	DAY	SLACK WATER TIME	MAXIMUM CURRENT TIME	VEL.	DAY	SLACK WATER TIME	MAXIMUM CURRENT TIME	VEL.	DAY	SLACK WATER TIME	MAXIMUM CURRENT TIME	VEL.
H.M.	H.M.	KNOTS		H.M.	H.M.	KNOTS		H.M.	H.M.	KNOTS		H.M.	H.M.	KNOTS	
1 M	0356 1115 1710	0118 0749 1401 2040	0.8F 1.6E 1.1F 1.3E	16 TU	0253 1040 1605 2330	0036 0703 1314 1954	0.5F 1.1E 0.8F 1.0E	1 W	0424 1158 1804	0159 0832 1448 2131	0.6F 1.4E 1.0F 1.2E	16 TH	0302 1059 1641	0101 0720 1340 2029	0.4F 1.2E 0.8F 1.0E
2 TU	0004 0453 1222 1825	0222 0855 1510 2151	0.7F 1.5E 1.0F 1.2E	17 W	0339 1138 1710	0759 1413 2100	1.1E 0.7F 0.9E	2 TH	0104 0534 1308 1913	0313 0942 1603 2240	0.5F 1.3E 0.9F 1.2E	17 F	0002 0405 1204 1748	0202 0829 1448 2135	0.4F 1.2E 0.8F 1.1E
3 W	0118 0557 1330 1938	0332 1003 1624 2301	0.6F 1.4E 1.0F 1.2E	18 TH	0035 0437 1240 1822	0233 0908 1516 2209	0.4F 1.1E 0.8F 1.0E	3 F	0212 0649 1415 2014	0423 1048 1710 2337	0.5F 1.3E 0.9F 1.2E	18 SA	0104 0523 1309 1855	0309 0942 1551 2239	0.5F 1.2E 0.9F 1.2E
4 TH	0229 0706 1435 2042	0445 1108 1733	0.5F 1.5E 1.0F	19 F	0137 0548 1342 1930	0336 1013 1623 2310	0.4F 1.2E 0.9F 1.1E	4 SA	0308 0757 1513 2104	0530 1149 1806	0.6F 1.4E 0.9F	19 SU	0200 0644 1411 1955	0417 1048 1655 2332	0.7F 1.4E 1.0F 1.4E
5 F	0329 0812 1533 2136	0002 0546 1209 1830	1.3E 0.6F 1.5E 1.0F	20 SA	0232 0703 1439 2030	0441 1117 1724 2303	0.6F 1.4E 1.0F	5 SU	0354 0856 1603 2147	0024 0621 1240 1851	1.3E 0.7F 1.4E 0.9F	20 M	0251 0759 1508 2049	0520 1150 1753	0.9F 1.6E 1.2F
6 SA	0418 0909 1623 2221	0053 0644 1259 1915	1.3E 0.6F 1.6E 1.1F	21 SU	0321 0813 1533 2123	0004 0542 1212 1818	1.3E 0.8F 1.6E 1.2F	6 M	0432 0944 1647 2222	0110 0704 1323 1928	1.4E 0.8F 1.5E 0.9F	21 TU	0339 0904 1602 2138	0022 0617 1244 1844	1.6E 1.1F 1.8E 1.3F
7 SU	0500 0959 1708 2259	0140 0725 1344 1956	1.4E 0.7F 1.6E 1.1F	22 M	0407 0916 1623 2211	0052 0636 1305 1909	1.5E 1.0F 1.8E 1.3F	7 TU	0506 1026 1726 2252	0149 0741 1404 2003	1.4E 0.9F 1.5E 0.9F	22 W	0425 1004 1654 2224	0110 0708 1336 1934	1.8E 1.4F 1.9E 1.3F
8 M	0536 1042 1749 2332	0219 0806 1425 2032	1.4E 0.8F 1.6E 1.0F	23 TU	0451 1013 1713 2256	0138 0729 1353 1957	1.7E 1.2F 1.9E 1.4F	8 W	0538 1103 1802 2319	0224 0814 1441 2032	1.4E 0.9F 1.5E 0.9F	23 TH	0511 1059 1744 2308	0157 0758 1427 2021	1.9E 1.6F 2.0E 1.4F
9 TU	0610 1121 1826	0256 0839 1506 2105	1.4E 0.9F 1.6E 1.0F	24 W	0535 1108 1802 2339	0223 0817 1443 2043	1.8E 1.4F 2.0E 1.5F	9 TH	0609 1138 1837 2344	0255 0846 1516 2102	1.4E 1.0F 1.5E 0.8F	24 F	0557 1153 1835 2352	0243 0848 1518 2108	2.0E 1.7F 2.0E 1.3F
10 W	0642 1156 1902	0327 0913 1519 2133	1.4E 0.9F 1.5E 0.9F	25 TH	0620 1201 1851	0307 0905 1532 2129	1.9E 1.5F 2.0E 1.4F	10 F	0640 1211 1913	0326 0916 1548 2135	1.4E 1.0F 1.4E 0.8F	25 SA	0645 1246 1927	0329 0937 1608 2157	2.0E 1.7F 1.9E 1.2F
11 TH	0026 0714 1231 1938	0401 0946 1615 2207	1.4E 0.9F 1.5E 0.9F	26 F	0022 0707 1254 1942	0352 0954 1624 2218	2.0E 1.6F 2.0E 1.3F	11 SA	0008 0713 1246 1949	0356 0951 1624 2204	1.4E 1.0F 1.3E 0.7F	26 SU	0035 0735 1339 2021	0417 1027 1702 2246	2.0E 1.6F 1.7E 1.0F
12 F	0051 0748 1305 2015	0430 1021 1650 2239	1.3E 0.9F 1.4E 0.8F	27 SA	0105 0757 1349 2036	0440 1044 1715 2306	1.9E 1.5F 1.8E 1.2F	12 SU	0034 0748 1322 2028	0425 1028 1659 2243	1.3E 1.0F 1.3E 0.7F	27 M	0120 0827 1433 2118	0506 1119 1756 2334	1.8E 1.5F 1.6E 0.8F
13 SA	0117 0824 1342 2055	0502 1056 1729 2314	1.3E 0.9F 1.3E 0.7F	28 SU	0148 0849 1446 2134	0529 1138 1813 2358	1.8E 1.4F 1.6E 0.9F	13 M	0102 0826 1401 2112	0500 1107 1740 2320	1.3E 1.0F 1.2E 0.6F	28 TU	0206 0923 1530 2221	0601 1215 1856	1.7E 1.3F 1.4E
14 SU	0145 0904 1423 2140	0535 1135 1810 2353	1.2E 0.8F 1.1E 0.6F	29 M	0235 0947 1547 2239	0625 1236 1915	1.7E 1.3F 1.4E	14 TU	0134 0910 1447 2202	0535 1150 1827	1.2E 0.9F 1.1E	29 W	0257 1024 1631 2329	0033 0701 1314 1959	0.7F 1.5E 1.1F 1.3E
15 M	0216 0949 1510 2231	0616 1223 1858	1.2E 0.8F 1.0E	30 TU	0325 1050 1654 2350	0055 0724 1338 2023	0.7F 1.5E 1.1F 1.3E	15 W	0213 1001 1540 2300	0005 0624 1243 1924	0.5F 1.2E 0.9F 1.0E	30 TH	0356 1130 1734	0134 0806 1420 2104	0.5F 1.3E 0.9F 1.2E
												31 F	0039 0506 1239 1835	0246 0912 1526 2207	0.4F 1.3E 0.8F 1.2E

TIME MERIDIAN 75° W. 0000 IS MIDNIGHT. 1200 IS NOON.

