

# WATER QUALITY OF THE TIDAL POTOMAC RIVER AND ESTUARY HYDROLOGIC DATA REPORT 1980 WATER YEAR

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U.S. GEOLOGICAL SURVEY  
Open-File Report 82—152

1982

# UNITED STATES DEPARTMENT OF THE INTERIOR

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## GEOLOGICAL SURVEY

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ABSTRACT

This report contains data on the physical and chemical properties measured in the Tidal Potomac River and Estuary during the 1980 Water Year. Data were collected routinely at five stations, and periodically at 17 stations including three stations near the mouth of the Potomac River in Chesapeake Bay. Each of the five stations represent a cross section through which the transport of selected dissolved and suspended materials can be computed. The remaining stations represent locations at which data were collected for special synoptic studies such as salt water migration, and dissolved oxygen dynamics. Routinely, samples were analyzed for silica, nitrogen, phosphorus, chlorophyll-a, pheophytin, and suspended sediment. Additional samples were analyzed for organic carbon, calcium, manganese, magnesium, sodium, alkalinity, sulfate, iron, potassium, chloride, fluoride, seston, algal growth potential, adenosine triphosphate, nitrifying bacteria and dissolved-solids residue. In addition, solar radiation measurements and in-situ measurements of dissolved oxygen, specific conductance, pH, temperature, and Secchi disk transparency are reported.



## INTRODUCTION

The U.S. Geological Survey (Survey) is making an interdisciplinary study of the tidal Potomac River and Estuary. This study, for the first time, blends Survey research with river-quality assessment (ROA) 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 Potomac Estuary Study (PES) began in 1977, with the first field efforts during August of that year (Smith and Herndon, 1979), and during January, April, and August 1978 (Smith and Herndon, 1980a, 1980b, 1980c). One of the results of that field work and other research (Glenn, 1978) was the selection of five major stations through which the transport of dissolved and suspended materials would be examined in detail. This report makes available data collected during the 1980 water year at those five stations, at 14 intervening stations, and at three stations near the mouth of the Potomac River in the Chesapeake Bay. This is the second in a series of three hydrologic data reports; one for each of three water years 1979 (Blanchard and Hahl, 1981), 1980 and 1981.

Dissolved and suspended material transported through the tidal Potomac River and Estuary passes through three distinctly different hydrodynamic zones (fig. 1). The tidal river zone contains fresh water and is strongly influenced by river flow but usually 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 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 (shown on fig 4.) drawn between Smith Point and Point Lookout at the mouth of the river. Data on dissolved and suspended material in water passing each sampling station during the 1980 water year are shown in Appendix D. These data are listed in downstream order starting with the Potomac River at Chain Bridge. Appropriate conversion factors are listed in Appendix C.

### 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

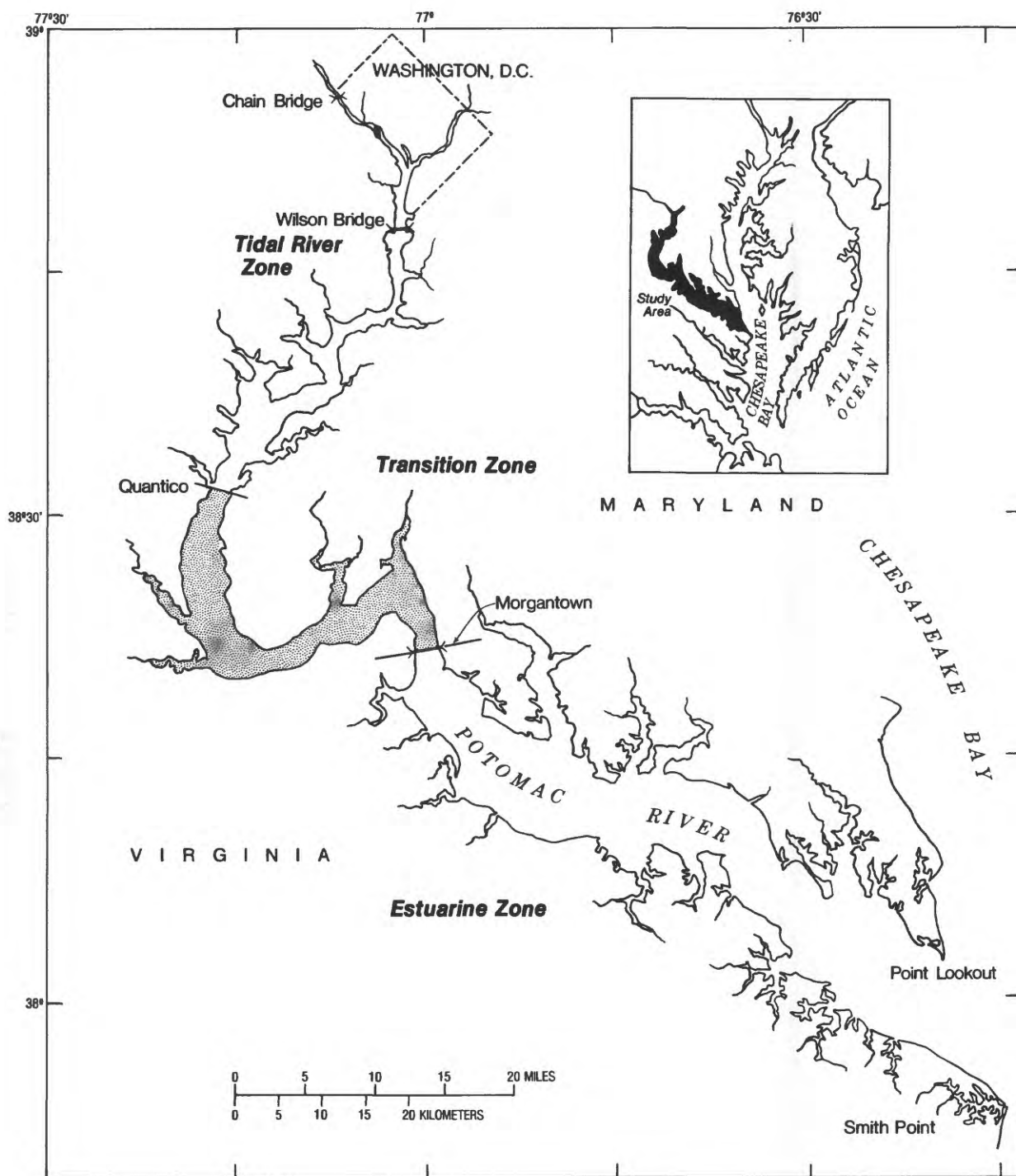


Figure 1.--Tidal Potomac River and Estuary

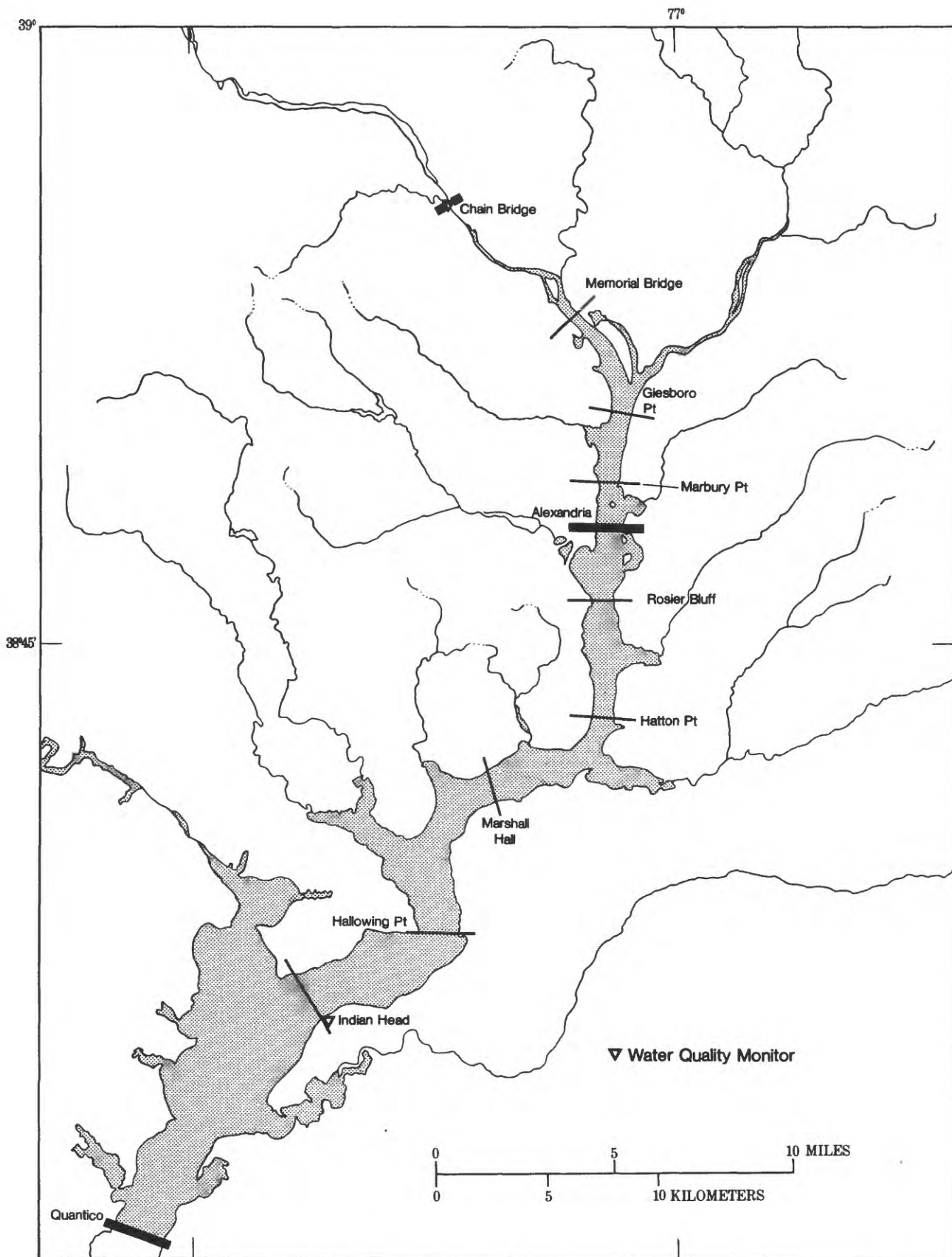


Figure 2.--Tidal river zone showing major sampling stations (wide lines) and intervening sampling stations (narrow lines)

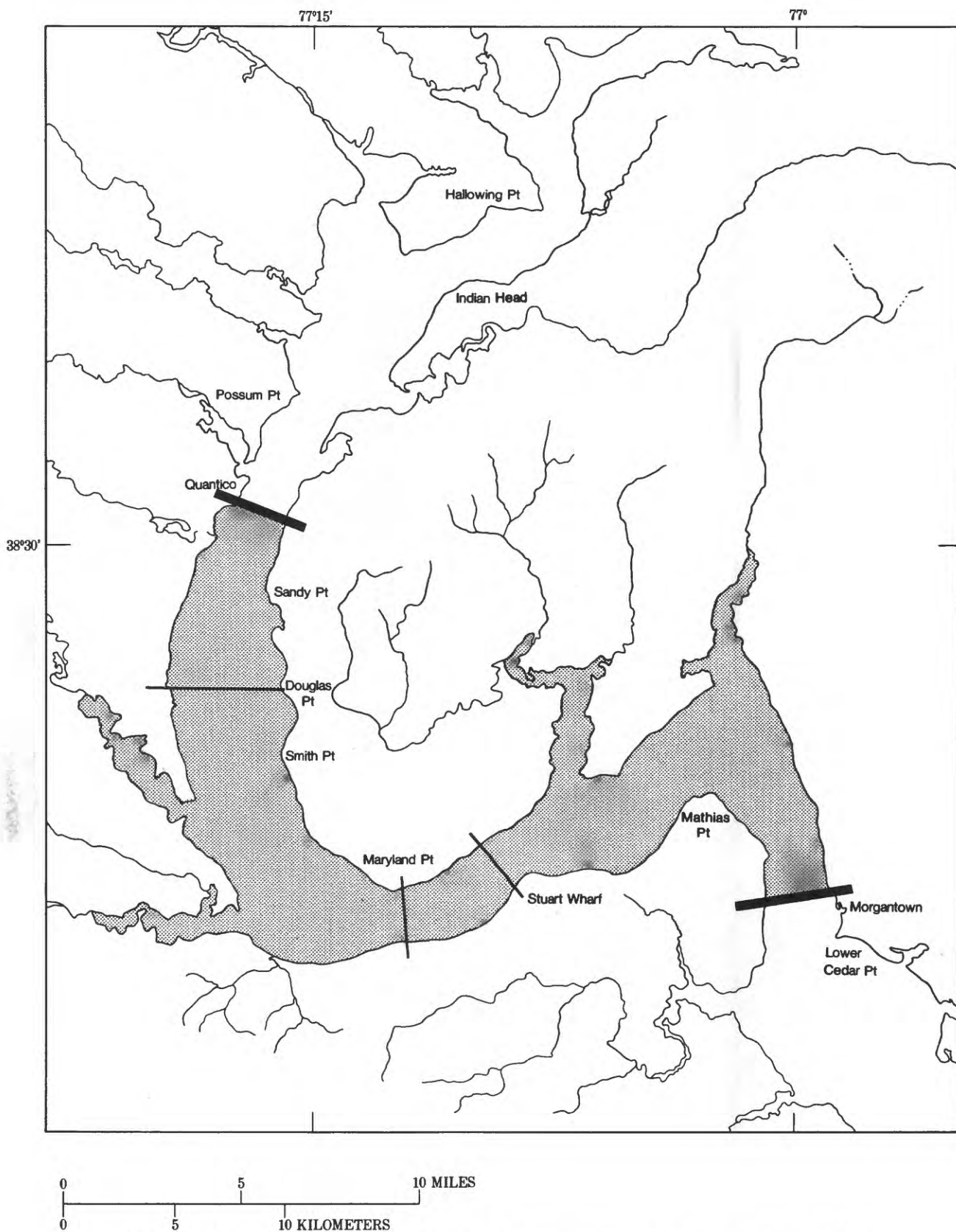


Figure 3.--Transition zone showing major sampling stations (wide lines) and intervening sampling stations (narrow lines)

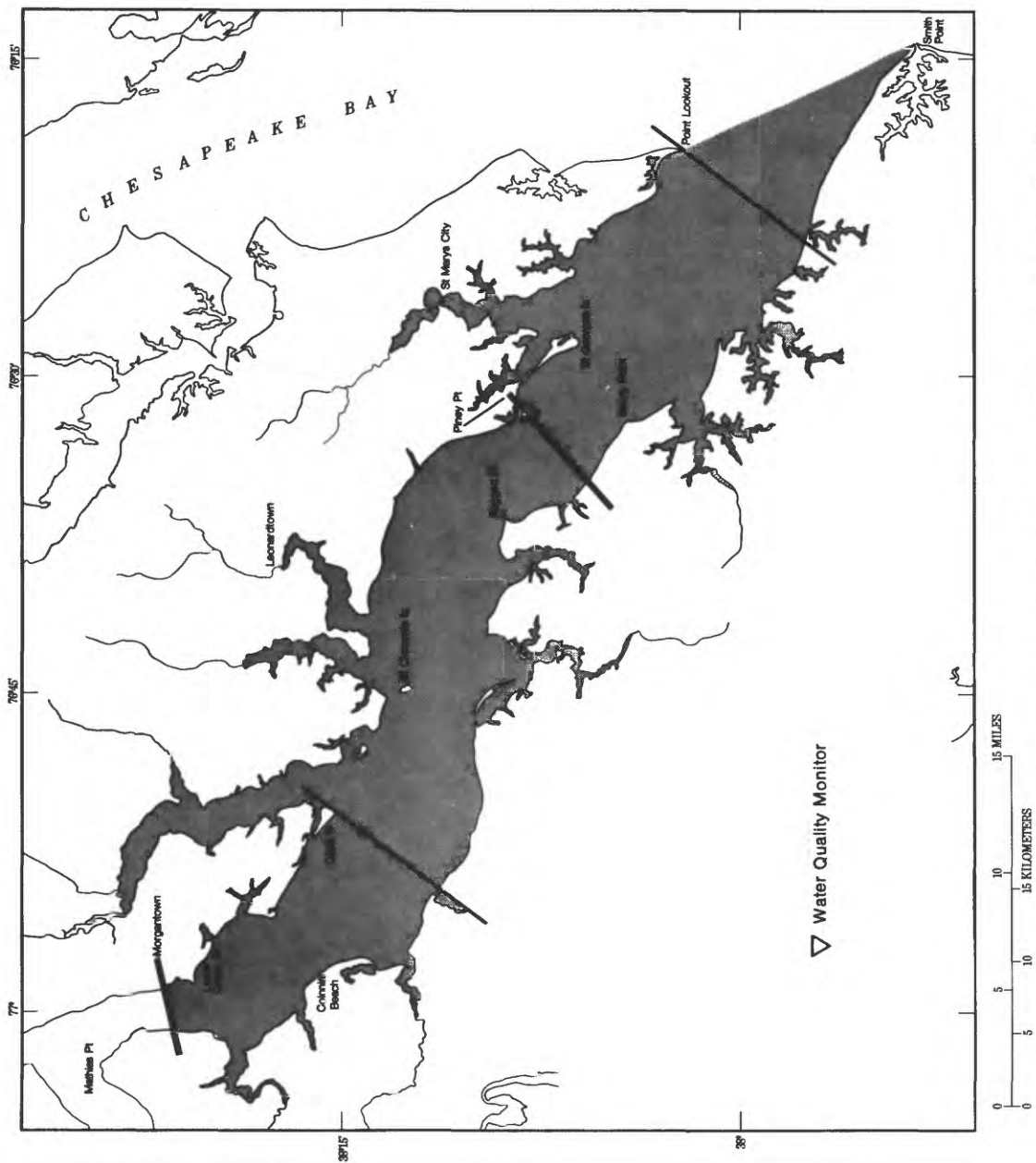


Figure 4.--Estuarine zone showing major sampling stations (wide lines) and intervening sampling stations (narrow lines)

# Major stations (cont'd)

Station number	Station name	River distance (kilometer)	Date activated	Zone
01658710	Potomac River at Quantico, Va.	125.6	October, 1978	Tidal river - transition boundary
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
384852077014000	Blue Plains Sewage Treatment Plant, 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



# Intervening stations (cont'd)

Station number	Station name	River distance (kilometer)	Zone
384136077054600	Potomac River at Marshall Hall, Md.	151.0	Tidal river
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
382124077122700	Potomac River at Maryland Point, Md.	103.5	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-Chesapeake boundary

## Chesapeake Bay stations

Station number	Station name	
380200076153000	Chesapeake Bay near Potomac River off Pt. Lookout, Md.	Lat.Long. 380200 0761530
380200076124100	Chesapeake Bay near Potomac River off Pt. Lookout, Md. Trench	Lat.Long. 380200 0761241
375248076094200	Chesapeake Bay near Potomac River off Smith Pt., Va.	Lat.Long. 375248 0760942

Samples were collected about twice each week at each of the five major stations. Samples were collected for sets of predicted tidal conditions such as (1) during periods of maximum flood velocity and the following high slack water and (2) during periods of the maximum ebb velocity and the following low slack water. At times, a third sample taken during the maximum flood velocity or ebb velocity was added to the sampling sequence. Thus, the twice

weekly sampling resulted in four to six samples each week at each major station. During periods of greatly increased river discharge the tidal sequence of sampling was discontinued in favor of sampling several times a day for each day the flow was increased. Predicted tidal currents and tidal stages for specific sampling times may be obtained from the National Ocean Survey's Tidal Current Tables (1978a, 1979a) and Tide Tables (1978b, 1979b). Relevant parts of these tables are reproduced in Appendix B. These predicted values do not always agree with actual conditions. Tidal stages were measured at Survey installations located on the Potomac River at:

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 National Center MS 430, Reston, VA., 22092 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.

To supplement 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 provide 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, 1981). The pyranometers were operated at Potomac River at Alexandria, Va., and Potomac River at Indian Head, Md. Eppley<sup>1/</sup> pyranometers (Model PSP) were mounted on roof tops free from surrounding obstacles. The millivolt signal was continuously recorded on Instrument Corporation of America strip chart recorders. The pyranometers were cleaned monthly and the recorders were zeroed and calibrated at the same time. 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 D.

<sup>1/</sup> 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 that are contained 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 field work successful.

## METHODS OF SAMPLE COLLECTION

A water-quality sample for both dissolved and suspended material analysis 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 effect velocities have on the suspended material at the sampling site and by designing the sampling scheme to account for the distribution of suspended material with depth 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, thereby compounding the problems of sample collection and complicating the computation of transported dissolved and suspended material. Superimposed on the semi-diurnal 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 instantaneous, 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 and temporally representative samples, two approaches were taken. (1) Samples were collected as quickly as possible from one to five verticals in the cross sections. The samples from each vertical were composited and kept mixed while aliquots were withdrawn for various types of analyses. (2) Pairs of samples were collected during each sampling trip with each sample of a pair representing a different predicted tidal condition.

Sampling at major stations.— Each zone of the tidal Potomac River 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 meters (m) wide; this constriction insures thorough mixing. During flooding, samplers cannot be submerged more than 3 m because water velocities are about 4.5 meters per second (m/s). Therefore, samples were collected from the intake line of the water-quality monitor. The intake was located 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. For the Potomac River at Alexandria, two channels exist and water is fresh and well mixed in each channel. However, the effluent from the Blue Plains sewage treatment plant does not influence the water quality in each channel equally. Therefore, separate depth-integrated samples were taken from each channel. At Quantico, the boundary between tidal river and transition zones, one channel exists and samples that represent the entire cross section were collected from this channel. For the periods when dissolved solids concentration was less than 2.0 parts per thousand (0/00) and no stratification existed, depth-integrated samples were collected; for periods when the dissolved solids concentration was greater than 2.0 parts per thousand, separate top and bottom samples were obtained. In the lower end of the transition zone and in the estuarine zone, specific conductance gradients exist in the water column. In order to obtain representative samples with these gradients in existence, separate top and bottom water column samples were collected. For the Potomac River at Morgantown, Md. samples were either composites of water collected at three locations in the cross section 1 m below the surface and a separate composite of water

collected at two locations in the cross section 1 m above the bottom or as separate point samples taken from the water column in the main channel.

In the estuarine part 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 adjacent major stations.

Sampling equipment.—Equipment for estuarine water quality sampling must be designed to handle unsteady and non-homogeneous flow conditions. These flow conditions require the use of several different types of samplers. The selection of samplers for a particular station was based on the flow characteristics of that station. The following paragraphs describe the samplers that were used.

The Niskin sampler (fig. 5) is an open cylinder having spring loaded stoppers at each end. The open sampler is lowered to the desired sampling depth; the stoppers are triggered and the captured water is then brought into the boat and distributed into the sample containers. These are point samplers, that are designed for use in still waters but 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 (0.08m).

The open bottle with a vent tube (fig. 5) was used to collect depth-integrated samples. This sampler consists of a weighted 4-l neoprene bottle that is capped. The cap has an 8-mm diameter hole in it and the bottle has a hole in its shoulder. The hole in the shoulder of the bottle 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 vent 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 about 0.3 m/s and may be used in flowing water if the sampling vessel is drifting with the current.

The pumping sampler (fig. 6) consists of an intake hose, a shipboard pump and a discharge hose. The discharge from the pump is first routed into a manifold, which contains sensors that measure pH, dissolved oxygen, specific conductance, and temperature and then through a tube from which samples may be collected. The pumping sampler is a point sampler and provides the opportunity to instantaneously evaluate changes in water quality with depth in order to determine the need to obtain additional samples. This sampler can be used to sample flowing or still waters. The only limitations are that an unshaded hose can influence water temperatures and dissolved oxygen values can be influenced if hose connections are allowed to leak air.

Samplers were designated for use at particular stations based on the dissolved solids content of the water column and on the vessel from which sampling was conducted.



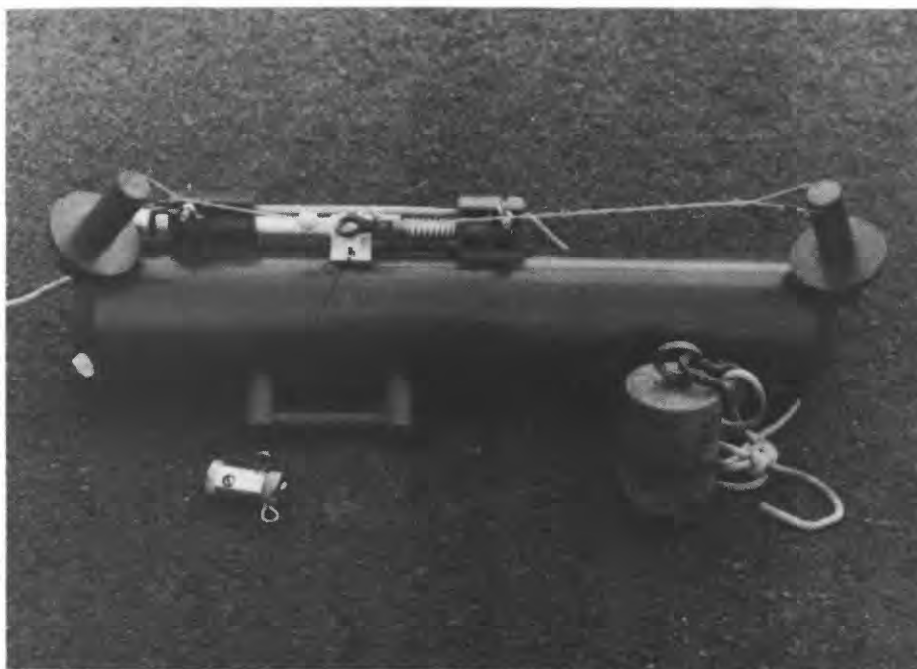


Figure 5.-- Niskin and open bottle samplers

In-situ measurements.— A Secchi disk was used to obtain water transparency measurements and a Hydrolab Digital 4041 (fig. 6) water-quality measurement system was used to measure specific conductance, pH, temperature, and dissolved oxygen. The water-quality measurement system was calibrated both before and after use and was checked periodically against laboratory standards. The Hydrolab measurements were made at points from 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 transport 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 ( $\mu$ ) filter. All samples analyzed for dissolved constituents were collected after 500 ml of sample were passed through a 142mm diameter, 0.45 $\mu$  Millipore type HA filter, using a peristaltic pump. Chlorophyll samples were filtered using a hand vacuum pump to draw water through a Whatman 42.5 mm diameter, glass fiber filter. The vacuum was kept less than 12.5 cm of mercury. Dissolved organic carbon samples were driven through a glass fiber filter. The glass fiber filters for organic carbon were baked at 450°C for four hours to reduce blanks.

Sample analyses.— Concentrations of silica, nitrogen, phosphorus, organic carbon, calcium, magnesium, manganese, sodium, alkalinity, sulfate, iron, potassium, fluoride, seston, algal growth potential, dissolved-solids residue and chloride reported herein were determined at the Atlanta Central Laboratory of the U. S. Geological Survey (USGS) by standard USGS procedures (Skougstad and others, 1979, and American Public Health Association and others, 1975). During the first week of the 1980 water year, all chlorophyll-a and pheophytin analyses were based on the spectrophotometric, acetone extraction method of Strickland and Parsons (1972). The remainder of the chlorophyll-a and pheophytin analyses were based on the fluorometric, acetone extraction method of Strickland and Parsons (1972). Both the spectrophotometric and fluorometric methods were altered by two modifications described by Holm-Hansen and Riemann (1978). (1) The use of magnesium carbonate during filtration was deleted and (2) HCL was added to bring the sample to a concentration of  $3 \times 10^{-3}$  M in the acidification step. Chlorophyll readings are reported as uncorrected chlorophyll-a, chlorophyll-a corrected for pheophytin, and pheophytin.



Figure 6.-- Pumping Sampler and Hydrolab Digital 4041 water-quality measurement system



Adenosine triphosphate (ATP) samples were taken as aliquots from the nutrient samples. One milliliter 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 determined on aliquots of water taken from the nutrient samples. The enumerations were based on the most probable number (MPN) method and procedures described by Greeson and others (1977).

Sediment sample aliquots were taken from the nutrient samples. Sediment concentrations were determined at the Harrisburg, Pa. sediment laboratory of the U.S. Geological Survey by standard USGS methods (Guy, 1962).

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

Table 1.- Methods of sample preservation

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

## 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, Stephen 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.
- 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.
- 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.
- Hutchison, 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.
- National Ocean Survey, 1978a, Tidal current tables 1979, Atlantic Coast of North America: National Ocean Survey, p. 62-63, 154, 155.
- \_\_\_\_\_, 1978b, Tide tables 1979, High and low water predictions, East Coast of North and South America: National Ocean Survey, p. 84-86, 223, 224.
- \_\_\_\_\_, 1979a, Tidal current tables 1980: National Ocean Survey, Atlantic Coast of North America, p. 64-68, 165, 166.
- \_\_\_\_\_, 1979b, Tide tables 1980, High and low water predictions, East Coast of North and South America, p. 84-86, 223, 224.
- Shultz, David J., and Stephens, Doyle 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 in-organic substances in water and fluvial sediments: U.S. Geol. Survey Techniques of Water-Resources Investigations, Book 5, Chap. A1, 1979, 626 p.

Smith, Richard E. and Herndon, Raynol 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, Doyle W., and Shultz, David 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.

U.S. Geological Survey, 1981, Water Resources Data for Maryland and Delaware, Water Year 1980: U.S. Geol. Survey Open-file Rept. MD-DE-80-1, 431 p.

## **APPENDIX A - Aids for using the data**

## APPENDIX A

### Aids for Using the Data

Time.- From October 28, 1979, at 0200 hours through April 27, 1980, at 0200 hours, the times are Eastern Standard Time. For all other periods during the 1980 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. Bottom composite samples at Potomac River at Stuart Wharf, Va. and Potomac River near Morgantown, Md. will appear in the data tables with depths of 27 feet and 55 feet respectively. At Stuart Wharf, the bottom samples were taken from locations in the cross-section with depths ranging from 15 feet to 30 feet and at Morgantown, the sample location depths ranged from 40 feet to 72 feet.

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 Washington, D.C.	1240	Mid-channel surface sample
Potomac River at Alexandria, Va.	3700	Coast Guard dock
	30,000	Maryland channel composite <sup>2/</sup>
	40,000	Virginia channel composite <sup>2/</sup>
Potomac River at Quantico, Va.	6900	Special Services dock at Quantico Marine Base
Any station	50,000	Composite

<sup>2/</sup> 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.

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

pH.- All of the pH values that appear in this report are, at the most, 0.5 units low due to a defect in the pH electrode.

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

Blue Plains sewage treatment plant.- The data from this station 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 is primary treated effluent and appears in the data tables with a time of 0001. The second outfall is secondary treated effluent and appears in the data tables with a time of 0002. All samples are 24 hour composite samples unless they appear with a time of day; these samples are instantaneous grab samples from the secondary treated outfall.

Parameter codes.- Each column heading in Appendix D has a number that is the parameter code used in the USGS National Water Data Storage and Retrieval System (WATSTORE) to reference parameters related to water quality (Hutchison, 1975).

Remarks.- The value for each parameter of water quality 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

Longitudinal sampling.- In general, each month a two to three day longitudinal sampling cruise was conducted between Potomac River at Memorial Bridge, Washington, D.C. and Chesapeake Bay. During the cruise samples were collected at all of the five major stations, the Chesapeake Bay stations and at most

of the 14 intervening stations. The dates of the longitudinal sampling cruises are listed below.