F-FLOOD, DIR. 305° TRUE E-EBB, DIR. 125° TRUE

TIME MERIDIAN 75° W. 0000 IS MIDNIGHT. 1200 IS NOON.

CHESAPEAKE BAY ENTRANCE, VIRGINIA, 1981

F-Flood, Dir. 305° True E-Ebb, Dir. 125° True

JANUARY

FEBRUARY

Day	Slack Water			Day	Slack Water			Day	Slack Water			Day	Slack Water		
	Time	Current	Vel.		Time	Current	Vel.		Time	Current	Vel.		Time	Current	Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots		h.m.	h.m.	knots		h.m.	h.m.	knots
1	0240	0515	0.7F	16	0233	0524	1.2F	1		0006	1.3E	16		0051	1.7E
Th	0813	1150	1.1E	F	0836	1200	1.4E	Su	0330	0615	0.9F	M	0414	0713	1.2F
	1514	1727	0.5F		1519	1739	0.7F		0925	1254	1.1E		1026	1340	1.4E
	1953	2359	1.3E		2009				1617	1821	0.5F		1701	1923	0.7F
									2040				2151		
2	0323	0606	0.8F	17		0006	1.7E	2		0051	1.4E	17		0112	1.7E
F	0907	1237	1.1E	Sa	0330	0625	1.3F	M	0414	0702	1.0F	Tu	0505	0801	1.3F
	1602	1812	0.5F		0941	1300	1.4E		1014	1339	1.2E		1112	1427	1.5E
	2036				1618	1838	0.8F		1658	1909	0.6F		1744	2008	0.8F
					2106				2129				2241		
3		0041	1.4E	18		0103	1.8E	3		0136	1.6E	18		0230	1.7E
Sa	0404	0647	0.9F	Su	0424	0722	1.4F	Tu	0456	0745	1.2F	W	0551	0844	1.2F
	0956	1326	1.2E		1038	1353	1.5E		1057	1420	1.4E		1151	1507	1.5E
	1646	1854	0.6F		1711	1931	0.8F		1737	1952	0.7F		1824	2049	0.9F
	2116				2159				2217				2326		
4		0122	1.4E	19		0152	1.8E	4		0217	1.7E	19		0312	1.7E
Su	0442	0729	1.1F	M	0514	0813	1.4F	W	0538	0827	1.3F	Th	0634	0922	1.2F
	1040	1405	1.3E		1128	1442	1.5E		1138	1500	1.4E		1226	1546	1.5E
	1726	1936	0.6F		1800	2019	0.8F		1815	2036	0.9F		1900	2128	0.9F
	2155				2249				2304						
5		0200	1.5E	20		0241	1.9E	5		0258	1.8E	20		0354	1.7E
M	0520	0811	1.2F	Tu	0602	0858	1.4F	Th	0620	0909	1.4F	F	0714	0956	1.1F
	1121	1445	1.3E		1213	1527	1.5E		1217	1541	1.5E		1257	1622	1.4E
	1805	2016	0.7F		1845	2106	0.8F		1854	2119	1.0F		1936	2203	0.9F
	2234				2336				2351						
6		0237	1.6E	21		0327	1.8E	6		0341	1.8E	21		0430	1.6E
Tu	0558	0850	1.3F	W	0648	0941	1.4F	F	0704	0953	1.4F	Sa	0753	1029	1.0F
	1201	1524	1.3E		1254	1610	1.5E		1256	1619	1.6E		1325	1656	1.4E
	1843	2055	0.7F		1927	2149	0.8F		1935	2203	1.1F		2012	2243	0.9F
	2314														
7		0316	1.6E	22		0410	1.7E	7		0427	1.8E	22		0509	1.5E
W	0638	0930	1.3F	Th	0733	1022	1.3F	Sa	0750	1035	1.4F	Su	0833	1103	0.9F
	1240	1602	1.4E		1331	1651	1.4E		1336	1702	1.6E		1352	1731	1.3E
	1921	2136	0.8F		2009	2230	0.8F		2019	2251	1.1F		2050	2318	0.8F
	2357														
8		0355	1.7E	23		0456	1.6E	8		0515	1.8E	23		0547	1.3E
Th	0720	1010	1.3F	F	0817	1100	1.1F	Su	0839	1120	1.3F	M	0914	1138	0.8F
	1319	1643	1.4E		1406	1732	1.4E		1417	1749	1.6E		1421	1807	1.2E
	2002	2219	0.8F		2050	2310	0.8F		2108	2341	1.1F		2131		
9		0438	1.7E	24		0538	1.5E	9		0608	1.7E	24		0000	0.8F
F	0805	1055	1.3F	Sa	0901	1139	1.0F	M	0932	1211	1.2F	Tu	0243	0631	1.2E
	1400	1726	1.4E		1439	1813	1.3E		1501	1839	1.6E		0958	1219	0.7F
	2047	2307	0.9F		2134	2355	0.7F		2201				1451	1848	1.2E
													2216		
10		0527	1.6E	25		0623	1.3E	10		0039	1.1F	25		0043	0.7F
Sa	0855	1140	1.3F	Su	0947	1219	0.8F	Tu	0329	0708	1.5E	W	0328	0718	1.1E
	1443	1813	1.4E		1512	1856	1.2E		1031	1304	1.0F		1049	1302	0.5F
	2135	2358	0.9F		2220				1547	1933	1.5E		1525	1933	1.1E
									2300				2307		
11		0623	1.5E	26		0040	0.7F	11		0140	1.1F	26		0134	0.7F
Su	0948	1231	1.2F	M	0316	0711	1.2E	W	0438	0815	1.4E	Th	0422	0817	1.0E
	1529	1904	1.4E		1037	1301	0.7F		1137	1401	0.8F		1148	1352	0.4F
	2229				1547	1940	1.1E		1639	2038	1.5E		1605	2027	1.1E
					2310										
12		0055	0.9F	27		0130	0.6F	12		0247	1.0F	27		0233	0.6F
M	0334	0724	1.4E	Tu	0408	0806	1.1E	Th	0554	0927	1.3E	F	0526	0922	0.9E
	1048	1327	1.0F		1132	1349	0.6F		1250	1507	0.7F		1253	1447	0.4F
	1618	2002	1.4E		1625	2033	1.1E		1738	2144	1.5E		1655	2128	1.1E
	2328														
13		0200	0.9F	28		0225	0.6F	13		0400	1.0F	28		0103	0.7F
Tu	0445	0831	1.4E	W	0509	0907	1.0E	F	0714	1039	1.2E	Sa	0638	1031	0.9E
	1154	1426	0.9F		1232	1444	0.5F		1404	1616	0.6F		1358	1552	0.3F
	1712	2103	1.5E		1709	2127	1.1E		1843	2251	1.5E		1756	2231	1.1E
14		0306	1.0F	29		0324	0.6F	14		0511	1.1F				
W	0604	0943	1.3E	Th	0617	1010	0.9E	Sa	0828	1150	1.3E				
	1303	1531	0.8F		1335	1540	0.4F		1512	1726	0.6F				
	1809	2207	1.5E		1758	2222	1.1E		1950	2353	1.6E				
15		0416	1.0F	30		0423	0.6F	15		0618	1.2F				
Th	0723	1055	1.3E	F	0726	1110	1.0E	Su	0931	1247	1.4E				
	1413	1636	0.8F		1436	1639	0.4F		1611	1828	0.7F				
	1909	2308	1.6E		1852	2317	1.2E		2054						
				31		0243	0.8F								
				Sa		0830	1.0E								
						1530	0.4F								
						1947									