October 6-7, 1979  
December 18-20, 1979  
January 16-17, 1980  
February 18-19, 1980  
March 17-18, 1980

April 22-25, 1980  
May 19-20, 1980  
July 22-23, 1980  
August 18-19, 1980  
September 16-18, 1980



#### APPENDIX B-1.- Tidal current predictions

CHESAPEAKE BAY ENTRANCE, VA., 1979  
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 SA	0114 0540 1329 1920	0324 0957 1612 2254	0.5F 1.3E 1.0F 1.2E	16 SU	0300 0735 1503 2056	0514 1135 1754 2056	0.4F 1.3E 0.8F	1 M	0155 0638 1408 2001	0413 1045 1655 2333	0.7F 1.5E 1.1F 1.4E	16 TU	0311 0805 1520 2053	0533 1156 1802 2053	0.5F 1.3E 0.8F
2 SU	0216 0652 1429 2027	0429 1104 1717 2355	0.6F 1.5E 1.1F 1.3E	17 M	0347 0833 1552 2139	0605 1226 1839 2139	1.2E 0.5F 1.4E 0.9F	2 TU	0251 0754 1508 2058	0517 1148 1753 2058	0.9F 1.7E 1.2F	17 W	0350 0857 1604 2132	0616 1241 1839 2132	1.3E 0.7F 1.3E 0.8F
3 M	0313 0803 1526 2125	0533 1205 1817 2125	0.8F 1.7E 1.3F	18 TU	0426 0923 1635 2217	0651 1309 1918 2217	1.3E 0.6F 1.4E 0.9F	3 W	0343 0902 1604 2150	0618 1245 1850 2150	1.6E 1.1F 1.8E 1.4F	18 TH	0425 0942 1644 2205	0657 1322 1917 2205	1.3E 0.8F 1.4E 0.8F
4 TU	0404 0909 1620 2217	0632 1300 1910 2217	1.5E 1.0F 1.9E 1.4F	19 W	0500 1005 1713 2249	0728 1351 1953 2249	1.3E 0.7F 1.5E 0.9F	4 TH	0431 1003 1657 2237	0712 1339 1939 2237	1.3F 2.0E 1.4F	19 F	0457 1022 1721 2235	0732 1401 1950 2235	0.9F 1.5E 0.9F
5 W	0453 1009 1712 2305	0726 1352 2001 2305	1.7E 1.2F 2.0E 1.5F	20 TH	0532 1043 1749 2318	0801 1427 2026 2318	1.4E 0.8F 1.5E 0.9F	5 F	0518 1059 1747 2321	0801 1430 2027 2321	1.9E 1.5F 2.0E 1.4F	20 SA	0529 1059 1758 2303	0808 1437 2021 2303	1.4E 1.0F 1.5E 0.9F
6 TH	0540 1106 1803 2351	0818 1443 2050 2351	1.8E 1.3F 2.1E 1.6F	21 F	0603 1119 1824 2344	0835 1503 2055 2344	1.4E 0.9F 1.5E 0.9F	6 SA	0604 1152 1837 2321	0853 1519 2115 2321	2.0E 1.6F 2.0E 1.3F	21 SU	0601 1136 1834 2331	0841 1513 2056 2331	1.5E 1.1F 1.5E 0.9F
7 F	0627 1200 1853	0908 1535 2136	1.9E 1.4F 2.1E 1.6F	22 SA	0634 1153 1859	0906 1537 2127	1.4E 1.0F 1.5E 0.9F	7 SU	0604 1152 1837 2321	0853 1519 2115 2321	2.0E 1.6F 2.0E 1.3F	22 M	0634 1214 1911 2359	0916 1549 2130 2359	1.5E 1.1F 1.4E 0.8F
8 SA	0715 1254 1944	0957 1625 2224	1.9E 1.5F 2.0E 1.4F	23 SU	0706 1229 1935	0941 1610 2158	1.4E 1.0F 1.4E 0.9F	8 M	0738 1334 2019	1027 1659 2247	1.5F 1.7E 1.0F	23 TU	0710 1253 1951	0955 1627 2207	1.2F 1.4E 0.8F
9 SU	0804 1347 2037	1048 1718 2312	1.9E 1.4F 1.8E 1.2F	24 M	0740 1306 2013	1018 1647 2233	1.4E 1.0F 1.4E 0.8F	9 TU	0828 1425 2113	1116 1751 2334	1.8E 1.3F 1.5E 0.8F	24 W	0749 1336 2035	1035 1707 2250	1.2F 1.3E 0.7F
10 M	0855 1442 2133	1139 1811 2133	1.8E 1.3F 1.6E	25 TU	0818 1348 2056	1057 1726 2315	1.4E 1.0F 1.3E 0.7F	10 W	0920 1518 2211	1207 1846 2311	1.2F 1.3E	25 TH	0834 1423 2124	1118 1757 2335	1.2F 1.2E 0.7F
11 TU	0951 1541 2234	1233 1910 2234	1.6E 1.2F 1.4E	26 W	0901 1435 2144	1142 1813 2358	1.3E 1.0F 1.2E 0.7F	11 TH	0925 1517 2215	1207 1846 2311	1.2F 1.3E	26 F	0926 1517 2221	1213 1852 2221	1.1F 1.2E
12 W	1050 1644 2341	1334 2014 2341	1.5E 1.0F 1.2E	27 TH	0952 1529 2241	1233 1908 2241	1.3E 1.0F 1.1E	12 F	1020 1615 2315	1207 1846 2311	1.2F 1.3E	27 SA	1024 1618 2325	1217 1856 2325	1.1F 1.2E
13 TH	1155 1752	1440 2123	0.9F 1.1E	28 F	1050 1633 2345	1333 2015 2345	0.9F 1.1E	13 SA	1024 1615 2315	1207 1846 2311	1.2F 1.3E	28 SU	1024 1618 2325	1217 1856 2325	1.1F 1.2E
14 F	1302 1901	1549 2228	0.8F 1.1E	29 SA	1155 1744	1438 2126	0.9F 1.1E	14 SU	1024 1615 2315	1207 1846 2311	1.2F 1.3E	29 M	1024 1618 2325	1217 1856 2325	1.1F 1.2E
15 SA	1406 2003	1655 2330	0.8F 1.1E	30 SU	1303 1856	1547 2233	1.0F 1.2E	15 M	1024 1615 2315	1207 1846 2311	1.2F 1.3E	30 TU	1024 1618 2325	1217 1856 2325	1.1F 1.2E
												31 W	1024 1618 2325	1217 1856 2325	1.1F 1.2E

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



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

JANUARY								FEBRUARY							
DAY	SLACK WATER		MAXIMUM CURRENT		DAY	SLACK WATER		MAXIMUM CURRENT		DAY	SLACK WATER		MAXIMUM CURRENT		
	TIME	VEL.	TIME	VEL.		TIME	VEL.	TIME	VEL.		TIME	VEL.	TIME	VEL.	
	H.M.	KNOTS		H.M.	KNOTS		H.M.	KNOTS		H.M.	KNOTS		H.M.	KNOTS	
1 TU	0514 1124 1759 2244	0153 1.3F 1.5E 0.7F	16 W	0441 1044 1723 2207	0120 1.3F 1.4E 0.8F	1 F	0625 1221 1857 2347	0302 1.1F 1.4E 0.7F	16 SA	0556 1154 1828 2312	0235 1.6F 1.51E 2102	2.0E 1.6F 1.8E 1.2F			
2 W	0558 1207 1841 2324	0238 1.7E 1.3F 0.7F	17 TH	0526 1131 1807 2257	0205 1.8E 1.5E 0.9F	2 SA	0702 1252 1931	0340 1.1F 1.3E 0.8F	17 SU	0644 1238 1914	0325 1.6F 1.601 2149	2.1E 1.6F 1.8E 1.3F			
3 TH	0641 1246 1922	0318 1.7E 1.2F 0.7F	18 F	0612 1216 1852 2347	0250 1.9E 1.6F 1.0F	3 SU	0023 0739 1320 2006	0417 1.5E 1.0F 1.3E 0.8F	18 M	0035 0734 1322 2002	0414 1.021 1.646 2240	2.0E 1.6F 1.9E 1.4F			
4 F	0002 0722 1321 2002	0358 1.6E 1.2F 1.3E 0.7F	19 SA	0659 1301 1938	0339 1.9E 1.6F 1.7E 1.1F	4 M	0059 0817 1348 2042	0453 1.4E 1.0F 1.3E 0.8F	19 TU	0131 0825 1401 2052	0506 1.108 1.734 2331	2.0E 1.4F 1.8E 1.3F			
5 SA	0040 0803 1355 2042	0440 1.5E 1.1F 1.3E 0.6F	20 SU	0040 0748 1346 2027	0428 1.9E 1.6F 1.7E 1.1F	5 TU	0137 0856 1417 2122	0532 1.3E 0.9F 1.2E 0.7F	20 W	0226 0921 1450 2147	0600 1.157 1826	1.8E 1.2F 1.7E			
6 SU	0119 0845 1427 2124	0520 1.4E 1.0F 1.2E 0.6F	21 M	0134 0841 1432 2119	0518 1.9E 1.4F 1.7E 1.1F	6 W	0217 0939 1448 2205	0611 1.2E 0.8F 1.2E	21 TH	0325 1021 1531 2246	0701 1.250 1.924	1.2F 1.6E 1.0F 1.6E			
7 M	0200 0929 1501 2209	0603 1.3E 0.9F 1.1E	22 TU	0232 0937 1520 2214	0616 1.7E 1.3F 1.6E	7 TH	0302 1027 1522 2253	0658 1.1E 0.7F 1.1E	22 F	0431 1126 1626 2356	0803 1.349 2023	1.4E 0.8F 1.5E			
8 TU	0245 1016 1538 2258	0019 0.6F 1.2E 1.1E	23 W	0334 1037 1609 2315	0045 1.1F 1.6E 1.6E	8 F	0355 1121 1602 2346	0749 1.0E 0.6F 1.1E	23 SA	0543 1238 1724	0911 1.455 2129	1.2E 0.6F 1.4E			
9 W	0336 1109 1617 2350	0110 0.5F 1.1E 0.7F	24 TH	0444 1143 1702	0149 1.0F 1.4E 0.9F 1.5E	9 SA	0457 1222 1649	0853 1.0E 0.5F 1.1E	24 SU	0057 0658 1353 1828	0348 1.025 1.603 2236	0.9F 1.2E 0.5F 1.4E			
10 TH	0436 1206 1702	0203 0.5F 1.0E 0.6F 1.1E	25 F	0018 0600 1254 1759	0258 1.0F 1.3E 0.7F 1.5E	10 SU	0043 0608 1326 1745	0315 0.7F 1.0E 0.5F 1.2E	25 M	0204 0810 1501 1934	0457 1.132 1.712 2337	0.9F 1.2E 0.5F 1.4E			
11 F	0042 0543 1307 1750	0300 0.6F 1.0E 0.5F 1.1E	26 SA	0123 0717 1407 1859	0409 1.0F 1.3E 0.6F 1.5E	11 M	0140 0722 1427 1848	0418 1.105 1.634 2308	0.8F 1.0E 0.5F 1.3E	26 TU	0306 0911 1558 2036	0606 1.227 1814	0.9F 1.2E 0.5F		
12 SA	0134 0653 1406 1842	0402 0.7F 1.0E 0.5F 1.2E	27 SU	0225 0829 1514 1958	0517 1.0F 1.3E 0.6F 1.5E	12 TU	0236 0830 1522 1953	0521 1.0F 1.2E 0.6F	27 W	0359 1002 1644 2130	0633 0.657 1.316 1907	1.5E 1.0F 1.3E 0.6F			
13 SU	0224 0800 1502 1934	0501 0.8F 1.1E 0.6F 1.3E	28 M	0323 0931 1612 2054	0619 1.1F 1.3E 0.6F	13 W	0328 0928 1612 2055	0618 1.1F 1.3E 0.8F	28 TH	0446 1043 1722 2216	0739 1.401 1.945	1.5E 1.0F 1.3E 0.7F			
14 M	0311 0901 1552 2026	0553 1.0F 1.2E 0.6F	29 TU	0415 1024 1701 2144	0051 1.6E 1.1F 1.3E 0.6F	14 TH	0418 1021 1658 2153	0057 1.7E 1.3F 1.5E 0.9F	29 F	0528 1119 1756 2256	0205 0.816 1.438 2021	1.5E 1.0F 1.3E 0.7F			
15 TU	0356 0955 1639 2117	0033 1.5E 1.1F 1.3E 0.7F	30 W	0502 1109 1744 2229	0138 1.6E 1.2F 1.4E 0.7F	15 F	0507 1109 1743 2248	0146 1.9E 1.5F 1.7E 1.1F							
			31 TH	0545 1148 1822 2309	0223 1.6E 1.2F 1.4E 0.7F										

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



CHESAPEAKE BAY ENTRANCE, VA., 1980  
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	0006	0342	1.4E	16	0102	0421	1.7E	1	0111	0440	1.3E	16	0216	0538	1.4E
TH	0704	0918	0.8F	F	0740	1001	1.0F	SU	0802	1013	0.7F	M	0900	1112	0.7F
	1147	1540	1.4E		1235	1624	1.8E		1229	1630	1.5E		1336	1736	1.5E
	1859	2147	1.1F		1942	2237	1.5F		1957	2249	1.3F		2059	2345	1.1F
2	0043	0417	1.3E	17	0151	0510	1.6E	2	0156	0526	1.3E	17	0257	0627	1.3E
F	0742	0955	0.7F	SA	0832	1050	0.8F	M	0848	1102	0.7F	TU	0949	1158	0.6F
	1216	1609	1.4E		1318	1712	1.7E		1315	1715	1.5E		1422	1827	1.4E
	1935	2224	1.1F		2033	2326	1.3F		2045	2334	1.2F		2150		
3	0123	0456	1.3E	18	0240	0603	1.4E	3	0243	0613	1.3E	18		0032	0.9F
SA	0822	1032	0.7F	SU	0926	1138	0.7F	TU	0939	1150	0.7F	W	0338	0713	1.2E
	1250	1649	1.4E		1402	1803	1.5E		1408	1810	1.5E		1040	1249	0.5F
	2016	2305	1.1F		2125				2139				1512	1918	1.2E
4	0206	0542	1.2E	19		0014	1.1F	4		0027	1.2F	19		0118	0.8F
SU	0908	1115	0.6F	M	0329	0656	1.3E	W	0334	0708	1.3E	TH	0420	0804	1.1E
	1329	1732	1.4E		1023	1232	0.6F		1034	1249	0.7F		1133	1343	0.5F
	2103	2351	1.1F		1451	1859	1.4E		1509	1912	1.4E		1609	2015	1.1E
					2221				2238				2338		
5	0255	0630	1.2E	20		0108	1.0F	5		0125	1.1F	20		0209	0.7F
M	0959	1204	0.6F	TU	0419	0753	1.2E	TH	0428	0806	1.3E	F	0503	0855	1.1E
	1416	1823	1.4E		1122	1327	0.5F		1133	1350	0.7F		1226	1439	0.5F
	2157				1545	1957	1.2E		1620	2019	1.4E		1712	2113	1.1E
					2321				2343						
6		0042	1.1F	21		0204	0.8F	6		0226	1.0F	21	0036	0301	0.6F
TU	0349	0727	1.1E	W	0510	0851	1.1E	F	0525	0908	1.4E	SA	0549	0946	1.1E
	1056	1301	0.6F		1222	1427	0.4F		1233	1459	0.8F		1317	1535	0.5F
	1514	1924	1.3E		1649	2059	1.1E		1738	2128	1.4E		1817	2212	1.1E
	2258														
7		0143	1.0F	22		0023	0.7F	7		0050	0327	22	0134	0356	0.6F
W	0449	0828	1.2E	TH	0602	0946	1.1E	SA	0623	1009	1.5E	SU	0636	1038	1.2E
	1158	1409	0.6F		1319	1528	0.4F		1332	1605	0.9F		1406	1632	0.5F
	1624	2038	1.3E		1759	2201	1.1E		1857	2239	1.4E		1922	2307	1.1E
8	0003	0241	1.0F	23	0124	0400	0.6F	8	0156	0431	1.0F	23	0230	0450	0.6F
TH	0552	0934	1.3E	F	0652	1039	1.1E	SU	0720	1105	1.6E	M	0721	1127	1.2E
	1300	1516	0.7F		1409	1628	0.5F		1428	1711	1.1F		1450	1724	0.7F
	1745	2147	1.4E		1907	2257	1.1E		2010	2340	1.5E		2021		
9	0111	0354	1.0F	24	0221	0451	0.6F	9	0259	0533	1.0F	24		0002	1.1E
F	0655	1035	1.4E	SA	0739	1124	1.2E	M	0815	1202	1.7E	TU	0321	0537	0.6F
	1357	1625	0.8F		1453	1723	0.6F		1521	1812	1.3F		0805	1208	1.3E
	1905	2255	1.5E		2007	2350	1.2E		2116				1532	1812	0.9F
10	0215	0457	1.1F	25	0312	0538	0.6F	10		0041	1.6E	25		0047	1.2E
SA	0753	1133	1.6E	SU	0822	1209	1.3E	TU	0358	0628	1.0F	W	0409	0622	0.6F
	1451	1730	1.1F		1533	1806	0.7F		0907	1253	1.8E		0847	1251	1.4E
	2019	2359	1.6E		2100				1612	1906	1.4F		1612	1856	1.0F
11	0316	0555	1.1F	26		0035	1.2E	11		0135	1.6E	26		0133	1.3E
SU	0847	1221	1.7E	M	0359	0622	0.7F	W	0453	0720	1.0F	TH	0453	0706	0.6F
	1542	1821	1.3F		0900	1251	1.3E		0955	1342	1.9E		0927	1332	1.5E
	2124				1610	1847	0.9F		1702	1958	1.5F		1651	1939	1.1F
					2146				2310				2248		
12		0054	1.7E	27		0120	1.3E	12		0228	1.6E	27		0216	1.3E
M	0413	0650	1.2F	TU	0442	0700	0.7F	TH	0546	0808	0.9F	F	0534	0747	0.7F
	0937	1315	1.9E		0935	1328	1.4E		1042	1430	1.9E		1008	1411	1.6E
	1631	1920	1.4F		1646	1929	1.0F		1750	2046	1.5F		1731	2021	1.2F
	2224				2229								2331		
13	0506	0741	1.8E	28		0201	1.3E	13	0001	0317	1.6E	28		0257	1.4E
TU	1024	1403	2.0E	W	0522	0739	0.7F	F	0636	0857	0.9F	SA	0615	0828	0.7F
	1719	2011	1.6F		1008	1403	1.4E		1126	1516	1.9E		1049	1449	1.6E
	2319				1721	2005	1.1F		1837	2133	1.5F		1812	2103	1.3F
14		0247	1.8E	29		0240	1.3E	14	0048	0404	1.5E	29	0014	0338	1.4E
W	0558	0829	1.1F	TH	0601	0816	0.7F	SA	0724	0943	0.8F	SU	0657	0910	0.8F
	1109	1449	2.0E		1040	1437	1.5E		1209	1602	1.8E		1132	1530	1.7E
	1806	2100	1.6F		1756	2044	1.2F		1924	2217	1.4F		1855	2147	1.4F
					2349										
15	0011	0332	1.8E	30		0320	1.4E	15	0133	0453	1.5E	30	0057	0421	1.4E
TH	0649	0916	1.1F	F	0640	0853	0.7F	SU	0812	1027	0.7F	M	0740	0957	0.8F
	1152	1537	1.9E		1113	1512	1.5E		1252	1650	1.6E		1219	1618	1.7E
	1854	2148	1.6F		1833	2123	1.2F		2011	2302	1.2F		1941	2230	1.4F
				31	0030	0359	1.3E								
				SA	0720	0930	0.7F								
					1149	1549	1.5E								
					1913	2202	1.3F								

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



**CURRENT DIFFERENCES AND OTHER CONSTANTS**

No.	PLACE	POSITION		TIME DIFFERENCES		VELOCITY RATIOS		MAXIMUM CURRENTS			
		Lat.	Long.	Slack water	Maximum current	Maximum flood	Maximum ebb	Flood		Ebb	
								Direction (true)	Average velocity	Direction (true)	Average velocity
	<b>POTOMAC RIVER</b>										
	<i>Cornfield Point</i>			<i>h. m.</i>	<i>h. m.</i>			<i>deg.</i>	<i>knots</i>	<i>deg.</i>	<i>knots</i>
4020	1 mile south of-----	38 02	76 21	<i>Current irregular.</i>				310	0.5	130	0.5
4025	midchannel-----	38 01	76 21	+4 00	+4 00	0.5	0.4	280	0.5	110	0.6
4030	3.8 miles south of-----	37 59	76 21	+3 45	+3 45	0.7	0.4	315	0.7	100	0.6
4035	Fort Point, St. Marys River-----	38 08	76 27	<i>Current too weak and variable to be predicted.</i>							
4040	Yeocomic River entrance-----	38 02	76 31	<i>Current too weak and variable to be predicted.</i>							
	<i>Pinney Point</i>										
4045	0.2 mile south of-----	38 08	76 32	+3 00	+3 00	1.3	0.7	280	1.3	145	0.6
4050	midchannel-----	38 07	76 32	+3 45	+3 45	0.4	0.4	290	0.4	150	0.6
4055	2.2 miles south of-----	38 06	76 33	+3 00	+3 00	0.5	0.3	280	0.5	130	0.5
4060	Lower Machodoc Creek entrance-----	38 09	76 39	<i>Current too weak and variable to be predicted.</i>							
4065	White Point, Nomini Creek entrance-----	38 08	76 43	+3 35	+3 35	1.2	0.8	155	1.2	335	1.2
4070	Bretton Bay entrance-----	38 14	76 42	+2 20	+2 20	0.6	0.3	030	0.6	200	0.4
4075	St. Clements Bay entrance-----	38 14	76 44	<i>Current too weak and variable to be predicted.</i>							
4080	St. Clements I., 1.8 miles SE. of-----	38 12	76 42	+4 45	+4 45	0.4	0.6	250	0.4	085	0.9
4085	St. Clements I., 1.1 miles SW. of-----	38 12	76 46	+4 40	+4 45	0.6	0.5	280	0.6	100	0.8
4090	Rock Point, Wicomico River entrance-----	38 16	76 49	+3 30	+3 30	0.5	0.4	020	0.5	175	0.6
4095	Swan Point-----	38 16	76 57	+6 25	+6 25	0.3	0.5	350	0.3	140	0.8
4100	Dahlgren Harbor Channel-----	38 19	77 02	<i>Current too weak and variable to be predicted.</i>							
4105	Upper Machodoc Creek entrance-----	38 19	77 02	<i>Current irregular.</i>				270	0.3	090	0.3
4110	Persimmon Point-----	38 22	76 59	+7 10	+7 10	1.2	0.9	335	1.2	175	1.4
4115	Potomac River Bridge, 0.4 mile S. of-----	38 21	76 59	+7 05	+7 10	0.9	0.9	000	0.9	165	1.4
4120	Chapel Point, Port Tobacco River-----	38 28	77 02	<i>Current too weak and variable to be predicted.</i>							
4125	Maryland Point-----	38 21	77 12	+7 15	+7 15	1.1	0.9	270	1.1	080	1.4
4130	Quantico-----	38 32	77 17	+7 25	+7 25	0.7	0.6	020	0.7	200	0.9
4135	Quantico Creek entrance-----	38 32	77 17	+7 00	+7 00	0.5	0.3	305	0.5	115	0.5
4140	Freestone Point, 2.3 miles east of-----	38 36	77 12	+8 25	+8 30	0.7	0.5	030	0.7	230	0.7
4145	Hallowing Point-----	38 39	77 08	+8 30	+8 20	1.1	0.7	345	1.1	150	1.1
4150	Jones Point, Alexandria-----	38 48	77 02	+9 00	+8 35	1.0	0.6	350	1.0	170	0.9
4155	Hains Point-----	38 51	77 01	+8 50	+8 40	0.6	0.2	000	0.6	175	0.3
4160	Anacostia River entrance-----	38 52	77 01	<i>Current too weak and variable to be predicted.</i>							
4165	South Capitol Street Bridge-----	38 52	77 00	<i>Current too weak and variable to be predicted.</i>							
4170	Washington Channel, Washington, D.C-----	38 52	77 01	<i>Current too weak and variable to be predicted.</i>							
4175	Virginia Channel, Washington, D.C-----	38 52	77 02							145	0.6



**APPENDIX B-2.- High and low water predictions**

## WASHINGTON, D.C., 1979

## TIMES AND HEIGHTS OF HIGH AND LOW WATERS

OCTOBER						NOVEMBER						DECEMBER					
DAY	TIME	HT.	DAY	TIME	HT.	DAY	TIME	HT.	DAY	TIME	HT.	DAY	TIME	HT.	DAY	TIME	HT.
	h.m.	ft.		h.m.	ft.		h.m.	ft.		h.m.	ft.		h.m.	ft.		h.m.	ft.
1	0243	3.2	16	0426	2.7	1	0444	3.0	16	0527	2.6	1	0014	-0.5	16	0004	0.0
M	1027	0.5	TU	1116	0.2	TH	1153	-0.1	F	1157	0.1	SA	0527	2.5	SU	0532	2.3
	1530	2.9		1658	2.7		1711	3.1		1743	2.8		1222	-0.5		1157	-0.1
	2234	0.4		2330	0.3								1748	2.8		1733	2.7
2	0352	3.2	17	0516	2.8	2	0028	-0.2	17	0038	0.1	2	0110	-0.6	17	0055	-0.1
TU	1124	0.4	W	1201	0.2	F	0541	3.0	SA	0610	2.6	SU	0622	2.5	M	0614	2.4
	1634	3.1		1744	2.8		1246	-0.3		1241	0.1		1315	-0.6		1246	-0.1
	2339	0.2					1806	3.2		1817	2.9		1838	2.9		1813	2.8
3	0458	3.3	18	0020	0.3	3	0124	-0.4	18	0125	0.1	3	0203	-0.7	18	0145	-0.1
W	1218	0.1	TH	0601	2.9	SA	0637	3.0	SU	0647	2.7	M	0711	2.5	TU	0652	2.5
	1731	3.3		1244	0.2		1336	-0.4		1323	0.1		1404	-0.6		1334	-0.1
				1825	3.0		1854	3.3		1849	3.0		1925	2.9		1854	3.0
4	0041	0.0	19	0107	0.3	4	0216	-0.5	19	0212	0.1	4	0253	-0.7	19	0231	-0.2
TH	0557	3.4	F	0642	3.0	SU	0729	3.0	M	0724	2.7	TU	0802	2.5	W	0731	2.5
	1311	0.0		1325	0.2		1425	-0.4		1405	0.1		1452	-0.6		1423	-0.2
	1825	3.4		1859	3.1		1944	3.3		1924	3.1		2011	2.9		1936	3.1
5	0137	-0.2	20	0152	0.3	5	0309	-0.5	20	0254	0.1	5	0339	-0.7	20	0316	-0.2
F	0651	3.5	SA	0719	3.0	M	0817	3.0	TU	0758	2.8	W	0848	2.5	TH	0814	2.6
	1400	-0.2		1400	0.3		1513	-0.4		1445	0.1		1537	-0.5		1510	-0.2
	1915	3.6		1927	3.2		2031	3.3		1958	3.2		2055	2.8		2020	3.1
6	0231	-0.3	21	0236	0.3	6	0358	-0.5	21	0339	0.1	6	0424	-0.6	21	0402	-0.3
SA	0743	3.5	SU	0754	3.0	TU	0906	2.9	W	0835	2.8	TH	0934	2.4	F	0856	2.6
	1449	-0.3		1438	0.3		1600	-0.4		1527	0.1		1621	-0.4		1600	-0.3
	2004	3.6		1956	3.3		2117	3.2		2038	3.3		2139	2.7		2106	3.1
7	0324	-0.3	22	0318	0.3	7	0446	-0.4	22	0422	0.1	7	0507	-0.5	22	0448	-0.4
SU	0835	3.4	M	0826	3.0	W	0955	2.8	TH	0915	2.8	F	1022	2.3	SA	0942	2.7
	1537	-0.3		1515	0.3		1646	-0.3		1613	0.1		1705	-0.3		1651	-0.3
	2051	3.6		2026	3.3		2204	3.0		2121	3.2		2224	2.6		2155	3.0
8	0415	-0.3	23	0400	0.4	8	0534	-0.3	23	0507	0.1	8	0549	-0.4	23	0534	-0.4
M	0924	3.3	TU	0859	3.0	TH	1045	2.6	F	0958	2.8	SA	1107	2.3	SU	1033	2.6
	1624	-0.3		1552	0.4		1731	-0.2		1702	0.1		1749	-0.3		1747	-0.3
	2140	3.5		2100	3.4		2252	2.9		2209	3.2		2310	2.5		2250	2.9
9	0507	-0.3	24	0443	0.4	9	0621	-0.2	24	0555	0.1	9	0632	-0.3	24	0623	-0.4
TU	1017	3.1	W	0935	3.0	F	1139	2.5	SA	1048	2.7	SU	1158	2.2	M	1126	2.6
	1711	-0.2		1631	0.4		1821	-0.1		1755	0.1		1835	-0.2		1842	-0.4
	2229	3.3		2141	3.4		2344	2.7		2302	3.0					2347	2.7
10	0558	-0.2	25	0525	0.5	10	0709	-0.1	25	0645	0.0	10	0002	2.4	25	0715	-0.5
W	1110	2.9	TH	1017	2.9	SA	1235	2.4	SU	1139	2.7	M	0714	-0.3	TU	1224	2.5
	1800	-0.1		1713	0.4		1912	0.0		1853	0.1		1248	2.2		1945	-0.4
	2322	3.1		2226	3.4					2358	2.9		1925	-0.1			
11	0650	0.0	26	0613	0.5	11	0040	2.6	26	0740	0.0	11	0058	2.3	26	0048	2.5
TH	1206	2.7	F	1103	2.9	SU	0759	0.0	M	1240	2.6	TU	0757	-0.2	W	0811	-0.5
	1850	0.0		1803	0.4		1335	2.4		1955	0.0		1343	2.2		1325	2.5
				2317	3.3		2005	0.1					2019	0.0		2048	-0.4
12	0019	2.9	27	0704	0.5	12	0145	2.5	27	0103	2.7	12	0159	2.2	27	0159	2.3
F	0744	0.1	SA	1155	2.8	M	0846	0.0	TU	0835	-0.1	W	0840	-0.2	TH	0908	-0.5
	1309	2.6		1859	0.4		1435	2.4		1344	2.6		1435	2.3		1431	2.4
	1944	0.2					2100	0.2		2103	-0.1		2115	0.0		2154	-0.5
13	0120	2.8	28	0012	3.1	13	0246	2.4	28	0212	2.6	13	0257	2.2	28	0309	2.2
SA	0839	0.2	SU	0801	0.5	TU	0936	0.1	W	0933	-0.2	TH	0930	-0.1	F	1007	-0.5
	1411	2.5		1256	2.8		1528	2.5		1452	2.6		1527	2.3		1536	2.4
	2039	0.2		2004	0.4		2157	0.2		2209	-0.2		2213	0.0		2258	-0.6
14	0225	2.7	29	0115	3.0	14	0345	2.5	29	0323	2.5	14	0354	2.2	29	0413	2.1
SU	0934	0.2	M	0900	0.4	W	1024	0.1	TH	1032	-0.3	F	1019	-0.1	SA	1106	-0.6
	1512	2.5		1402	2.8		1619	2.6		1555	2.7		1610	2.4		1636	2.4
	2138	0.3		2113	0.3		2254	0.2		2314	-0.3		2309	0.0		2359	-0.6
15	0330	2.7	30	0224	2.9	15	0439	2.5	30	0429	2.5	15	0445	2.2	30	0514	2.1
M	1026	0.2	TU	1000	0.2	TH	1113	0.1	F	1129	-0.4	SA	1108	-0.1	SU	1203	-0.6
	1607	2.6		1511	2.8		1703	2.7		1654	2.8		1654	2.6		1732	2.5
	2235	0.3		2223	0.2		2347	0.1									
			31	0338	2.9										31	0054	-0.7
			W	1058	0.1										M	0609	2.1
				1614	3.0											1255	-0.6
				2327	0.0											1822	2.5

TIME MERIDIAN 75° W. 0000 IS MIDNIGHT. 1200 IS NOON.  
HEIGHTS ARE REFERRED TO MEAN LOW WATER WHICH IS THE CHART DATUM OF SOUNDINGS.