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CHESAPEAKE BAY ENTRANCE, VIRGINIA, 1981

F-Flood, Dir. 305° True E-Ebb, Dir. 125° True

MARCH								APRIL																							
Slack Water				Maximum Current				Slack Water				Maximum Current				Slack Water				Maximum Current											
Day	h.m.	h.m.	knots	Day	h.m.	h.m.	knots	Day	h.m.	h.m.	knots	Day	h.m.	h.m.	knots	Day	h.m.	h.m.	knots	Day	h.m.	h.m.	knots								
1 Su	0201 0748 1455 1904	0440 1130 1655 2328	0.7F 1.0E 0.4F 1.2E	16 M	0306 0913 1558 2046	0606 1231 1821 2046	1.0F 1.3E 0.6F	1 W	0312 0901 1550 2050	0556 1233 1814 2050	1.0F 1.4E 0.8F	16 Th	0432 1007 1653 2216	0107 0718 1334 1931	1.5E 0.9F 1.4E 0.9F	2 M	0255 0849 1543 2009	0539 1221 1752 2009	0.9F 1.1E 0.5F	17 Tu	0403 1003 1643 2143	0038 1320 1910 2143	1.5E 1.1F 1.4E 0.7F	2 Th	0403 0948 1632 2149	0043 1319 1907 2149	1.6E 1.2F 1.5E 1.1F	17 F	0515 1040 1727 2257	0152 0751 1411 2004	1.5E 0.9F 1.4E 0.9F
3 Tu	0344 0940 1625 2108	0021 0630 1307 1843	1.4E 1.0F 1.3E 0.7F	18 W	0452 1045 1722 2232	0129 0742 1405 1952	1.6E 1.1F 1.4E 0.8F	3 F	0452 1032 1714 2244	0134 0736 1400 1954	1.8E 1.3F 1.7E 1.3F	18 Sa	0554 1108 1759 2334	0231 0826 1444 2039	1.5E 0.9F 1.4E 1.0F	4 W	0430 1026 1705 2202	0110 0719 1351 1929	1.6E 1.2F 1.4E 0.9F	19 Th	0536 1120 1757 2314	0214 0821 1440 2031	1.6E 1.1F 1.5E 0.9F	4 Sa	0540 1115 1757 2337	0221 0821 1443 2042	1.9E 1.4F 1.9E 1.5F	19 Su	0630 1134 1831	0308 0855 1516 2111	1.5E 0.8F 1.4E 1.0F
5 Th	0516 1108 1745 2254	0155 0802 1433 2014	1.8E 1.3F 1.6E 1.1F	20 F	0616 1150 1830 2352	0252 0856 1515 2106	1.6E 1.0F 1.5E 1.0F	5 Su	0628 1156 1842	0309 0908 1527 2130	2.0E 1.4F 1.9E 1.6F	20 M	0705 1158 1903	0343 0924 1545 2144	1.4E 0.8F 1.5E 1.0F	6 F	0601 1148 1825 2345	0241 0848 1512 2101	1.9E 1.4F 1.7E 1.2F	21 Sa	0653 1217 1903	0331 0927 2137	1.6E 1.0F 1.4E 1.0F	6 M	0718 1238 1929	0357 0952 1614 2217	2.0E 1.3F 2.0E 1.6F	21 Tu	0741 1223 1937	0418 0956 1617 2219	1.3E 0.7F 1.4E 1.0F
7 Sa	0646 1228 1908	0325 0931 1555 2148	1.9E 1.5F 1.8E 1.4F	22 Su	0729 1242 1936	0406 0958 1619 2211	1.5E 0.9F 1.4E 1.0F	7 Tu	0809 1320 2019	0449 1039 1700 2310	1.9E 1.2F 1.9E 1.5F	22 W	0820 1250 2014	0454 1029 2256	1.3E 0.6F 1.0F	8 Su	0036 0734 1308 1953	0414 1014 1637 2234	1.9E 1.4F 1.8E 1.4F	23 M	0806 1307 2011	0442 1028 2246	1.4E 0.8F 1.0F	8 W	0905 1405 2114	0544 1128 1751	1.7E 1.0F 1.8E	23 Th	0901 1320 2055	0531 1106 2238	1.2E 0.6F 0.9F
9 M	0824 1349 2042	0502 1059 1722 2325	1.9E 1.3F 1.8E 1.4F	24 Tu	0844 1333 2049	0519 1103 1725 2323	1.3E 0.7F 1.3E 0.9F	9 Th	0931 1406 2114	0642 1223 1849	1.4F 1.5E 0.8F 1.6E	24 F	0948 1355 2142	0615 1151 1804	1.1E 0.5F 1.2E	10 Tu	0918 1432 2136	0557 1148 1813	1.7E 1.1F 1.7E	25 W	0927 1402 2131	0600 1139 1803	1.2E 0.6F 1.2E	10 F	0942 1414 2130	0104 0749 1326 1953	1.2F 1.4E 0.6F 1.5E	25 Sa	0324 1042 1439 2236	0027 0706 1236 1901	0.9F 1.0E 0.4F 1.1E
11 W	0324 1018 1519 2235	0021 0655 1242 1911	1.3F 1.5E 0.9F 1.6E	26 Th	0258 1015 1435 2219	0004 0643 1222 1843	0.8F 1.1E 0.5F 1.1E	11 Sa	0529 1228 1654	0858 1435 2104	1.1F 1.2E 0.5F 1.4E	26 Su	0418 1141 1535 2336	0118 1333 2002	0.8F 1.0E 0.4F 1.1E	12 Th	0430 1125 1611 2341	0121 1343 2012	1.2F 1.4E 0.7F 1.5E	27 F	0348 1112 1514 2315	0053 0734 1311 1934	0.8F 1.0E 0.4F 1.1E	12 Sa	0640 1340 1811	0324 1006 2217	1.0F 1.2E 0.5F 1.3E	27 M	0520 1241 1645	0219 0906 2108	0.8F 1.0E 0.4F 1.2E
13 F	0544 1240 1713	0228 0915 1449 2124	1.1F 1.2E 0.6F 1.4E	28 Sa	0447 1215 1606	0839 1408 2039	0.7F 0.9E 0.3F 1.1E	13 M	0745 1443 1928	1109 1701 2322	0.9F 1.2E 0.5F 1.4E	28 Tu	0623 1337 1805	0320 1010 2220	0.8F 1.1E 0.5F 1.3E	14 Sa	0052 0701 1356 1825	0343 1026 1605 2236	1.0F 1.2E 0.5F 1.4E	29 Su	0016 0555 1320 1713	0252 0945 1511 2150	0.7F 0.9E 0.4F 1.1E	14 W	0247 0841 1534 2034	0539 1206 1759	0.9F 1.3E 0.6F	29 Th	0142 0723 1427 1923	0424 1105 1647 2321	0.9F 1.3E 0.7F 1.4E
15 Su	0202 0812 1503 1940	0458 1133 1716 2339	1.0F 1.2E 0.5F 1.5E	30 M	0119 0705 1417 1830	0359 1051 1619 2254	0.8F 1.0E 0.4F 1.2E	15 W	0344 0928 1616 2130	0018 0630 1251 1850	1.4E 0.9F 1.4E 0.8F	30 Th	0241 0818 1515 2033	0521 1156 1748	1.0F 1.5E 1.0F																
				31 Tu	0218 0807 1506 1944	0458 1145 1721 2350	0.9F 1.2E 0.6F 1.4E																								

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CHESAPEAKE BAY ENTRANCE, VIRGINIA, 1981

F-Flood, Dir. 305° True E-Ebb, Dir. 125° True

MAY								JUNE							
Day	Slack Water Time	Maximum Current Time Vel.		Day	Slack Water Time	Maximum Current Time Vel.		Day	Slack Water Time	Maximum Current Time Vel.		Day	Slack Water Time	Maximum Current Time Vel.	
	h.m.	h.m.	knots		h.m.	h.m.	knots		h.m.	h.m.	knots		h.m.	h.m.	knots
1 F	0336 0908 1601 2135	0017 0616 1244 1841	1.6E 1.1F 1.7E 1.2F	16 Sa	0449 0954 1655 2236	0125 0714 1335 1939	1.4E 0.7F 1.4E 0.9F	1 M	0503 1009 1712 2319	0146 0732 1355 2008	1.7E 1.1F 2.0E 1.6F	16 Tu	0541 1012 1734 2330	0217 0751 1414 2021	1.3E 0.6F 1.4E 1.1F
2 Sa	0429 0955 1646 2233	0110 0707 1331 1933	1.8E 1.2F 1.8E 1.4F	17 Su	0528 1023 1728 2314	0206 0748 1410 2011	1.4E 0.7F 1.4E 1.0F	2 Tu	0556 1057 1802	0240 0821 1443 2058	1.8E 1.1F 2.0E 1.7F	17 W	0620 1044 1810	0258 0826 2058	1.3E 0.6F 1.4E 1.1F
3 Su	0520 1040 1732 2328	0202 0755 1417 2024	1.9E 1.3F 2.0E 1.6F	18 M	0606 1051 1801 2350	0244 0824 1443 2045	1.4E 0.7F 1.4E 1.0F	3 W	0613 0649 1144 1852	0331 0912 1532 2149	1.8E 1.0F 2.0E 1.7F	18 Th	0608 0657 1117 1847	0335 0903 1523 2134	1.2E 0.6F 1.5E 1.1F
4 M	0611 1125 1820	0253 0843 1503 2113	1.9E 1.3F 2.0E 1.7F	19 Tu	0643 1118 1835	0319 0854 1516 2118	1.3E 0.7F 1.4E 1.1F	4 Th	0106 0742 1232 1944	0424 1003 1624 2240	1.7E 1.0F 1.9E 1.6F	19 F	0045 0735 1152 1925	0411 0942 1601 2215	1.2E 0.6F 1.5E 1.2F
5 Tu	0702 1209 1909	0345 0932 1550 2204	1.9E 1.2F 2.0E 1.7F	20 W	0625 0720 1146 1910	0354 0927 1548 2155	1.3E 0.6F 1.4E 1.1F	5 F	0158 0837 1322 2038	0515 1054 1716 2331	1.6E 0.9F 1.8E 1.4F	20 Sa	0122 0814 1232 2007	0452 1019 1638 2256	1.2E 0.6F 1.4E 1.1F
6 W	0115 0756 1254 2000	0437 1020 1641 2256	1.8E 1.1F 1.9E 1.6F	21 Th	0101 0758 1216 1947	0433 1002 1621 2232	1.2E 0.6F 1.4E 1.1F	6 Sa	0250 0933 1414 2134	0613 1148 1813	1.5E 0.7F 1.6E	21 Su	0202 0856 1317 2052	0533 1106 1725 2342	1.2E 0.6F 1.4E 1.1F
7 Th	0210 0852 1341 2055	0532 1113 1735 2351	1.7E 0.9F 1.8E 1.4F	22 F	0138 0839 1250 2028	0512 1041 1658 2313	1.2E 0.5F 1.3E 1.0F	7 Su	0342 1032 1511 2234	0026 0708 1245 1911	1.2F 1.4E 0.6F 1.5E	22 M	0243 0942 1409 2143	0616 1151 1810	1.2E 0.6F 1.4E
8 F	0306 0952 1432 2154	0629 1207 1832	1.5E 0.7F 1.6E	23 Sa	0219 0924 1330 2114	0554 1122 1739	1.1E 0.5F 1.3E	8 M	0433 1132 1614 2336	0122 0803 1345 2012	1.0F 1.3E 0.6F 1.3E	23 Tu	0328 1032 1509 2239	0027 0704 1248 1911	1.1F 1.2E 0.7F 1.4E
9 Sa	0405 1058 1530 2258	0048 0730 1308 1935	1.3F 1.4E 0.6F 1.5E	24 Su	0304 1013 1418 2206	0000 0642 1214 1828	1.0F 1.1E 0.5F 1.3E	9 Tu	0525 1232 1722	0219 0900 2116	0.9F 1.2E 1.2E	24 W	0417 1126 1618 2340	0120 0801 1346 2013	1.0F 1.3E 0.7F 1.3E
10 Su	0507 1206 1637	0149 0834 1414 2043	1.1F 1.3E 0.5F 1.3E	25 M	0354 1106 1518 2304	0049 0736 1311 1930	1.0F 1.1E 0.5F 1.2E	10 W	0040 0615 1327 1832	0318 0958 1554 2217	0.7F 1.2E 0.6F 1.2E	25 Th	0509 1223 1734	0219 0856 2122	1.0F 1.4E 1.3E
11 M	0006 0608 1312 1752	0254 0939 1526 2150	0.9F 1.2E 0.5F 1.3E	26 Tu	0448 1202 1629	0147 0832 1412 2039	0.9F 1.1E 0.6F 1.2E	11 Th	0142 0703 1418 1937	0416 1045 1651 2316	0.7F 1.2E 0.6F 1.2E	26 F	0044 0603 1320 1851	0317 0954 1557 2229	0.9F 1.5E 1.0F 1.4E
12 Tu	0115 0706 1410 1906	0401 1038 1633 2254	0.8F 1.2E 0.6F 1.3E	27 W	0007 0545 1258 1748	0248 0931 1517 2148	0.9F 1.2E 0.7F 1.3E	12 F	0240 0747 1503 2035	0509 1136 1743	0.6F 1.3E 0.7F	27 Sa	0149 0700 1416 2005	0420 1052 1700 2335	0.9F 1.6E 1.1F 1.4E
13 W	0219 0757 1459 2012	0502 1129 1730 2351	0.8F 1.3E 0.7F 1.3E	28 Th	0111 0642 1352 1906	0347 1029 1620 2252	0.9F 1.4E 0.9F 1.4E	13 Sa	0332 0828 1544 2125	0006 0552 1221 1826	1.2E 0.6F 1.3E 0.8F	28 Su	0253 0756 1511 2112	0520 1150 1802	0.9F 1.7E 1.3F
14 Th	0315 0842 1542 2107	0556 1215 1819	0.8F 1.3E 0.8F	29 F	0213 0737 1443 2017	0448 1123 1722 2353	1.0F 1.5E 1.1F 1.5E	14 Su	0418 0905 1622 2210	0055 0635 1300 1907	1.2E 0.6F 1.4E 0.9F	29 M	0353 0851 1605 2214	0035 0617 1244 1900	1.5E 0.9F 1.9E 1.5F
15 F	0405 0920 1620 2154	0040 0637 1300 1900	1.3E 0.7F 1.4E 0.9F	30 Sa	0312 0830 1533 2123	0545 1214 1820	1.0F 1.7E 1.3F	15 M	0501 0939 1659 2252	0136 0713 1339 1945	1.2E 0.6F 1.4E 1.0F	30 Tu	0449 0944 1657 2311	0134 0713 1336 1954	1.6E 0.9F 1.9E 1.6F
				31 Su	0408 0920 1623 2222	0051 0640 1306 1915	1.7E 1.1F 1.9E 1.5F								