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

JANUARY								FEBRUARY								MARCH								
DAY	TIME		HEIGHT		DAY	TIME		HEIGHT		DAY	TIME		HEIGHT		DAY	TIME		HEIGHT		DAY	TIME		HEIGHT	
	h.m.	ft. m.	ft.	m.		h.m.	ft. m.	ft.	m.		h.m.	ft. m.	ft.	m.		h.m.	ft. m.	ft.	m.		h.m.	ft. m.	ft.	m.
1	0148	-0.7	-0.2		16	0119	-0.2	-0.1		1	0256	-0.6	-0.2		16	0227	-0.3	-0.1		16	0157	-0.3	-0.1	
TU	0658	2.1	0.6		W	0623	2.4	0.7		F	0814	2.2	0.7		SA	0731	2.9	0.9		SU	0708	3.3	1.0	
	1345	-0.6	-0.2			1310	-0.3	-0.1			1457	-0.5	-0.2			1438	-0.5	-0.2			1422	-0.4	-0.1	
	1910	2.5	0.8			1830	2.9	0.9			2019	2.4	0.7			1951	3.2	1.0			1934	3.3	1.0	
2	0236	-0.7	-0.2		17	0207	-0.3	-0.1		2	0334	-0.5	-0.2		17	0314	-0.6	-0.2		2	0303	-0.2	-0.1	
W	0745	2.1	0.6		TH	0709	2.5	0.8		SA	0852	2.3	0.7		SU	0819	3.0	0.9		SU	0827	2.6	0.8	
	1431	-0.6	-0.2			1401	-0.4	-0.1			1539	-0.4	-0.1			1531	-0.6	-0.2			1516	-0.5	-0.2	
	1954	2.5	0.8			1918	3.0	0.9			2059	2.5	0.8			2042	3.2	1.0			2039	2.6	0.8	
3	0320	-0.7	-0.2		18	0254	-0.4	-0.1		3	0411	-0.5	-0.2		18	0402	-0.7	-0.2		3	0337	-0.2	-0.1	
TH	0831	2.2	0.7		F	0754	2.6	0.8		SU	0929	2.3	0.7		M	0909	3.1	0.9		M	0900	2.6	0.8	
	1517	-0.5	-0.2			1454	-0.5	-0.2			1618	-0.3	-0.1			1623	-0.7	-0.2			1555	-0.1	0.0	
	2035	2.5	0.8			2005	3.1	0.9			2138	2.5	0.8			2134	3.1	0.9			2116	2.7	0.8	
4	0402	-0.7	-0.2		19	0340	-0.5	-0.2		4	0443	-0.4	-0.1		19	0448	-0.7	-0.2		4	0409	-0.1	0.0	
F	0915	2.2	0.7		SA	0840	2.7	0.8		M	1005	2.4	0.7		TU	0958	3.1	0.9		TU	0927	2.7	0.8	
	1559	-0.5	-0.2			1545	-0.6	-0.2			1657	-0.3	-0.1			1718	-0.7	-0.2			1633	0.0	0.0	
	2118	2.5	0.8			2056	3.1	0.9			2217	2.4	0.7			2227	3.0	0.9			2148	2.6	0.8	
5	0441	-0.6	-0.2		20	0426	-0.6	-0.2		5	0517	-0.3	-0.1		20	0536	-0.7	-0.2		5	0441	0.0	0.0	
SA	0956	2.2	0.7		SU	0928	2.8	0.9		TU	1038	2.4	0.7		W	1048	3.0	0.9		W	0958	2.8	0.9	
	1640	-0.4	-0.1			1638	-0.6	-0.2			1738	-0.2	-0.1			1811	-0.7	-0.2			1713	0.0	0.0	
	2200	2.4	0.7			2148	3.0	0.9			2254	2.4	0.7			2323	2.8	0.9			2224	2.6	0.8	
6	0518	-0.5	-0.2		21	0513	-0.7	-0.2		6	0549	-0.3	-0.1		21	0627	-0.6	-0.2		6	0513	0.1	0.0	
SU	1038	2.2	0.7		M	1015	2.8	0.9		W	1112	2.4	0.7		TH	1144	2.9	0.9		TH	1028	2.8	0.9	
	1722	-0.3	-0.1			1732	-0.6	-0.2			1819	-0.1	0.0			1909	-0.6	-0.2			1752	0.1	0.0	
	2243	2.3	0.7			2240	2.8	0.9			2336	2.3	0.7								2302	2.6	0.8	
7	0555	-0.4	-0.1		22	0602	-0.7	-0.2		7	0626	-0.2	-0.1		22	0023	2.5	0.8		7	0547	0.1	0.0	
M	1120	2.2	0.7		TU	1110	2.7	0.8		TH	1150	2.4	0.7		F	0719	-0.5	-0.2		F	1105	2.8	0.9	
	1805	-0.3	-0.1			1829	-0.6	-0.2			1904	0.0	0.0			1242	2.7	0.8			1835	0.2	0.1	
	2328	2.3	0.7			2337	2.6	0.8							2009	-0.5	-0.2			2342	2.5	0.8		
8	0632	-0.4	-0.1		23	0653	-0.7	-0.2		8	0021	2.2	0.7		23	0127	2.3	0.7		8	0625	0.2	0.1	
TU	1202	2.2	0.7		W	1206	2.6	0.8		F	0704	-0.1	0.0		SA	0817	-0.4	-0.1		SA	1150	2.8	0.9	
	1850	-0.2	-0.1			1928	-0.6	-0.2			1234	2.4	0.7			1344	2.5	0.8			1924	0.3	0.1	
											1954	0.1	0.0			2112	-0.4	-0.1						
9	0016	2.2	0.7		24	0038	2.4	0.7		9	0112	2.2	0.7		24	0235	2.2	0.7		9	0032	2.4	0.7	
W	0709	-0.3	-0.1		TH	0746	-0.7	-0.2		SA	0751	0.0	0.0		SU	0917	-0.3	-0.1		SU	0712	0.3	0.1	
	1246	2.2	0.7			1305	2.5	0.8			1321	2.5	0.8			1452	2.4	0.7			1237	2.8	0.9	
	1941	-0.1	0.0			2031	-0.6	-0.2			2051	0.2	0.1			2216	-0.4	-0.1			2016	0.4	0.1	
10	0109	2.1	0.6		25	0144	2.2	0.7		10	0207	2.1	0.6		25	0340	2.1	0.6		10	0124	2.4	0.7	
TH	0751	-0.2	-0.1		F	0842	-0.6	-0.2		SU	0842	0.0	0.0		M	1018	-0.3	-0.1		M	0805	0.3	0.1	
	1333	2.2	0.7			1409	2.4	0.7			1416	2.5	0.8			1559	2.3	0.7			1333	2.8	0.9	
	2035	0.0	0.0			2134	-0.5	-0.2			2154	0.2	0.1			2317	-0.3	-0.1			2119	0.4	0.1	
11	0206	2.1	0.6		26	0251	2.1	0.6		11	0307	2.1	0.6		26	0441	2.1	0.6		11	0225	2.4	0.7	
F	0838	-0.2	-0.1		SA	0941	-0.6	-0.2		M	0939	0.1	0.0		TU	1118	-0.2	-0.1		TU	0907	0.3	0.1	
	1423	2.3	0.7			1516	2.3	0.7			1514	2.6	0.8			1658	2.3	0.7			1435	2.8	0.9	
	2133	0.0	0.0			2239	-0.5	-0.2			2256	0.1	0.0								2221	0.4	0.1	
12	0304	2.0	0.6		27	0359	2.0	0.6		12	0407	2.2	0.7		27	0012	-0.4	-0.1		12	0330	2.5	0.8	
SA	0929	-0.1	0.0		SU	1042	-0.5	-0.2		TU	1044	0.0	0.0		W	0535	2.2	0.7		W	1019	0.3	0.1	
	1514	2.3	0.7			1619	2.3	0.7			1613	2.7	0.8			1215	-0.2	-0.1			1542	2.9	0.9	
	2233	0.0	0.0			2341	-0.6	-0.2			2354	0.0	0.0			1753	2.4	0.7			2321	0.2	0.1	
13	0400	2.1	0.6		28	0500	2.0	0.6		13	0503	2.4	0.7		28	0102	-0.4	-0.1		13	0431	2.7	0.8	
SU	1023	-0.1	0.0		M	1141	-0.5	-0.2		W	1149	-0.1	0.0		TH	0625	2.3	0.7		TH	1125	0.1	0.0	
	1604	2.5	0.8			1715	2.3	0.7			1712	2.8	0.9			1307	-0.2	-0.1			1647	3.0	0.9	
	2333	0.0	0.0												1838	2.4	0.7							
14	0451	2.1	0.6		29	0038	-0.6	-0.2		14	0048	-0.1	0.0		29	0146	-0.3	-0.1		14	0017	0.1	0.0	
M	1119	-0.1	0.0		TU	0553	2.0	0.6		TH	0554	2.5	0.8		F	0710	2.4	0.7		F	0526	2.9	0.9	
	1653	2.6	0.8			1236	-0.5	-0.2			1249	-0.2	-0.1			1353	-0.2	-0.1			1229	0.0	0.0	
						1809	2.3	0.7			1807	3.0	0.9			1921	2.5	0.8			1745	3.1	0.9	
15	0027	-0.1	0.0		30	0128	-0.6	-0.2		15	0137	-0.3	-0.1							15	0108	-0.1	0.0	
TU	0537	2.2	0.7		W	0643	2.0	0.6		F	0644	2.7	0.8							SA	0620	3.1	0.9	
	1215	-0.2	-0.1			1327	-0.5	-0.2			1343	-0.4	-0.1								1326	-0.2	-0.1	
	1741	2.8	0.9			1855	2.4	0.7			1900	3.1	0.9								1842	3.2	1.0	
					31	0215	-0.6	-0.2																
					TH	0729	2.1	0.6																
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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	0301	0.2	0.1	16	0309	-0.3	-0.1	1	0301	0.4	0.1	16	0334	-0.2	-0.1	1	0356	0.5	0.2	
TU	0824	3.0	0.9	W	0824	3.7	1.1	TH	0817	3.3	1.0	F	0852	3.5	1.1	SU	0903	3.5	1.1	
	1532	0.1	0.0		1552	-0.5	-0.2		1551	0.3	0.1		1626	-0.3	-0.1		1651	0.4	0.1	
	2050	2.8	0.9		2102	3.2	1.0		2057	2.9	0.9		2134	3.0	0.9		2145	2.9	0.9	
2	0334	0.2	0.1	17	0358	-0.3	-0.1	2	0338	0.5	0.2	17	0425	-0.1	0.0	2	0441	0.6	0.2	
W	0853	3.1	0.9	TH	0914	3.6	1.1	F	0849	3.4	1.0	SA	0940	3.4	1.0	M	0947	3.5	1.1	
	1612	0.2	0.1		1643	-0.4	-0.1		1630	0.4	0.1		1715	-0.3	-0.1		1736	0.4	0.1	
	2122	2.8	0.9		2154	3.1	0.9		2130	2.9	0.9		2228	2.9	0.9		2229	3.0	0.9	
3	0408	0.3	0.1	18	0447	-0.2	-0.1	3	0415	0.6	0.2	18	0513	0.0	0.0	3	0531	0.5	0.2	
TH	0921	3.2	1.0	F	1003	3.4	1.0	SA	0925	3.4	1.0	SU	1030	3.2	1.0	TU	1035	3.4	1.0	
	1651	0.3	0.1		1736	-0.4	-0.1		1712	0.5	0.2		1804	-0.2	-0.1		1821	0.3	0.1	
	2156	2.8	0.9		2248	3.0	0.9		2206	2.9	0.9		2322	2.8	0.9		2318	3.0	0.9	
4	0441	0.4	0.1	19	0536	-0.1	0.0	4	0457	0.6	0.2	19	0605	0.1	0.0	4	0623	0.5	0.2	
F	0954	3.2	1.0	SA	1054	3.2	1.0	SU	1006	3.4	1.0	M	1123	3.0	0.9	W	1128	3.3	1.0	
	1731	0.4	0.1		1827	-0.3	-0.1		1754	0.5	0.2		1853	-0.1	0.0		1909	0.3	0.1	
	2230	2.8	0.9		2344	2.8	0.9		2248	2.9	0.9									
5	0518	0.5	0.2	20	0629	0.0	0.0	5	0542	0.6	0.2	20	0019	2.7	0.8	5	0013	3.0	0.9	
SA	1032	3.2	1.0	SU	1149	1.0	0.9	M	1051	3.4	1.0	TU	0656	0.2	0.1	TH	0724	0.5	0.2	
	1813	0.5	0.2		1922	-0.1	0.0		1839	0.5	0.2		1219	2.8	0.9		1226	3.2	1.0	
	2312	2.7	0.8						2337	2.9	0.9		1942	0.0	0.0		2000	0.3	0.1	
6	0558	0.5	0.2	21	0045	2.6	0.8	6	0633	0.6	0.2	21	0116	2.6	0.8	6	0112	3.0	0.9	
SU	1117	3.2	1.0	M	0725	0.1	0.0	TU	1142	3.3	1.0	W	0751	0.3	0.1	F	0828	0.4	0.1	
	1858	0.5	0.2		1250	2.8	0.9		1929	0.5	0.2		1319	2.7	0.8		1330	3.0	0.9	
	2358	2.7	0.8		2018	0.0	0.0						2030	0.1	0.0		2055	0.2	0.1	
7	0645	0.6	0.2	22	0149	2.6	0.8	7	0032	2.9	0.9	22	0216	2.7	0.8	7	0215	3.1	0.9	
M	1207	3.1	0.9	TU	0822	0.2	0.1	W	0730	0.6	0.2	TH	0847	0.4	0.1	SA	0934	0.3	0.1	
	1951	0.6	0.2		1354	2.7	0.8		1243	3.2	1.0		1424	2.6	0.8		1440	2.9	0.9	
					2112	0.1	0.0		2023	0.5	0.2		2118	0.2	0.1		2151	0.1	0.0	
8	0053	2.7	0.8	23	0251	2.6	0.8	8	0133	2.9	0.9	23	0311	2.7	0.8	8	0318	3.2	1.0	
TU	0743	0.6	0.2	W	0923	0.3	0.1	TH	0838	0.6	0.2	F	0944	0.4	0.1	SU	1040	0.2	0.1	
	1304	3.1	0.9		1502	2.6	0.8		1347	3.1	0.9		1525	2.6	0.8		1547	2.9	0.9	
	2049	0.6	0.2		2205	0.1	0.0		2120	0.4	0.1		2205	0.2	0.1		2248	0.1	0.0	
9	0154	2.7	0.8	24	0349	2.6	0.8	9	0236	3.0	0.9	24	0404	2.8	0.9	9	0417	3.3	1.0	
W	0849	0.5	0.2	TH	1021	0.3	0.1	F	0948	0.5	0.2	SA	1040	0.4	0.1	M	1143	0.0	0.0	
	1407	3.0	0.9		1603	2.6	0.8		1456	3.0	0.9		1619	2.6	0.8		1650	2.8	0.9	
	2150	0.5	0.2		2256	0.2	0.1		2218	0.3	0.1		2253	0.3	0.1		2345	0.0	0.0	
10	0300	2.8	0.9	25	0440	2.7	0.8	10	0339	3.1	0.9	25	0449	2.9	0.9	10	0514	3.3	1.0	
TH	1000	0.4	0.1	F	1119	0.3	0.1	SA	1055	0.3	0.1	SU	1133	0.4	0.1	TU	1242	-0.1	0.0	
	1518	3.0	0.9		1658	2.6	0.8		1605	3.0	0.9		1711	2.7	0.8		1748	2.9	0.9	
	2250	0.4	0.1		2343	0.2	0.1		2316	0.2	0.1		2337	0.3	0.1					
11	0403	3.0	0.9	26	0528	2.8	0.9	11	0438	3.3	1.0	26	0532	3.0	0.9	11	0041	-0.1	0.0	
F	1109	0.3	0.1	SA	1210	0.3	0.1	SU	1158	0.1	0.0	M	1226	0.4	0.1	W	0607	3.4	1.0	
	1624	3.1	0.9		1746	2.7	0.8		1708	3.1	0.9		1757	2.7	0.8		1337	-0.2	-0.1	
	2346	0.2	0.1														1844	2.9	0.9	
12	0500	3.2	1.0	27	0026	0.2	0.1	12	0011	0.0	0.0	27	0022	0.4	0.1	12	0136	-0.1	0.0	
SA	1213	0.1	0.0	SU	0609	3.0	0.9	M	0533	3.5	1.1	TU	0609	3.2	1.0	TH	0657	3.4	1.0	
	1727	3.2	1.0		1259	0.2	0.1		1257	-0.1	0.0		1313	0.1	0.0		1430	-0.3	-0.1	
					1830	2.8	0.9		1806	3.1	0.9		1839	2.8	0.9		1936	2.9	0.9	
13	0039	0.0	0.0	28	0108	0.3	0.1	13	0103	-0.1	0.0	28	0105	0.4	0.1	13	0225	-0.1	0.0	
SU	0556	3.4	1.0	M	0650	3.1	0.9	TU	0625	3.6	1.1	W	0641	3.3	1.0	F	0745	3.4	1.0	
	1310	-0.1	0.0		1344	0.2	0.1		1351	-0.2	-0.1		1400	0.3	0.1		1519	-0.3	-0.1	
	1823	3.3	1.0		1911	2.9	0.9		1900	3.1	0.9		1918	2.8	0.9		2027	2.8	0.9	
14	0129	-0.1	0.0	29	0147	0.3	0.1	14	0155	-0.2	-0.1	29	0147	0.4	0.1	14	0316	-0.1	0.0	
M	0646	3.6	1.1	TU	0720	3.2	1.0	W	0715	3.6	1.1	TH	0713	3.4	1.0	SA	0833	3.3	1.0	
	1407	-0.3	-0.1		1427	0.3	0.1		1445	-0.3	-0.1		1445	0.3	0.1		1607	-0.3	-0.1	
	1918	3.3	1.0		1950	2.9	0.9		1952	3.1	0.9		1954	2.9	0.9		2117	2.8	0.9	
15	0219	-0.3	-0.1	30	0224	0.4	0.1	15	0245	-0.2	-0.1	30	0229	0.5	0.2	15	0403	0.0	0.0	
TU	0736	3.7	1.1	W	0748	3.3	1.0	TH	0804	3.6	1.1	F	0747	3.5	1.1	SU	0921	3.2	1.0	
	1500	-0.4	-0.1		1509	0.3	0.1		1537	-0.4	-0.1		1527	0.3	0.1		1654	-0.2	-0.1	
	2010	3.3	1.0		2025	2.9	0.9		2043	3.1	0.9		2031	2.9	0.9		2206	2.8	0.9	
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JULY								AUGUST								SEPTEMBER													
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	0428	0.4	0.1		16	0511	0.2	0.1		1	0600	0.1	0.0		16	0608	0.5	0.2		1	0008	3.3	1.0		16	0709	0.8	0.2	
TU	0931	3.5	1.1		W	1029	3.0	0.9		F	1102	3.3	1.0		SA	1122	2.9	0.9		M	0740	0.1	0.0		TU	1213	2.8	0.9	
	1713	0.1	0.0			1744	0.0	0.0			1821	-0.1	0.0			1811	0.3	0.1			1250	2.9	0.9			1856	0.6	0.2	
	2211	3.1	0.9			2309	2.8	0.9			2333	3.3	1.0			2341	3.0	0.9			1945	0.0	0.0						
2	0520	0.3	0.1		17	0555	0.3	0.1		2	0658	0.1	0.0		17	0651	0.6	0.2		2	0111	3.1	0.9		17	0023	3.1	0.9	
W	1022	3.5	1.1		TH	1113	2.9	0.9		SA	1159	3.1	0.9		SU	1207	2.8	0.9		TU	0845	0.1	0.0		W	0800	0.8	0.2	
	1758	0.1	0.0			1819	0.1	0.0			1912	-0.1	0.0			1850	0.4	0.1			1357	2.7	0.8			1304	2.7	0.8	
	2259	3.1	0.9			2352	2.8	0.9													2046	0.1	0.0			1945	0.7	0.2	
3	0613	0.3	0.1		18	0640	0.4	0.1		3	0030	3.2	1.0		18	0024	3.0	0.9		3	0220	3.0	0.9		18	0117	3.1	0.9	
TH	1115	3.3	1.0		F	1200	2.8	0.9		SU	0759	0.1	0.0		M	0743	0.7	0.2		W	0948	0.2	0.1		TH	0901	0.8	0.2	
	1847	0.1	0.0			1856	0.1	0.0			1304	2.9	0.9			1257	2.7	0.8			1507	2.6	0.8			1400	2.7	0.8	
	2355	3.1	0.9								2008	0.0	0.0			1932	0.4	0.1			2147	0.1	0.0			2043	0.7	0.2	
4	0712	0.3	0.1		19	0039	2.8	0.9		4	0133	3.1	0.9		19	0110	3.0	0.9		4	0328	2.9	0.9		19	0217	3.1	0.9	
F	1212	3.1	0.9		SA	0728	0.5	0.2		M	0903	0.1	0.0		TU	0838	0.7	0.2		TH	1050	0.1	0.0		F	1000	0.8	0.2	
	1936	0.0	0.0			1253	2.7	0.8			1410	2.7	0.8			1352	2.6	0.8			1611	2.6	0.8			1507	2.8	0.9	
						1935	0.2	0.1			2106	0.0	0.0			2021	0.5	0.2			2250	0.2	0.1			2151	0.7	0.2	
5	0051	3.1	0.9		20	0125	2.8	0.9		5	0238	3.0	0.9		20	0202	3.0	0.9		5	0431	2.9	0.9		20	0319	3.2	1.0	
SA	0814	0.3	0.1		SU	0821	0.5	0.2		TU	1007	0.1	0.0		W	0937	0.8	0.2		F	1148	0.1	0.0		SA	1100	0.7	0.2	
	1317	2.9	0.9			1349	2.6	0.8			1520	2.6	0.8			1452	2.6	0.8			1709	2.6	0.8			1607	2.9	0.9	
	2031	0.0	0.0			2018	0.3	0.1			2207	0.0	0.0			2116	0.6	0.2			2349	0.2	0.1			2255	0.6	0.2	
6	0154	3.1	0.9		21	0215	2.9	0.9		6	0344	3.0	0.9		21	0259	3.1	0.9		6	0529	2.9	0.9		21	0423	3.3	1.0	
SU	0919	0.2	0.1		M	0917	0.6	0.2		W	1111	0.1	0.0		TH	1039	0.7	0.2		SA	1239	0.0	0.0		SU	1153	0.5	0.2	
	1425	2.8	0.9			1449	2.6	0.8			1623	2.6	0.8			1550	2.7	0.8			1801	2.7	0.8			1702	3.1	0.9	
	2127	0.0	0.0			2106	0.4	0.1			2308	0.1	0.0			2218	0.6	0.2							2357	0.4	0.1		
7	0258	3.1	0.9		22	0304	2.9	0.9		7	0445	3.0	0.9		22	0357	3.2	1.0		7	0044	0.1	0.0		22	0521	3.4	1.0	
M	1024	0.1	0.0		TU	1016	0.6	0.2		TH	1210	0.0	0.0		F	1135	0.6	0.2		SU	0617	3.0	0.9		M	1242	0.3	0.1	
	1533	2.7	0.8			1545	2.6	0.8			1723	2.6	0.8			1644	2.8	0.9			1326	0.0	0.0			1752	3.3	1.0	
	2226	0.0	0.0			2159	0.4	0.1							2320	0.5	0.2			1847	2.8	0.9							
8	0359	3.1	0.9		23	0352	3.0	0.9		8	0006	0.0	0.0		23	0452	3.3	1.0		8	0133	0.2	0.1		23	0058	0.2	0.1	
TU	1127	0.0	0.0		W	1115	0.6	0.2		F	0541	3.0	0.9		SA	1228	0.5	0.2		M	0702	3.0	0.9		TU	0614	3.6	1.1	
	1637	2.6	0.8			1637	2.6	0.8			1304	-0.1	0.0			1735	2.9	0.9			1408	0.1	0.0			1331	0.2	0.1	
	2326	0.0	0.0			2252	0.5	0.2			1818	2.6	0.8							1930	2.9	0.9			1841	3.5	1.1		
9	0457	3.1	0.9		24	0440	3.2	1.0		9	0101	0.0	0.0		24	0021	0.5	0.2		9	0217	0.2	0.1		24	0152	0.1	0.0	
W	1228	-0.1	0.0		TH	1210	0.5	0.2		SA	0632	3.0	0.9		SU	0545	3.5	1.1		TU	0743	3.1	0.9		W	0707	3.7	1.1	
	1737	2.6	0.8			1724	2.7	0.8			1352	-0.1	0.0			1316	0.4	0.1			1446	0.1	0.0			1419	0.0	0.0	
						2349	0.5	0.2			1907	2.7	0.8			1822	3.1	0.9			2007	3.0	0.9			1929	3.7	1.1	
10	0023	0.0	0.0		25	0527	3.3	1.0		10	0151	0.1	0.0		25	0116	0.3	0.1		10	0259	0.2	0.1		25	0247	-0.1	0.0	
TH	0551	3.2	1.0		F	1300	0.4	0.1		SU	0719	3.1	0.9		M	0636	3.6	1.1		W	0821	3.1	0.9		TH	0757	3.7	1.1	
	1322	-0.2	-0.1			1809	2.8	0.9			1438	-0.1	0.0			1403	0.2	0.1			1522	0.2	0.1			1506	-0.1	0.0	
	1830	2.7	0.8								1951	2.7	0.8			1907	3.3	1.0			2044	3.0	0.9			2019	3.8	1.2	
11	0118	-0.1	0.0		26	0044	0.4	0.1		11	0238	0.1	0.0		26	0210	0.2	0.1		11	0340	0.3	0.1		26	0339	-0.2	-0.1	
F	0642	3.2	1.0		SA	0612	3.4	1.0		M	0801	3.1	0.9		TU	0726	3.7	1.1		TH	0858	3.1	0.9		F	0847	3.6	1.1	
	1414	-0.2	-0.1			1348	0.3	0.1			1519	-0.1	0.0			1449	0.1	0.0			1554	0.2	0.1			1555	-0.2	-0.1	
	1923	2.7	0.8			1852	2.9	0.9			2035	2.8	0.9			1953	3.5	1.1			2116	3.1	0.9			2107	3.8	1.2	
12	0208	0.0	0.0		27	0138	0.4	0.1		12	0323	0.1	0.0		27	0303	0.1	0.0		12	0419	0.4	0.1		27	0433	-0.2	-0.1	
SA	0731	3.2	1.0		SU	0657	3.6	1.1		TU	0842	3.1	0.9		W	0814	3.7	1.1		F	0935	3.1	0.9		SA	0939	3.5	1.1	
	1502	-0.2	-0.1			1434	0.2	0.1			1556	0.0	0.0			1535	0.0	0.0			1626	0.3	0.1			1643	-0.2	-0.1	
	2011	2.7	0.8			1936	3.1	0.9			2114	2.9	0.9			2041	3.6	1.1			2145	3.1	0.9			2157	3.7	1.1	
13	0258	0.0	0.0		28	0229	0.3	0.1		13	0404	0.2	0.1		28	0356	0.0	0.0		13	0459	0.5	0.2		28	0526	-0.2	-0.1	
SU	0816	3.2	1.0		M	0742	3.6	1.1		W	0922	3.1	0.9		TH	0904	3.7	1.1		SA	1010	3.0	0.9		SU	1033	3.3	1.0	
	1545	-0.2	-0.1			1519	0.1	0.0			1632																		

## TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE  Potomac River	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Lat.	Long.	Time		Height		Mean	Spring	
				High water	Low water	High water	Low water			
		° ' "	° ' "	h. m.	h. m.	feet	feet	feet	feet	feet
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-----	38 00	76 28	-6 33	-7 05	*0.41	*0.41	1.2	1.4	0.6
	<i>Yeocomico River</i>									
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-----	38 02	76 35	-6 19	-6 53	*0.41	*0.41	1.2	1.4	0.6
	<i>St. Marys River</i>									
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	*0.52	*0.52	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	- 00	-6 34	*0.62	*0.62	1.8	2.1	0.9
2188	Mount Holly, Nomini Creek, Va-----	38 06	76 44	- 24	-5 54	*0.52	*0.52	1.5	1.7	0.7
2189	Colton's Point, Md-----	38 13	76 45	-5 46	-6 44	*0.62	*0.62	1.8	2.0	0.9
	<i>Wicomico River</i>									
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---	38 52	77 01	Daily predictions				2.9	3.3	1.4
	<i>Anacostia River</i>									
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 C - Conversion tables**

## APPENDIX C

Table C-1.- 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 <sup>3</sup> )	0.02832	cubic meters (m <sup>3</sup> )
 <u>Flow</u>		
cubic feet/second (ft <sup>3</sup> /sec)	0.02832	cubic meters/second (m <sup>3</sup> /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°)

Table C-2.- Nitrogen and phosphorus species conversions

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



# APPENDIX C

Table C-3.-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	.19988	.01998	19.98
Ammonium ( $\text{NH}_4^+$ )	.05544	.05544	55.44
Bicarbonate ( $\text{HCO}_3^-$ )	.01639	.01639	16.39
Calcium ( $\text{Ca}^{+2}$ )	.04990	.02495	24.95
Chloride ( $\text{Cl}^-$ )	.02821	.02821	28.21
Flouride ( $\text{F}^-$ )	.05264	.05264	52.64
Magnesium ( $\text{Mg}^{+2}$ )	.08226	.04113	41.13
Nitrate ( $\text{NO}_3^-$ )	.01613	.01613	16.13
Nitrite ( $\text{NO}_2^-$ )	.02174	.02174	21.74
Nitrogen ( $\text{N}$ )	.07139	.07139	71.39
Phosphate ( $\text{PO}_4^{-3}$ )	.03159	.01053	10.53
Phosphorus (P)	.03229	.03229	32.29
Potassium (K)	.02557	.02557	25.57
Silica ( $\text{SiO}_2$ )		.01644	16.44
Sodium ( $\text{Na}^{+2}$ )	.04350	.04350	43.50
Sulfate ( $\text{SO}_4^{-2}$ )	.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 (mg/l x 1000 formula weight = concentrations in  $\mu\text{g-at/l}$ )]



USGS ROCKFISH



USGS BLUEFISH

Figure 7--. USGS research vessels Rockfish and Bluefish

**APPENDIX D-1.- Nutrient, sediment and related data**

## APPENDIX D-1

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

## WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FW L BANK)	SILICA, DIS- SOLVED (MG/L AS SiO2)	(00955)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	(00615)	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)	
OCT																					
04...	1040	1350	8.3		.030		.010		1.7		.040		.030		.84		.35		.88		
09...	1050	1350	8.5		.010		.000		1.1		.040		.020		.64		.33		.69		
11...	1115	1350	8.1		.020		.040		1.3		.040		.010		.68		.3		.72		
15...	1115	1350	8.3		.000		.000		1.2		.030		.000		.31		.14		.34		
22...	1300	1350	8.3		.010		.000		1.5		.020		.010		.56		.41		.58		
25...	1500	1350	8.1		.010		.010		1.6		.020		.000		.23		.41		.25		
29...	1245	1350	7.4		.010		.010		1.5		.010		.050		1.2		.51		1.20		
30...	1330	1240	6.8		.010		.000		1.5		.010		.050		.23		.58		.24		
NOV																					
05...	1245	1350	6.0		.010		.030		.78		.060		.180		.41		.32		.47		
07...	1030	1350	6.7		.030		.010		1.0		.130		.000		.34		.38		.47		
13...	1300	1350	6.8		.010		.000		1.2		.030		.000		.27		.39		.30		
20...	1300	1350	4.7		.010		.010		1.2		.010		.000		.36		.28		.37		
21...	0900	1350	4.1		.010		.010		1.2		.020		.060		.32		.83		.34		
28...	1550	1240	3.1		.140		.120		1.4		.070		.000		.55		.23		.62		
DEC																					
04...	0900	1350	7.4		.000		.000		1.1		.010		.000		.04		.45		.35		
06...	0900	1350	6.6		.000		.010		1.1		.010		.000		.26		.32		.27		
11...	0840	1350	3.9		.010		.010		1.4		.020		.000		.19		.24		.21		
14...	1030	1350	2.5		.000		.000		1.3		.010		.010		.53		.21		.54		
17...	1010	1350	2.2		.010		.010		1.3		.010		.000		.29		.27		.30		
19...	1030	1350	2.5		.030		.030		1.3		.170		.170		.25		.22		.42		
26...	1130	1350	2.1		.000		.030		2.0		.030		.000		.18		.28		.21		
31...	0950	1350	6.5		.010		.010		1.3		.080		.030		.44		.37		.52		
JAN																					
02...	0945	1350	6.1		.010		.010		1.6		.020		.000		.36		.36		.38		
08...	1610	1350	4.5		.010		.020		1.6		.060		.000		.33		.21		.39		
10...	1350	1350	4.2		.010		.010		1.4		.040		.050		.32		.36		.36		
14...	1315	1350	4.0		.020		.010		.44		.140		.020		1.2		.91		1.30		
16...	1340	1350	4.7		.020		.020		1.6		.080		.000		.70		.69		.78		
17...	0950	1350	5.4		.030		.020		1.1		.130		.020		.81		.39		.94		
21...	1000	1350	7.5		.020		.010		1.2		.090		.050		.49		.17		.58		
24...	1015	1350	7.5		.030		.010		1.2		.150		.060		.24		.19		.39		
28...	1000	1350	7.3		.020		.010		1.4		.000		.050		.63		.23		.63		
FEB																					
04...	0950	1350	6.3		.010		.010		1.6		.030		.020		.14		.20		.17		
06...	0950	1350	6.0		.020		.020		1.9		.000		.010		.16		.21		.16		
11...	1540	1350	5.2		.010		.010		1.7		.030		.050		.22		.11		.25		
14...	1500	1350	4.5		.010		.020		1.8		.040		.030		1.4		.88		1.40		
19...	1420	1350	3.0		.010		.010		1.6		.010		.000		.25		.39		.26		

APPENDIX D-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L (00623)	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)	CHLORO- PHYLL A PHYTO- PLANK- TON, CORR. (UG/L) (32211)	PHEO- PHYTIN PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYLL A PHYTO- PLANK- TON, UNCORR. (UG/L) (32230)	CHLORO- PHYLL A PHYTO- 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)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT											
04...	.38	2.1	.189	.097	2.80	4.50	5.00	2.80	5.20	5.40	--
09...	.35	1.5	.119	.052	--	--	--	1.60	2.20	2.70	--
11...	--	--	.134	.088	--	--	--	1.20	1.10	1.71	148
15...	.14	1.3	.099	.047	--	--	--	1.50	1.40	2.20	--
22...	.42	1.9	.060	.030	--	--	--	1.10	.900	1.50	--
25...	.41	2.0	.060	.040	--	--	--	1.20	.800	1.60	--
29...	.56	2.1	.050	.037	--	--	--	1.20	1.90	1.50	--
30...	.63	2.1	.045	.034	--	--	--	1.20	1.90	1.50	--
NOV											
05...	.50	1.3	.125	.027	--	--	--	15.4	8.50	19.2	--
07...	.38	1.4	.082	.019	--	--	--	7.90	3.60	9.70	20
13...	.39	1.7	.051	.033	--	--	--	2.80	2.40	4.02	5
20...	.29	1.5	.033	.025	--	--	--	1.90	1.30	2.50	--
21...	.89	2.1	.034	.015	--	--	--	99.8	21.1	110	--
28...	.23	1.6	.103	.028	--	--	--	--	--	--	47
DEC											
04...	.45	1.6	.041	.033	--	--	--	2.90	2.60	4.10	4
06...	.32	1.4	.027	.022	--	--	--	2.00	1.70	2.90	2
11...	.24	1.6	.019	.014	--	--	--	1.90	1.00	2.50	1
14...	.22	1.5	.016	.010	--	--	--	5.90	1.00	6.80	3
17...	.27	1.6	.016	.014	--	--	--	5.60	1.10	6.60	10
19...	.39	1.7	.053	.037	--	--	--	14.9	2.80	17.4	3
26...	.28	2.3	.017	.009	--	--	--	6.40	3.70	8.20	5
31...	.40	1.7	.050	.030	--	--	--	4.50	2.40	5.70	11
JAN											
02...	.36	2.0	.040	.030	--	--	--	2.60	1.30	3.20	4
08...	.21	1.8	.030	.022	--	--	--	2.40	1.20	3.00	3
10...	.41	1.8	.044	.026	--	--	--	8.10	2.70	9.30	2
14...	.93	1.4	.026	.007	--	--	--	39.6	14.5	46.1	8
16...	.69	2.3	.106	.044	--	--	--	83.2	7.70	85.7	34
17...	.41	1.5	.125	.035	--	--	--	33.9	18.3	42.3	66
21...	.22	1.4	.069	.049	--	--	--	10.8	7.50	14.3	41
24...	.25	1.5	.067	.042	--	--	--	3.20	1.90	4.00	25
28...	.28	1.7	.042	.035	--	--	--	2.40	1.00	2.85	3
FEB											
04...	.22	1.8	.039	.032	--	--	--	1.20	.600	1.40	--
06...	.22	2.1	.057	.058	--	--	--	1.30	.600	1.50	--
11...	.16	1.9	.048	.041	--	--	--	1.50	.700	1.80	--
14...	.91	2.7	.034	.026	--	--	--	1.60	.600	1.90	--
19...	.39	2.0	.040	.015	--	--	--	--	--	--	--

APPENDIX D-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SiO2	NITRO- GEN, NITRITE TOTAL (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 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)
FEB 22...	1300	1350	1.7	.010	.010	1.4	.010	.010	.37	.32
FEB 25...	1650	1350	1.5	.010	.020	1.3	.050	.110	.33	.36
MAR 03...	1110	1350	2.8	.020	.030	1.3	.060	.000	.30	.32
MAR 10...	1015	1240	1.7	--	.010	1.0	--	.000	--	.27
MAR 14...	1505	1240	3.2	--	.010	.98	--	.000	--	.35
MAR 19...	1640	1240	4.9	--	.030	1.3	--	.000	--	.39
MAR 19...	2200	1240	5.0	--	.030	1.4	--	.040	--	.27
MAR 20...	1100	1240	5.6	--	.030	1.2	--	.000	--	.33
MAR 21...	2000	1240	6.4	--	.020	1.3	--	.000	--	.26
MAR 22...	0950	1240	6.4	--	.030	.93	--	.000	--	.20
MAR 22...	1645	1240	6.1	--	.040	1.5	--	.080	--	.19
MAR 24...	1700	1240	6.9	--	.030	1.4	--	.010	--	.03
MAR 25...	0930	1350	7.1	--	.030	1.4	--	.090	--	.20
MAR 27...	1300	1240	7.1	--	.010	1.4	--	.060	--	.29
MAR 31...	1000	1240	6.5	--	.010	1.4	--	.010	--	.09
APR 0645	1240	1240	6.6	--	.010	1.4	--	.010	--	.18
APR 0910	1240	1240	6.7	--	.020	1.1	--	.330	--	.31
APR 0930	1240	1240	6.7	--	.010	1.3	--	.010	--	.40
APR 0930	1240	1240	6.8	--	.010	1.4	--	.050	--	.13
APR 0930	1240	1240	7.4	--	.010	1.3	--	.010	--	.27
APR 15...	2020	1240	6.9	--	.020	1.2	--	.170	--	.25
APR 18...	0930	1240	6.9	--	.010	1.2	--	.060	--	.15
APR 21...	1615	1240	6.5	--	.020	1.4	--	.040	--	.16
APR 30...	0900	1240	6.1	--	.020	1.4	--	.000	--	.15
MAY 0930	1240	1240	7.7	--	.020	1.2	--	.040	--	.14
MAY 0930	1240	1240	7.2	--	.020	.93	--	.010	--	.26
MAY 06...	0933	1240	7.3	--	.010	1.1	--	.020	--	.55
MAY 09...	1335	1240	7.0	--	.010	1.3	--	.020	--	.29
MAY 13...	1230	1240	5.3	--	.020	1.1	--	.040	--	.27
MAY 15...	0810	1240	2.9	--	.020	1.5	--	.030	--	.21
MAY 19...	0910	1240	1.9	--	.030	1.9	--	.120	--	.08
MAY 28...	1820	1240	7.1	--	.010	.98	--	.030	--	.32
MAY 30...	1110	1240	7.1	--	.010	1.2	--	.030	--	.00
JUN 02...	2000	1350	5.2	--	.000	.14	--	.280	--	.22
JUN 05...	1210	1350	--	--	.010	.96	--	.020	--	.33
JUN 09...	1800	1350	3.5	--	.010	.95	--	.050	--	
JUN 13...	1430	1350	2.3	--	.010		--		--	

## APPENDIX D-1

01546580 - POTOMAC R AT CHAIN BRIDGE AT WASH, DC --Cont.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	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)	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)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
FEB 22...	.38	.33	1.7	.030	.020	--	6.20	1.30	6.80	--
25...	.38	.47	1.8	.032	.020	--	60.0	9.20	63.6	--
MAR 03...	.36	.32	1.6	.026	.018	--	4.20	1.20	4.70	--
10...	.33	.27	1.3	.030	.016	--	28.5	6.50	31.2	--
14...	.46	.35	1.3	.047	.019	--	21.6	9.30	25.8	--
19...	.59	.39	1.7	.108	.042	--	94.2	29.4	107	--
19...	.64	.31	1.7	.090	.036	7.2	70.0	33.0	85.0	116
20...	.65	.33	1.5	.122	.033	6.2	77.8	27.4	90.0	101
21...	.54	.25	1.6	.110	.036	8.0	43.0	26.0	55.0	113
22...	1.80	.29	1.2	.553	.060	--	60.8	39.8	79.3	835
22...	1.30	.27	1.8	.165	.077	--	51.4	27.1	63.8	522
24...	.54	.04	1.4	.035	.033	4.2	20.2	11.8	25.6	96
25...	.30	.29	1.7	.080	.035	2.5	14.0	8.70	18.0	51
27...	.53	.35	1.8	.081	.043	--	10.4	4.40	12.4	25
31...	.48	.10	1.5	.096	.038	3.1	21.3	9.90	25.8	54
APR 02...	.51	.19	1.6	.135	.043	7.3	18.0	10.1	22.6	99
03...	.76	.64	1.7	.116	.041	4.5	19.8	14.5	26.6	177
03...	.50	.41	1.7	.165	.024	--	21.6	13.9	28.0	147
09...	.53	.18	1.6	.080	.025	--	16.2	8.90	20.3	47
15...	.40	.28	1.6	.117	.035	--	7.40	10.1	12.2	67
18...	.61	.42	1.6	.144	.045	--	5.20	14.8	12.3	97
21...	.49	.21	1.4	.092	.059	--	--	--	--	65
30...	.46	.20	1.6	.115	.049	3.1	9.70	9.10	14.0	44
MAY 02...	.76	.15	1.4	.052	.042	--	10.2	12.4	16.1	147
03...	.94	.19	1.1	.075	.027	--	11.6	12.3	17.4	274
06...	.44	.27	1.4	.043	.037	--	3.40	4.00	5.30	44
09...	.49	.57	1.9	.089	.040	--	6.30	2.80	7.60	26
13...	.32	.31	1.4	.049	.015	--	27.6	5.80	30.0	14
15...	.45	.31	1.8	.027	.010	--	43.7	7.90	46.9	--
19...	.47	.24	2.1	.028	.009	--	37.0	13.5	43.0	--
28...	.42	.20	1.2	.095	.034	--	4.40	5.70	7.10	69
30...	.46	.35	1.6	.065	.033	--	5.20	4.30	7.20	31
JUN 02...	.41	.27	.41	.076	.017	--	57.0	6.90	59.5	28
05...	--	--	--	--	--	--	48.0	12.8	53.5	26
09...	.42	.24	1.2	.087	.069	--	58.9	18.3	67.0	--
13...	.26	.38	1.3	.035	.054	--	34.5	13.4	40.5	16

APPENDIX D-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	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, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
		(00009)	(00955)	(00613)	(00631)	(00608)	(00607)	(00625)
JUN								
16...	1430	1240	1.5	.010	.84	.030	.21	.38
19...	1540	1350	2.3	.010	1.1	.040	.19	.40
23...	1550	1350	2.0	.010	.73	.030	.24	.41
26...	1000	1350	2.4	.010	.83	.030	.25	.68
30...	1240	1350	1.8	.030	.60	.050	.23	.52
JUL								
02...	1310	1350	1.6	.010	.35	.020	.39	.60
08...	1040	1350	3.4	.010	.45	.040	.31	.60
11...	1035	1350	4.9	.010	.91	.020	.34	.70
15...	0945	1350	4.2	.010	.65	.020	.34	.51
21...	1400	1350	5.3	.010	.46	.020	.33	.37
24...	1140	1350	6.9	.020	.45	.140	.09	.28
28...	1030	1350	6.9	.010	.51	.040	.19	.43
31...	1229	1350	6.5	.010	.32	.010	.28	.24
AUG								
05...	1440	1350	5.8	.010	.41	.010	.14	.39
08...	1325	1350	6.2	.020	.30	.020	.23	.17
11...	1120	1350	6.1	.020	.25	.080	.37	.45
15...	1334	1350	5.9	.020	.32	.080	.22	.38
18...	1025	1350	5.3	.020	.60	.060	.09	.26
20...	1115	1350	6.3	.010	.49	.110	.15	.34
23...	1710	1350	5.5	.010	.83	.050	.13	.44
25...	1015	1350	6.3	.010	.77	.060	.14	.53
28...	1000	1350	5.9	.020	.86	.020	.13	.26
SEP								
03...	1330	1350	5.8	.010	.67	.050	.21	.42
05...	2040	1350	--	--	--	--	--	--
08...	1515	1350	2.6	.010	.05	.080	.19	.18
11...	1315	1350	5.0	.010	.57	.070	.17	.54
16...	1340	1350	5.0	.010	.42	.040	.07	.27
18...	1550	1350	5.1	.010	.56	.040	.12	.66
22...	1220	1350	4.9	.010	.75	.050	.50	.77
29...	1100	1350	4.2	.000	.52	.030	.09	.43