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CHESAPEAKE BAY ENTRANCE, VIRGINIA, 1981
F-Flood, Dir. 305° True E-Ebb, Dir. 125° True

JULY												AUGUST											
Slack Water Time				Maximum Current Time Vel.				Slack Water Time				Maximum Current Time Vel.				Slack Water Time				Maximum Current Time Vel.			
Day	h.m.	h.m.	knots	Day	h.m.	h.m.	knots	Day	h.m.	h.m.	knots	Day	h.m.	h.m.	knots	Day	h.m.	h.m.	knots				
1 W	0543	0227	1.6E	16 Th	0553	0233	1.2E	1 Sa	0704	0349	1.6E	16 Su	0635	0321	1.4E								
	1036	0805	0.9F		1018	0801	0.6F		1204	0929	0.9F		1130	0859	0.9F								
	1748	1427	2.0E		1747	1426	1.5E		1914	1553	1.8E		1845	1524	1.7E								
		2045	1.6F		2347	2037	1.1F			2205	1.3F			2130	1.3F								
2 Th	0003	0318	1.7E	17 F	0630	0309	1.3E	2 Su	0113	0432	1.5E	17 M	0033	0359	1.5E								
	0635	0856	0.9F		1058	0840	0.6F		0748	1012	0.9F		0713	0940	1.0F								
	1126	1518	2.0E		1825	1501	1.5E		1250	1639	1.7E		1217	1607	1.7E								
	1839	2135	1.6F			2113	1.2F		2000	2246	1.2F		1928	2211	1.3F								
3 F	0053	0409	1.6E	18 Sa	0024	0350	1.3E	3 M	0151	0515	1.5E	18 Tu	0110	0439	1.5E								
	0726	0945	0.9F		0707	0919	0.7F		0832	1056	0.9F		0754	1025	1.1F								
	1216	1609	1.9E		1139	1540	1.6E		1336	1725	1.6E		1307	1650	1.7E								
	1929	2225	1.5F		1905	2153	1.2F		2046	2326	1.1F		2015	2257	1.2F								
4 Sa	0140	0457	1.6E	19 Su	0101	0427	1.3E	4 Tu	0226	0558	1.4E	19 W	0148	0521	1.6E								
	0815	1036	0.9F		0745	1000	0.8F		0916	1141	0.8F		0839	1114	1.1F								
	1306	1657	1.8E		1223	1621	1.6E		1421	1810	1.4E		1400	1741	1.6E								
	2020	2311	1.3F		1948	2234	1.2F		2133				2105	2342	1.1E								
5 Su	0225	0546	1.5E	20 M	0139	0506	1.4E	5 W		0004	0.9F	20 Th	0229	0607	1.6E								
	0906	1125	0.8F		0825	1045	0.8F		0300	0639	1.3E		0929	1207	1.1F								
	1356	1748	1.6E		1311	1706	1.6E		1002	1227	0.7F		1458	1836	1.5E								
	2112				2033	2317	1.2F		1509	1859	1.3E		2201										
6 M		0000	1.2F	21 Tu	0218	0548	1.4E	6 Th		0050	0.7F	21 F		0033	1.0F								
	0308	0635	1.4E		0910	1133	0.9F		0335	0727	1.2E		0314	0658	1.5E								
	0957	1215	0.7F		1404	1755	1.5E		1052	1316	0.7F		1025	1305	1.1F								
	1448	1842	1.4E		2123				1600	1953	1.1E		1602	1940	1.4E								
	2205								2317				2303										
7 Tu		0048	1.0F	22 W		0004	1.1F	7 F		0134	0.6F	22 Sa		0128	0.8F								
	0350	0724	1.3E		0300	0637	1.4E		0412	0818	1.1E		0403	0759	1.5E								
	1050	1309	0.7F		0959	1226	0.9F		1145	1409	0.6F		1127	1410	1.1E								
	1543	1938	1.3E		1503	1853	1.5E		1658	2051	1.0E		1715	2049	1.3E								
	2301				2218																		
8 W		0137	0.8F	23 Th		0055	1.0F	8 Sa		0016	0.5F	23 Su		0012	0.7F								
	0433	0816	1.2E		0345	0727	1.4E		0454	0910	1.1E		0459	0904	1.5E								
	1144	1402	0.6F		1054	1325	0.9F		1240	1508	0.6F		1233	1520	1.1F								
	1643	2037	1.2E		1609	1954	1.4E		1803	2153	1.0E		1833	2203	1.2E								
	2359				2319																		
9 Th		0228	0.7F	24 F		0149	0.9F	9 Su		0119	0.4F	24 M		0125	0.6F								
	0516	0907	1.2E		0434	0826	1.4E		0542	1006	1.1E		0604	1013	1.5E								
	1238	1501	0.6F		1152	1428	1.0F		1336	1607	0.6F		1340	1634	1.1F								
	1747	2138	1.1E		1723	2103	1.3E		1910	2252	1.0E		1949	2311	1.3E								
10 F		0321	0.6F	25 Sa		0025	0.8F	10 M		0220	0.4F	25 Tu		0235	0.4F								
	0600	1002	1.2E		0529	0927	1.5E		0636	1100	1.2E		0713	1120	1.6E								
	1331	1557	0.6F		1254	1538	1.0F		1428	1708	0.7F		1444	1739	1.2F								
	1853	2234	1.0E		1841	2215	1.3E		2013	2349	1.0E		2056										
11 Sa		0416	0.5F	26 Su		0134	0.8F	11 Tu		0315	0.4F	26 W		0337	0.4F								
	0646	1052	1.2E		0628	1029	1.6E		0731	1149	1.2E		0821	1221	0.7F								
	1421	1656	0.7F		1356	1645	1.1F		1516	1758	0.8F		1543	1840	1.3F								
	1955	2333	1.1E		1956	2323	1.3E		2109				2154										
12 Su		0507	0.5F	27 M		0241	0.7F	12 W			0.4F	27 Th		0109	1.4E								
	0732	1140	1.2E		0729	1133	1.7E		0403	0606	0.5F		0430	0654	0.8F								
	1507	1749	0.8F		1455	1750	1.3F		0824	1238	1.3E		0923	1315	1.8E								
	2051				2105				1601	1846	1.0F		1637	1933	1.3F								
									2157				2244										
13 M		0024	1.1E	28 Tu		0025	1.4E	13 Th		0126	1.2E	28 F		0200	1.5E								
	0347	0556	0.5F		0343	0605	0.8F		0444	0654	0.6F		0516	0743	0.9F								
	0817	1225	1.3E		0830	1230	1.8E		0913	1320	1.5E		1017	1404	1.8E								
	1550	1834	0.9F		1552	1851	1.4F		1642	1930	1.1F		1726	2019	1.3F								
	2142				2206				2240				2327										
14 Tu		0109	1.1E	29 W		0122	1.5E	14 F		0207	1.3E	29 Sa		0243	1.5E								
	0433	0641	0.5F		0440	0700	0.8F		0522	0738	0.7F		0559	0829	0.9F								
	0859	1307	1.4E		0929	1323	1.9E		1000	1401	1.6E		1107	1451	1.8E								
	1630	1919	1.0F		1646	1944	1.5F		1723	2010	1.2F		1812	2102	1.3F								
	2227				2300				2319														
15 W		0152	1.2E	30 Th		0213	1.6E	15 Sa		0243	1.4E	30 Su		0325	1.5E								
	0515	0723	0.5F		0531	0754	0.9F		0558	0816	0.8F		0638	0911	1.0F								
	0939	1345	1.4E		1023	1416	1.9E		1045	1443	1.7E		1152	1534	1.7E								
	1709	1955	1.1F		1737	2035	1.5F		1804	2049	1.3F		1856	2139	1.2F								
	2308				2349				2356														
				31 F		0302	1.6E					31 M		0402	1.5E								
					0619	0845	0.9F						0716	0948	1.0F								
					1115	1504	1.9E						1234	1615	1.6E								
					1826	2118	1.4F						1937	2214	1.1F								