APPENDIX D-1  
01646580 - POTOMAC R AT CHAIN BRIDGE, AT WASH, DC --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN AM- MONIA + ORGANIC DIS- (UG/L AS N)	(00623)	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)	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)	SEDI- MENT, SUS- PENDED (MG/L)	(80154)
JUN																
16...	.24		1.1	.043	.007	.007	.007	.007	23.0	23.0	12.5	12.5	28.8	28.8	16	
19...	.23		1.3	.054	.006	.006	.006	.006	29.5	29.5	16.3	16.3	37.0	37.0	--	
23...	.27		1.0	.028	.004	.004	.004	.004	28.0	28.0	11.6	11.6	33.2	33.2	16	
26...	.25		1.1	.042	.006	.006	.006	.006	21.5	21.5	16.1	16.1	29.0	29.0	18	
30...	.29		.88	.091	.006	.006	.006	.006	25.5	25.5	19.8	19.8	34.8	34.8	--	
JUL																
02...	.41		.76	.070	.010	.010	.010	.010	34.0	34.0	22.1	22.1	44.2	44.2	15	
08...	.35		.80	.034	.020	.020	.020	.020	28.2	28.2	36.0	36.0	45.2	45.2	16	
11...	.35		1.3	.091	.016	.016	.016	.016	27.5	27.5	24.0	24.0	38.8	38.8	37	
15...	.36		1.0	.067	.013	.013	.013	.013	--	--	--	--	--	--	19	
21...	.35		.81	.044	.015	.015	.015	.015	22.0	22.0	16.6	16.6	29.8	29.8	10	
24...	.23		.68	.072	.023	.023	.023	.023	10.0	10.0	18.3	18.3	18.8	18.8	24	
28...	.23		.74	.071	.019	.019	.019	.019	32.0	32.0	35.5	35.5	48.8	48.8	29	
31...	.29		.61	.057	.018	.018	.018	.018	13.5	13.5	18.4	18.4	22.2	22.2	12	
AUG																
05...	.15		.56	.043	.020	.020	.020	.020	8.50	8.50	9.20	9.20	12.8	12.8	--	
08...	.25		.55	.101	.068	.068	.068	.068	5.40	5.40	6.50	6.50	8.50	8.50	7	
11...	.45		.70	.088	.043	.043	.043	.043	3.90	3.90	9.30	9.30	8.40	8.40	19	
15...	.30		.62	.060	.017	.017	.017	.017	--	--	--	--	--	--	--	
18...	.15		.75	.067	.028	.028	.028	.028	4.00	4.00	8.40	8.40	8.00	8.00	13	
20...	.26		.75	.038	.024	.024	.024	.024	3.00	3.00	9.20	9.20	7.40	7.40	--	
23...	.18		1.0	.075	.035	.035	.035	.035	5.30	5.30	12.0	12.0	11.1	11.1	17	
25...	.20		.97	.066	.045	.045	.045	.045	2.40	2.40	8.80	8.80	6.70	6.70	9	
28...	.15		1.0	.081	.052	.052	.052	.052	2.10	2.10	5.50	5.50	4.70	4.70	10	
SEP																
03...	.26		.93	.085	.039	.039	.039	.039	2.00	2.00	3.10	3.10	3.50	3.50	5	
05...	--		--	--	--	--	--	--	2.10	2.10	4.20	4.20	4.10	4.10	3	
09...	.27		.32	.052	.030	.030	.030	.030	--	--	--	--	--	--	5	
11...	.24		.81	.051	.051	.051	.051	.051	2.30	2.30	3.40	3.40	3.90	3.90	5	
16...	.11		.53	.030	.017	.017	.017	.017	1.60	1.60	3.10	3.10	3.10	3.10	6	
18...	.15		.72	.036	.042	.042	.042	.042	1.80	1.80	3.40	3.40	3.50	3.50	--	
22...	.55		1.3	.050	.049	.049	.049	.049	1.20	1.20	3.50	3.50	2.90	2.90	5	
29...	.12		.64	.081	.035	.035	.035	.035	--	--	--	--	--	--	--	

APPENDIX D-1

385915077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE

WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	LOC- ATION, CROSS SECTION (FT FM LI 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 DIS- SOLVED (MG/L) AS N	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N
		(00003)	(00009)	(00955)	(00613)	(00631)	(00610)	(00608)
JUL								
23...	0835	--	50000	6.2	.020	.49	--	.200
23...	1930	--	50000	5.8	.020	.36	--	.120
30...	1000	--	50000	6.3	.030	.38	--	.100
30...	1915	--	50000	6.3	.010	.31	--	.040
AUG								
04...	0810	--	50000	6.6	.010	.39	--	.060
04...	1800	--	50000	6.6	.010	.39	--	.080
05...	0730	--	50000	5.9	.020	.45	--	.070
05...	1900	--	50000	6.4	.010	.41	--	.090
06...	0730	--	50000	6.4	.020	.40	--	.180
06...	1740	--	50000	6.2	.020	.43	--	.020
07...	0830	--	50000	5.8	.020	.39	--	.080
07...	1745	--	50000	6.2	.020	.40	--	.120
08...	0710	--	50000	6.3	.020	.35	--	.060
08...	1750	--	50000	6.3	.020	.35	--	.070
11...	1845	--	475	6.5	.020	.26	--	.090
13...	0830	18	1175	6.5	.020	.26	--	.110
13...	1840	--	50000	6.6	.020	.28	--	.220
20...	0845	--	50000	5.8	.010	.48	--	.090
20...	1920	--	50000	6.8	.020	.47	--	.120
SEP								
03...	2000	--	50000	6.2	.020	.75	.000	.040
15...	1345	--	50000	4.8	.010	.49	.040	.30

## APPENDIX D-1

385315077031800 -- POTOMAC RIVER AT MEMORIAL BRIDGE -- Cont.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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)	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)	SESTON- TOTAL (MG/L) (711007)
JUL									
23...	.37	1.00	.57	1.1	.041	.036	3.8	3.1	7.0
23...	.67	.97	.79	1.2	.131	.094	4.4	2.8	13
30...	.19	.63	.29	.57	.041	.013	3.8	2.6	14
30...	.19	.50	.23	.54	.047	.014	3.9	3.2	12
AUG									
04...	.15	.46	.21	.60	.100	.019	5.0	2.7	12
04...	.22	.39	.30	.69	.050	.017	4.1	2.7	15
05...	.20	.39	.27	.72	.043	.015	4.0	2.3	--
05...	.55	.39	.64	1.1	.038	.020	3.5	2.7	11
06...	.00	.36	.02	.42	.040	.018	3.7	2.8	13
06...	--	.46	--	--	.046	.059	9.1	4.4	14
07...	.13	.53	.21	.60	.032	.042	4.2	2.8	17
07...	.23	.33	.35	.75	.036	.062	4.0	2.7	10
08...	.24	.30	.30	.65	.081	.018	3.7	3.1	9.5
08...	.11	.19	.18	.53	.076	.053	4.0	2.8	9.0
11...	.27	.34	.36	.62	.060	.021	2.7	--	--
13...	.20	.24	.31	.57	.067	.026	.0	2.9	33
13...	.40	.63	.62	.90	.068	.030	4.2	3.6	11
20...	.32	.38	.41	.89	.022	.007	12	3.8	16
20...	.46	.01	.58	1.1	.038	.031	1.3	3.3	13
SEP									
03...	.14	.31	.18	.93	.048	.000	4.2	--	--
15...	.24	.34	.28	.77	.034	.000	4.0	--	--

## APPENDIX D-1

385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SESTON ASH WEIGHT (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (JG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	ALGAL GROWTH POTEN- TIAL (MG/L)	ADE- NOSINEI TRI- PHOS- PHATE (ATP) (UG/L)	NITROSO -MANAS, MOST PROB. NUMBER PER 100 ML (82469)	NITRO- BACTER, MOST PROB. NUMBER PER 100 ML (82532)	SEDI- MENT, SUS- PENDED (MG/L)* (80154)*
(71101)	(32209)	(32213)	(32217)	(70988)	(70998)			
JUL								
23...	8.5	8.40	12.8	--	1.3	--	--	--
29...	14	9.90	13.2	--	3.9	--	--	14
30...	13	22.2	18.8	--	3.3	--	--	13
30...	10	29.3	17.2	7.1	4.9	--	--	8
AUG								
04...	8.0	13.6	13.1	--	1.0	--	--	12
04...	9.5	19.0	11.9	8.9	1.5	--	--	--
05...	--	11.4	10.6	--	1.1	--	--	9
05...	8.0	15.0	11.1	--	.9	--	--	8
06...	11	9.50	9.70	--	1.5	--	--	16
06...	8.5	19.5	8.50	--	1.5	--	--	13
07...	13	7.90	12.6	--	1.1	--	--	13
07...	5.5	14.6	6.80	9.5	.6	--	--	11
08...	6.5	7.10	7.70	--	1.1	--	--	7
08...	5.5	12.8	10.1	--	1.5	--	--	13
11...	--	19.1	6.90	--	--	--	--	10
13...	9.5	7.40	6.60	--	.6	--	--	13
13...	8.0	9.00	6.00	--	9.4	--	--	7
20...	12	4.60	6.60	--	.5	--	--	13
20...	8.0	5.60	7.70	5.0	.7	--	--	13
20...			8.40					
SEP								
03...	--	15.0	5.80	--	--	--	--	2
15...	--	24.8	9.80	--	1.2	230	430	2

APPENDIX D-1

385039077012500 - POTOMAC RIVER AT GEISBORD POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SILICA, DIS- SOLVED (MG/L) AS SiO2 (00955)	NITRO- GEN, NITRITE TOTAL (MG/L) AS N (00615)	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)
OCT										
06...	0740	450	7.8	.020	.010	1.0	.040	.020	.95	.57
JUN										
17...	1910	5000	1.9	--	.020	.80	--	.120	--	.18
27...	1525	5000	2.0	--	.020	.71	--	.130	--	.32
JUL										
04...	1745	5000	1.8	--	.040	.46	--	.390	--	.35
09...	1600	5000	2.6	--	.030	.09	--	.090	--	.81
16...	1615	5000	2.5	--	.030	.65	--	.120	--	.00
23...	0910	5000	4.0	--	.050	.49	--	.270	--	.14
30...	0915	5000	6.4	--	.070	.75	--	.520	--	.43
30...	1845	5000	5.6	--	.030	.47	--	.130	--	.26
AUG										
04...	0740	5000	6.3	--	.050	.40	--	.160	--	.29
04...	1750	5000	6.3	--	.070	.46	--	.290	--	.46
05...	0700	5000	5.8	--	.100	.54	--	.310	--	.99
05...	1940	5000	6.5	--	.090	.51	--	.280	--	.25
06...	0700	5000	6.4	--	.100	.54	--	.340	--	.00
06...	1710	5000	6.5	--	.130	.73	--	.400	--	.46
07...	0800	5000	5.6	--	.140	.59	--	.210	--	.41
07...	1715	5000	6.1	--	.190	.83	--	.440	--	.35
08...	0640	5000	6.1	--	.200	.74	--	.410	--	.20
08...	1730	5000	6.1	--	.160	.71	--	.490	--	.07
11...	1830	5000	5.5	--	.140	.58	--	.400	--	.19
13...	0800	5000	5.7	--	.120	.51	--	.390	--	.46
13...	1800	5000	6.0	--	.070	.33	--	.120	--	.57
20...	0825	5000	5.8	--	.050	.50	--	.360	--	.39
20...	1850	5000	5.1	--	.060	.51	--	.360	--	.53
SEP										
03...	1920	5000	5.6	--	.100	.97	.390	.430	.27	.20
15...	1410	5000	4.8	--	.070	.65	.770	.530	.43	.40

## APPENDIX D-1

385039077012600 - POTOMAC RIVER AT GEISBORD POINT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (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 DSS- SOLVED (MG/L AS C) (00681)	SESTON, TOTAL (MG/L) (71100)	SESTON ASH WEIGHT (MG/L) (71101)	CHLORO- PHYLLA PHYTO- PLANK- TON, CORR. (UG/L) (32211)
OCT 06...	.99	.59	.149	.075	6.6	--	--	--	.000
JUN 17...	.62	.30	.062	.009	--	--	--	--	--
27...	.81	.45	.047	.007	--	--	--	--	--
JUL 04...	1.00	.74	.116	.035	--	--	--	--	--
09...	.90	.90	.087	.032	1.6	2.5	--	--	--
16...	.77	.09	.067	.011	--	--	--	--	--
23...	.84	.41	.024	.019	--	3.4	19	18	--
30...	1.20	.95	.137	.052	4.4	3.0	16	15	--
30...	.71	.39	.073	.014	4.5	3.0	17	9.0	--
AUG 04...	1.30	.45	.063	.017	4.6	2.9	17	11	--
04...	.33	.75	.085	.024	7.5	3.6	23	17	--
05...	.75	1.3	.124	.042	4.8	2.9	22	16	--
05...	.49	.53	.101	.025	4.9	3.4	17	16	--
06...	.38	.26	.117	.030	5.1	2.7	17	11	--
06...	.72	.86	.162	.050	5.1	3.1	22	13	--
07...	.41	.62	.104	.018	4.8	3.1	24	16	--
07...	.76	.79	.160	.042	5.9	3.6	20	13	--
08...	.92	.61	.187	.036	2.9	3.4	16	11	--
08...	.78	.56	.167	.027	3.6	3.0	17	9.5	--
11...	.67	.59	.131	.051	4.9	--	--	--	--
13...	.88	.85	.133	.038	.0	3.1	37	27	--
13...	.24	.69	.015	.078	6.4	4.7	21	14	--
20...	.89	.75	.042	.008	6.9	3.7	27	20	--
20...	.97	.89	.083	.027	--	3.1	20	14	--
SEP 03...	.66	.63	.066	.000	8.0	--	--	--	--
15...	1.20	.93	.101	.041	5.8	--	--	--	--

## APPENDIX D-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PHED- PHYTO- PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYLL A PHYTO- PLANK- TON, CORR. (UG/L) (32230)	CHLORO- PHYLL A METRIC CORR. (UG/L) (32209)	CHLORO- PHYLL A METRIC CORR. (UG/L) (32213)	CHLORO- PHYLL A METRIC CORR. (UG/L) (32217)	ALGAL GROWTH POTENTIAL (MG/L) (70988)	ADEN- VOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	NITROSO- MANAS, MOST PROB. NUMBER PER 100 ML (82469)	NITRO- BACTER, MOST PROB. NUMBER PER 100 ML (82532)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT 06...	5.60	3.50	--	--	--	--	--	--	--	65
JUN 17...	--	--	22.1	13.3	28.2	--	--	--	--	25
JUL 27...	--	--	27.9	15.6	35.1	--	--	--	--	--
JUL 04...	--	--	26.9	19.9	35.7	--	--	--	--	--
JUL 09...	--	--	13.6	16.3	21.3	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--	--	--
JUL 23...	--	--	21.8	22.7	32.5	--	--	--	--	30
AUG 30...	--	--	23.6	19.0	32.5	--	3.3	--	--	20
AUG 30...	--	--	37.3	19.6	45.8	8.4	3.0	--	--	17
AUG 04...	--	--	19.3	17.9	26.7	--	1.3	--	--	23
AUG 04...	--	--	--	--	--	20	2.6	--	--	25
AUG 05...	--	--	19.1	21.3	29.2	--	.5	--	--	21
AUG 05...	--	--	28.8	20.6	38.3	--	1.6	--	--	23
AUG 06...	--	--	18.8	18.6	27.5	--	2.9	--	--	21
AUG 06...	--	--	38.2	14.8	44.8	--	2.6	--	--	21
AUG 07...	--	--	22.1	19.1	31.0	--	3.2	--	--	25
AUG 07...	--	--	--	--	--	31	2.8	--	--	22
AUG 08...	--	--	--	--	--	--	2.5	--	--	17
AUG 08...	--	--	46.7	12.6	52.1	--	5.8	--	--	21
AUG 11...	--	--	44.5	10.7	49.1	--	--	--	--	32
AUG 13...	--	--	27.6	18.3	36.0	--	3.1	--	--	33
AUG 13...	--	--	39.1	15.5	46.1	9.0	17	--	--	16
AUG 20...	--	--	13.5	10.4	18.4	--	9.8	--	--	--
AUG 20...	--	--	25.8	8.80	29.7	18	2.3	--	--	16
SEP 03...	--	--	30.9	9.60	35.2	18	--	--	--	16
SEP 15...	--	--	30.0	13.4	36.1	25	1.1	46000	230	15

APPENDIX D-1

384852077020500 - POTOMAC RIVER AT MARBURY POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS-SOLVED (MG/L)	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, ORGANIC DIS-SOLVED (MG/L) AS N
		(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)
JUL								
06...	1630	50000	2.3	.110	.55	---	1.00	.50
06...	2120	50000	1.9	.080	.56	---	.460	.53
23...	0735	50000	4.0	.110	.97	---	.900	.00
30...	0850	50000	6.4	.090	.78	---	.800	.60
30...	1810	50000	6.3	.070	.77	---	.620	.48
AUG								
04...	0710	50000	6.3	.100	.60	---	.720	.38
04...	1745	50000	6.1	.100	.60	---	.510	.69
05...	0640	50000	5.7	.120	.65	---	.530	.43
05...	1810	50000	6.2	.150	.69	---	.760	.15
06...	0640	50000	6.3	.150	.70	---	.740	.00
06...	1650	50000	6.3	.180	.75	---	.600	.34
07...	0740	50000	5.9	.210	.81	---	.650	.55
07...	1645	50000	6.3	.220	.83	---	.520	.26
08...	0630	50000	6.1	.270	.96	---	.600	.50
08...	1715	50000	6.2	.260	.96	---	.590	.81
11...	1815	50000	5.6	.190	.80	---	.780	.62
13...	0730	50000	5.9	.170	.74	---	.850	.35
13...	1730	50000	5.8	.140	.72	---	.730	.47
20...	0800	50000	5.7	.090	.63	---	.630	.57
20...	1810	50000	5.3	.120	.70	---	.810	.49
SEP								
03...	1830	50000	5.9	.140	1.2	.930	.980	.42
15...	1430	50000	4.8	.200	1.3	1.20	1.20	.60



## APPENDIX D-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- 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)	SESTON, TOTAL (MG/L)	SESTON ASH WEIGHT (MG/L) (71101)
JUL								
06...	1.80	1.5	2.1	.194	.062	---	---	---
06...	1.10	.99	1.6	.163	.030	---	---	---
23...	1.20	.75	1.7	.180	.095	5.2	3.9	19
30...	1.60	1.4	2.2	.202	.075	---	3.1	20
30...	1.40	1.1	1.9	.198	.070	4.3	3.1	15
AUG								
04...	1.20	1.1	1.7	.179	.062	4.9	3.0	23
04...	.93	1.2	1.8	.129	.041	5.9	2.8	14
05...	.92	.96	1.6	.107	.046	8.9	3.3	13
05...	.68	.91	1.6	.207	.078	6.0	3.5	13
06...	.53	.44	1.1	.160	.053	5.3	2.9	14
06...	.55	.94	1.7	.185	.059	5.2	3.3	16
07...	.90	1.2	2.0	.162	.020	5.0	3.2	10
07...	.75	.78	1.6	.161	.044	5.6	3.2	13
08...	.99	1.1	2.1	.193	.047	3.6	3.5	16
08...	1.20	1.4	2.4	.154	.080	5.4	3.1	17
11...	1.30	1.4	2.2	.206	.076	3.2	---	---
13...	1.60	1.2	1.9	.182	.057	.0	3.2	20
13...	1.10	1.2	1.9	.120	.047	5.8	3.7	15
20...	1.20	1.2	1.8	.147	.018	3.0	2.9	23
20...	1.60	1.3	2.0	.155	.028	3.1	3.6	18
SEP								
03...	1.40	1.4	2.6	.101	.009	4.6	---	---
15...	1.20	1.8	3.1	.104	.034	4.0	---	---

## APPENDIX D-1

384852077020500 -- POTOMAC RIVER AT MARBURY POINT -- Cont.  
 WATER QUALITY DATA YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHLORO- PHYLL A FLUORO- METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METHOD (UG/L) (32213)	CHLORO- PHYLL A FLOURO- METRIC METHOD UNCORR. (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70989)	ADENOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	NITROSO -MANAS, MOST PROB. NUMBER PER 100 ML (82469)	NITRO- BACTER, MOST PROB. NUMBER PER 100 ML (82532)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
JUL								
06...	29.0	18.4	37.6	--	--	--	--	--
06...	28.5	18.9	37.3	--	--	--	--	--
23...	19.4	19.7	28.7	--	--	--	--	22
30...	19.2	18.2	27.7	--	3.1	--	--	17
30...	34.2	18.3	42.6	--	1.5	--	--	14
AUG								
04...	27.5	30.2	41.8	--	1.4	--	--	28
04...	29.0	17.9	37.2	--	--	--	--	10
05...	--	--	--	--	1.4	--	--	20
05...	25.0	14.9	31.9	--	2.4	--	--	30
06...	17.1	14.8	24.0	--	2.3	--	--	20
06...	26.5	14.7	33.3	--	1.8	--	--	25
07...	19.4	16.9	26.4	--	1.1	--	--	16
07...	29.6	16.3	37.1	--	1.3	--	--	24
08...	28.1	12.0	33.5	--	4.3	--	--	25
08...	31.5	15.2	38.5	--	5.1	--	--	26
11...	55.8	5.10	57.5	--	--	--	--	23
13...	29.0	17.3	37.0	--	3.7	--	--	26
13...	44.3	12.1	49.6	--	--	--	--	18
20...	21.2	12.2	26.9	--	18	--	--	30
20...	26.4	10.9	31.3	--	1.6	--	--	22
SEP								
03...	26.4	11.3	31.5	--	--	--	--	17
15...	30.0	13.6	36.2	18	1.0	11000	230	17

APPENDIX D-1

384852077014000 - BLUE PLAINS SEWAGE TREATMENT PLANT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	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 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)
MAY								
12...	0002	12	.020	.21	3.40	11	18.0	14
JUN								
09...	0002	11	.060	.08	15.0	6.0	21.0	21
JUL								
09...	0001	8.8	.010	.02	.000	15	17.0	13
09...	0002	8.6	1.10	3.8	.000	9.5	10.0	9.5
22...	0001	9.0	.040	.09	8.20	3.8	16.0	12
22...	0002	11	1.30	5.3	4.70	.00	5.50	4.5
29...	0001	11	.030	.04	11.0	10	22.0	21
29...	0002	11	1.80	6.3	5.30	9.7	9.70	15
AUG								
04...	0001	9.4	.050	.17	9.90	8.1	28.0	18
04...	0002	10	2.10	6.8	4.10	.10	3.50	4.2
05...	0001	10	.040	.13	10.0	3.0	16.0	13
05...	0002	11	2.00	8.3	5.60	.00	3.50	4.2
06...	0001	11	.000	.01	11.0	3.0	21.0	14
06...	0002	11	2.00	7.5	4.90	.00	4.40	4.0
07...	0001	11	.030	.15	11.0	8.0	30.0	19
07...	0002	11	1.70	6.6	4.40	.60	3.90	5.0
07...	1600	11	.200	5.0	4.60	3.6	8.50	9.2
08...	0001	11	.010	.03	9.90	7.1	21.0	17
08...	0002	11	.890	4.5	6.40	.00	10.0	2.9
08...	0730	11	.070	4.4	6.30	2.8	8.50	9.1
12...	0001	11	.010	.06	10.0	6.0	17.0	16
12...	0002	11	1.30	5.8	5.80	1.9	8.00	7.7
13...	1115	11	.450	4.0	7.70	1.8	11.0	9.5
20...	1200	11	.420	4.4	8.10	4.9	16.0	13
26...	0002	11	.200	4.8	7.90	2.1	17.0	10
27...	1200	11	.160	5.2	6.30	2.5	10.0	9.8

## APPENDIX D-1

384852077014000 - BLUE PLAINS SEWAGE TREATMENT PLANT --- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	SESTON, TOTAL (MG/L) (71100)	SESTON, ASH WEIGHT (MG/L) (71101)	ADEN- OSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)
MAY								
12...	14	1.10	.610	17	12	--	--	--
JUN								
09...	21	.139	.036	32	--	27	.0	--
JUL								
09...	15	7.10	1.20	37	--	65	18	--
09...	13	.899	.767	8.5	--	7.0	.0	--
22...	12	2.40	1.90	33	--	50	17	--
22...	9.8	.806	.763	8.7	6.8	8.0	7.3	1.3
29...	21	4.20	2.30	32	--	--	--	--
29...	21	.432	.324	8.1	6.5	3.0	3.0	.40
AUG								
04...	18	4.90	2.90	--	--	--	--	--
04...	11	.183	.548	8.8	5.7	--	--	--
05...	13	3.90	3.00	--	--	--	--	.6
05...	13	.818	.719	9.5	5.8	7.0	2.5	--
06...	14	3.30	.462	24	--	--	--	--
06...	12	.909	.488	8.5	5.7	14	2.5	2.2
07...	19	5.10	.389	--	--	15	4.5	.1
07...	12	.713	.312	9.0	6.9	--	--	--
07...	13	.693	.265	13	--	--	--	--
08...	17	3.70	--	23	--	--	--	.4
08...	7.4	.893	.815	11	8.4	--	--	--
08...	14	.803	.047	9.7	--	--	--	--
12...	16	2.60	2.10	--	--	8.0	.0	--
12...	14	.535	.313	10	5.7	--	--	--
13...	14	.485	.268	--	--	17	.0	--
20...	17	.433	.201	7.9	--	12	2.0	--
26...	15	.662	.346	15	--	--	--	--
27...	14	.526	.529	14	--	11	.0	--

APPENDIX D-1  
01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LDC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L AS SiO2)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN,<
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APPENDIX D-1  
01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO-- GEN OIS-- SOLVED (MG/L AS W) (00602)	PHOS-- PHOSUS, TOTAL, (MG/L AS P) (00665)	P-HDS-- PHCRUS, SOLVED, (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL, (MG/L AS C) (00680)	CHLORO-- PHYLL A PHYTO-- PLANK-- TON, CORR. (UG/L) (32211)	PHED-- PHYLL A PHYTO-- PLANK-- TON, CORR. (UG/L) (32218)	CHLORO-- PHYLL A PHYTO-- PLANK-- TON, CORR. (UG/L) (32230)	CHLORO-- PHYLL A FLURO-- METRIC METHOD CORR. (UG/L) (32209)	PHEDPHY --TIN A FLURO-- METRIC METHOD (UG/L) (32213)	CHLORO-- PHYLL A FLURO-- METRIC METHOD UNCORR. (UG/L) (32217)	SEDI-- MENT, SUS-- PENDEI (MG/L) (80154)
OCT											
06...	1.5	.153	.080	7.5	3.20	1.30	4.20	--	--	--	76
11...	1.5	.130	.085	--	--	--	--	2.70	4.80	5.10	75
16...	1.5	.080	.040	--	--	--	--	--	--	--	38
23...	2.2	.080	.050	--	--	--	--	3.00	2.50	4.20	26
25...	2.1	.095	.058	--	--	--	--	3.10	1.80	4.00	29
28...	2.3	.111	.088	--	--	--	--	--	--	--	19
29...	2.6	.106	.076	--	--	--	--	2.10	1.20	2.70	13
30...	2.4	.099	.064	--	--	--	--	3.20	1.70	4.00	--
NOV											
05...	1.8	.159	.081	--	--	--	--	9.70	4.40	12.0	--
07...	1.6	.128	.051	--	--	--	--	--	--	--	43
13...	1.4	.094	.038	--	--	--	--	5.30	3.60	7.10	14
14...	1.5	.078	.037	--	--	--	--	3.00	2.50	4.30	16
15...	1.6	.078	.044	--	--	--	--	2.60	2.60	3.80	13
15...	4.2	.319	.160	--	--	--	--	--	--	--	11
20...	1.8	.100	.055	--	--	--	--	3.00	3.00	4.40	--
28...	1.4	.076	.040	--	--	--	--	5.00	4.20	7.00	24
28...	1.8	.091	.038	--	--	--	--	8.00	4.00	9.90	25
28...	1.6	.072	.036	--	--	--	--	9.30	4.20	11.3	20
DEC											
03...	1.8	.083	.053	--	--	--	--	6.10	5.00	8.60	16
03...	3.7	.143	.061	--	--	--	--	--	--	--	15
04...	4.1	.195	.095	--	--	--	--	1.80	2.40	3.00	8
04...	1.4	.080	.058	--	--	--	--	3.60	4.40	5.80	13
04...	1.5	.081	.060	--	--	--	--	3.50	3.50	5.20	7
13...	1.9	.066	.045	--	--	--	--	1.20	.900	1.70	12
13...	2.5	.064	.043	--	--	--	--	1.60	1.20	2.40	11
13...	6.7	.150	.084	--	--	--	--	.600	.700	1.00	7
13...	4.5	.141	.069	--	--	--	--	.400	.800	.900	15
13...	2.6	.052	.011	--	--	--	--	.900	.700	1.40	6
13...	2.5	.065	.041	--	--	--	--	1.10	1.00	1.80	6
19...	1.7	.016	.014	--	--	--	--	--	--	--	10
19...	2.0	.079	.061	--	--	--	--	--	--	--	--
20...	1.8	.056	.037	5.0	--	--	--	3.50	1.90	4.80	17
20...	1.8	.070	.041	--	--	--	--	5.70	2.10	7.20	18
27...	1.6	.032	.031	--	--	--	--	7.10	2.50	8.90	11
JAN											
02...	2.1	.080	.050	--	--	--	--	4.50	3.30	6.10	14
02...	6.6	.180	.100	--	--	--	--	3.00	2.30	4.10	14

APPENDIX D-1  
01652590 - POTOMAC R AT ALEXANDRIA, VA.--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM LI BANK)	SILICA, DIS- SOLVED (MG/LI AS SI02)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, N02+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/LI AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/LI AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)
JAN										
02...	1535	600	6.3	.010	.010	1.4	.150	.020	.36	.50
08...	0945	3400	4.8	.010	.010	1.6	.110	.100	.31	.24
08...	1020	600	5.8	.010	.020	1.4	1.30	1.30	.40	.30
08...	1310	3400	4.8	.010	.010	1.6	.180	.110	.32	.52
08...	1335	600	6.5	.010	.020	1.2	4.20	3.60	.00	.50
16...	1155	3400	3.8	.010	.010	1.6	.100	.100	.28	.32
16...	1240	600	4.7	.010	.010	1.4	1.30	1.20	.30	.30
21...	1130	3400	7.4	.020	.010	1.2	.120	.110	.27	.21
21...	1230	600	7.7	.020	.020	1.1	1.10	1.10	.30	.40
29...	1030	3400	--	--	--	--	--	--	--	--
29...	1100	600	--	--	--	--	--	--	--	--
29...	1300	3400	7.1	.010	.010	1.4	.090	.090	.12	.16
29...	1335	600	--	--	--	--	--	--	--	--
FEB										
04...	1320	3400	6.5	.020	.020	1.5	.280	.030	.18	.74
04...	1340	600	7.4	.020	.020	1.2	2.50	2.40	.30	.00
06...	1120	3400	6.5	.020	.020	1.5	.580	.580	.22	.20
06...	1145	600	7.6	.020	.020	1.2	3.50	3.40	.70	.70
11...	1025	3400	5.9	.020	.020	1.7	.170	.180	.30	.29
11...	1040	600	7.1	.020	.020	1.3	2.90	3.10	.30	.10
11...	1355	3400	6.1	.020	.020	1.7	.400	.390	.38	.36
11...	1420	600	7.0	.020	.020	1.4	2.40	2.30	.00	.10
20...	1300	3400	4.6	.020	.030	1.6	1.30	.250	.30	1.4
20...	1330	600	6.5	.030	.030	1.2	5.10	1.50	.00	3.3
28...	1040	3400	1.8	.020	.020	1.2	.180	.180	.29	.20
28...	1115	600	4.1	.020	.020	1.0	3.90	3.90	.70	.70
MAR										
06...	1100	3400	3.3	--	.030	1.2	--	.670	--	.53
06...	1120	600	4.3	--	.030	1.0	--	2.60	--	1.2
06...	1415	3400	3.0	--	.020	1.2	--	.380	--	.42
06...	1435	600	4.8	--	.030	.95	--	3.80	--	.50
10...	1115	3400	1.6	--	.020	1.2	--	.130	--	.55
10...	1135	600	3.2	--	.020	1.0	--	3.40	--	.00
10...	1420	3400	1.6	--	.020	1.2	--	.210	--	.33
10...	1445	600	2.6	--	.020	1.1	--	1.30	--	.50
17...	0920	3400	3.5	--	.020	1.3	--	.400	--	.11
17...	0945	600	4.5	--	.040	.94	--	2.30	--	.20
17...	1230	600	4.9	--	.030	.93	--	1.80	--	.60
17...	1250	3400	3.7	--	.020	1.0	--	.050	--	.36
22...	1310	3400	1.0	--	.030	.76	--	.030	--	.40

APPENDIX D-1  
01652590 - POTOMAC R AT ALEXANDRIA, VA.--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L) AS N	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L) AS N	NITRO- GEN DIS- 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	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)	SEDI- MENT, SUS- PENDED, (MG/L)
JAN									
02...	.51	.52	1.9	.080	.050	--	2.50	2.10	15
08...	.42	.34	1.9	.070	.050	--	3.60	1.60	7
08...	1.70	1.6	3.0	.120	.090	--	2.30	1.20	9
08...	.50	.63	2.2	.070	.050	--	3.40	1.20	4
08...	4.10	4.1	5.3	.339	.267	--	1.90	.900	6
16...	.38	.42	2.0	.056	.037	--	2.60	1.70	8
16...	1.60	1.5	2.9	.131	.076	--	3.10	1.40	3
21...	.39	.32	1.5	.078	.054	--	12.3	6.80	16
21...	1.40	1.5	2.6	.135	.107	--	8.00	4.40	13
29...	--	--	--	--	--	--	3.60	2.90	21
29...	--	--	--	--	--	--	1.10	1.40	8
29...	.21	.23	1.7	.044	.040	--	2.40	1.60	27
29...	--	--	--	--	--	--	1.20	1.00	10
FEB									
04...	.46	.77	2.3	.076	.060	--	2.30	1.10	--
04...	2.80	2.4	3.6	.338	.212	--	2.20	1.10	8
06...	.78	.74	2.2	.109	.089	--	2.30	.800	9
06...	4.20	4.1	5.3	.030	.023	--	1.00	.800	8
11...	.47	.47	2.2	.073	.057	--	2.30	.600	6
11...	3.20	3.2	4.5	.296	.194	--	.600	.500	8
11...	.78	.75	2.5	.108	.089	--	1.40	.700	5
11...	2.40	2.4	3.8	.197	.162	--	.900	.400	6
20...	1.60	1.6	3.2	.162	.121	--	3.90	1.00	8
20...	5.00	4.8	6.0	.396	.000	--	1.10	.900	9
28...	.47	.38	1.6	.061	.051	--	8.40	3.00	--
28...	4.60	4.6	5.6	.607	.556	--	6.90	3.00	--
MAR									
06...	1.20	1.2	2.4	.138	.075	--	7.50	4.60	--
06...	3.20	3.8	4.8	.272	.186	--	3.60	1.50	--
06...	1.10	.80	2.0	.199	.085	--	6.80	2.30	--
06...	4.50	4.3	5.3	.333	.230	--	2.90	1.30	--
10...	--	.68	1.9	--	.033	2.8	10.7	3.40	5
10...	3.10	2.9	3.9	.363	.275	4.9	3.60	1.90	7
10...	.68	.54	1.7	.050	.042	--	11.1	3.00	--
10...	2.00	1.8	2.9	.177	.143	--	5.10	2.10	--
17...	.65	.51	1.8	.069	.033	--	11.6	5.10	18
17...	2.70	2.5	3.4	.278	.121	--	3.20	2.40	16
17...	3.60	2.4	3.3	.150	.033	--	12.7	4.50	15
17...	--	.41	1.4	--	.033	--	56.6	23.8	27
22...	1.30	.43	1.2	.132	.011	--	--	67.3	139



APPENDIX D-1  
01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA: WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LJC- 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 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- TOTAL (MG/L) AS N) (00623)
MAR									
22...	1345	600	6.7	.040	1.1	2.60	.20	3.30	2.8
25...	1045	3400	7.0	.050	1.4	.000	.37	.51	.37
25...	1105	600	7.4	.040	1.2	2.50	.20	2.80	2.7
27...	1630	3400	7.2	.010	1.2	1.60	.00	.17	.33
27...	1710	600	7.3	.010	.51	.780	1.2	1.80	2.0
31...	1130	3400	6.8	.020	1.5	.000	.29	.32	.29
31...	1150	600	7.4	.020	1.3	1.30	.30	1.80	1.6
31...	1515	3400	6.8	.020	1.5	.030	.00	.56	.00
31...	1550	600	7.4	.030	1.2	1.50	.40	1.90	1.9
APR									
03...	0950	3400	6.7	.020	1.1	.000	.26	.41	.26
03...	1010	600	6.8	.020	1.0	.800	.40	1.40	1.2
03...	1250	3400	6.4	.020	1.2	.020	.42	.77	.44
03...	1315	600	7.0	.020	.96	1.40	.00	1.20	1.3
07...	1300	3400	7.4	.010	1.4	.080	.24	.53	.32
07...	1335	500	8.2	.020	1.2	1.90	.00	1.60	1.8
09...	1145	3400	7.1	.010	1.4	1.50	.27	.47	.42
14...	1345	3400	7.4	.020	1.1	1.40	.30	.47	1.4
14...	1410	500	7.5	.020	1.1	1.40	.90	1.90	2.3
14...	1550	3400	7.0	.010	1.2	.100	.19	.41	.29
14...	1610	600	6.9	.010	1.2	.090	.31	1.80	.40
18...	1100	3400	6.9	.020	1.1	.140	.41	.44	.55
18...	1125	600	8.1	.020	.97	2.10	.60	3.00	2.7
18...	1500	3400	6.9	.020	1.1	.630	.47	.37	1.1
18...	1530	500	7.7	.020	1.0	1.20	.20	1.90	1.4
21...	1000	3400	7.2	.010	1.2	.100	.14	.52	.24
21...	1025	500	.0	.020	.90	2.00	.00	2.70	2.4
21...	1400	3400	7.2	.010	1.1	.230	.21	.59	.44
21...	1425	600	7.9	.020	.82	3.00	.50	3.30	3.5
22...	0940	3400	7.1	.010	1.2	.160	.23	.42	.39
22...	1030	500	8.0	.020	.93	2.40	.00	2.50	2.3
22...	1200	3400	6.0	.010	1.3	.130	.38	.63	.51
29...	1225	600	7.4	.020	.87	3.00	1.6	4.80	4.6
29...	1545	3400	6.2	.010	1.3	.060	.28	.60	.34
29...	1635	500	6.9	.020	.97	2.00	1.2	3.40	3.2
30...	1030	3400	6.2	.020	1.4	.130	.61	.92	.74
30...	1105	500	7.1	.020	1.1	1.80	.80	2.70	2.6
MAY									
02...	0700	3400	7.5	.020	1.2	.090	.16	.52	.25
02...	0730	500	7.4	.030	1.0	1.50	.30	1.80	1.8