Time meridian 75° W. D000 is midnight. 1200 is noon.

CHESAPEAKE BAY ENTRANCE, VIRGINIA, 1981

F-Flood, Dir. 305° True E-Ebb, Dir. 125° True

SEPTEMBER

OCTOBER

Day	Slack Water			Day	Maximum Current			Day	Slack Water			Day	Maximum Current		
	Time	Vel.			Time	Vel.			Time	Vel.			Time	Vel.	
	h.m.	h.m.	knots		h.m.	h.m.	knots		h.m.	h.m.	knots		h.m.	h.m.	knots
1	0109	0438	1.5E	16	0038	0409	1.8E	1	0050	0437	1.4E	16	0048	0430	1.9E
Tu	0754	1027	1.0F	W	0725	1008	1.4F	Th	0755	1031	1.0F	F	0749	1040	1.6F
	1314	1656	1.5E		1301	1635	1.8E		1328	1706	1.3E		1348	1712	1.7E
	2019	2250	0.9F		1957	2232	1.2F		2031	2246	0.7F		2035	2259	1.0F
2	0138	0516	1.4E	17	0117	0453	1.8E	2	0116	0509	1.3E	17	0132	0519	1.8E
W	0833	1106	0.9F	Th	0812	1056	1.4F	F	0833	1110	0.9F	Sa	0842	1134	1.5F
	1353	1739	1.4E		1354	1727	1.7E		1405	1747	1.2E		1446	1810	1.5E
	2101	2325	0.8F		2049	2319	1.1F		2114	2325	0.6F		2134	2354	0.9F
3	0207	0554	1.3E	18	0159	0542	1.7E	3	0145	0548	1.2E	18	0220	0616	1.7E
Th	0915	1145	0.8F	F	0903	1147	1.3F	Sa	0916	1151	0.8F	Su	0940	1232	1.3F
	1435	1820	1.2E		1452	1824	1.5E		1447	1832	1.1E		1548	1915	1.4E
	2147				2146				2203				2240		
4		0004	0.7F	19		0010	0.9F	4		0007	0.5F	19		0051	0.7F
F	0237	0633	1.2E	Sa	0245	0635	1.6E	Su	0218	0629	1.1E	M	0315	0718	1.5E
	1001	1232	0.8F		1001	1248	1.2F		1004	1240	0.8F		1045	1337	1.2F
	1520	1911	1.1E		1556	1927	1.4E		1535	1924	1.0E		1656	2025	1.3E
	2238				2251				2300				2353		
5		0049	0.5F	20		0108	0.7F	5		0056	0.4F	20		0202	0.6F
Sa	0311	0722	1.1E	Su	0336	0737	1.5E	M	0257	0725	1.0E	Tu	0420	0832	1.4E
	1052	1321	0.7F		1105	1353	1.1F		1100	1333	0.7F		1156	1448	1.0F
	1612	2005	1.0E		1707	2038	1.3E		1632	2029	0.9E		1807	2134	1.3E
	2336														
6		0138	0.4F	21		0213	0.6F	6		0153	0.3F	21		0316	0.5F
Su	0351	0815	1.1E	M	0437	0847	1.5E	Tu	0348	0826	1.0E	W	0538	0944	1.4E
	1149	1418	0.6F		1214	1507	1.1F		1201	1435	0.7F		1308	1603	1.0F
	1714	2110	0.9E		1824	2151	1.2E		1738	2132	0.9E		1914	2242	1.3E
7		0236	0.3F	22		0327	0.5F	7		0256	0.3F	22		0430	0.6F
M	0441	0917	1.0E	Tu	0549	1000	1.4E	W	0455	0933	1.1E	Th	0658	1053	1.4E
	1248	1521	0.6F		1325	1621	1.0F		1303	1541	0.7F		1416	1708	1.0F
	1823	2214	0.9E		1937	2300	1.3E		1845	2236	1.0E		2013	2337	1.4E
8		0337	0.3F	23		0441	0.6F	8		0402	0.4F	23		0536	0.7F
Tu	0542	1019	1.1E	W	0706	1108	1.5E	Th	0612	1036	1.2E	F	0810	1152	1.5E
	1347	1623	0.7F		1432	1730	1.1F		1402	1642	0.8F		1516	1805	1.0F
	1931	2313	1.0E		2040	2359	1.4E		1946	2327	1.1E		2103		
9		0441	0.4F	24		0550	0.7F	9		0503	0.5F	24		0628	1.4E
W	0649	1115	1.2E	Th	0817	1209	1.6E	F	0725	1132	1.3E	Sa	0351	0627	0.8F
	1440	1724	0.8F		1532	1828	1.1F		1455	1736	0.9F		0909	1246	1.5E
	2030				2134				2038				1609	1854	0.9F
													2145		
10		0004	1.1E	25		0051	1.4E	10		0015	1.3E	25		0111	1.5E
Th	0329	0537	0.5F	F	0414	0641	0.8F	Sa	0332	0556	0.8F	Su	0431	0712	0.9F
	0754	1206	1.3E		0919	1300	1.7E		0829	1222	1.5E		1000	1331	1.5E
	1529	1815	0.9F		1625	1919	1.1F		1544	1825	1.1F		1655	1931	0.9F
	2120				2219				2123				2220		
11		0051	1.2E	26		0136	1.5E	11		0056	1.5E	26		0148	1.5E
F	0410	0625	0.6F	Sa	0456	0730	0.9F	Su	0411	0643	1.0F	M	0507	0749	1.0F
	0851	1254	1.5E		1011	1351	1.7E		0926	1312	1.7E		1043	1414	1.5E
	1614	1859	1.1F		1713	1958	1.1F		1631	1911	1.2F		1736	2008	0.9F
	2204				2257				2205				2250		
12		0132	1.4E	27		0219	1.5E	12		0137	1.6E	27		0227	1.5E
Sa	0447	0710	0.8F	Su	0534	0811	1.0F	M	0451	0731	1.2F	Tu	0541	0824	1.1F
	0943	1336	1.6E		1057	1434	1.7E		1020	1358	1.8E		1122	1453	1.5E
	1657	1942	1.2F		1756	2037	1.1F		1717	1954	1.3F		1814	2038	0.8F
	2244				2330				2246				2317		
13		0211	1.5E	28		0256	1.5E	13		0218	1.8E	28		0258	1.5E
Su	0524	0755	1.0F	M	0610	0849	1.0F	Tu	0532	0817	1.4F	W	0614	0855	1.1F
	1033	1419	1.8E		1138	1513	1.6E		1111	1444	1.9E		1158	1530	1.4E
	1740	2023	1.3F		1836	2109	1.0F		1803	2039	1.3F		1851	2109	0.8F
	2322				2359				2326				2342		
14		0250	1.6E	29		0329	1.5E	14		0300	1.9E	29		0330	1.5E
M	0602	0836	1.2F	Tu	0644	0923	1.0F	W	0615	0903	1.5F	Th	0648	0930	1.1F
	1121	1502	1.8E		1216	1551	1.5E		1202	1532	1.9E		1232	1604	1.4E
	1824	2104	1.3F		1914	2142	0.9F		1851	2122	1.3F		1927	2139	0.7F
15		0328	1.7E	30		0402	1.5E	15		0343	1.9E	30		0402	1.4E
Tu	0642	0921	1.3F	W	0719	0958	1.0F	Th	0700	0950	1.6F	F	0722	1004	1.0F
	1210	1548	1.9E		1252	1630	1.4E		1254	1621	1.8E		1306	1640	1.3E
	1909	2147	1.3F		1952	2213	0.8F		1941	2209	1.2F		2005	2214	0.6F
												31	0033	0435	1.3E
												Sa	0759	1041	1.0F
													1342	1718	1.2E
													2047	2251	0.5F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS, 1981