APPENDIX D-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	SEDIM- ENT, SUS- PENDED (MG/L) (80154)
MAR								
22...	3.9	.274	.084	--	17.6	10.7	22.5	60
25...	1.8	.106	.037	3.5	13.5	7.60	17.0	56
25...	3.9	.422	.084	--	7.30	5.10	9.60	39
27...	1.5	.091	.034	--	30.0	4.80	31.9	27
27...	2.5	.135	.048	--	5.00	2.50	6.10	22
31...	1.8	.125	.058	3.5	14.0	7.60	17.5	52
31...	2.9	.156	.066	5.8	7.70	3.70	9.40	26
31...	1.5	.102	.054	--	14.1	6.90	17.2	41
31...	3.1	.152	.053	--	5.50	3.20	7.00	25
APR								
03...	1.4	.050	.023	12	12.8	6.60	15.8	38
03...	2.2	.121	.039	5.4	8.60	4.90	10.9	32
03...	1.6	.160	.036	6.6	18.8	9.40	23.1	67
03...	2.3	.114	.034	5.8	6.00	4.40	8.10	36
07...	1.7	.085	.045	--	13.1	4.40	15.0	26
07...	3.0	.155	.063	--	5.00	3.20	6.40	25
09...	1.8	.077	.041	--	15.0	4.80	17.1	31
14...	2.8	.121	.065	--	7.20	7.60	10.8	51
14...	3.4	.177	.076	--	6.60	5.50	9.20	42
14...	1.5	.112	.051	--	5.40	6.30	8.40	36
14...	1.6	.171	.040	--	5.70	5.80	8.40	37
18...	1.7	.094	.046	--	3.60	4.00	5.50	47
18...	3.7	.194	.072	--	1.20	1.20	1.50	30
18...	2.2	.123	.051	--	1.50	1.70	2.30	50
18...	2.4	.177	.096	--	2.20	3.80	4.00	40
21...	1.4	.100	.044	--	4.70	4.60	6.80	29
21...	.90	.188	.081	--	2.80	3.10	4.20	27
21...	1.5	.075	.043	--	3.10	2.40	4.30	21
21...	4.3	.112	.109	--	3.00	3.20	4.60	24
22...	1.6	.107	.170	5.0	6.20	4.60	8.30	26
22...	3.2	.192	.098	3.5	3.20	2.80	4.50	20
29...	1.8	.088	.046	--	16.2	7.40	19.6	41
29...	5.5	.210	.091	--	2.30	1.80	3.10	18
29...	1.6	.088	.040	--	17.5	4.70	19.5	38
29...	4.2	.118	.067	--	8.70	3.70	10.3	16
30...	2.1	.082	.056	--	15.0	8.20	18.8	32
30...	3.7	.172	.112	--	7.70	4.40	9.80	20
MAY								
02...	1.5	.058	.050	--	5.10	6.00	7.90	26
02...	2.8	.137	.058	--	4.20	4.70	6.40	19

APPENDIX D-1  
01652590 - POTOMAC R AT ALEXANDRIA, VA.--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOCATION, CROSS SECTION (FT FWD L BANK)	(00009)	SILICA, DIS- SOLVED (MG/L) AS SiO2	(00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N	(00613)	NITRO- GEN, NITRO- AMMONIA DIS- SOLVED (MG/L) AS N	(00608)	NITRO- GEN, DIS- SOLVED (MG/L) AS N	(00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N	(00625)
MAY															
06...	0800	--		3400		7.2		.010		1.0	.040		.33	.54	
06...	0910	--		600		8.0		.020		.91	2.10		.20	2.30	
06...	1030	--		600		8.1		.020		.85	2.00		.30	2.70	
06...	1035	--		3400		7.3		.020		1.0	.020		.51	.46	
08...	1900	--		600		8.5		.020		.90	2.60		.00	3.20	
08...	1910	--		3400		7.4		.010		1.2	.100		.44	.63	
12...	1055	--		600		7.9		.020		1.0	2.50		.50	3.80	
12...	1100	--		3400		6.6		.010		1.3	.130		.04	.65	
12...	1425	--		600		7.9		.020		.99	2.40		.60	3.70	
12...	1430	--		3400		6.4		.010		1.3	.060		.26	.54	
15...	0650	--		3400		4.5		.020		.88	.020		.08	.26	
15...	0720	--		600		5.7		.020		1.1	.670		1.4	2.00	
19...	0945	--		3400		.6		.020		.31	.100		.26	.68	
19...	1005	--		600		2.6		.030		.71	1.60		.00	1.90	
22...	0640	--		3400		1.9		--		.95	--		--	.43	
22...	0645	--		600		3.9		.020		.67	2.40		.70	3.20	
22...	1030	--		3400		3.3		.020		1.3	.130		.14	.53	
22...	1035	--		600		2.7		.020		.91	.530		.19	.85	
28...	1710	--		600		7.5		.020		.92	1.20		.30	1.40	
28...	1715	--		3400		7.1		.020		.99	.120		.08	.27	
28...	2010	--		600		7.7		.030		.99	1.60		.30	2.20	
28...	2015	--		3400		7.3		.020		.99	.110		.26	.37	
30...	1300	--		600		7.1		.020		1.1	.220		.24	.72	
30...	1310	--		3400		7.6		.020		.94	1.80		.00	1.90	
JUN															
02...	1505	12		600		7.8		.030		.88	2.20		.60	2.90	
02...	1506	--		600		7.5		.030		.89	2.30		.70	3.30	
02...	1507	3.0		600		7.7		.030		.90	2.00		.90	2.60	
02...	1510	3.0		3400		6.6		.020		1.2	.280		.18	.62	
02...	1511	36		3400		6.9		.020		1.1	.730		.07	.73	
02...	1512	--		3400		6.3		.020		1.2	.490		.14	.81	
02...	1810	3.0		600		6.4		.000		.08	.270		.93	1.40	
02...	1811	12		600		6.6		.090		.13	.340		.96	1.80	
02...	1850	3.0		3400		6.0		.000		.13	.310		.00	.44	
02...	1851	36		3400		5.9		.000		.04	.270		.06	--	
05...	1050	--		600		5.5		.030		.88	1.50		.30	1.90	
05...	1100	--		3400		4.6		.020		--	.580		.38	1.20	
09...	1830	--		600		3.8		.030		.91	.820		.38	1.80	
09...	1900	--		3400		3.5		.020		.93	.460		.26	1.10	
12...	1200	--		3400		3.2		.020		1.1	.210		.32	2.50	

APPENDIX D-1

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

WATER QUALITY DATA: WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	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)	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)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
MAY								
06...	.37	1.4	.055	.045	3.00	3.00	4.50	29
06...	2.3	3.2	.189	.119	1.90	2.30	3.00	22
06...	2.3	3.2	.147	.106	1.40	1.90	2.30	20
06...	.53	1.5	.056	.043	2.60	2.50	3.80	20
08...	1.8	2.7	.141	.102	2.90	2.40	4.00	16
08...	.54	1.7	.043	.041	6.50	3.20	7.90	35
12...	3.0	4.0	.249	.182	12.5	2.70	13.6	14
12...	.17	1.5	.094	.041	22.8	4.40	24.6	27
12...	3.0	4.0	.236	.164	13.0	2.20	13.9	13
12...	.32	1.6	.076	.031	27.5	3.50	28.8	19
15...	.10	.98	.082	.023	33.8	12.8	39.6	36
15...	2.1	3.2	.128	.045	33.9	13.1	39.8	23
19...	.36	.67	.044	.016	50.0	14.6	56.4	24
19...	1.5	2.2	.102	.035	39.5	12.4	45.0	27
22...	--	--	.108	.010	46.6	15.2	53.3	55
22...	.27	3.8	.182	.077	35.0	9.80	39.2	16
22...	.72	1.6	.136	.032	42.0	16.2	49.2	44
28...	1.5	2.4	.115	.057	12.8	4.60	14.9	31
28...	.20	1.2	.083	.039	7.20	4.30	9.20	21
28...	1.9	2.9	.142	.062	15.5	2.50	16.5	35
28...	.37	1.4	.078	.038	5.90	3.00	7.20	20
30...	.46	1.6	.112	.043	12.2	4.60	14.3	29
30...	1.7	2.6	.148	.052	11.1	6.30	14.0	55
JUN								32
02...	2.8	3.7	.361	.169	31.5	10.7	36.2	50
02...	3.0	3.9	.269	.183	27.5	7.50	30.8	17
02...	2.9	3.8	.235	.170	31.5	5.60	33.8	21
02...	.46	1.7	.083	.046	51.0	6.70	53.5	18
02...	.80	1.9	.508	.070	35.0	33.0	50.5	--
02...	.63	1.8	.140	.062	38.0	7.80	41.2	28
02...	1.2	1.3	.157	.063	43.5	10.6	48.0	32
02...	1.3	1.4	.186	.079	--	--	--	24
02...	.27	.40	.074	.024	39.7	7.70	42.8	13
02...	.33	.37	--	.029	30.6	7.80	33.9	20
05...	1.8	2.7	.128	.041	25.5	12.1	31.0	27
05...	.96	--	.105	.078	16.6	15.4	23.8	41
09...	1.2	2.1	.096	.012	48.0	16.9	55.5	49
09...	.72	1.7	.146	.047	39.5	17.2	47.3	32
12...	.53	1.6	.160	.011	--	--	--	26

APPENDIX D-1  
01652590 - POTOMAC R AT ALEXANDRIA, VA. --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/LI AS SiO2)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NH4-N 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 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
			(00009)	(00955)	(00613)	(00631)	(00608)	(00607)	(00625)	(00623)	(00665)
JUN											
12...	1220	--	500	3.5	.040	.82	3.00	.00	.94	2.6	.085
17...	1725	--	300	3.5	.050	.70	2.00	.60	3.20	2.6	.162
1805		--	40000	2.1	.020	.77	.410	.15	.85	.56	.093
19...	1740	--	40000	2.1	.020	.80	.350	.10	.73	.45	.080
19...	1750	--	30000	4.1	.060	.62	3.60	.00	3.80	3.4	.191
19...	2115	--	40000	17	.020	.80	.180	.14	.70	.32	.060
19...	2130	--	30000	1.9	.050	.67	1.90	.70	3.20	2.6	.139
23...	1730	--	600	3.2	.050	.72	2.00	.20	2.60	2.2	.105
23...	1740	--	3400	2.4	.030	.84	.620	.23	.80	.85	.087
27...	1325	--	30000	2.9	.050	.56	2.40	.20	3.10	2.6	1.10
27...	1400	--	40000	2.2	.030	.64	.780	.19	1.40	1.2	.150
30...	1450	--	3400	2.5	.050	.66	.700	.50	1.40	1.2	.143
30...	1510	--	600	3.3	.090	.59	2.30	.30	3.20	2.6	.213
JUL											
04...	1525	--	30000	3.3	.140	.58	1.80	.90	3.10	2.7	.197
04...	1600	--	40000	2.6	.080	.55	1.30	.50	2.00	1.8	.134
07...	1215	--	3400	2.1	.100	.58	.780	.42	1.30	1.2	.147
07...	1240	--	600	2.9	.220	.81	1.90	.60	2.60	2.5	.209
09...	1350	--	30000	2.9	.040	.48	.200	2.3	2.40	2.5	.168
09...	1355	9.0	300	--	--	--	--	--	--	--	--
09...	1430	--	40000	2.5	.070	.56	.570	.53	1.20	1.1	.103
10...	1115	--	600	3.4	.170	.80	1.80	.60	2.60	2.4	.181
10...	1215	--	3400	2.6	.080	.61	.770	.53	1.30	1.3	.121
15...	1830	--	3400	2.7	.050	.99	.230	.49	1.10	.72	.104
15...	1900	--	600	2.5	.100	1.1	.530	.57	1.60	1.1	.153
16...	1340	--	30000	2.1	.120	1.2	.820	.06	1.40	.88	.142
16...	1415	--	40000	2.6	.080	1.0	.550	.00	.87	.20	.127
21...	1330	--	3400	3.0	.100	.84	.800	.50	.97	1.3	.058
21...	1340	--	600	2.4	.140	1.1	.820	.48	1.50	1.3	.044
23...	0600	--	30000	3.4	.140	1.1	.940	.16	2.00	1.1	.157
23...	0630	--	40000	3.4	.110	.92	.930	.00	1.60	.87	.110
23...	1645	--	30000	3.3	.120	1.0	.870	.00	1.90	.95	.167
23...	1720	--	40000	3.6	.090	.73	.940	.96	1.70	1.9	.169
30...	0610	--	30000	6.1	.150	1.1	1.30	.60	2.30	1.9	.182
30...	0701	--	40000	6.6	.080	.82	1.20	.60	1.40	1.8	.155
30...	1625	--	30000	6.0	.130	.97	1.20	.10	1.90	1.3	.167
30...	1715	--	40000	6.4	.070	.76	.610	.00	1.30	.59	.183
AUG											
04...	0610	--	30000	6.2	.210	1.3	1.30	.20	1.90	1.5	.088
04...	0640	--	40000	5.9	.120	.72	.900	.20	1.30	1.1	.176

APPENDIX D-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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)	SESTON, TOTAL (MG/L) (71100)	SESTON ASH WEIGHT (MG/L) (71101)	CHLORO- PHYLL A FLUORO- METRIC 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)
JUN											
12...	.044	--	--	--	--	20.9	10.8	25.8	--	--	24
17...	.060	--	--	--	--	31.6	16.8	39.3	--	--	28
19...	.020	--	--	--	--	28.5	15.8	35.8	--	--	30
19...	.010	--	--	--	--	31.0	13.3	37.0	--	--	17
19...	.076	--	--	--	--	38.0	15.5	45.0	--	--	19
19...	.009	--	--	--	--	65.0	25.6	76.5	--	--	15
19...	.037	--	--	--	--	75.5	20.0	84.0	--	--	16
23...	.020	--	--	--	--	43.5	17.0	54.5	--	--	18
23...	.013	--	--	--	--	31.7	21.0	39.4	--	--	19
27...	.220	--	--	--	--	23.6	19.8	33.4	--	--	23
27...	.064	--	--	--	--	26.0	16.2	35.2	--	--	26
30...	.047	--	--	--	--	26.0	16.2	33.5	--	--	29
30...	.095	--	--	--	--				--	--	20
JUL											
04...	.121	--	--	--	--	19.3	12.9	25.3	--	--	27
04...	.109	--	--	--	--	12.6	14.6	19.5	--	--	22
07...	.051	--	--	--	--	16.0	20.0	25.5	--	--	19
07...	.086	--	--	--	--	21.5	13.5	27.8	--	--	24
09...	.090	3.5	2.5	--	--	12.8	11.7	18.3	--	--	18
09...	--	--	--	--	--	9.80	15.5	17.2	--	--	25
09...	.042	--	--	--	--	10.2	19.2	19.4	--	--	25
10...	.108	--	--	--	--	11.1	10.8	16.2	--	--	21
10...	.047	--	--	--	--	9.50	17.8	18.0	--	--	25
15...	.013	--	--	--	--	--	--	--	--	--	22
15...	.043	--	--	--	--	--	--	--	--	--	37
16...	.042	--	--	--	--	--	--	--	--	--	15
16...	.047	--	--	--	--	--	--	--	--	--	--
21...	.034	--	--	--	--	--	--	--	--	--	--
21...	.083	3.0	3.5	21	19	32.2	28.0	45.4	--	--	--
23...	.063	4.8	3.6	14	12	28.5	18.4	37.0	--	--	--
23...	.023	4.9	3.5	36	32	69.0	19.6	77.5	--	--	--
23...	.078	3.7	3.4	19	16	33.4	22.9	44.0	7.7	7.7	22
23...	.085	5.4	3.3	20	18	47.8	20.3	33.5	1.6	1.6	21
30...	.073	4.3	3.0	25	24	18.2	17.8	26.6	3.0	3.0	20
30...	.069	5.6	3.4	31	20	28.4	14.1	34.8	1.4	1.4	20
30...	.063	4.9	3.2	20	18	18.2	19.3	27.4	3.5	3.5	25
AUG						39.7	13.9	45.9	4.1	4.1	30
04...	.072	7.2	3.4	21	8.5	30.4	19.7	39.5	3.0	3.0	31
04...	.071	5.6	2.9	30	16	11.3	18.4	33.7	1.8	1.8	17
04...	--	--	--	--	--	21.8	--	30.4	--	--	20
04...	--	--	--	--	--	28.6	--	--	--	--	26

## APPENDIX D-1

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FIT FM L BANK) (00009)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	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)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00602)
AUG											
04...	1630	30000	5.7	.190	--	.840	--	.36	1.70	1.2	2.4
04...	1730	40000	5.9	.130	--	.790	--	.41	1.10	1.2	2.0
05...	0545	30000	5.9	.220	--	1.00	--	.40	1.90	1.4	2.7
05...	0600	40000	--	--	--	--	--	--	--	--	--
05...	1615	30000	6.0	.170	--	.730	--	.57	.94	1.3	2.2
05...	1645	40000	5.7	.160	--	.820	--	.28	.79	1.1	2.0
06...	0545	30000	5.9	.220	--	.830	--	.04	.50	.87	2.0
06...	0610	40000	5.7	.190	--	.860	--	.00	.85	.74	1.6
06...	1610	30000	5.9	.230	--	.490	--	.51	1.50	1.0	2.1
06...	1630	40000	5.9	.220	--	.720	--	.24	.55	.96	1.9
07...	0630	30000	5.5	.260	--	.630	--	.24	.50	.87	2.0
07...	0650	40000	5.3	.230	--	.710	--	.25	.94	.96	1.9
07...	1610	30000	6.2	.280	--	.670	--	.33	.47	1.0	2.2
07...	1620	40000	6.2	.230	--	.630	--	.31	.66	.94	1.8
08...	0600	30000	6.1	.290	--	.650	--	.13	.90	.78	1.9
08...	0610	40000	6.0	.270	--	.680	--	.42	1.10	1.1	2.2
08...	1635	30000	1.4	.310	--	.670	--	.73	1.20	1.4	2.8
08...	1700	40000	--	--	--	--	--	--	--	--	--
11...	1730	30000	5.7	.260	--	.860	--	.10	1.90	.96	2.2
11...	1800	40000	5.7	.200	--	.840	--	.36	1.60	1.2	2.0
13...	0600	30000	6.0	.250	--	1.30	--	.60	2.00	1.9	3.1
13...	0640	40000	6.0	.200	--	.980	--	.62	1.40	1.6	2.4
13...	1625	30000	6.0	.230	--	1.10	--	.40	2.10	1.5	2.8
13...	1630	40000	5.8	.170	--	.850	--	.14	1.40	.99	1.8
19...	1300	600	5.4	.200	--	1.20	--	.50	1.60	1.7	2.7
19...	1330	3400	5.5	.180	--	1.20	--	.00	1.20	.68	1.6
20...	0710	30000	6.9	.210	--	3.00	--	.30	3.00	3.3	5.0
20...	0715	40000	5.9	.150	--	1.10	--	.40	1.70	1.5	2.3
20...	1650	30000	4.5	.190	--	.470	--	.63	1.20	1.1	2.1
20...	1715	40000	5.3	.190	--	1.20	--	.50	1.50	1.7	2.6
25...	1940	30000	5.1	.090	--	.660	--	.34	1.20	1.0	1.9
25...	2015	40000	5.2	.090	--	.680	--	.32	1.10	1.0	1.9
28...	1245	30000	5.5	.110	--	1.60	--	.00	1.80	1.6	3.1
28...	1300	40000	5.3	.090	--	.740	--	.11	.80	.85	1.9
SEP											
03...	1700	30000	5.9	.160	1.40	1.40	.00	.00	1.40	1.4	2.8
03...	1730	40000	5.7	.140	1.10	1.10	.60	.40	1.70	1.5	2.7
04...	1420	30000	6.1	.190	--	1.70	--	.00	2.50	1.6	3.1
04...	1430	40000	5.8	.150	--	1.30	--	.10	1.70	1.4	2.7
08...	1215	30000	6.0	.240	--	1.80	--	.00	1.80	1.6	3.1

## APPENDIX D-1

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

## WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	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)	SESTON, TOTAL (MG/L)	SESTON ASH WEIGHT (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	ALGAL GROWTH POTENTIAL (MG/L)	ADEN- OSINE TRI- PHOS- PHATE (ATP) (UG/L)	SEDI- MENT, SUS- PENDED (MG/L)
AUG											
04...	.162	.025	5.7	3.4	25	15	79.0	11.6	83.5	7.9	12
04...	.127	.042	5.0	3.3	17	11	33.0	12.8	38.8	1.7	--
05...	.165	.034	6.8	3.5	22	14	48.1	7.50	51.1	4.9	18
05...	--	--	--	--	19	15	18.2	11.2	23.4	--	13
05...	.185	.047	4.9	3.5	16	9.0	56.5	13.5	62.2	3.2	--
05...	.147	.042	4.9	3.1	20	14	28.4	12.3	34.0	1.4	--
06...	.282	.055	6.8	4.1	23	14	48.8	14.6	55.1	12	--
06...	.128	.042	4.5	2.9	17	18	19.9	9.80	24.3	2.5	25
06...	.162	.029	8.2	3.9	20	11	87.5	15.5	93.8	4.3	17
06...	.217	.023	11	4.1	39	30	33.5	15.8	40.7	1.4	46
07...	.125	.041	5.8	3.2	23	15	45.7	11.5	50.6	4.8	25
07...	.119	.039	5.2	3.1	18	12	16.8	10.2	21.6	1.6	17
07...	.212	.028	7.3	3.8	19	6.5	71.0	16.8	78.2	--	19
07...	.154	.036	14	3.2	20	12	33.8	12.9	39.6	--	29
08...	.199	.044	5.7	3.5	20	12	30.8	13.0	36.7	3.3	21
08...	.199	.057	2.4	3.5	24	17	22.8	15.8	30.2	1.9	20
08...	.215	.025	6.7	3.7	27	16	79.1	15.5	85.4	5.4	24
08...	--	--	--	--	35	25	61.8	15.0	68.2	2.1	37
11...	.171	.038	4.3	--	--	--	68.8	13.0	74.1	--	29
11...	.222	.074	3.4	--	--	--	40.5	10.4	45.0	--	25
13...	.167	.048	.0	3.6	22	13	49.1	13.6	55.0	2.9	17
13...	.165	.065	4.0	3.2	24	17	24.5	14.1	31.0	2.3	22
13...	.149	.035	7.0	5.8	22	11	61.0	13.6	66.7	2.5	13
13...	.160	.058	5.4	3.6	12	7.5	42.6	11.1	47.4	5.6	25
19...	.132	.041	--	--	--	--	39.2	11.1	44.0	--	14
19...	.125	.045	--	--	--	--	17.0	10.8	15.4	--	22
20...	.176	.066	5.2	6.1	24	14	17.0	10.3	21.8	.9	20
20...	.081	.096	2.7	3.9	23	18	14.5	10.7	19.5	2.0	19
20...	.130	.014	4.0	--	24	16	40.5	12.5	46.0	2.9	22
20...	.141	.049	2.0	3.4	21	15	14.6	10.3	19.4	5.3	28
25...	.031	.042	2.4	--	--	--	14.1	10.7	19.1	--	22
25...	.031	.049	3.4	--	--	--	33.0	12.5	38.6	--	22
28...	.257	.133	--	--	--	--	14.4	10.3	19.2	--	21
28...	.124	.057	--	--	--	--	54.2	9.60	58.1	--	33
SEP											
03...	.104	.017	6.7	--	--	--	18.4	7.00	21.5	--	17
03...	.095	.018	6.2	--	--	--	31.3	10.6	36.0	--	15
04...	.085	.045	--	--	--	--	12.7	11.5	18.0	--	16
04...	.099	.047	--	--	--	--	--	--	--	--	28
08...	.158	.068	--	--	--	--	--	--	--	--	11



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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	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, 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)
SEP										
08...	1225	40000	5.7	.230	--	1.20	--	.00	1.60	1.5
1940	30000		5.4	.260	--	1.70	--	.00	2.30	2.7
2000	40000		5.3	.230	--	1.40	--	.00	1.70	2.6
15...	1500	40000	4.8	.230	1.30	1.40	.20	.20	1.50	2.9
15...	1525	30000	5.6	.240	2.10	2.10	.60	.20	2.70	4.0
16...	1600	3700	5.2	.230	--	1.50	--	.80	1.80	3.7
16...	1620	600	5.7	.260	--	2.70	--	.00	2.80	4.1
22...	1420	3400	4.7	.250	--	1.30	--	.60	.58	3.1
22...	1445	600	5.3	.290	--	.100	--	.57	1.10	2.3

APPENDIX D-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PHOS- TOTAL (MG/L AS P)	PHOS- DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	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)	ALGAL GROWTH- POTEN- TIAL (MG/L)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L)	NITROSO -MANAS, MOST PROB. NUMBER PER 100 ML (82469)	NITRO- BACTER- MOST PROB. NUMBER PER 100 ML (82532)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
SEP											
08...	.086	.059	--	43.3	47.3	9.60	--	--	--	--	18
11...	.151	.052	--	19.6	27.2	16.0	--	--	--	--	15
11...	.146	.057	--	13.6	19.8	13.0	--	--	--	--	40
15...	.088	.033	5.8	28.1	33.0	11.0	57	.8	43000	230	18
15...	.197	.065	7.3	--	--	--	38	1.1	43000	430	27
16...	.129	.030	5.6	--	--	--	--	--	--	--	20
16...	.216	.072	7.8	21.7	26.7	10.9	--	--	--	--	21
22...	.125	.062	--	35.0	39.7	10.8	--	--	--	--	15
22...	.143	.059	--	--	--	--	--	--	--	--	16

## APPENDIX D-1

## 384605077015800 - POTOMAC RIVER AT ROSIER BLUFF

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION, CROSS SECTION, (FT FM LI BANK)	SILICA, DIS- SOLVED (MG/L) AS SI02)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, N2+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)
OCT		800	7.3	.040	.010	1.0	.110	.100	.59	.61
06...	0830									
JUN		50000	2.4	--	.060	.64	--	1.30	--	.40
30...	1150									
30...	1630	50000	2.8	--	.060	.66	--	1.40	--	.70
JUL										
23...	0745	50000	3.4	--	.110	.94	--	.920	--	.00
23...	1640	50000	3.5	--	.100	.90	--	.900	--	.09
30...	0625	50000	5.8	--	.100	.83	--	1.00	--	.60
30...	1650	50000	5.9	--	.110	.85	--	1.00	--	.40
AUG										
04...	0615	50000	5.5	--	.140	.88	--	.990	--	.81
04...	1630	50000	5.2	--	.140	.88	--	.860	--	.44
05...	0600	50000	5.5	--	.150	.82	--	.740	--	.66
05...	1815	50000	5.6	--	.150	.91	--	.850	--	.95
06...	0610	50000	5.4	--	.180	.93	--	.900	--	.40
06...	1615	50000	5.7	--	.190	.89	--	.690	--	.61
07...	0640	50000	5.3	--	.200	.91	--	.820	--	.18
07...	1645	50000	5.9	--	.230	.95	--	.760	--	.15
08...	0600	50000	5.6	--	.230	.98	--	.780	--	.21
08...	1645	50000	5.9	--	.260	1.0	--	.580	--	.72
08...	1630	50000	5.8	--	.250	1.0	--	.810	--	.00
11...	0600	50000	6.0	--	.240	.96	--	1.10	--	.20
13...	1610	50000	5.8	--	.240	1.0	--	1.00	--	.40
20...	0620	50000	5.6	--	.190	.93	--	1.20	--	.90
20...	1615	50000	5.4	--	.190	.90	--	1.30	--	.30
25...	1815	50000	5.2	--	.100	.88	--	.840	--	.66
SEP										
03...	1610	50000	5.7	--	.130	1.2	1.00	1.10	.30	.40
15...	1620	50000	5.1	--	.230	1.5	1.50	1.50	.00	.10

APPENDIX D-1

384605077015800 - POTOMAC RIVER AT ROSIER BLUFF -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L) AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N)	NITRO- GEN DIS- SOLVED (MG/L) AS V)	P-HOS- 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)	SESTON, TOTAL (MG/L) (71100)	SESTON ASH WEIGHT (MG/L) (71101)	CHLORO- PHYLLA PHYTO- PLANK- TON, CORR. (UG/L) (32211)
OCT 06...	.70	.71	1.7	.133	.078	7.8	--	--	--	1.90
JUN 30...	2.10	1.7	2.3	.127	.076	--	--	--	--	--
JUL 30...	2.20	2.1	2.8	.150	.080	--	--	--	--	--
23...	1.50	.65	1.6	.124	.067	5.2	3.6	18	17	--
23...	1.80	.99	1.9	.123	.063	4.2	3.4	18	15	--
30...	1.20	1.6	2.4	.163	.059	4.5	3.1	32	32	--
30...	2.00	1.4	2.3	.179	.073	5.4	4.7	21	18	--
AUG 04...	1.20	1.8	2.7	.114	.042	5.0	3.6	24	21	--
04...	1.20	1.3	2.2	.087	.025	4.6	3.4	14	9.0	--
05...	1.20	1.4	2.2	.162	.054	5.5	3.2	21	16	--
05...	.89	1.8	2.7	.124	.033	5.8	3.0	23	17	--
06...	1.40	1.3	2.2	.083	.037	19	13	21	16	--
06...	1.50	1.3	2.2	.174	.066	5.6	3.6	20	16	--
07...	1.10	1.0	1.9	.099	.042	4.7	3.3	19	15	--
07...	.57	.91	1.9	.147	.031	6.1	3.2	25	18	--
08...	.95	.99	2.0	.167	.034	2.6	3.6	27	19	--
08...	1.60	1.3	2.3	.210	.036	6.5	3.3	47	40	--
11...	1.70	.80	1.8	.167	.050	4.4	--	--	--	--
13...	1.70	1.3	2.3	.132	.057	4.2	3.4	21	15	--
13...	1.20	1.4	2.4	.137	.045	7.0	3.9	--	--	--
20...	1.80	2.1	3.0	.073	.080	3.5	3.3	24	20	--
20...	1.70	1.6	2.5	.108	.043	2.6	3.3	16	11	--
25...	1.50	1.5	2.4	.086	.024	2.5	--	--	--	--
SEP 03...	1.30	1.5	2.7	.068	.002	5.4	--	--	--	--
15...	1.50	1.6	3.1	.104	.026	5.7	--	--	--	--

APPENDIX D-1

384605077015800 - POTOMAC RIVER AT ROSIER BLUFF -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PHEO- PHYTO- PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32230)	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- VOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	NITROSO- -MANAS, MOST PROB. NUMBER PER 100 ML (82469)	NITRO- BACTER, MOST PROB. NUMBER PER 100 ML (82532)	SEDI- MENT, SUS- PENDE- (MG/L) (80154)
OCT 06...	2.10	3.30	--	--	--	--	--	--	--	69
JUN 30...	--	--	19.0	15.5	26.3	--	--	--	--	--
JUL 23...	--	--	23.3	20.2	32.8	--	--	--	--	--
23...	--	--	21.7	19.3	30.8	--	1.2	--	--	22
23...	--	--	21.9	14.8	28.8	--	1.4	--	--	--
30...	--	--	19.5	19.1	28.5	--	2.7	--	--	34
30...	--	--	29.0	13.2	35.0	41	1.8	--	--	23
AUG 04...	--	--	22.4	14.0	28.9	--	1.1	--	--	28
04...	--	--	30.4	9.80	34.8	11	3.6	--	--	16
05...	--	--	19.8	12.3	25.5	--	1.7	--	--	22
05...	--	--	28.0	11.1	33.0	--	1.4	--	--	25
06...	--	--	16.4	11.7	21.8	--	1.3	--	--	20
06...	--	--	22.1	10.4	26.8	--	3.3	--	--	24
07...	--	--	10.3	10.4	15.2	--	1.0	--	--	21
07...	--	--	31.0	15.9	38.2	23	1.1	--	--	31
08...	--	--	14.0	13.3	20.2	--	1.2	--	--	23
08...	--	--	29.0	19.9	38.2	--	2.5	--	--	48
11...	--	--	42.0	11.6	47.0	--	--	--	--	21
13...	--	--	22.0	10.8	26.9	--	1.5	--	--	18
13...	--	--	39.7	9.50	43.8	--	6.4	--	--	26
20...	--	--	11.3	10.1	16.0	--	1.1	--	--	28
20...	--	--	10.4	6.50	13.4	39	.9	--	--	14
25...	--	--	--	--	--	26	--	--	--	--
SEP 03...	--	--	10.9	4.50	13.0	29	--	--	--	7
15...	--	--	15.6	9.70	20.1	--	.8	23000	230	20

APPENDIX D-1

384318077020300 - POTOMAC RIVER AT HATTON POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 TOTAL (MG/L) AS N)	NITRO- GEN, NITRATE 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)
OCT 06...	0900	--	1000	7.2	.020	.020	1.0	.260	.190	.84	.48
JUN 17...	1625	--	50000	2.6	--	.040	.91	--	.820	--	.28
JUN 27...	1155	--	50000	2.1	--	.050	.75	--	.920	--	.38
JUL 04...	1300	--	50000	2.5	--	.090	.71	--	1.20	--	.50
JUL 09...	1220	--	50000	2.6	--	.140	.67	--	.020	--	1.9
JUL 09...	1225	--	50000	--	--	--	--	--	--	--	--
JUL 11...	0820	--	50000	2.5	--	.140	.70	--	1.30	--	.40
JUL 11...	1525	--	50000	2.7	--	.120	.66	--	1.30	--	.50
JUL 16...	1225	--	50000	2.7	--	.110	.86	--	.660	--	.00
JUL 23...	0823	--	50000	2.7	--	.100	.90	--	.870	--	.23
JUL 23...	1845	--	50000	2.7	--	--	.82	--	--	--	--
JUL 30...	0705	--	50000	4.6	--	.170	.88	--	.940	--	.26
JUL 30...	1730	--	50000	5.1	--	.110	.81	--	1.00	--	.30
AUG 04...	0725	33	1000	5.1	--	.150	.92	--	.860	--	.09
AUG 04...	1710	--	50000	5.0	--	.160	.95	--	.850	--	.45
AUG 05...	0645	--	50000	4.7	--	.160	.94	--	.810	--	.49
AUG 05...	1900	--	50000	5.0	--	.160	.94	--	.870	--	.00
AUG 06...	0645	--	50000	4.9	--	.170	.96	--	.820	--	.38
AUG 06...	1650	--	50000	5.1	--	.150	.91	--	.840	--	.56
AUG 07...	0700	--	50000	4.7	--	.180	1.3	--	.760	--	.64
AUG 07...	1730	--	50000	5.3	--	.190	.98	--	.820	--	.48
AUG 08...	0620	--	50000	5.1	--	.170	.93	--	.720	--	.68
AUG 08...	1715	--	50000	5.4	--	.200	.95	--	.750	--	.65
AUG 11...	1730	--	50000	5.7	--	.240	1.0	--	.920	--	.05
AUG 13...	0645	--	50000	5.9	--	.240	1.0	--	.860	--	.44
AUG 13...	1645	--	50000	5.8	--	.230	.97	--	.890	--	.51
AUG 20...	0630	--	50000	5.4	--	.200	.97	--	1.10	--	.60
AUG 20...	1620	--	50000	6.5	--	.190	1.1	--	1.30	--	.00
AUG 25...	1815	--	50000	5.4	--	.140	.94	--	.960	--	.34
SEP 03...	1640	--	50000	5.5	--	.130	1.2	.790	.770	.31	.23
SEP 15...	1650	--	50000	5.0	--	.210	1.4	1.30	1.20	.60	.30