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS							
			Lat.	Long.	Min. before Flood	Min. Flood	h. m.	h. m.	h. m.	h. m.	Flood	Ebb	Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb		
		ft	° N	° W	on CHESAPEAKE BAY ENTRANCE, p.64										knots deg.	knots deg.	knots deg.	knots deg.
POTOMAC RIVER																		
	Cornfield Point		38 02	76 21	Current irregular													
4020	1 mile south of midchannel		38 01.1	76 21.3	+4 00	+4 00	+4 00	+4 00	+4 00	0.5	0.4	0.0	0.0	0.0	0.0	0.5	310	
4025	3.8 miles south of		37 59.4	76 21.5	+3 45	+3 45	+3 45	+3 45	+3 45	0.7	0.4	0.0	0.0	0.0	0.0	0.5	280	
4030	Fort Point, St. Marys River		38 07.8	76 26.9	Current weak and variable													
4035	Yeocomico River entrance		38 02.1	76 31.2	Current weak and variable													
4040	Piney Point																	
4045	0.2 mile south of midchannel		38 07.8	76 32.0	+3 00	+3 00	+3 00	+3 00	+3 00	1.3	0.7	0.0	0.0	0.0	0.0	1.3	280	
4050	2.2 miles south of		38 06.9	76 32.5	+3 48	+3 40	+3 43	+3 51		0.4	0.4	0.0	0.0	0.0	0.0	0.4	290	
4055	Lower Machodoc Creek entrance		38 05.9	76 33.1	+3 00	+3 00	+3 00	+3 00		0.5	0.3	0.0	0.0	0.0	0.0	0.5	280	
4060	White Point, Nomin Creek entrance		38 08.7	76 39.3	Current weak and variable													
4065	Breton Bay entrance		38 08.1	76 43.3	+3 35	+3 35	+3 35	+3 35		1.2	0.8	0.0	0.0	0.0	0.0	1.2	155	
4070	St. Clements Bay entrance		38 14.5	76 41.7	+2 20	+2 20	+2 20	+2 20		0.6	0.3	0.0	0.0	0.0	0.0	0.6	030	
4075	St. Clements I., 1.8 miles southeast of		38 11.7	76 42.5	Current weak and variable													
4080	St. Clements I., 1.1 miles southwest of		38 11.57	76 45.67	+4 45	+4 45	+4 45	+4 45		0.4	0.6	0.0	0.0	0.0	0.0	0.4	250	
4085	Rock Point, Wicomico River entrance		38 16.4	76 49.3	+3 31	+4 54	+4 44	+4 34		0.6	0.5	0.0	0.0	0.0	0.0	0.6	281	
4090	Swan Point		38 16.4	76 56.7	+3 09	+3 41	+3 53	+3 22		0.5	0.4	0.0	0.0	0.0	0.0	0.5	019	
4095	Dahlgren Harbor Channel		38 18.90	77 01.93	+6 25	+6 25	+6 25	+6 25		0.3	0.5	0.0	0.0	0.0	0.0	0.3	350	
4100	Upper Machodoc Creek entrance		38 19	77 02	Current irregular													
4105	Persimmon Point		38 22.1	76 59.4	+7 10	+7 10	+7 10	+7 10		1.2	0.9	0.0	0.0	0.0	0.0	1.2	270	
4110	Potomac River Bridge, 0.4 mile south of		38 21.38	76 59.20	+6 54	+7 01	+7 19	+7 17		0.9	0.9	0.0	0.0	0.0	0.0	1.2	335	
4115	Chapel Point, Port Tobacco River		38 27.9	77 02.2	Current weak and variable													
4120	Maryland Point		38 20.8	77 11.8	+7 15	+7 15	+7 15	+7 15		1.1	0.9	0.0	0.0	0.0	0.0	1.1	270	
4125	Quantico		38 31.3	77 16.6	+7 25	+7 25	+7 25	+7 25		0.7	0.6	0.0	0.0	0.0	0.0	0.7	020	
4130	Quantico Creek entrance		38 31.7	77 17.3	+7 00	+7 00	+7 00	+7 00		0.5	0.3	0.0	0.0	0.0	0.0	0.5	305	
4135	Freestone Point, 2.3 miles east of		38 35.78	77 11.88	+8 16	+8 28	+8 29	+8 28		0.7	0.5	0.0	0.0	0.0	0.0	0.7	030	
4140	Hallowing Point		38 38.70	77 07.65	+8 31	+8 24	+8 33	+8 19		1.1	0.7	0.0	0.0	0.0	0.0	1.1	345	
4145	Jones Point, Alexandria		38 47.62	77 02.23	+8 55	+8 30	+9 06	+8 41		1.0	0.6	0.0	0.0	0.0	0.0	1.0	352	
4150	Hains Point		38 51.08	77 01.32	+8 39	+9 00	+9 01	+8 16		0.6	0.2	0.0	0.0	0.0	0.0	0.6	359	
4155	Anacostia River entrance		38 51.8	77 00.6	Current weak and variable													
4160	South Capitol Street Bridge		38 52.07	77 00.38	Current weak and variable													
4165	Washington Channel, Washington, D.C.		38 51.8	77 01.2														
4170	Virginia Channel, Washington, D.C. <13>		38 52	77 02														
4175																		