## APPENDIX D-1

384318077020300 - POTOMAC RIVER AT HATTON POINT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L) AS N) (00625)	NITRO- GEN+AM- MONIA + ORGANIC DIS- (MG/L) AS N) (00623)	NITRO- GEN DIS- SOLVED (MG/L) AS N) (00502)	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)	SESTON, TOTAL (MG/L) (71100)	SESTON ASH WEIGHT (M3/L) (71101)	CHLORO- PHYLL: A PHYTO- PLANK- TON, CORR. (UG/L) (32211)
OCT 06...	1.10	.67	1.7	.148	.089	9.0	--	--	--	3.20
JUN 17...	1.40	1.1	2.0	.126	.041	--	--	--	--	--
27...	1.40	1.3	2.1	.090	.069	--	--	--	--	--
JUL 04...	1.90	1.7	2.4	.161	.062	--	--	--	--	--
09...	2.00	1.9	2.5	.122	.068	3.1	2.9	--	--	--
09...	--	--	--	--	--	--	2.3	--	--	--
11...	1.90	1.7	2.4	.094	.039	--	--	--	--	--
11...	1.90	1.8	2.5	.102	.053	--	--	--	--	--
16...	.61	.45	1.3	.102	.038	--	--	--	--	--
23...	1.60	1.1	2.0	.098	.049	3.4	3.2	25	23	--
23...	1.20	.98	1.8	.093	.053	3.2	3.1	13	8.0	--
30...	1.40	1.2	2.1	.158	.034	3.7	3.3	26	26	--
30...	1.80	1.3	2.1	.132	.055	4.6	3.7	19	18	--
AUG 04...	1.40	.95	1.9	.097	.030	5.0	3.4	25	23	--
04...	1.10	1.3	2.3	.071	.030	4.5	3.4	21	16	--
05...	1.20	1.3	2.2	.092	.026	3.9	3.6	26	19	--
05...	.94	.75	1.7	.131	.025	4.6	3.7	26	21	--
06...	.79	1.2	2.2	.072	.027	9.9	8.7	21	17	--
06...	1.00	1.4	2.3	.087	.009	5.5	3.3	16	11	--
07...	1.40	1.4	2.7	.125	.035	5.0	3.5	31	20	--
07...	1.00	1.3	2.3	.126	.024	5.1	3.3	25	19	--
08...	1.20	1.4	2.3	.145	.035	5.0	3.5	20	16	--
08...	3.00	1.4	2.4	.144	.037	5.0	3.3	34	23	--
11...	1.40	.97	2.0	.148	.045	5.8	--	--	--	--
13...	1.80	1.3	2.3	.129	.038	4.2	3.4	31	24	--
13...	1.50	1.4	2.4	.126	.030	14	3.3	24	18	--
20...	1.50	1.7	2.7	.063	.019	3.1	3.7	22	17	--
20...	1.40	.95	2.1	.116	.039	2.9	4.0	20	15	--
25...	1.40	1.3	2.2	.139	.104	2.5	--	--	--	--
SEP 03...	1.10	1.0	2.2	.115	.021	5.4	--	--	--	--
15...	1.90	1.5	2.9	.081	.001	6.1	--	--	--	--

APPENDIX D-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PHEO- PHYTO- PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYLL A PHYTO- PLANK- TON, CORR. (UG/L) (32230)	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- VOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	NITROSO- -MANAS, MOST PROB. NUMBER PER 100 ML (82469)	NITRO- BACTER, MOST PROB. NUMBER PER 100 ML (82532)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT 06...	1.30	4.20	--	--	--	--	--	--	--	68.
JUN 17...	--	--	30.5	23.7	41.6	--	--	--	--	40
27...	--	--	16.1	18.5	24.8	--	--	--	--	--
JUL 04...	--	--	13.1	11.2	18.4	--	--	--	--	--
09...	--	--	10.3	14.0	17.0	--	--	--	--	--
09...	--	--	10.3	14.0	17.0	--	--	--	--	--
11...	--	--	8.60	10.3	13.4	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
16...	--	--	17.3	12.6	23.1	--	--	--	--	--
23...	--	--	13.8	12.9	19.9	--	1.3	--	--	--
23...	--	--	11.8	11.1	17.0	--	1.7	--	--	22
30...	--	--	17.4	15.2	24.5	--	1.4	--	--	28
30...	--	--	24.0	11.0	29.0	17	2.7	--	--	22
AUG 04...	--	--	21.5	13.6	27.8	--	.5	--	--	29
04...	--	--	20.9	11.1	25.9	13	1.0	--	--	20
05...	--	--	17.0	11.6	22.4	--	.6	--	--	23
05...	--	--	23.5	13.6	29.8	--	1.5	--	--	33
06...	--	--	15.8	10.9	20.9	--	2.6	--	--	23
06...	--	--	20.2	8.70	24.1	--	2.2	--	--	20
07...	--	--	11.9	12.2	17.6	--	1.0	--	--	--
07...	--	--	25.0	11.0	30.0	18	.6	--	--	29
08...	--	--	15.4	10.0	20.1	--	1.3	--	--	24
08...	--	--	17.5	14.4	24.2	--	2.4	--	--	28
11...	--	--	32.0	10.7	36.8	--	--	--	--	18
13...	--	--	15.4	13.3	21.7	--	1.4	--	--	32
13...	--	--	25.2	9.40	29.4	27	5.5	--	--	31
20...	--	--	8.90	8.90	13.1	--	.5	--	--	19
20...	--	--	8.90	6.80	12.1	27	.6	--	--	36
25...	--	--	8.90	7.70	12.5	24	--	--	--	21
SEP 03...	--	--	11.3	6.00	14.0	8.1	--	--	--	25
15...	--	--	16.4	8.20	20.2	16	--	43000	930	--



## APPENDIX D-1

## 384136077054600 - POTOMAC RIVER AT MARSHALL HALL

## WATER QUALITY DATA. WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SILICA, DIS- SOLVED AS SiO2 (00955)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)
OCT 06...	0930	2100	7.6	.020	.020	1.1	.180	.160	.82	.54
DEC 20...	1030	5000	4.1	.040	.030	1.3	.770	.730	.43	.27
JAN 16...	0955	5000	4.6	.010	.020	1.4	.880	.000	.82	1.3
FEB 19...	1125	5000	5.5	.020	.020	1.6	.990	1.10	.51	.30
MAR 18...	0935	5000	3.3	--	.020	1.0	--	.510	--	.24
APR 22...	1220	5000	7.2	--	.010	1.1	--	.320	--	.09
MAY 19...	1115	5000	4.1	--	.040	1.9	--	.560	--	.00
JUN 17...	1540	5000	2.6	--	.050	1.0	--	.690	--	.20
JUL 23...	0930	5000	2.3	--	.120	.92	--	.530	--	.23
23...	1915	5000	2.2	--	.110	.82	--	.550	--	.75
30...	0750	5000	2.7	--	.190	.94	--	.460	--	.43
30...	1840	5000	3.8	--	.150	.84	--	.760	--	.24
AUG 04...	0815	5000	4.4	--	.170	.96	--	.660	--	.24
04...	1810	5000	4.1	--	.140	.94	--	.480	--	.36
05...	0740	5000	3.8	--	.190	1.0	--	.540	--	.46
05...	1930	5000	4.1	--	.160	.96	--	.520	--	.17
06...	0715	5000	3.4	--	.180	.93	--	.400	--	.25
06...	1725	5000	3.1	--	.150	.83	--	.260	--	.28
07...	0720	5000	3.4	--	.190	.94	--	.330	--	.36
07...	1815	5000	3.3	--	.190	.89	--	.240	--	.32
08...	0645	5000	3.1	--	.110	.81	--	.270	--	.46
08...	1745	5000	3.1	--	.180	.90	--	.170	--	.49
11...	1815	5000	4.7	--	.200	.98	--	.520	--	.68
13...	0725	5000	4.8	--	.150	.92	--	.460	--	.47
13...	1730	5000	5.6	--	.210	1.0	--	.640	--	.36
19...	1155	5000	5.1	--	.220	1.0	--	.570	--	.00
20...	0700	5000	5.3	--	.200	1.1	--	.940	--	.86
20...	1650	5000	5.4	--	.210	1.1	--	1.50	--	.20
25...	1905	5000	4.9	--	.150	.90	--	.900	--	.70
SEP 03...	1800	5000	4.9	--	.120	1.3	.500	.470	.70	.32
15...	1735	5000	4.7	--	.200	1.5	.860	.890	.74	.41
16...	1650	2100	4.1	--	.270	1.5	--	.540	--	.56

APPENDIX D-1  
384136077054600 - POTOMAC RIVER AT MARSHALL HALL---Cont.  
WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (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)	SESTON, TOTAL (MG/L) (71100)	SESTON ASH WEIGHT (MG/L) (71101)	CHLORO- PHYLLA PLANK- TON, CORR. (UG/L) (32211)
OCT 06....	1.00	.70	1.8	.165	.091	4.7	--	--	3.20
DEC 20....	1.20	1.0	2.3	.124	.069	4.3	--	--	--
JAN 16....	1.70	1.3	2.7	.079	.059	6.0	--	--	--
FEB 19....	1.50	1.4	3.0	.189	.094	5.4	--	--	--
MAR 18....	1.10	.75	1.8	.151	.050	4.1	--	--	--
APR 22....	.72	.41	1.5	.089	.043	2.2	--	--	--
MAY 19....	5.30	.56	2.5	.085	.041	--	--	--	--
JUN 17....	1.40	.89	1.9	.113	.039	--	--	--	--
JUL 23....	1.40	.75	1.7	.039	.031	4.2	3.1	27	26
23....	1.30	1.3	2.1	.205	.009	3.2	2.9	19	16
30....	1.40	.89	1.8	.156	.002	4.5	3.1	62	55
30....	1.60	1.0	1.8	.106	.029	4.4	3.5	17	11
AUG 04....	.91	.90	1.9	.213	.023	5.8	3.5	31	22
04....	.89	.84	1.8	.082	.011	5.9	3.5	26	19
05....	.78	1.0	2.0	.116	.016	6.2	3.9	31	25
05....	.78	.69	1.7	.046	.013	12	3.1	39	31
06....	.65	.65	1.6	.089	.017	12	4.6	30	30
06....	.65	.54	1.4	.129	.020	4.9	3.4	22	12
07....	1.00	.69	1.6	.123	.018	4.8	3.7	33	24
07....	.99	.55	1.5	.133	.010	7.5	3.5	27	17
08....	.94	.73	1.5	.177	.015	4.4	3.5	30	20
08....	.99	.66	1.6	.216	.028	6.8	3.3	42	29
11....	.98	1.2	2.2	.171	.035	4.4	--	--	--
13....	1.10	.93	1.9	.162	.027	5.2	3.8	11	.0
13....	1.30	1.0	2.0	.101	.026	5.7	3.6	18	13
19....	1.00	.39	1.4	.115	.007	--	--	--	--
20....	1.50	1.8	2.9	.076	.010	3.4	4.9	36	29
20....	1.80	1.7	2.8	.213	.053	2.2	--	21	14
25....	1.50	1.6	2.5	.173	.022	4.6	--	--	--
SEP 03....	1.20	.79	2.1	.118	.013	5.0	--	--	--
15....	1.60	1.3	2.8	.087	.000	5.5	--	--	--
16....	.95	1.1	2.6	.089	.000	7.5	--	--	--

## APPENDIX D-1

## 384136077054600 - POTOMAC RIVER AT MARSHALL HALL ---Cont.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PHEO- PHYTO- PLANK- TON, CORR. (UG/L) (32218)	CHLDRO- PHYLL A. FLUORO- METRIC METHOD CORR. (UG/L) (32230)	CHLDRO- PHYLL A. FLUORO- METRIC METHOD (UG/L) (32209)	PHEOPHY FLUORO- METRIC METHOD (UG/L) (32213)	CHLDRO- PHYLL A FLUORO- METRIC METHOD (UG/L) (32217)	ALGAL GROWTH POTEN- TIAL (MG/L) (70988)	ADEN- VOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	NITROSO- -MANAS, MOST PROB. NUMBER PER 100 ML (82469)	NITRO- BACTER, MOST PROB. NUMBER PER 100 ML (82532)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT- 06...	3.50	5.60	--	--	--	--	--	--	--	53
DEC 20...	--	--	11.6	3.90	14.5	--	--	--	--	--
JAN 16...	--	--	24.4	4.80	26.3	--	--	--	--	36
FEB 19...	--	--	38.5	3.70	39.8	--	--	--	--	27
MAR 18...	--	--	15.8	7.00	19.0	--	--	--	--	37
APR 22...	--	--	6.20	4.60	8.40	--	--	--	--	37
MAY 19...	--	--	20.7	15.2	27.8	--	--	--	--	34
JUN 17...	--	--	28.3	22.9	39.0	--	--	--	--	40
JUL 23...	--	--	26.7	12.4	32.3	--	2.8	--	--	32
23...	--	--	27.0	11.8	32.4	--	4.0	--	--	23
30...	--	--	45.8	16.8	53.3	--	4.9	--	--	62
30...	--	--	36.5	9.80	40.8	10	2.8	--	--	17
AUG 04...	--	--	7.80	3.80	9.50	--	1.3	--	--	45
04...	--	--	49.5	5.40	51.4	17	8.6	--	--	35
05...	--	--	--	--	--	--	1.8	--	--	33
05...	--	--	38.5	15.1	45.2	--	3.2	--	--	37
06...	--	--	38.7	16.6	46.2	--	.9	--	--	38
06...	--	--	68.4	11.9	73.2	--	8.2	--	--	18
07...	--	--	43.5	14.2	49.8	--	4.1	--	--	32
07...	--	--	86.0	10.8	90.0	18	11	--	--	27
08...	--	--	57.0	17.2	64.5	--	5.2	--	--	28
08...	--	--	72.0	17.6	79.5	--	9.0	--	--	53
11...	--	--	43.0	17.8	51.0	--	--	--	--	31
13...	--	--	32.2	16.0	39.5	--	3.6	--	--	45
13...	--	--	25.8	10.6	30.6	24	7.6	--	--	17
19...	--	--	27.5	12.7	33.2	--	--	--	--	23
20...	--	--	11.2	16.2	19.0	--	1.6	--	--	35
20...	--	--	45.0	13.2	50.8	24	5.3	--	--	19
25...	--	--	28.1	13.1	34.0	8.2	--	--	--	28
SEP 03...	--	--	27.1	8.20	30.7	17	--	--	--	19
15...	--	--	15.6	12.4	21.3	--	.9	4300	430	18
16...	--	--	23.8	13.1	29.8	--	--	--	--	14

APPENDIX D-1

383818077072800 - POTOMAC RIVER AT HALLOWING POINT

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	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, ORGANIC DIS- SOLVED (MG/L) AS N
		(00009)	(00955)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)
JUL									
23...	1015	50000	1.4	.170	.92	---	.170	---	.13
23...	2000	50000	1.3	.170	.91	---	.180	---	.23
30...	0830	50000	1.0	.090	.82	---	.810	---	.00
30...	1910	50000	1.5	.140	.61	---	.070	---	.23
AUG									
04...	0850	50000	2.3	.170	.84	---	.220	---	.50
04...	1900	50000	1.8	.150	.69	---	.050	---	.38
05...	0820	50000	1.7	.150	.71	---	.100	---	.44
05...	2000	50000	1.7	.140	.71	---	.170	---	.36
06...	0810	50000	1.7	.150	.70	---	.200	---	.00
06...	1820	50000	1.4	.140	.59	---	.060	---	.35
07...	0800	50000	1.3	.150	.65	---	.170	---	.61
07...	1850	50000	1.5	.140	.64	---	.200	---	.29
08...	0705	50000	1.3	.120	.59	---	.120	---	.32
08...	1815	50000	6.2	.120	.55	---	.030	---	.62
11...	1900	50000	1.8	.120	.52	---	.080	---	.41
13...	0820	50000	2.2	.120	.56	---	.080	---	.30
13...	2020	50000	2.3	.120	.58	---	.090	---	.25
20...	0740	50000	3.2	.110	.70	---	.140	---	.38
20...	1740	50000	2.5	.160	.70	---	.070	---	.43
25...	1940	50000	3.0	.190	.93	---	.230	---	.49
SEP									
03...	1910	50000	3.2	.080	1.1	.090	.060	.74	.34
15...	1810	50000	3.3	.200	1.2	.180	.180	.71	.27

## APPENDIX D-1

383818077072800 - POTOMAC RIVER AT HALLOWING POINT -- Cont.  
 WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN,AM- MONIA +		NITRO- GEN,AM- MONIA +		PHOS- PHORUS, DIS-		CARBON, ORGANIC, TOTAL		CARBON, ORGANIC, DIS-		SESTON, TOTAL		SESTON ASH WEIGHT (MG/L) (71101)
	ORGANIC TOTAL (MG/L) AS N	DIS- SOLVED (MG/L) AS N	ORGANIC TOTAL (MG/L) AS N	DIS- SOLVED (MG/L) AS N	ORGANIC TOTAL (MG/L) AS P	DIS- SOLVED (MG/L) AS P	ORGANIC TOTAL (MG/L) AS C	DIS- SOLVED (MG/L) AS C	ORGANIC TOTAL (MG/L) AS C	DIS- SOLVED (MG/L) AS C	ORGANIC TOTAL (MG/L) AS C	DIS- SOLVED (MG/L) AS C	
	(00625)	(00623)	(00625)	(00623)	(00665)	(00666)	(00680)	(00681)	(00680)	(00681)	(71100)	(71100)	(71101)
JUL													
23...	1.20	.30	1.2	1.2	.134	.007	5.3	3.2	5.3	3.2	44	44	38
23...	.96	.41	1.3	1.3	.125	.022	3.9	3.5	3.9	3.5	26	26	22
30...	1.10	.65	1.5	1.5	.172	.049	5.6	3.4	5.6	3.4	46	46	39
30...	1.40	.28	.99	.99	.197	.000	4.9	3.7	4.9	3.7	62	62	22
AUG													
04...	1.20	.72	1.6	1.6	.117	.013	5.2	3.3	5.2	3.3	26	26	14
04...	.67	.43	1.1	1.1	.113	.008	9.6	3.8	9.6	3.8	30	30	20
05...	.62	.54	1.3	1.3	.136	.010	7.3	3.3	7.3	3.3	35	35	26
05...	.55	.53	1.2	1.2	.092	.019	9.6	11	9.6	11	44	44	31
06...	.66	.20	.90	.90	.188	.019	35	9.6	35	9.6	49	49	37
06...	.95	.41	1.0	1.0	.206	.020	6.2	3.6	6.2	3.6	24	24	16
07...	1.50	.78	1.4	1.4	.191	.026	5.7	4.0	5.7	4.0	31	31	22
07...	.66	.49	1.1	1.1	.171	.025	7.0	3.6	7.0	3.6	27	27	18
08...	.97	.44	1.0	1.0	.204	.032	8.0	3.6	8.0	3.6	27	27	18
08...	1.00	.65	1.2	1.2	.217	.027	5.4	3.5	5.4	3.5	35	35	22
11...	.71	.49	1.0	1.0	.234	.049	4.3	--	4.3	--	--	--	--
13...	1.40	.38	.94	.94	.198	.016	.0	3.7	.0	3.7	52	52	37
13...	1.10	.34	.92	.92	.187	.021	8.0	4.2	8.0	4.2	42	42	28
20...	1.00	.52	1.2	1.2	.096	.000	8.7	5.9	8.7	5.9	36	36	26
20...	.83	.50	1.2	1.2	.226	.016	2.7	3.6	2.7	3.6	28	28	16
25...	.99	.72	1.7	1.7	.119	.006	3.4	--	3.4	--	--	--	--
SEP													
03...	.83	.40	1.5	1.5	.142	.002	5.5	--	5.5	--	--	--	--
15...	.89	.45	1.7	1.7	.100	.000	8.0	--	8.0	--	--	--	--

APPENDIX D-1

383818077072800 - POTOMAC RIVER AT HALLOWING POINT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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 (UG/L) (32217)	ALGAL GROWTH POTENTIAL (MG/L) (70988)	ADENOSINE TRIPHOSPHATE (ATP) (UG/L) (70998)	NITROSO -NANAS, MOST PROB. NUMBER PER 100 ML (82469)	NITRO- BACTER, MOST PROB. NUMBER PER 100 ML (82532)	SEDIMENT, SUSPENDED PER (MG/L) (80154)
JUL								
23...	60.0	18.8	68.2	--	4.8	--	--	34
23...	59.2	22.6	69.3	--	7.0	--	--	--
30...	95.2	23.0	105	--	4.1	--	--	45
30...	102	20.6	111	--	15	--	--	61
AUG								
04...	76.2	14.0	81.9	--	11	--	--	27
04...	113	27.1	125	10	17	--	--	37
05...	81.1	19.6	89.4	--	--	--	--	35
05...	82.0	22.0	91.5	--	16	--	--	40
06...	67.7	31.9	82.2	--	4.0	--	--	47
06...	77.1	23.5	87.4	--	7.7	--	--	21
07...	73.1	24.4	83.9	--	9.6	--	--	36
07...	79.0	25.0	90.0	20	4.7	--	--	25
08...	54.4	24.8	65.6	--	13	--	--	23
08...	88.0	26.3	99.5	--	15	--	--	38
11...	95.0	23.4	105	--	--	--	--	42
13...	90.0	23.3	100	--	8.7	--	--	41
13...	92.4	22.0	102	14	2.7	--	--	40
20...	75.4	26.1	87.0	--	9.5	--	--	33
20...	77.4	20.3	86.1	27	8.3	--	--	24
25...	57.8	17.8	65.6	27	--	--	--	22
SEP								
03...	70.4	16.9	77.6	7.9	--	--	--	20
15...	56.0	21.2	65.5	23	4.0	1100000	430	18

APPENDIX D-1  
01655480 - POTOMAC R AT INDIAN HEAD, MD--Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN 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)	SESTON, TOTAL (MG/L) (71100)	SESTON ASH WEIGHT (MG/L) (71101)	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)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT 28...	2.6	.097	.049	--	--	--	--	--	--	--	--	--
DEC 20...	2.3	.093	.044	3.9	--	--	--	14.2	5.70	18.2	--	27
JAN 16...	2.6	.102	.069	13	--	--	--	--	--	--	--	27
FEB 19...	2.6	.091	.077	4.3	--	--	--	37.2	6.10	39.6	--	--
19...	2.8	.092	.073	4.3	--	--	--	31.1	4.30	32.7	--	--
MAR 18...	1.8	.122	.043	5.1	--	--	--	35.5	11.4	40.5	--	38
APR 22...	1.5	.104	.031	4.6	--	--	--	42.9	4.00	44.2	--	33
MAY 19...	1.4	.046	.035	--	--	--	--	39.3	11.8	44.5	--	30
JUN 17...	1.5	.112	.034	--	--	--	--	40.3	19.3	49.1	--	37
27...	1.6	.118	.044	--	--	--	--	39.2	17.0	46.9	--	--
JUL 04...	1.4	.168	.062	--	--	--	--	41.1	27.5	53.8	--	--
09...	1.4	.162	.042	--	--	--	--	39.2	25.7	51.2	--	--
16...	1.4	.121	.033	--	--	--	--	41.0	27.2	53.7	--	--
30...	.99	.160	.015	5.1	3.2	34	27	82.4	20.9	91.3	12	30
AUG 06...	1.5	.191	.036	6.4	3.2	27	17	65.0	41.1	84.0	8.4	43
06...	.92	.206	.033	5.8	3.6	31	22	71.2	24.1	81.9	8.7	36
13...	1.0	.148	.039	.0	3.7	32	22	77.4	21.3	86.6	9.2	23
13...	1.0	.161	.025	6.0	4.4	40	27	90.0	23.3	100	1.0	37
19...	.85	.156	.017	--	--	--	--	78.8	25.5	90.0	--	27
20...	1.1	.106	.011	6.2	3.5	36	25	63.3	29.4	76.7	11	36
20...	1.0	.144	.023	13	--	--	--	82.8	16.1	89.4	7.2	30
25...	1.2	.079	.003	2.3	--	--	--	48.9	18.9	57.4	--	11
SEP 03...	1.3	.143	.009	7.5	--	--	--	70.0	24.0	80.6	--	20
15...	1.1	.103	.000	6.1	--	--	--	91.3	20.2	99.8	7.2	16
16...	1.6	.122	.000	6.7	--	--	--	--	--	--	--	17





## APPENDIX A-1

## 01658710 -- POTOMAC RIVER AT QUANTICO, VA. --cont.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	CHLORO- PHYLL A PHYTO- PLANK- TON, CORR. (UG/L) (32211)	PHEO- PHYTTIN PHYTO- PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYLL A PHYTO- PLANK- TON, UNCORR. (UG/L) (32230)	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)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT											
05...	1.9	.205	.082	6.5	6.60	9.60	12.9	--	--	--	73
12...	1.4	.112	.054	--	11.1	3.50	13.9	--	--	--	33
18...	1.4	.100	.050	--	--	--	--	8.30	8.50	12.5	24
18...	1.6	.100	.050	--	--	--	--	4.80	6.40	8.00	40
25...	2.7	.103	.030	--	--	--	--	18.1	9.50	22.8	26
28...	1.8	.094	.047	--	--	--	--	--	--	--	--
29...	1.9	.085	.036	--	--	--	--	12.6	6.80	16.0	20
30...	1.9	.088	.050	--	--	--	--	12.8	5.70	15.6	--
NOV											
05...	1.8	.082	.025	--	--	--	--	6.10	23.8	22.8	--
07...	1.7	.129	.018	--	--	--	--	48.0	15.7	55.6	36
13...	1.7	.100	.022	--	--	--	--	26.4	15.7	34.1	29
14...	1.6	.138	.020	--	--	--	--	26.5	19.1	35.9	36
20...	1.5	.107	.014	--	--	--	--	28.4	17.9	37.2	--
29...	2.3	.122	.041	--	--	--	--	--	--	--	--
29...	2.1	.192	.024	--	--	--	--	27.9	19.9	37.6	32
29...	2.3	.109	.041	--	--	--	--	--	--	--	44
29...	1.9	.106	.027	--	--	--	--	--	--	--	35
DEC											
04...	1.8	.116	.036	--	--	--	--	--	--	--	33
04...	1.6	.086	.028	--	--	--	--	11.8	9.10	16.2	34
13...	1.9	.043	.019	--	--	--	--	18.4	9.60	23.0	23
13...	2.1	.079	.030	--	--	--	--	24.7	4.20	28.6	17
13...	2.2	.029	.091	--	--	--	--	16.5	5.50	20.6	16
20...	1.9	.108	.052	4.8	--	--	--	14.2	5.30	18.0	19
28...	2.2	.090	.040	--	--	--	--	17.0	10.5	23.8	36
28...	2.1	.090	.030	--	--	--	--	15.1	7.30	20.1	20
28...	2.2	.090	.030	--	--	--	--	14.2	8.20	19.6	18
JAN								14.2	5.70	18.3	17
03...	1.9	.080	.030	--	--	--	--	18.0	5.70	20.8	18
03...	1.9	.070	.030	--	--	--	--	19.8	5.20	22.4	19
09...	2.1	.070	.030	--	--	--	--	24.6	6.60	27.4	16
16...	2.2	.074	.040	14	--	--	--	24.6	7.50	27.9	26
21...	1.5	.057	.020	--	--	--	--	75.0	10.9	79.2	30
31...	--	--	--	--	--	--	--	54.0	10.9	58.5	32
31...	--	--	--	--	--	--	--	54.3	12.4	59.6	26
FEB											
05...	--	--	--	--	--	--	--	26.1	5.70	28.5	13
12...	1.7	.116	.005	--	--	--	--	29.7	7.70	33.0	36
12...	2.0	.111	.048	--	--	--	--	28.2	5.50	30.4	22

01658710 - POTOMAC RIVER AT QUANTICO, VA.  
APPENDIX D-1

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	NITRO- GEN, TOTAL (MG/L AS N) (00615)	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 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												
06...	1130	50000	7.0	.010	.040	1.1	.220	.300	1.1	.54	1.30	.84
12...	1415	6900	8.3	..	..	.86	.070	.020	..	..	.46	.52
18...	1233	6900	8.3	.020	.020	1.0	.180	.000	.73	.36	.80	.38
18...	1434	6900	8.5	.020	.020	1.0	.100	.000	1.4	.57	1.60	.57
25...	1210	6900	9.5	.010	.020	1.1	.200	.150	1.2	1.5	1.30	1.6
28...	0930	6000	8.5	.010	.020	1.2	.200	.150	.46	.46	.66	.61
29...	1006	6900	8.4	.010	.020	1.2	.200	.180	.47	.47	.67	.65
30...	1125	6900	8.3	.030	.020	1.3	.170	.140	.50	.45	.67	.59
NOV												
05...	1040	6900	7.4	.010	.050	1.3	.190	.220	.47	.32	.66	.54
07...	1210	6900	6.9	.030	.020	1.3	.180	.110	.65	.32	.83	.43
13...	1120	6900	5.3	.020	.010	1.1	.160	.110	.74	.48	.90	.59
14...	1230	6900	5.4	.030	.010	1.0	.170	.080	.57	.53	.74	.61
20...	1045	6900	6.0	.010	.020	.92	.160	.130	.56	.43	.72	.56
29...	1210	50000	5.5	.150	.080	1.4	.450	.270	.39	.61	.84	.88
29...	1220	6900	5.8	.110	.130	1.5	.140	.170	.73	.42	.87	.59
29...	1350	50000	5.5	.160	.090	1.4	.200	.250	.68	.65	.88	.90
29...	1400	6900	5.9	.130	.070	1.3	.200	.180	.73	.39	.93	.57
DEC												
04...	1320	50000	3.4	.010	.010	1.0	.330	.300	.50	.51	.83	.81
04...	1330	6900	4.0	.010	.020	1.0	.340	.300	.30	.26	.64	.56
13...	1225	6900	4.8	.010	.020	1.1	.190	.140	.80	.63	.99	.77
13...	1235	6000	5.5	.020	.020	1.5	.320	.190	.38	.45	.70	.64
13...	1245	50000	5.5	.010	.020	1.6	.280	.280	.33	.30	.61	.58
20...	0800	50000	5.5	.030	.030	1.2	.170	.250	.61	.49	.78	.74
28...	0910	6900	4.7	.010	.020	1.2	.660	.660	.64	.34	1.30	1.0
28...	1150	6900	4.7	.020	.020	1.2	.690	.670	.71	.23	1.40	.90
28...	1500	6900	4.5	.020	.020	1.2	.670	.660	.53	.34	1.20	1.0
JAN												
03...	0900	6900	3.9	.010	.010	1.2	.510	.460	.59	.24	1.10	.70
03...	1205	6900	3.8	.010	.010	1.1	.470	.460	.33	.34	.80	.80
09...	1340	6900	3.5	.020	.010	1.4	.580	.010	.46	.39	.82	.73
16...	1250	50000	5.0	.010	.020	1.3	.580	.010	.62	.91	1.20	.92
21...	1345	6900	4.9	.010	.020	1.1	.260	.260	.53	.15	.79	.41
31...	1310	6900	..	..	..	..	..	..	..	..	..	..
31...	1600	6900	..	..	..	..	..	..	..	..	..	..
FEB												
05...	1300	6900	..	..	..	..	..	..	..	..	..	..
12...	1000	6900	6.5	.020	.020	1.2	.310	.270	.37	.19	.68	.46
12...	1245	6900	6.4	.020	.020	1.2	.270	.250	.40	.58	.76	.83

APPENDIX D-1  
01658710 - POTOMAC RIVER AT QUANTICO, VA. --cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOCATION	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRO-NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA + MONIA + ORGANIC TOTAL (MG/L AS N)
FEB 19...	0920	50000	4.1	.010	.010	.050	.010	.90	.32
27...	0840	50000	4.3	.010	.010	.700	.700	.60	.14
27...	1200	50000	4.0	.010	.030	.640	.650	.46	.13
27...	1400	50000	4.6	.010	.010	.670	.560	.63	.21
MAR 04...	1340	50000	3.0	.010	.010	---	.470	---	.73
06...	1350	50000	2.0	.010	.010	---	.430	---	.54
06...	1710	50000	1.8	.020	.020	---	.470	---	.63
11...	1215	50000	.8	.020	.020	---	.420	---	.40
11...	1450	50000	.7	.020	.020	---	.360	---	.25
11...	1810	50000	1.1	.020	.020	---	.490	---	.42
17...	1100	50000	1.0	.020	.020	---	.360	---	.58
17...	1830	50000	1.3	.020	.020	---	.360	---	.46
18...	0700	50000	1.1	.020	.020	---	.520	---	.38
20...	0630	50000	1.9	.020	.020	---	.340	---	.12
20...	1000	50000	1.5	.020	.020	---	.350	---	.35
20...	1350	50000	2.4	.020	.020	---	.380	---	.27
25...	1125	50000	5.8	.020	.020	---	.110	---	.41
25...	1310	50000	5.7	.020	.020	---	.270	---	.27
26...	1300	50000	5.7	.020	.020	---	.230	---	.21
28...	0930	50000	6.2	.020	.020	---	.190	---	.39
31...	1135	50000	6.1	.020	.020	---	.230	---	.10
31...	1136	6000	5.9	.020	.020	---	.220	---	.18
31...	1415	50000	6.2	.020	.020	---	.250	---	.08
APR 03...	0710	50000	6.4	.020	.020	---	.230	---	.29
07...	1150	50000	6.6	.020	.020	---	.200	---	.35
07...	1510	50000	6.6	.020	.020	---	.200	---	.42
10...	0550	50000	7.2	.020	.020	---	.210	---	.28
10...	0900	50000	7.2	.020	.020	.320	.350	---	.02
15...	1640	50000	6.5	.030	.030	---	.250	---	.57
18...	0950	50000	6.3	.020	.020	---	.190	---	.19
18...	1300	50000	6.4	.020	.020	---	.190	---	.12
22...	1652	50000	5.8	.020	.020	---	.110	---	.12
22...	1931	50000	6.1	.020	.020	---	.090	---	.15
29...	1040	50000	---	---	---	---	---	---	---
29...	1415	50000	6.1	.020	.020	---	.150	---	.20
MAY 01...	0525	50000	5.8	.030	.030	---	.180	---	.49
05...	0925	50000	6.2	.030	.030	---	.120	---	.38

APPENDIX D-1  
01658710 - POTOMAC RIVER AT QUANTICO, VA. ---cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L) (00623)	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 DIS- SOLVED (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)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
FEB										
19...	.32	.90	.095	.012	4.7	--	28.8	12.4	34.4	33
27...	.84	2.3	.113	.056	--	--	28.8	2.70	29.7	--
27...	.78	2.3	.116	.058	--	--	39.6	11.1	44.4	--
27...	.77	2.2	.129	.053	--	--	36.6	14.1	42.9	--
MAR										
04...	1.2	2.5	.137	.041	--	--	57.1	8.20	60.3	38
06...	.97	2.4	.141	.034	9.6	--	73.1	12.5	78.1	36
06...	1.1	2.5	.119	.035	--	--	65.5	10.5	69.6	--
11...	.82	2.1	.133	.023	--	--	91.4	14.9	97.3	24
11...	.61	1.8	.109	.023	--	--	92.4	13.6	97.7	21
11...	.91	2.2	.134	.029	9.6	--	88.0	7.80	90.5	26
17...	.94	2.0	.168	.037	--	--	72.8	20.7	81.8	53
17...	.82	1.9	.060	.036	7.4	3.1	90.0	40.5	108	104
18...	.90	2.0	.207	.067	6.1	4.2	61.8	23.7	72.4	54
20...	.45	1.4	.135	.027	--	--	53.2	25.5	64.9	50
20...	.70	1.7	.114	.032	--	--	56.2	19.4	64.9	34
20...	.65	1.6	.147	.031	3.9	--	51.0	20.8	60.4	--
25...	.52	1.7	.159	.035	5.3	--	20.3	11.6	25.6	58
25...	.54	1.7	.130	.037	4.4	--	21.5	13.5	27.8	46
26...	.44	1.7	.167	.046	6.3	--	18.2	10.1	22.8	75
28...	.58	1.9	.186	.043	6.5	--	18.0	16.5	25.8	84
31...	.33	1.6	.132	.036	4.4	--	20.4	16.1	27.8	69
31...	.40	1.7	.180	.032	3.9	--	24.6	15.6	31.9	76
31...	.33	1.6	.118	.037	3.9	--	18.0	10.8	23.0	44
APR										
03...	.52	1.9	.106	.044	5.9	--	13.0	9.70	17.5	31
07...	.55	1.9	.138	.036	2.9	--	14.0	7.60	17.5	35
07...	.62	1.9	.132	.033	3.6	--	15.6	10.4	20.4	46
10...	.49	1.7	.112	.030	4.4	--	10.3	13.1	16.6	52
10...	.37	1.7	.111	.035	4.7	--	10.3	7.60	13.9	34
15...	.82	2.1	.198	.028	3.1	--	35.5	16.0	42.8	54
18...	.38	1.5	.135	.030	3.2	--	30.6	12.3	36.2	39
18...	.30	1.4	.187	.029	3.9	--	37.8	19.0	46.5	77
22...	.23	1.3	.018	.020	4.6	--	60.0	6.10	62.1	41
22...	.24	1.3	.090	.020	3.6	--	73.9	5.50	75.5	38
29...	--	--	--	--	5.1	--	35.0	26.8	47.5	55
29...	.35	1.4	.085	.027	--	--	40.5	18.7	49.0	33
MAY										
01...	.67	1.8	.040	.016	11	--	46.0	15.8	53.0	35
05...	.50	1.6	.035	.016	5.1	--	44.3	8.70	47.9	--

APPENDIX D-1  
01658710 -- POTOMAC RIVER AT QUANTICO, VA. --CONT.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	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, N02+N03 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 DIS- SOLVED (MG/L) AS N	NITRO- GEN DIS- SOLVED (MG/L) AS N
			(00003)	(00955)	(00613)	(00631)	(00608)	(00607)	(00625)	(00623)	(00602)
MAY											
05...	1120	--	50000	6.2	.020	1.1	.150	.16	.75	.37	1.4
08...	0520	--	50000	6.0	.020	.94	.050	.23	.76	.28	1.2
13...	1020	--	50000	6.0	.030	1.2	.110	.48	.75	.59	1.8
13...	1325	--	50000	6.2	.030	.98	.120	.13	.74	.25	1.2
16...	0640	--	50000	5.6	.060	1.9	.070	.46	1.00	.53	2.4
19...	1455	--	50000	5.3	.140	1.9	.020	.45	.52	.47	2.4
21...	1030	--	50000	5.1	.040	.94	.180	.04	.44	.22	1.2
21...	1330	--	50000	5.1	.040	.95	.160	.04	.37	.20	1.2
28...	1050	--	50000	4.6	.040	.96	.220	.34	.85	.56	1.5
28...	1315	--	50000	4.9	.030	.92	.200	.26	.65	.46	1.4
30...	1630	--	50000	5.0	.030	.92	.130	.24	.33	.37	1.3
JUN											
02...	0715	--	50000	4.9	.010	.34	.330	.33	.95	.66	1.0
02...	1030	--	50000	.1	.000	.18	.270	.25	.85	.52	.70
05...	1700	--	50000	5.0	.050	1.9	.180	.33	.50	.51	2.4
12...	1115	--	50000	3.4	.060	1.1	.110	.49	.75	.60	1.7
12...	1400	--	50000	3.2	.060	1.1	.180	.18	.73	.36	1.5
13...	1715	--	50000	2.4	.060	1.1	.090	.35	.74	.44	1.5
17...	1125	--	50000	1.2	.060	1.1	.070	.28	.62	.35	1.5
20...	1710	--	50000	.1	.070	1.0	.080	.19	.44	.27	1.3
20...	1930	--	50000	.1	.080	1.0	.080	.17	.57	.25	1.3
24...	1400	--	50000	.2	.080	.98	.040	.31	.61	.35	1.3
24...	1640	--	50000	.3	.070	.90	.040	.34	.44	.38	1.3
27...	0710	--	50000	.3	.070	.87	.120	.29	.51	.41	1.3
JUL											
04...	0815	--	50000	.2	.090	.76	.090	.29	.70	.38	1.1
07...	0650	--	50000	.2	.080	.75	.040	.25	.66	.29	1.0
09...	0720	--	50000	.4	.070	.62	.060	.35	.71	.41	1.0
10...	1500	--	50000	.4	.100	.69	.040	.71	.85	.75	1.4
15...	1110	--	50000	.4	.080	.60	.030	.35	.76	.38	.98
16...	0755	--	50000	.4	.120	.63	.110	.10	.77	.21	.84
21...	1810	--	50000	.3	.190	.65	.040	.38	.76	.42	1.1
22...	0650	--	50000	.3	.150	.57	.070	.25	1.10	.32	.89
29...	1300	--	50000	.3	.070	.59	.020	.41	.71	.43	1.0
30...	1100	--	50000	.6	.060	.42	.070	.20	.66	.27	.69
31...	1110	--	50000	.5	.050	.43	.020	.25	.60	.27	.70
31...	1120	3.0	50000	.8	.050	.43	.070	.15	.76	.22	.65
26			50000								
AUG											
06...	1025	--	50000	.4	.090	.41	.160	.33	.81	.49	.90
11...	1110	--	50000	.7	.060	.27	.090	.49	.00	.58	.85

01658710 - POTOMAC RIVER AT QUANTICO, VA. --cont.  
APPENDIX D-1

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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)	SESTON, TOTAL (MG/L) (71100)	SESTON ASH WEIGHT (MG/L) (71101)	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)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
MAY											
05...	.033	.018	5.4	--	--	--	45.0	5.40	47.0	--	--
08...	.031	.018	3.9	--	--	--	48.4	9.60	52.3	--	55
13...	.149	.025	7.2	--	--	--	45.3	20.8	54.8	--	76
13...	.095	.024	--	--	--	--	47.6	18.2	55.8	--	46
16...	.045	.024	--	--	--	--	52.8	31.2	67.2	--	90
19...	.049	.032	--	--	--	--	34.4	17.0	42.2	--	47
21...	.089	.029	--	--	--	--	34.1	12.2	39.6	--	22
21...	.091	.029	--	--	--	--	34.0	11.8	39.2	--	21
28...	.123	.026	--	--	--	--	30.5	16.9	38.2	--	40
28...	.099	.028	--	--	--	--	31.0	12.8	36.7	--	30
30...	.093	.019	--	--	--	--	41.0	12.6	46.5	--	27
JUN											
02...	.156	.027	--	--	--	--	45.0	23.0	55.5	--	47
02...	.100	.022	--	--	--	--	37.2	20.0	46.4	--	26
05...	.108	.019	--	--	--	--	39.0	23.8	50.0	--	34
12...	.114	.019	--	--	--	--	--	--	--	--	42
12...	.099	.018	--	--	--	--	--	--	--	--	31
13...	.107	.016	--	--	--	--	62.1	21.7	71.8	--	40
17...	.104	.033	--	--	--	--	55.2	17.6	62.9	--	27
20...	.100	.019	--	--	--	--	69.0	21.6	78.5	--	32
20...	.099	.020	--	--	--	--	66.0	18.5	74.0	--	--
24...	.083	.018	--	--	--	--	37.0	16.0	44.2	--	26
24...	.090	.019	--	--	--	--	36.5	17.1	44.2	--	19
27...	.092	.091	--	--	--	--	30.0	18.5	38.5	--	29
JUL											
04...	.176	.063	--	--	--	--	32.5	21.6	42.5	--	25
07...	.178	.051	--	--	--	--	47.0	17.9	55.0	--	34
09...	.132	.060	--	--	--	--	34.1	26.1	46.3	--	41
10...	.120	.042	--	--	--	--	46.0	18.9	54.5	--	35
15...	.105	.033	--	--	--	--	--	--	--	--	24
16...	.105	.035	--	--	--	--	40.5	27.8	53.3	--	33
21...	.032	.035	--	--	--	--	62.0	28.6	75.0	--	17
22...	.030	.138	8.6	--	--	--	47.1	43.8	67.7	--	74
29...	.139	.035	--	--	--	--	--	--	--	--	34
30...	.112	.029	4.9	3.0	19	19	44.5	13.5	50.4	11	16
31...	.121	.027	--	--	--	--	55.0	10.9	59.5	--	--
31...	.150	.037	--	--	--	--	35.0	18.6	43.5	--	32
AUG											
06...	.161	.036	5.1	3.0	25	18	42.5	23.6	53.3	5.2	25
11...	.161	.064	--	--	--	--	47.0	21.0	56.5	--	26

## WATER QUALITY DATA, WATER YEAR 1979 TO SEPTEMBER 1980

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APPENDIX A-1

01658710 -- POTOMAC RIVER AT QUANTICO, VA.--CONT.  
WATER QUALITY DATA: WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	SESTON, TOTAL (MG/L) (71100)	SESTON ASH WEIGHT (MG/L) (71101)	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)	ADEN- OSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
AUG												
13...	.65	.155	.055	.0	3.3	24	16	41.4	17.1	49.0	4.6	21
19...	.58	.131	.034	--	--	--	--	--	--	--	--	10
19...	.67	.129	.031	--	--	--	--	--	--	--	--	11
19...	.52	.154	.039	--	--	--	--	--	--	--	--	26
19...	.96	.133	.038	--	--	--	--	52.3	14.8	58.7	--	17
20...	.82	.132	.041	4.8	--	--	--	47.8	17.4	55.6	5.8	19
25...	.62	.097	.032	3.3	--	--	--	33.8	14.5	40.4	--	14
28...	.76	.131	.032	--	--	--	--	48.9	14.5	55.3	--	17
SEP												
03...	1.0	.130	.017	8.0	--	--	--	44.1	20.6	53.4	--	15
04...	.56	.045	.043	--	--	--	--	38.1	19.7	47.1	--	24
08...	.73	.071	.059	--	--	--	--	--	--	--	--	26
11...	.84	.123	.033	--	--	--	--	40.4	21.4	50.2	--	18
15...	.98	.093	.013	5.5	--	--	--	44.1	23.0	54.6	--	--
16...	1.2	.584	.036	9.5	--	--	--	24.2	18.5	32.9	--	8
16...	.96	.085	.008	6.1	--	--	--	50.7	11.1	55.3	--	9
17...	.73	.078	.007	6.0	--	--	--	58.9	4.00	60.0	--	24
17...	.79	.116	.050	6.5	--	--	--	19.6	18.0	28.0	--	22
22...	1.1	.106	.032	--	--	--	--	39.0	21.8	49.0	--	



APPENDIX D-1

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LOC- ATION, CROSS SECTION (FT FM L BANK)	SILICA, DIS- SOLVED (MG/L) AS SiO2)	NITRO- GEN, NITRITE TOTAL (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 TOTAL (MG/L AS N)
		(00003)	(00009)	(00955)	(00615)	(00613)	(00631)	(00610)
OCT								
06...	1230	16	2000	6.8	.010	.030	1.0	.080
06...	1240	3.0	2000	6.8	.010	.030	1.0	.230
06...	1300	--	11700	6.9	.000	.040	.92	.210
DEC								
19...	1440	16	2000	5.6	.030	.020	1.1	.320
19...	1445	3.0	2000	5.6	.020	.010	1.1	.290
19...	1520	--	11700	5.5	.030	.020	1.1	.190
JAN								
16...	1430	--	11700	4.4	.020	.020	1.2	.400
16...	1445	17	2000	4.2	.010	.010	1.3	.340
16...	1450	3.0	2000	4.1	.010	.020	1.2	.370
FEB								
18...	1845	12	2000	6.2	.010	.020	1.2	.230
18...	1850	3.0	2000	5.7	.020	.020	1.3	.330
18...	1900	--	11700	4.1	.010	.010	.58	.070
19...	0810	19	2000	5.8	.020	.040	1.2	.250
19...	0815	3.0	2000	5.8	.020	.020	1.2	.250
19...	0830	--	11700	6.2	.020	.010	1.2	.260
27...	0920	--	50000	4.8	.000	.030	1.4	.480
27...	1130	--	50000	5.1	.030	.020	1.4	.490
27...	1340	--	2000	5.2	.000	.030	1.3	.430
MAR								
04...	1252	--	2000	4.5	--	.010	1.3	--
06...	1315	--	50000	2.9	--	.010	1.5	--
06...	1645	--	50000	2.8	--	.010	1.4	--
11...	1140	--	50000	.8	--	.020	1.5	--
11...	1410	--	50000	.6	--	.020	1.4	--
11...	1735	--	50000	.9	--	.020	1.5	--
17...	1715	15	2000	.2	--	.020	1.1	--
17...	1720	3.0	2000	.3	--	.010	1.1	--
17...	1745	--	11700	.0	--	.020	1.2	--
20...	0700	--	50000	1.0	--	.030	1.1	--
20...	0940	--	50000	.9	--	.030	1.2	--
20...	1320	--	50000	1.3	--	.020	1.1	--
25...	1025	--	50000	5.1	--	.030	1.1	--
25...	1225	--	50000	5.0	--	.020	1.1	--
26...	1400	--	50000	5.2	--	.000	.18	--
28...	1000	--	50000	6.0	--	.020	1.3	--
31...	1205	--	50000	6.1	--	.020	1.4	--
31...	1455	--	50000	6.2	--	.020	1.4	--

APPENDIX D-1

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

WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	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)	VITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N)	(00625)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N)	VITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N)	(00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (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)
OCT												
06...	.380	.81	.43	.89	.81	1.8	.246	.067	7.3			
06...	.230	.67	.39	.67	.62	1.6	.134	.069	13			
06...	.190	.79	.30	1.00	.49	1.4	.129	.054	5.5			
DEC												
19...	.290	.32	.32	.64	.61	1.7	.129	.032	4.4			
19...	.150	.50	.55	.79	.70	1.8	.087	.035	8.8			
19...	.180	.71	.33	.90	.51	1.6	.096	.024	4.5			
JAN												
16...	.040	.70	.78	1.10	.82	2.0	.069	.036	4.4			
16...	.010	.59	.76	.93	.77	2.1	.051	.032	7.6			
16...	.370	.50	.32	.87	.69	1.9	.063	.033	8.7			
FEB												
18...	.210	.48	.55	.71	.76	2.0	.161	.044	5.7			
18...	.340	.56	.66	.89	1.0	2.3	.129	.054	5.3			
18...	.060	.85	.54	.92	.60	1.2	.217	.019	8.0			
19...	.210	.85	.38	1.10	.59	1.8	.136	.026	6.8			
19...	.220	.85	.59	1.10	.81	2.0	.075	.036	4.2			
19...	.200	.53	.38	.79	.58	1.8	.082	.004	4.8			
27...	.470	.36	.21	.84	.68	2.1	.105	.039	---			
27...	.530	.39	.12	.88	.65	2.1	.095	.038	---			
27...	.420	.53	.19	.96	.61	1.9	.134	.035	---			
MAR												
04...	.280	---	.69	1.10	.97	2.3	.134	.026	---			
06...	.460	---	.34	1.30	.80	2.3	.119	.037	3.0			
06...	.410	---	.45	1.30	.86	2.3	.139	.028	---			
11...	.300	---	.19	.93	.49	2.0	.125	.021	---			
11...	.190	---	.26	1.10	.45	1.9	.158	.016	---			
11...	.320	---	.78	1.10	1.1	2.6	.123	.047	4.0			
17...	.240	---	.39	1.50	.63	1.7	.761	.027	5.4			
17...	.240	---	.34	1.80	.58	1.7	.314	.019	5.2			
17...	.150	---	.74	1.60	.89	2.1	.199	.037	6.3			
20...	.400	---	.37	1.20	.77	1.9	.150	.034	---			
20...	.390	---	.28	.88	.67	1.9	.095	.035	---			
20...	.300	---	.61	1.20	.91	2.0	.101	.033	12			
25...	.290	---	.22	1.00	.51	1.6	.121	.033	5.2			
25...	.160	---	.46	.55	.62	1.7	.104	.030	4.6			
26...	.050	---	.56	.79	.61	1.79	.102	.034	4.3			
28...	.190	---	.15	.190	.34	1.6	.156	.047	7.7			
31...	.250	---	.15	.85	.40	1.8	.155	.042	3.6			
31...	.250	---	.17	.68	.42	1.8	.121	.041	4.7			

APPENDIX D-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A PHYTO- PLANK- TON, CORR. (UG/L) (32211)	PHEO- PHYTIN PHYTO- PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYLL A PHYTO- PLANK- TON, UNCORR. (UG/L) (32230)	CHLORO- PHYLL A FLURO- METHO- CORR. (UG/L) (32209)	P-GEOPHY -TIN A FLURO- METHO- UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLURO- METHO- UNCORR. (UG/L) (32217)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT 06...	---	7.20	19.7	19.8	---	---	---	151
06...	---	8.00	7.70	13.2	---	---	---	38
06...	---	11.4	8.60	17.4	---	---	---	54
DEC 19...	---	---	---	---	9.60	9.50	15.4	52
19...	---	---	---	---	9.00	6.30	13.0	26
19...	---	---	---	---	18.6	8.70	24.6	34
JAN 16...	---	---	---	---	16.4	9.10	20.6	29
16...	---	---	---	---	---	---	---	70
16...	---	---	---	---	8.60	9.90	13.3	34
FEB 18...	---	---	---	---	29.5	25.1	41.3	153
18...	---	---	---	---	16.2	11.6	21.6	48
18...	---	---	---	---	17.0	14.4	23.8	61
19...	---	---	---	---	20.5	24.8	32.2	53
19...	---	---	---	---	16.9	11.7	22.4	105
19...	---	---	---	---	22.2	7.50	25.5	50
27...	---	---	---	---	22.8	7.50	26.1	---
27...	---	---	---	---	20.4	9.90	24.9	---
27...	---	---	---	---	22.8	10.0	27.3	---
MAR 04...	---	---	---	---	43.6	12.9	49.2	61
06...	---	---	---	---	51.2	14.4	57.5	---
06...	---	---	---	---	60.6	12.4	65.7	---
11...	---	---	---	---	97.3	15.1	103	30
11...	---	---	---	---	102	17.6	109	28
11...	---	---	---	---	85.2	15.5	91.4	21
17...	3.1	---	---	---	105	43.9	125	89
17...	3.0	---	---	---	93.3	44.8	114	67
17...	3.0	---	---	---	105	30.2	118	65
20...	---	---	---	---	51.8	24.7	63.0	49
20...	---	---	---	---	53.2	24.0	64.1	24
20...	---	---	---	---	50.2	22.4	60.4	---
25...	---	---	---	---	15.5	7.20	18.8	36
25...	---	---	---	---	22.3	10.2	26.9	31
26...	---	---	---	---	15.4	10.4	20.2	32
28...	---	---	---	---	16.2	16.6	24.0	83
31...	---	---	---	---	---	---	---	76
31...	---	---	---	---	---	---	---	45

APPENDIX D-1

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	(000003)	SAMPLE LOC- ATION	SILICA, DIS- SOLVED (MG/L)	VITRO- 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)
APR	0755	--	50000	6.6	.020	1.3	.320	.23	.84	
10...	0930	--	50000	7.0	.020	1.2	.200	.18	.47	
23...	1025	27	2000	--	--	--	--	--	--	
23...	1030	3.0	2000	--	--	--	--	--	--	
23...	1110	--	11700	--	--	--	--	--	--	
MAY										
19...	1510	--	2000	5.3	.030	.86	.030	.46	.60	
19...	1520	--	11700	5.0	.020	.75	.030	.26	.71	
JUN										
17...	1025	--	11700	.9	.020	.97	.060	.25	.78	
17...	1055	--	2000	.9	.030	1.0	.040	.22	.60	
JUL										
22...	0730	15	2000	1.4	.040	.29	.160	.42	.92	
22...	0735	3.0	2000	.9	.060	.34	.060	.54	.94	
22...	0750	--	11700	.9	.080	.45	.050	.42	1.00	
AUG										
18...	1905	3.0	2000	1.3	.030	.16	.040	.00	.63	
18...	1910	15	2000	1.4	.030	.18	.050	.43	.69	
19...	0840	3.0	2000	1.3	.040	.19	.060	.19	.37	
19...	0845	15	2000	1.4	.030	.19	.090	.34	.36	
19...	0910	--	11700	1.4	.020	.21	.060	.32	.84	
SEP										
17...	1745	3.0	2000	2.0	.040	.29	.020	.18	.78	
17...	1750	20	2000	3.0	.050	.26	.100	.66	1.00	
17...	1810	--	11700	2.3	.040	.26	.120	.31	.83	

APPENDIX D-1

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT-- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L) AS N (00623)	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)	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)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
APR									
03...	.55	1.9	.097	.042	5.0	12.8	11.3	18.0	27
10...	.38	1.6	.110	.028	4.4	11.9	10.5	16.8	24
23...	--	--	--	--	--	73.1	10.9	77.3	42
23...	--	--	--	--	--	58.0	4.80	59.5	22
23...	--	--	--	--	--	204	4.90	204	33
MAY									
19...	.49	1.4	.046	.028	--	30.0	18.9	38.8	54
19...	.29	1.0	.041	.020	--	55.5	25.1	66.6	57
JUN									
17...	.31	1.3	.145	.033	--	46.2	27.7	59.0	67
17...	.26	1.3	.105	.028	--	60.0	22.1	69.8	37
JUL									
22...	.58	.87	.114	.040	5.4	27.3	26.6	39.8	37
22...	.60	.94	.091	.020	4.2	38.8	16.6	46.3	13
22...	.47	.92	.036	.035	5.9	--	--	--	43
AUG									
18...	.02	.18	.135	.039	--	46.8	12.2	52.1	11
18...	.48	.66	.157	.066	--	40.5	17.1	48.2	32
19...	.25	.44	.131	.049	--	38.8	12.9	44.5	12
19...	.43	.62	.138	.062	--	26.9	12.4	32.5	15
19...	.38	.59	.154	.055	--	--	--	--	17
SEP									
17...	.20	.49	.081	.040	6.9	54.3	10.4	58.6	7
17...	.76	1.0	.097	.062	6.1	15.7	7.50	19.1	27
17...	.43	.69	.095	.057	5.8	--	--	--	18

APPENDIX D-1

382124077122700 - POTOMAC RIVER AT MARYLAND POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM LI BANK)	SILICA, DIS- SOLVED (MG/LI AS SI02)	NITRO- GEN, NITRITE TOTAL (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)
		(00003)	(00009)	(00955)	(00615)	(00613)	(00631)	(00610)	(00608)	(00605)
OCT										
06...	1400	3.0	5900	7.3	.000	.050	1.0	.150	.180	.56
06...	1410	27	5900	7.3	.010	.050	1.0	.010	.030	.82
28...	0815	--	2700	8.1	.000	.020	.95	.050	.000	.72
DEC										
15...	1415	3.0	2700	4.7	.010	.010	1.0	.200	.180	.70
19...	1345	27	5900	4.0	.030	.020	1.1	.160	.150	.57
19...	1350	3.0	5900	3.7	.030	.010	1.1	.160	.080	.42

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM LI BANK)	SILICA, DIS- SOLVED (MG/LI AS SI02)	NITRO- GEN, NITRITE TOTAL (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)
		(00003)	(00009)	(00955)	(00615)	(00613)	(00631)	(00610)	(00608)	(00605)
OCT										
06...	1400	3.0	5900	7.3	.000	.050	1.0	.150	.180	.56
06...	1410	27	5900	7.3	.010	.050	1.0	.010	.030	.82
28...	0815	--	2700	8.1	.000	.020	.95	.050	.000	.72
DEC										
15...	1415	3.0	2700	4.7	.010	.010	1.0	.200	.180	.70
19...	1345	27	5900	4.0	.030	.020	1.1	.160	.150	.57
19...	1350	3.0	5900	3.7	.030	.010	1.1	.160	.080	.42

3382233077102000 - POTOMAC RIVER AT STUART WHARF

**WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980**

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## APPENDIX D-1

## 382233077102000 - POTOMAC RIVER AT STUART WHARF -- Cont.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L) AS N (00623)	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)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
JAN									
16...	1.20	.62	1.2	.050	.007	10	28.8	28.0	99
16...	1.40	.65	1.5	.075	.008	11	79.2	13.5	8
FEB									
18...	.81	.67	1.9	.160	.038	2.9	60.5	27.7	110
18...	.84	.57	.76	.034	.013	3.9	63.0	14.9	26
20...	.75	.65	1.3	.114	.017	5.5	60.9	11.8	84
20...	.80	.51	1.1	.113	.017	6.0	66.5	10.4	12
27...	1.10	.29	.94	.073	.007	--	73.8	11.5	13
27...	.98	.45	1.5	.093	.010	--	55.8	10.9	---
27...	.96	.44	1.4	.092	.008	--	62.4	10.5	44
27...	1.30	.33	.78	.137	.005	--	96.0	28.8	---
27...	1.20	.37	.99	.081	.006	--	90.6	24.3	17
27...	1.10	.37	.80	.087	.006	--	76.8	11.0	---
MAR									
07...	.80	.32	1.2	.067	.005	--	84.6	12.4	8
07...	.95	.61	1.5	.117	.004	--	87.6	21.2	35
07...	.89	.62	1.4	.061	.016	--	103	10.5	9
07...	1.00	.49	1.2	.098	.006	--	109	25.5	32
07...	.79	.53	1.5	.068	.006	4.2	79.2	13.5	11
07...	1.10	.40	1.1	.127	.018	--	106	33.5	121
10...	.90	.54	1.6	.073	.006	--	134	18.5	141
10...	1.20	.30	.97	.078	.007	--	123	11.9	12
15...	1.40	.69	2.1	.124	.012	--	155	31.8	168
15...	--	.50	1.9	--	.010	--	131	28.6	143
17...	1.60	.35	1.4	.177	.006	7.9	158	20.2	96
17...	.88	.47	1.7	.101	.010	5.3	120	20.0	18
21...	1.30	.77	2.0	.132	.022	9.4	91.2	43.1	58
21...	1.30	.70	1.9	.177	.025	13	102	72.6	---
26...	1.10	.47	1.5	.076	.025	3.1	53.0	16.0	20
26...	.99	.49	1.3	.073	.013	3.3	64.0	13.2	18
28...	.93	.20	1.1	.089	.018	5.9	48.6	11.5	24
28...	.66	.65	1.8	.099	.022	--	38.9	13.7	21
APR									
02...	.70	.49	1.6	.103	.034	4.1	14.8	12.6	53
02...	.53	.52	1.5	.091	.033	7.3	30.0	24.6	---
02...	.40	.38	1.6	.119	.047	6.8	5.10	11.8	46
02...	.32	.34	1.5	.135	.039	5.0	12.2	12.1	62
03...	.67	.49	1.7	.114	.030	3.6	23.8	12.3	31
03...	.88	.55	1.9	.164	.039	3.6	12.6	14.4	63
10...	.58	.59	1.9	.107	.000	5.1	9.00	11.7	37



## APPENDIX D-1

382233077102000 - POTOMAC RIVER AT STUART WHARF -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	LOC- TION	SAMPLE SECTION (FT)	SILICA, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L)	NITRO- GEN, NO2-N 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)
		(00003)	(00009)	(00955)	(00613)	(00631)	(00608)	(00607)	(00625)	
APR	1025	3.0	5000	6.9	.020	1.3	.190	.34	.33	
10...	1710	3.0	5000	6.1	.020	1.1	.310	.33	1.20	
10...	1715	27	5000	6.1	.020	1.2	.240	.21	.76	
MAY	1620	3.0	3600	4.6	.010	.84	.040	.43	.67	
19...	1625	22	3600	4.4	.010	.83	.070	.14	2.20	
JUN	0930	3.0	3600	2.1	.020	.59	.140	.21	.69	
17...	0935	22	3600	2.1	.010	.58	.150	.35	1.00	
JUL	0825	25	3600	2.9	.010	.19	.110	.27	.69	
22...	0830	3.0	3600	2.7	.010	.20	.040	.32	.57	
AUG	1755	3.0	3600	2.7	.020	.28	.050	.28	.47	
18...	1800	23	3600	3.7	.020	.17	.190	.30	.48	
SEP	1835	3.0	3600	4.0	.080	.16	.010	.21	.53	
17...	1840	24	3600	4.7	.130	.20	.050	.19	.84	

APPENDIX D-1

382233077102000 - POTOMAC RIVER AT STUART WHARF --- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN. AM- MONIA + ORGANIC DIS. (MG/L) AS N) (00623)	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)	CHLORO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY -TIN A FLURO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
APR									
10...	.53	1.8	.084	.040	7.4	8.60	7.70	12.2	30
10...	.64	1.7	.137	.034	--	13.8	14.0	20.4	41
10...	.45	1.7	.794	.049	--	25.2	83.6	65.4	--
MAY									
19...	.47	1.3	.059	.033	--	24.6	13.4	30.8	29
19...	.21	1.0	.073	.040	--	28.0	66.1	59.7	--
JUN									
17...	.35	.94	.094	.042	--	15.6	12.7	21.6	21
17...	.50	1.1	.179	.042	--	17.5	34.3	34.0	100
JUL									
22...	.38	.57	.038	.032	4.7	34.2	39.2	52.7	77
22...	.36	.56	.017	.023	4.8	17.7	11.6	23.0	17
AUG									
18...	.33	.61	.123	.061	--	27.3	4.80	29.2	13
18...	.49	.66	.137	.064	--	7.40	9.20	11.7	25
SEP									
17...	.22	.38	.081	.043	4.9	16.7	6.00	19.3	14
17...	.24	.44	.114	.077	4.0	22.5	10.5	27.3	28

## APPENDIX D-1

01660800 - POTOMAC R NR MORGANTOWN, MD.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- SECTION (FT-FM LI BANK)	LOC- ATION	SILICA, DIS- SOLVED (MG/LI AS SI02)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE 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)
		(00003)	(00009)	(00015)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)	(00625)
OCT											
06...	1610	59	1500	4.7	.020	.080	.120	.140	.80	.30	.92
06...	1620	3.0	1500	5.9	.010	.010	.080	.070	.56	.44	.64
12...	1120	69	1500	6.5	.030	.070	.130	.070	.47	.27	.60
12...	1130	3.0	1500	7.4	.000	.040	.100	.080	.68	1.1	.78
12...	1450	69	1500	6.3	.000	.050	.100	.050	.49	.43	.59
12...	1500	3.0	1500	7.0	.000	.030	.100	.070	.56	.37	.66
19...	1253	62	1500	4.7	.090	.090	.140	.040	.38	1.7	.52
19...	1302	3.0	1500	7.4	.020	.020	.130	.040	1.2	.70	1.30
19...	1442	62	1500	4.2	.070	.100	.130	.130	.54	.36	.67
19...	1450	3.0	1500	4.3	.030	.110	.130	.100	.58	.66	.71
26...	1315	69	1500	5.9	.050	.050	.160	.140	.58	.36	.74
26...	1320	3.0	1500	6.8	.040	.040	.140	.110	.57	.67	.71
26...	1420	3.0	2000	6.3	.120	.030	.120	.100	.81	1.0	.93
26...	1425	23	2000	6.2	.030	.020	.140	.130	.78	1.1	.92
26...	1635	69	1500	6.3	.040	.050	.150	.130	.57	.65	.72
26...	1640	3.0	1500	7.2	.020	.030	.130	.070	1.3	.84	1.40
NOV											
04...	1035	62	1500	6.5	.010	.040	.090	.080	.37	.36	.46
04...	1045	3.0	1500	6.6	.010	.040	.150	.120	.31	.36	.46
04...	1315	62	1500	6.3	.010	.020	.000	.090	.54	.50	.54
04...	1320	3.0	1500	6.3	.020	.060	.130	.060	.43	.38	.56
11...	1320	3.0	1500	7.2	.030	.010	.100	.020	.66	.64	.76
18...	1420	62	1500	5.4	.030	.030	.170	.150	.39	.23	.56
25...	1420	3.0	1500	5.2	.030	.010	.160	.060	.47	.57	.63
25...	1430	62	1500	5.1	.040	.010	.140	.070	.29	.39	.43
DEC											
15...	1020	62	1500	3.5	.000	.010	.160	.060	.72	.46	.88
15...	1030	3.0	1500	4.4	.010	.010	.200	.230	.60	.32	.80
15...	1330	62	1500	3.3	.010	.010	.140	.050	.48	.26	.62
15...	1335	3.0	1500	4.3	.020	.010	.410	.030	.69	.39	1.10
15...	1415	3.0	1500	4.7	.010	.010	.200	.180	.70	.31	.90
15...	1420	62	1500	4.2	.000	.010	.150	.130	.57	.42	.72
19...	1215	59	1500	3.8	.030	.020	.110	.020	.54	.33	.65
19...	1220	3.0	1500	4.2	.030	.020	.170	.130	.54	.46	.71
JAN											
16...	1700	63	1500	3.1	.010	.010	.330	.000	.97	.59	1.30
16...	1705	3.0	1500	3.6	.010	.010	.230	.030	.87	.37	1.10
FEB											
18...	1625	72	1500	3.0	.020	.020	.070	.070	1.0	.42	1.10
18...	1630	3.0	1500	3.3	.020	.010	.050	.030	.87	.30	.92

## APPENDIX D-1

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	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)	CHLORO- PHYLLA PHYTO- PLANK- TON, CORR. (UG/L) (32211)	PHED- PHYTIN- PHYTO- PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYLLA PHYTO- PLANK- TON, UNCORR. (UG/L) (32230)	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)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT												
06...	.44	1.2	.123	.048	14	9.60	39.7	34.8	--	--	--	154
06...	.51	1.6	.081	.046	8.4	13.7	7.90	19.4	--	--	--	16
12...	.34	1.2	.073	.047	--	--	--	--	--	--	--	24
12...	1.2	2.2	.095	.058	--	--	--	--	--	--	--	18
12...	.48	1.4	.098	.058	--	--	--	--	--	--	--	24
12...	.44	1.4	.097	.064	--	--	--	--	--	--	--	17
19...	1.7	2.2	.060	.030	--	--	--	--	--	--	--	20
19...	.74	1.7	.070	.040	--	--	--	--	1.90	5.40	4.60	20
19...	.49	.91	.130	.040	--	--	--	--	3.80	2.80	5.20	15
19...	.76	1.2	.070	.030	--	--	--	--	2.20	11.8	8.10	37
26...	.50	1.2	.066	.035	--	--	--	--	5.60	2.20	6.70	42
26...	.78	1.5	.065	.038	--	--	--	--	2.80	6.50	6.10	19
26...	1.1	1.8	.056	.056	--	--	--	--	5.40	5.50	8.20	15
26...	1.2	1.9	.089	.090	--	--	--	--	--	--	--	--
26...	.78	1.5	.064	.080	--	--	--	--	3.20	6.20	6.30	14
26...	.91	1.8	.065	.033	--	--	--	--	4.70	5.00	7.10	11
NOV												
04...	.44	1.2	.062	.035	--	--	--	--	5.40	6.50	8.60	21
04...	.48	1.3	.055	.040	--	--	--	--	6.50	5.60	9.20	11
04...	.59	1.3	.082	.033	--	--	--	--	3.50	7.40	7.20	30
04...	.44	1.6	.060	.034	--	--	--	--	3.40	5.20	5.90	17
11...	.66	1.8	.063	.030	--	--	--	--	--	--	--	10
18...	.38	1.2	.064	.032	--	--	--	--	--	--	--	--
25...	.63	1.5	.065	.031	--	--	--	--	--	--	--	--
25...	.46	1.3	.045	.032	--	--	--	--	--	--	--	--
DEC												
15...	.52	.95	.047	.008	--	--	--	--	10.4	4.70	13.6	20
15...	.55	1.3	.050	.018	--	--	--	--	13.5	1.90	15.4	5
15...	.31	.66	.041	.010	--	--	--	--	12.1	5.10	15.7	10
15...	.42	1.1	.087	.015	--	--	--	--	71.2	7.50	79.9	5
15...	.49	1.5	.045	.030	--	--	--	--	--	--	--	--
15...	.55	1.2	.060	.031	--	--	--	--	11.9	6.70	16.4	21
19...	.35	.85	.065	.009	4.8	--	--	--	20.7	3.40	23.8	8
19...	.59	1.4	.051	.014	3.6	--	--	--	--	--	--	--
JAN												
16...	.59	.93	.055	.008	5.6	--	--	--	58.8	11.8	63.7	30
16...	.40	.90	.042	.009	5.6	--	--	--	74.7	12.3	79.6	4
FEB												
18...	.49	.81	.086	.006	5.4	--	--	--	87.8	19.4	96.0	56
18...	.33	.68	.045	.007	5.4	--	--	--	77.6	16.9	84.6	8

## APPENDIX D-1

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LJC- ATION, CROSS SECTION (FT FM L 3ANK)	SILICA, DIS- SOLVED (MG/L) AS SI02	NITRO- GEN, NITRITE TOTAL (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 TOTAL (MG/L) AS N	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N
		(00003)	(00009)	(00615)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)
FEB										
25...	0610	55	50000	3.4	.010	.010	.26	.080	.83	.23
25...	0615	3.0	50000	3.6	.010	.010	.27	.090	.58	.21
25...	0920	3.0	50000	3.2	.010	.010	.27	.080	.58	.30
25...	0925	55	50000	3.6	.010	.020	.22	.030	.94	.25
25...	1215	55	50000	3.1	.010	.030	.55	.660	.90	.00
25...	1220	3.0	50000	3.4	.010	.010	.19	.090	.85	.28
MAR										
05...	1215	3.0	50000	3.3	.010	.010	.31	.000	1.2	1.0
05...	1220	55	50000	3.0	.010	.010	.23	.010	1.1	.35
05...	1430	3.0	50000	3.3	.010	.010	.30	.000	1.2	1.2
05...	1440	55	50000	3.0	.010	.010	.23	.000	1.6	.96
05...	1810	3.0	50000	3.2	.010	.010	.34	.040	1.1	.67
05...	1820	55	50000	3.2	.010	.010	.27	.010	1.5	.61
07...	1305	3.0	50000	3.2	.020	.020	.03	.000	---	.36
07...	1320	55	50000	2.7	.010	.010	.28	.010	---	.84
10...	1640	3.0	50000	3.1	.020	.020	.51	.040	---	.33
10...	1645	55	50000	2.5	.020	.020	.27	.050	---	.30
12...	1200	3.0	50000	2.8	.020	.020	.62	.060	---	.42
12...	1210	55	50000	2.3	.030	.030	.46	.080	---	.42
12...	1400	3.0	50000	2.8	.010	.010	.60	.040	---	.48
12...	1410	55	50000	2.4	.010	.010	.29	.060	---	.45
12...	1840	3.0	50000	2.5	.010	.010	.82	.040	.8	.39
12...	1850	55	50000	2.4	.010	.010	.31	.060	.8	.36
17...	1500	57	1500	2.1	.010	.010	.47	.040	.8	.52
17...	1505	3.0	1500	1.8	.010	.010	.53	.010	---	.32
18...	1130	3.0	50000	1.6	.040	.040	.76	.050	---	.43
18...	1131	55	50000	1.3	.020	.020	.59	.020	---	.51
18...	1445	3.0	50000	1.3	.060	.060	.53	.020	---	.38
18...	1446	55	50000	1.4	.010	.010	.56	.020	---	.45
18...	1645	3.0	50000	1.7	.020	.020	.53	.000	---	.26
18...	1646	55	50000	1.5	.020	.020	.61	.020	---	.32
19...	1200	64	1500	2.1	.020	.020	.53	.020	---	.20
19...	1205	13	1500	1.1	.060	.060	.61	.010	---	.66
19...	1210	3.0	1500	1.1	.020	.020	.81	.050	---	.33
21...	1410	3.0	50000	6.7	.190	1.5	.63	.080	---	.18
21...	1430	55	50000	1.3	.020	.020	.91	.010	---	.46
24...	1030	3.0	50000	.3	.020	.020	.37	.150	---	.24
24...	1040	55	50000	2.1	.010	.010	.46	.060	---	.65
24...	1350	55	50000	1.9	.010	.010	.89	.020	---	.42
24...	1400	3.0	50000	.4	.020	.020	.89	.240	---	1.8