APPENDIX C.- Solar radiation data

APPENDIX C

01652590

- POTOMAC R AT ALEXANDRIA, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

LIGHT
INCID.
400-
700NM
TOTAL
(CAL/
SQ CM)
(00201)

LIGHT
INCID.
400-
700NM
TOTAL
(CAL/
SQ CM)
(00201)

DATE

DATE

OCT

MAY

01... 214
02... 322
03... 41
04... 256
05... 248
06... 385
07... 333
08... 358
09... 280
10... 69
11... 132
12... 248
13... 250
14... 341
15... 327
16... 314
17... 311
18... 143
MAY
14... 623
15... 189

16... 445
17... 571
18... 144
19... 132
20... 417
21... 659
22... 637
23... 638
24... 613
25... 655
26... 496
27... 497
28... 178
29... 399
30... 649
31... 385
JUN
01... 122
02... 142
03... 245

APPENDIX C

01652590 - POTOMAC R AT ALEXANDRIA, VA. -- Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

LIGHT
 INCID.
 400-
 700NM
 TOTAL
 (CAL/
 SQ CM)
 (00201)

DATE

JUN
 25...
 26...
 27...
 28...
 29...
 30...
 JUL
 01...
 02...
 03...
 04...
 05...
 06...
 07...
 08...
 09...
 10...
 11...
 12...

450
 593
 579
 556
 505
 510
 426
 362
 257
 177
 208
 352
 655
 614
 559
 534
 567
 657

LIGHT
 INCID.
 400-
 700NM
 TOTAL
 (CAL/
 SQ CM)
 (00201)

DATE

JUN
 04...
 05...
 06...
 07...
 08...
 09...
 10...
 11...
 12...
 13...
 14...
 15...
 16...
 17...
 18...
 19...
 20...
 21...
 22...
 23...
 24...

312
 502
 286
 702
 646
 458
 395
 615
 526
 231
 410
 496
 603
 576
 635
 592
 318
 595
 505
 600
 529

APPENDIX C

01652590 - POTOMAC R AT ALEXANDRIA, VA. -- Cont.
 WATER QUALITY DATA. WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)	DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)
JUL		AUG	
13...	534	03...	396
14...	662	04...	471
15...	617	05...	428
16...	159	06...	151
17...	508	08...	322
18...	539	09...	525
19...	596	10...	617
20...	481	13...	429
21...	447	14...	438
22...	449	15...	403
23...	638	18...	524
24...	238	19...	336
25...	105	20...	345
26...	372	21...	547
27...	462	22...	147
28...	273	23...	596
29...	570	24...	352
30...	632	29...	341
31...	541		
AUG			
01...	632		
02...	753		

01652590 - POTOMAC R AT ALEXANDRIA, VA. -- Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LIGHT INCID. 400- 700NM TOTAL (CALV SQ CM) (00201)	DATE	LIGHT INCID. 400- 700NM TOTAL (CALV SQ CM) (00201)
SEP 02...	304	SEP 17...	228
SEP 03...	222	SEP 18...	107
SEP 04...	153	SEP 19...	301
SEP 05...	190	SEP 20...	266
SEP 06...	345	SEP 21...	413
SEP 07...	305	SEP 22...	429
SEP 08...	137	SEP 23...	474
SEP 09...	429	SEP 24...	486
SEP 10...	480	SEP 25...	416
SEP 11...	411	SEP 26...	382
SEP 12...	352	SEP 27...	380
SEP 13...	420	SEP 28...	468
SEP 14...	425	SEP 29...	398
SEP 15...	192	SEP 30...	230
SEP 16...	150		

APPENDIX C

01655480

- POTOMAC R AT INDIAN HEAD, MD

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)	DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)
OCT 01...	248	OCT 22...	327
02...	327	23...	256
03...	55	24...	272
04...	319	25...	72
05...	278	26...	286
06...	432	27...	286
07...	344	28...	80
08...	388	29...	209
09...	333	30...	248
10...	85	31...	346
11...	171	MAY 14...	621
12...	280	15...	217
13...	324	16...	424
14...	371	17...	516
15...	366	18...	150
16...	350	19...	88
17...	341	20...	393
18...	140	21...	652
19...	239		
20...	330		
21...	350		

APPENDIX C

01555480 - POTOMAC R AT INDIAN HEAD, MD -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

LIGHT		LIGHT	
INCID.		INCID.	
400-		400-	
700NM		700NM	
TOTAL		TOTAL	
(CAL/		(CAL/	
SQ CM)		SQ CM)	
(00201)		(00201)	
DATE		DATE	
MAY		JUN	
22...	652	26...	717
23...	585	27...	512
24...	628	28...	562
25...	607	29...	547
25...	486	30...	631
JUN		JUL	
11...	628	01...	379
12...	427	02...	472
13...	430	03...	290
14...	296	04...	202
15...	571	05...	266
16...	651	06...	390
17...	591	07...	516
18...	611	08...	609
19...	587	09...	584
20...	315	10...	431
21...	636	11...	576
22...	576	12...	651
23...	618	13...	473
24...	447	14...	511
25...	589		

APPENDIX C

01655480 - POTOMAC R AT INDIAN HEAD, MD -- Cont.
WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LIGHT INCD. 400- 700NM TOTAL (CALV SQ CM) (00201)	DATE	LIGHT INCD. 400- 700NM TOTAL (CALV SQ CM) (00201)
JUL		AUG	
15...	668	05...	462
16...	146	06...	41
17...	559	07...	492
18...	529	08...	319
19...	583	09...	517
20...	493	10...	518
21...	502	11...	373
22...	494	12...	209
23...	634	13...	432
24...	192	14...	447
25...	177	15...	431
26...	457	16...	452
27...	585	17...	445
28...	339	18...	378
29...	486	19...	243
30...	621	20...	392
31...	562	21...	458
AUG		22...	128
01...	664	23...	529
02...	601		
03...	372		

01655480 - POTOMAC R AT INDIAN HEAD, MD -- Cont.
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)	DATE	LIGHT INCID. 400- 700NM TOTAL (CAL/ SQ CM) (00201)
AUG		SEP	
24...	394	18...	97
25...	415	19...	306
26...	473	20...	374
27...	478	21...	395
28...	439	22...	411
29...	329	23...	456
30...	191	24...	474
31...	306	25...	402
SEP		26...	380
01...	410	27...	389
02...	261	28...	441
03...	330	29...	422
04...	295	30...	221
15...	119		
17...	261		