## APPENDIX D-1

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHOS- TOTAL (MG/L AS P) (00665)	PHOS- 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 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)	SEDI- MENT, SUS- PENDEI (MG/L) (80154)
FEB										
25...	.87	.31	.059	.010	--	--	96.6	15.9	103	7
25...	.61	.30	.058	.011	--	--	93.0	10.2	96.6	--
25...	.61	.38	.061	.019	--	--	90.6	14.5	96.3	6
25...	1.00	.28	.070	.012	--	--	104	12.4	108	9
25...	.93	.50	.049	.008	--	--	--	--	--	5
25...	.89	.37	.060	.008	--	--	93.0	17.0	99.9	6
MAR										
05...	1.20	1.0	.051	.029	--	--	67.2	10.7	71.4	--
05...	1.10	.36	.064	.016	--	--	116	20.2	125	--
05...	1.30	1.2	.055	.011	--	--	106	16.1	112	--
05...	1.70	.96	.203	.012	--	--	123	50.6	146	--
05...	1.20	.71	.062	.010	--	--	85.2	13.7	90.6	--
05...	1.60	.62	.216	.025	--	--	108	36.0	124	--
07...	1.40	.36	.042	.012	5.7	--	74.4	10.9	78.6	--
07...	1.30	.85	.090	.016	--	--	139	17.8	146	--
10...	.58	.37	.032	.006	--	--	53.1	3.20	53.8	--
10...	2.00	.35	.095	.005	--	--	247	46.7	266	--
12...	1.10	.48	.054	.012	--	--	135	10.2	138	3
12...	2.00	.50	.095	.019	--	--	261	19.2	267	8
12...	1.10	.52	.052	.009	--	--	121	12.9	126	3
12...	2.30	.51	.099	.017	--	--	251	32.2	263	14
12...	.75	.43	.068	.007	--	--	74.0	3.30	74.5	5
12...	2.10	.42	.097	.019	--	--	282	24.9	290	10
17...	4.40	.56	.199	.011	7.8	3.1	275	115	327	--
17...	1.50	.33	.069	.007	12	2.2	153	9.50	156	4
18...	1.30	.48	.086	.013	4.1	--	210	12.5	213	17
18...	1.70	.53	1.00	.008	5.7	--	178	32.1	191	26
18...	1.40	.40	.074	.012	8.7	--	167	18.6	173	7
18...	1.40	.47	.109	.012	8.9	--	152	27.2	163	9
18...	2.00	.26	.103	.008	5.7	--	174	18.8	181	5
18...	1.50	.34	.069	.017	8.0	--	182	40.5	199	29
19...	2.20	.22	.576	.021	4.4	3.9	207	26.8	217	--
19...	1.20	.67	.083	.022	8.6	6.5	162	25.5	172	--
19...	1.70	.38	.076	.013	6.1	5.5	268	27.0	277	--
21...	.95	.26	.070	.040	--	--	159	23.3	168	10
21...	1.30	.47	.134	.017	--	--	202	40.6	218	44
24...	2.00	.39	.074	.035	4.0	--	268	26.2	277	10
24...	1.10	.71	.056	.009	6.5	--	194	25.9	203	33
24...	.98	.44	.077	.013	--	--	190	25.4	200	7
24...	.37	2.0	.019	.121	--	--	226	.600	223	10

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LDC- ATION	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)
MAR										
26...	1630	55	50000	1.7	.020	1.2	.240	.04	.28	1.50
26...	1640	3.0	50000	.8	.020	.89	.140	.23	.26	1.20
28...	1250	55	50000	1.7	.010	.27	.090	.35	.50	1.50
28...	1255	3.0	50000	1.7	.010	.80	.090	.65	.77	1.30
APR										
02...	1210	3.0	50000	3.9	.020	.87	.160	.28	.39	.90
02...	1220	55	50000	2.5	.010	.66	.180	.26	.44	.44
02...	1530	55	50000	2.1	.010	.51	.150	1.2	.50	1.30
02...	1540	3.0	50000	4.0	.020	1.0	.150	.50	.77	.77
03...	1050	3.0	50000	4.1	.020	1.1	.190	.43	.97	.97
03...	1055	55	50000	2.7	.020	.68	.220	.39	1.00	1.00
08...	1335	55	50000	3.6	.020	.71	.400	.18	.30	1.30
10...	1120	3.0	1500	5.0	.020	1.0	.180	.55	.53	1.20
10...	1125	62	1500	3.7	.020	.74	.410	.26	.78	1.90
10...	1130	3.0	50000	5.0	.020	1.0	.150	.36	.39	1.30
10...	1131	3.0	50000	4.9	.020	1.0	.220	.35	.76	.76
10...	1135	55	50000	4.3	.020	.82	.310	.55	1.00	1.00
10...	1136	55	50000	4.1	.020	.78	.400	.29	.70	1.10
10...	1450	3.0	1500	4.9	.020	1.0	.200	.30	.59	.59
10...	1455	62	1500	4.0	.020	.74	.380	.41	.95	.95
10...	1510	3.0	50000	5.1	.020	1.0	.160	.27	.82	.82
10...	1520	55	50000	4.2	.020	.78	.350	.45	.61	.61
15...	1350	3.0	50000	5.8	.020	1.2	.190	.30	.43	.43
15...	1410	55	50000	5.4	.020	1.1	.340	.32	.94	.94
15...	1600	3.0	50000	5.5	.020	1.1	.300	.28	.34	.34
15...	1610	55	50000	5.1	.020	1.0	.360	.48	.99	.99
17...	1150	3.0	50000	5.6	.020	1.3	.110	.06	.88	.88
17...	1206	55	50000	5.3	.020	1.1	.280	.37	.75	.75
17...	1500	3.0	50000	5.6	.020	1.2	.090	.18	1.50	1.50
17...	1510	55	50000	5.3	.030	1.1	.280	.21	.78	.78
28...	1010	3.0	50000	3.8	.020	.83	.120	.16	1.20	1.20
28...	1015	55	50000	3.2	.020	.68	.170	.54	.78	.78
MAY										
01...	1745	3.0	50000	4.4	.020	.85	.080	.27	.89	.89
01...	1800	55	50000	--	.030	.70	.150	.37	.75	.75
01...	1900	3.0	50000	--	.020	.85	.090	.18	1.50	1.50
01...	1920	55	50000	3.8	.020	.72	.130	.21	.78	.78
06...	1540	55	50000	3.1	.020	.56	.150	.16	1.20	1.20
06...	1545	3.0	50000	4.3	.020	.84	.100	.54	.78	.78
06...	1905	3.0	50000	4.6	.020	.98	.360	.27	.89	.89

## APPENDIX D-1

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/LI AS N) (00623)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/LI AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
MAR									
26...	.28	1.5	.090	.009	5.0	186	30.7	198	5
26...	.37	1.3	.101	.010	4.7	136	8.20	138	7
28...	.44	.71	.123	.028	8.6	208	93.8	250	37
28...	.74	1.5	.085	.008	3.5	147	16.4	153	9
APR									
02...	.44	1.3	.098	.018	3.6	53.0	12.9	58.5	19
02...	.44	1.1	.142	.021	12	108	30.0	121	61
02...	1.3	1.8	.123	.015	6.1	116	13.8	121	44
02...	.65	1.7	.083	.019	4.2	35.0	8.30	38.5	17
03...	.62	1.7	.106	.021	4.9	81.0	16.3	87.8	25
03...	.61	1.3	.197	.027	6.3	66.8	38.5	84.5	99
08...	.58	1.3	.118	.013	--	--	--	--	56
10...	.73	1.7	.122	.018	--	86.2	10.3	90.0	--
10...	.94	1.7	.175	.017	--	52.2	108	104	--
10...	.41	1.4	.108	.038	4.6	53.7	12.2	58.8	13
10...	.58	1.6	.093	.012	--	35.2	7.80	38.5	13
10...	.66	1.5	.131	.013	6.6	34.5	28.8	48.0	45
10...	.79	1.6	.178	.019	--	37.8	75.0	73.7	--
10...	.75	1.8	.437	.077	--	158	2.00	157	--
10...	.67	1.4	.175	.018	--	35.2	45.4	56.7	85
10...	.86	1.9	.228	.086	--	160	12.2	163	--
10...	.65	1.4	.144	.019	--	33.6	55.4	60.0	167
15...	.60	1.8	.125	.032	--	17.3	14.8	24.2	31
15...	.61	1.7	.311	.038	--	13.0	24.6	24.8	99
15...	.75	1.9	.103	.035	--	14.5	15.3	21.7	33
15...	.66	1.7	.155	.037	--	13.8	27.6	27.0	87
17...	1.4	2.7	.104	.025	--	23.6	45.0	45.1	34
17...	.60	1.7	.183	.042	--	27.3	43.6	48.1	124
17...	.37	1.6	.116	.017	--	53.8	6.90	56.4	26
17...	.76	1.9	.318	.046	--	23.3	41.9	43.3	205
28...	.57	1.4	.109	.027	9.9	--	--	--	34
28...	.23	.91	.127	.058	--	--	--	--	122
MAY									
01...	.45	1.3	.036	.016	--	38.2	11.7	43.3	17
01...	.33	1.0	.069	.014	--	32.7	67.3	64.9	236
01...	.30	1.2	.036	.011	--	33.5	8.70	37.2	15
01...	1.7	2.4	--	.012	--	32.8	39.3	51.4	81
06...	.31	.87	.032	.019	--	27.8	61.1	57.0	166
06...	.64	1.5	.033	.018	--	32.0	4.50	33.8	17
06...	.63	1.6	.029	.022	--	22.8	9.10	26.9	17



## APPENDIX D-1

01660800 - POTOMAC R NR MORGANTOWN, MD -- Cont.  
WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LONG DEPTH (FT)	LOC- TION CROSS- SECTION (FT FM LI 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 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
			(00003)	(00955)	(00613)	(00631)	(00608)	(00607)	(00625)
MAY									
06...	1920	55	50000	3.2	.040	.58	.170	.52	--
09...	1210	3.0	50000	4.0	.020	.89	.150	.22	1.10
09...	1215	55	50000	2.7	.020	.54	.170	.43	2.80
12...	1115	3.0	50000	3.3	.020	.71	.100	.38	.71
12...	1125	55	50000	2.9	.020	.57	.160	.22	.76
16...	0610	3.0	50000	2.6	.030	.95	.070	.29	1.10
16...	0905	55	50000	2.4	.030	.79	.110	.27	.73
19...	2000	3.0	1500	2.9	.010	.53	.030	.22	.74
20...	0825	3.0	1500	2.9	.010	.55	.110	.32	.70
20...	0830	52	1500	2.7	.010	.35	.150	.22	.97
23...	0800	55	50000	3.0	.010	.35	.190	.08	.67
23...	0810	3.0	50000	4.1	.010	.66	.110	.19	.56
23...	1110	3.0	50000	4.2	.010	.74	.100	.22	.57
23...	1120	55	50000	2.8	.010	.30	.190	.13	.78
27...	0925	3.0	1500	3.7	.010	.48	.090	.36	.40
27...	0930	62	1500	2.2	.010	.09	.240	.00	.82
27...	1000	3.0	50000	3.7	.020	.53	.110	.16	.41
27...	1010	55	50000	2.6	.010	.16	.210	.51	.75
29...	1635	55	50000	2.6	.000	.00	.000	.86	.93
29...	1645	3.0	50000	3.0	.000	.00	.000	.46	.44
29...	1900	3.0	50000	2.8	.020	.48	.030	.40	.51
29...	1910	55	50000	2.6	.040	.25	.370	.31	.74
JUN									
03...	1750	3.0	50000	2.6	--	.05	--	--	.74
03...	1800	55	50000	3.0	--	.22	.160	--	1.80
06...	1130	55	50000	2.4	.010	.08	.280	.33	.72
06...	1140	3.0	50000	2.8	.010	.30	.060	.27	.87
11...	1050	57	1500	--	.010	.19	.260	.32	.58
11...	1117	3.0	1500	--	.010	.39	.180	.10	.54
12...	1620	3.0	50000	2.3	.010	.32	.170	.43	.73
12...	1635	55	50000	2.4	.020	.83	.020	.66	1.60
12...	1900	3.0	50000	2.4	.010	.28	.170	.57	.60
12...	1910	55	50000	1.3	.020	.23	.290	.38	.48
16...	1725	3.0	1500	2.4	.010	.38	.150	.37	.71
16...	1730	61	1500	2.6	.010	.21	.280	.23	.84
21...	1120	3.0	50000	2.5	.020	.38	.160	.35	.45
21...	1130	55	50000	2.9	.010	.25	.230	.32	.92
21...	1350	3.0	50000	2.7	.010	.34	.160	.23	.67
21...	1400	55	50000	2.8	.020	.27	.200	.20	.56
25...	1355	55	50000	3.1	.010	.17	.130	.39	.81

## APPENDIX D-1

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L) AS N (00623)	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)	CHLORO- PHYLL A METRIC CORR. (UG/L) (32209)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
MAY									
06...	.69	1.3	---	.018	---	30.0	35.7	46.9	87
09...	.37	1.3	.152	.023	---	---	---	---	57
09...	.60	1.1	.217	.025	---	---	---	---	22
12...	.48	1.2	.037	.015	4.3	31.4	14.3	37.8	22
12...	.38	.95	.034	.019	5.7	20.0	27.0	32.8	50
16...	.36	1.3	.034	.007	---	---	---	---	55
16...	.38	1.2	.038	.008	---	---	---	---	17
19...	.25	.78	.041	.010	---	---	---	---	14
20...	.43	.98	.072	.015	---	33.7	16.9	41.4	14
20...	.37	.72	.133	.008	---	48.6	8.30	51.9	10
23...	.27	.63	.108	.027	---	25.8	28.8	39.4	65
23...	.30	.96	.067	.028	---	18.0	20.6	27.8	43
23...	.32	1.1	.065	.025	---	16.6	12.2	22.2	13
23...	.32	.62	.090	.013	---	23.0	9.40	27.2	7
27...	.45	.93	.077	.024	---	15.5	17.5	23.8	32
27...	.22	.31	.186	.044	---	16.6	9.90	21.2	14
27...	.27	.80	.090	.021	---	9.30	34.9	26.1	162
27...	.72	.88	.249	.026	---	14.0	14.3	20.7	124
29...	.86	.86	.220	.066	---	12.5	41.6	32.5	18
29...	.46	.46	.062	.088	---	11.0	11.7	16.5	107
29...	.43	.91	.086	.105	---	34.6	8.00	38.0	14
29...	.68	.93	.052	.049	---	32.1	11.6	37.2	11
JUN						13.8	45.6	35.8	35
03...	.63	.68	.100	.029	---	44.5	16.3	51.8	12
03...	---	---	.541	.063	---	19.3	80.0	57.8	---
06...	.61	.69	.150	.040	---	9.70	9.40	14.1	9
06...	.33	.63	.171	.067	---	54.8	26.2	66.7	14
11...	.58	.77	.116	.060	---	10.1	18.1	18.8	43
11...	.28	.67	.090	.050	---	15.9	11.2	21.1	13
12...	.60	.92	.083	.043	---	28.0	8.60	31.8	18
12...	.68	1.5	.830	.048	---	14.2	47.3	37.0	---
12...	.74	1.0	.093	.044	---	11.0	8.50	15.0	20
12...	.67	.90	.111	.050	---	8.30	12.3	14.2	48
16...	.52	.90	.093	.041	---	17.1	9.10	21.2	18
16...	.51	.72	.157	.047	---	9.80	19.7	19.3	61
21...	.51	.89	.072	.037	---	13.0	6.00	15.8	9
21...	.55	.80	.208	.046	---	10.5	26.1	23.0	97
21...	.39	.73	.074	.042	---	16.5	6.20	19.2	9
21...	.40	.67	.102	.043	---	9.30	9.60	13.8	28
25...	.52	.69	.072	.035	---	11.6	7.90	15.2	14

## APPENDIX D-1

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FT F4, 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 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)
JUN																	
25...	1405	3.0	50000			2.7		.010		.30		.040		.59		.88	
27...	1120	3.0	50000			3.1		.020		.33		.120		.39		.92	
27...	1130	55	50000			3.3		.010		.16		.170		.47		.89	
27...	1420	3.0	50000			2.6		.000		.33		.090		.47		.80	
27...	1430	55	50000			3.2		.000		.21		.200		.23		.49	
JUL																	
09...	0905	3.0	50000			3.8		.010		.16		.110		.36		.56	
09...	0930	55	50000			3.8		.010		.23		.120		.44		.53	
09...	1405	3.0	50000			3.8		.010		.03		.090		.65		.64	
09...	1430	55	50000			3.9		.210		.82		1.60		.00		.43	
10...	1750	3.0	1500			4.0		.010		.16		.130		.50		.88	
10...	1801	62	1500			4.1		.010		.11		.160		.35		.65	
11...	0830	3.0	1500			4.2		.010		.17		.120		.41		1.10	
11...	0835	62	1500			4.1		.010		.10		.150		.38		.85	
18...	1630	55	50000			4.4		.000		.04		.050		.35		.35	
18...	1640	3.0	50000			3.6		.000		.22		.020		.40		.82	
22...	0930	3.0	1500			2.8		.020		.11		.070		.24		.52	
22...	0935	62	1500			2.6		.010		.07		.060		.17		.47	
25...	0915	55	50000			3.8		.010		.03		.250		.35		.53	
25...	0925	3.0	50000			3.5		.010		.07		.150		.14		.56	
29...	1035	55	50000			4.4		.010		.03		.090		.19		1.30	
29...	1045	3.0	50000			4.4		.020		.08		.130		.41		.70	
31...	1320	3.0	50000			3.9		.010		.09		.020		.30		.74	
31...	1330	55	50000			4.5		.010		.05		.100		.10		1.00	
AUG																	
11...	1720	3.0	50000			4.5		.000		.02		.020		.19		.57	
11...	1730	55	50000			4.5		.000		.01		.070		.07		.38	
11...	1740	3.0	1500			4.3		.010		.03		.020		.16		.76	
11...	1750	64	1500			4.5		.010		.01		.080		.15		.42	
15...	1350	3.0	50000			4.0		.010		.09		.030		.13		.43	
15...	1400	55	50000			4.2		.000		.02		.060		.30		.45	
18...	1700	3.0	1500			4.2		.020		.23		.150		1.3		3.10	
18...	1705	63	1500			4.2		.010		.04		.110		.26		.48	
29...	1430	55	50000			4.4		.070		.13		.040		.14		.27	
29...	1440	3.0	50000			4.1		.040		.06		.010		.21		.77	
SEP																	
02...	1715	55	50000			4.7		.110		.15		.010		.36		.40	
02...	1725	3.0	50000			4.5		.090		.12		.020		.24		.70	
05...	1405	3.0	50000			4.7		.180		.23		.030		.18		.33	
05...	1415	55	50000			5.3		.020		.60		.050		.20		.35	

APPENDIX D-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN/AM- MONIA + ORGANIC DIS. (MG/L) AS N) (00623)	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)	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)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
JUN									
25...	.63	.93	.052	.026	--	47.5	8.60	51.0	6
27...	.51	.84	.094	.074	--	21.0	7.30	24.2	11
27...	.64	.80	.119	.075	--	5.80	9.00	10.1	25
27...	.56	.89	.103	.047	--	36.0	8.80	39.8	11
27...	.43	.64	.107	.054	--	5.80	10.8	10.9	40
JUL									
09...	.47	.63	.099	.069	--	--	--	--	17
09...	.56	.79	.111	.070	--	--	--	--	26
09...	.74	.77	.103	.071	--	--	--	--	13
09...	.60	1.4	.098	.062	--	--	--	--	18
10...	.63	.79	.109	.057	--	--	--	--	13
10...	.51	.62	.130	.059	--	--	--	--	57
11...	.53	.70	.113	.066	--	--	--	--	12
11...	.53	.63	.195	.067	--	--	--	--	--
18...	.40	.44	.085	.054	--	3.50	5.10	5.90	16
18...	.42	.64	.086	.048	--	20.0	5.20	22.2	17
22...	.31	.42	.042	.065	5.0	19.1	9.10	23.3	12
22...	.23	.30	.055	.053	5.7	4.80	3.50	6.40	52
25...	.60	.63	.143	.089	--	7.30	7.40	10.8	22
25...	.29	.36	.097	.060	--	12.6	5.60	15.2	12
29...	.28	.31	.225	.090	--	9.50	42.0	29.8	--
29...	.54	.62	.138	.060	--	24.0	4.30	25.8	18
31...	.32	.41	.155	.055	--	65.3	5.60	67.0	18
31...	.20	.26	.154	.063	--	--	--	--	47
AUG									
11...	.21	.23	.214	.121	--	110	14.6	112	27
11...	.14	.15	.196	.117	--	3.60	10.1	8.40	24
11...	.18	.21	.206	.105	--	127	19.3	135	12
11...	.23	.24	.198	.118	--	4.50	11.1	9.80	21
15...	.16	.25	.148	.079	--	59.0	5.90	61.0	14
15...	.36	.38	.264	.081	--	4.50	26.9	17.5	--
15...	1.4	1.6	.407	.128	--	329	27.2	337	18
18...	.37	.41	.132	.085	--	20.8	6.10	23.5	19
29...	.18	.31	.094	.098	--	17.5	7.00	20.6	11
29...	.22	.28	.135	.114	--	126	--.300	124	13
SEP									
02...	.37	.52	.117	.061	--	2.80	7.60	6.40	23
02...	.26	.38	.093	.054	--	30.7	7.50	33.9	5
05...	.21	.44	.170	.104	--	22.1	5.00	24.2	8
05...	.25	.85	.160	.062	--	3.10	9.10	7.50	45

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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APPENDIX D-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L) AS N) (00623)	NITRO- GEN OIS- 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)	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)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
SEP									
09...	.49	.69	.121	.082	--	5.50	6.10	8.40	14
09...	.46	.61	.130	.088	--	43.2	5.00	45.0	12
11...	.21	.38	.118	.088	--	22.5	4.20	24.2	19
11...	.16	.38	.136	.086	--	5.40	4.60	7.60	16
15...	.48	.64	.083	.054	--	3.40	6.90	6.70	33
15...	.21	.38	.089	.061	--	14.1	3.70	15.7	26
17...	.19	.33	.077	.070	4.3	3.70	4.60	5.90	28
17...	.28	.45	.084	.059	4.0	8.80	4.30	10.8	9
18...	.11	.25	.077	.051	4.1	5.00	2.80	4.80	24
18...	.48	.64	.092	.062	4.3	8.90	3.50	10.4	11
25...	.28	.43	.195	.079	--	3.10	22.5	14.0	98
25...	.30	.48	.103	.083	--	7.80	4.10	9.60	17
25...	.29	.45	.129	.081	--	3.20	9.00	7.50	29
25...	.20	.38	.095	.088	--	7.60	2.60	8.80	8

381516076503000 - POTOMAC RIVER AT COBB ISLAND  
APPENDIX D-1

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM LI BANK)	SILICA, DIS- SOLVED (MG/LI AS SI02)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/LI AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/LI AS N)	NITRO- GEN, AMMONIA TOTAL (MG/LI AS N)
		(00003)	(00009)	(00955)	(00615)	(00613)	(00631)	(00610)
OCT								
07...	0840	23	6600	4.4	.120	.090	.65	.060
07...	0850	3.0	6600	4.9	.070	.060	.82	.090
07...	0920	16	21500	4.0	.120	.110	.40	.090
07...	0935	3.0	21500	4.6	.070	.080	.67	.090
26...	1300	28	6600	5.3	.070	.060	.53	.150
26...	1305	1.0	6600	5.7	.060	.060	.63	.150
DEC								
18...	1415	20	6600	3.5	.040	.020	.35	.010
18...	1420	3.0	6600	3.9	.070	.020	.52	.220
JAN								
16...	1835	19	20100	2.9	.000	.020	.27	.230
16...	1840	3.0	20100	4.0	.010	.010	.55	.170
16...	1855	29	6600	2.4	.010	.010	.19	.230
16...	1900	3.0	6600	3.8	.010	.010	.51	.150
17...	0910	19	20100	2.8	.010	.010	.26	.270
17...	0915	3.0	20100	4.0	.010	.010	.64	.160
FEB								
18...	1500	18	20100	2.6	.050	.010	.26	.050
18...	1505	3.0	20100	3.0	.050	.010	.27	.240
18...	1530	23	6600	2.5	.030	.020	.25	.040
18...	1535	3.0	6600	2.9	.020	.030	.27	.040
20...	1730	23	6600	2.4	.010	.010	.21	.130
20...	1735	3.0	6600	2.5	.010	.010	.21	.140
20...	1740	17	6600	2.6	.010	.010	.22	.110
20...	1810	19	20100	2.7	.010	.010	.21	.180
20...	1815	3.0	20100	2.9	.010	.010	.22	.130
20...	1820	15	20100	2.8	.010	.010	.22	.150
MAR								
17...	1320	20	20100	2.5	--	.010	.23	--
17...	1325	3.0	20100	2.5	--	.010	.30	--
17...	1340	26	6600	2.1	--	.010	.22	--
17...	1345	3.0	6600	2.3	--	.010	.36	--
28...	1550	19	6600	1.4	--	.010	.18	--
28...	1555	3.0	6600	.9	--	.010	.58	--
28...	1615	3.0	20100	.9	--	.010	.62	--
28...	1620	16	20100	1.3	--	.010	.19	--
APR								
03...	1340	3.0	20100	2.8	--	.010	.75	--
03...	1345	18	20100	2.3	--	.020	.69	--
03...	1405	3.0	6600	2.7	--	.010	.76	--
03...	1410	21	6600	1.6	--	.010	.46	--
10...	1330	3.0	6600	3.6	--	.020	.79	--
10...	1335	12	6600	2.3	--	.020	.53	--
10...	1400	3.0	20100	3.3	--	.020	.78	--

381516076503000 - POTOMAC RIVER AT COBB ISLAND --Cont.  
APPENDIX D-1

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N <sup>3</sup> (00607)	NITRO- GEN, AM- MONIA ORGANIC TOTAL (MG/L) AS N <sup>3</sup> (00625)	NITRO- GEN, AM- MONIA ORGANIC DIS- SOLVED (MG/L) AS N <sup>3</sup> (00623)	NITRO- GEN, DIS- SOLVED (MG/L) AS N <sup>3</sup> (00602)	PHOS- PHORUS, TOTAL (MG/L) AS P <sup>3</sup> (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L) AS P <sup>3</sup> (00666)	CARBON- ORGANIC TOTAL (MG/L) AS C <sup>3</sup> (00680)
OCT									
07...	.020	1.0	.64	1.10	.66	1.3	.050	.040	3.8
07...	.090	.53	.43	.62	.52	1.3	.067	.049	3.6
07...	.080	.63	.92	.72	1.0	1.4	.051	.029	8.2
07...	.060	.91	.35	1.00	.41	1.1	.060	.045	8.2
26...	.140	.62	1.5	.77	1.6	2.1	.042	.046	--
26...	.100	1.4	1.8	1.50	1.9	2.5	.052	.046	--
DEC									
18...	.000	1.1	.25	1.10	.25	.60	.032	.011	4.0
18...	.050	.75	.35	.97	.40	.92	.084	.009	4.5
JAN									
16...	.080	1.1	.36	1.30	.44	.71	.056	.009	13
16...	.010	.93	.38	1.10	.39	.94	.036	.005	7.4
16...	.050	.67	.27	.90	.32	.51	.025	.009	16
16...	.050	.57	.28	.72	.33	.84	.024	.006	6.9
17...	.000	.93	.79	1.20	.79	1.1	.053	.007	--
17...	.010	.68	.47	.84	.48	1.1	.031	.011	6.3
FEB									
18...	.030	.65	.41	.70	.44	.70	.046	.009	7.0
18...	.080	.70	.80	.94	.88	1.2	.044	.008	4.8
18...	.050	.52	.48	.56	.53	.78	.023	.006	3.7
18...	.020	.47	.49	.51	.51	.51	.025	.009	8.6
20...	.050	.56	.39	.69	.44	.65	.048	.012	8.5
20...	.060	.58	.38	.72	.44	.65	.050	.015	9.0
20...	.050	.84	.33	.95	.38	.60	.039	.011	5.6
20...	.030	.81	.40	.99	.43	.64	.063	.010	12
20...	.050	.59	.26	.72	.31	.53	.036	.009	2.3
20...	.030	.58	.25	.73	.28	.50	.043	.007	13
MAR									
17...	.010	--	.31	1.60	.32	.55	.077	.005	11
17...	.010	--	.28	.91	.29	.59	.039	.007	6.2
17...	.010	--	.22	1.20	.23	.45	.038	.005	8.8
17...	.030	--	.52	.52	.53	.89	.026	.005	6.5
28...	.030	--	.16	.88	.19	.37	.054	.009	4.9
28...	.030	--	.15	.16	.18	.76	.043	.007	4.0
28...	.030	--	.25	.62	.28	.90	.039	.009	4.3
28...	.060	--	.17	1.20	.23	.42	.072	.047	5.4
APR									
03...	.070	--	.50	1.00	.57	1.3	.070	.009	3.0
03...	.070	--	.20	1.10	.27	.96	.055	.008	11
03...	.080	--	.28	1.10	.36	1.1	.062	.016	5.2
03...	.070	--	.32	1.60	.39	.85	.145	.010	5.0
10...	.150	--	.29	.80	.44	1.2	.058	.013	6.7
10...	.270	--	.49	.89	.76	1.3	.080	.008	6.4
10...	.130	--	.27	.81	.40	1.2	.040	.009	4.1



## APPENDIX D-1

381516076503000 -- POTOMAC RIVER AT COBB ISLAND --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CHLORO- PHYLL A PLANK- TON, CORR. (UG/L) (32211)	P-EO- PHYTO- PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYTO- PLANK- TON, UNCORR. (JG/L) (32230)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	P-EO- PHYTO- PLANK- TON, CORR. (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT								
07...	--	10.1	.500	11.0	--	--	--	13
07...	--	12.4	2.40	14.6	--	--	--	8
07...	--	4.60	2.60	6.50	--	--	--	4
07...	--	11.2	.000	11.8	--	--	--	5
26...	--	5.10	4.40	7.30	--	--	--	--
26...	--	25.5	6.20	28.6	--	--	--	--
DEC								
18...	--	--	--	--	18.9	3.50	22.0	10
18...	--	--	--	--	69.8	4.00	76.5	10
JAN								
16...	--	--	--	--	46.2	16.1	53.4	47
16...	--	--	--	--	43.0	8.70	46.6	16
16...	--	--	--	--	54.1	5.20	55.8	4
16...	--	--	--	--	31.8	6.30	34.4	8
17...	--	--	--	--	47.5	8.50	50.9	10
17...	--	--	--	--	60.6	7.40	63.3	6
FEB								
18...	--	--	--	--	46.5	4.10	47.8	18
18...	--	--	--	--	82.3	6.90	84.4	9
18...	--	--	--	--	40.8	8.60	44.4	8
18...	--	--	--	--	30.0	5.00	32.0	9
20...	--	--	--	--	58.5	11.3	63.1	2
20...	--	--	--	--	63.6	7.20	66.2	17
20...	--	--	--	--	52.3	12.7	57.7	3
20...	--	--	--	--	100	13.3	105	3
20...	--	--	--	--	45.4	4.00	46.7	2
20...	--	--	--	--	67.2	7.40	69.8	3
MAR								
17...	--	--	--	--	186	37.5	202	2
17...	3.5	--	--	--	67.5	9.80	71.2	1
17...	3.8	--	--	--	96.0	9.10	99.0	3
17...	2.0	--	--	--	30.0	6.30	32.6	1
28...	--	--	--	--	103	15.2	109	4
28...	--	--	--	--	34.5	6.40	37.1	7
28...	--	--	--	--	49.1	7.10	51.8	8
28...	--	--	--	--	184	38.5	200	8
APR								
03...	--	--	--	--	70.8	13.2	76.2	10
03...	--	--	--	--	41.9	8.70	45.5	9
03...	--	--	--	--	75.8	8.80	78.9	9
03...	--	--	--	--	227	36.0	241	9
10...	--	--	--	--	15.9	9.10	20.1	5
10...	--	--	--	--	14.5	8.30	18.3	8
10...	--	--	--	--	14.0	5.30	16.4	6

APPENDIX D-1

381516076503000 - POTOMAC RIVER AT COBB ISLAND --Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LONG DEPTH (FT)	(00003)	SAMPLE LOCATION CROSS SECTION (FT FM LI BANK)	(00009)	SILICA, DIS- SOLVED 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 DIS- SOLVED (MG/L AS N)	(00607)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	(00625)
APR																	
10...	1405	17	20100			2.5		.020		.71		.090		.26		.63	
16...	1400	3.0	6600			3.9		.030		.73		.360		.34		.72	
24...	1020	3.0	6600			4.7		.020		.98		.070		.22		.48	
24...	1025	25	6600			1.6		.010		.40		.100		.30		.42	
24...	1100	8.0	20100			3.5		.020		.92		.050		.24		.73	
24...	1105	3.0	20100			3.5		.020		.94		.060		.29		1.00	
MAY																	
20...	1000	3.0	6600			.7		.000		.09		.050		.34		1.20	
20...	1005	23	6600			.9		.010		.11		.050		.16		.57	
20...	1045	18	20100			2.6		.010		.13		.210		.10		.50	
20...	1050	3.0	20100			2.1		.010		.26		.030		.28		.75	
22...	1600	3.0	6600			2.0		.000		.20		.050		.38		.70	
22...	1605	22	6600			1.5		.010		.08		.100		.20		1.60	
JUN																	
16...	1540	3.0	6600			2.0		.010		.03		.030		.24		.63	
16...	1545	24	6600			2.1		.000		.02		.290		.13		.70	
16...	1615	3.0	20100			2.4		.010		.17		.050		.26		.72	
16...	1620	18	20100			2.4		.010		.15		.070		.32		.62	
JUL																	
09...	1055	3.0	6600			3.7		.000		.00		.000		.41		.85	
09...	1100	23	6600			3.5		.020		.15		.470		.03		.48	
10...	1755	19	13200			3.6		.010		.01		.050		.25		.52	
10...	1800	3.0	13200			3.8		.000		.01		.040		.37		.58	
22...	1030	3.0	6600			4.3		.000		.02		.020		.43		.94	
22...	1035	20	6600			3.8		.010		.02		.130		.29		.49	
22...	1055	3.0	20100			4.6		.010		.02		.040		.18		.64	
22...	1100	17	20100			3.8		.010		.01		.070		.22		.42	
AUG																	
18...	1520	3.0	20100			4.7		.000		.01		.020		.58		.73	
18...	1525	17	20100			3.9		.000		.03		.080		.37		.53	
18...	1540	3.0	6600			4.1		.000		.03		.040		.28		.35	
18...	1545	23	6600			3.5		.010		.03		.330		.13		.33	
SEP																	
18...	0920	3.0	6600			4.3		.030		.05		.050		.22		.73	
18...	0925	24	6600			3.8		.020		.15		.040		.25		.60	
18...	0940	3.0	20100			4.3		.050		.07		.040		.03		.37	
18...	0945	18	20100			4.4		.040		.05		.050		.07		.44	

381516076503000 -- POTOMAC RIVER AT COBB ISLAND --Cont.  
 APPENDIX D-1  
 WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, A4- MONIA + ORGANIC DIS. (MG/LI AS N) (00623)	NITRO- 3EN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/LI AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	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)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
APR									
10...	.35	1.1	.049	.011	3.8	17.0	7.20	20.2	4
16...	.70	1.5	.088	.029	--	14.4	10.3	19.2	14
24...	.29	1.3	.027	.006	3.8	25.8	4.40	27.6	5
24...	.40	.80	.026	.005	3.2	29.5	9.10	33.5	7
24...	.29	1.2	.057	.010	6.1	49.4	8.40	52.7	5
24...	.35	1.3	.051	.008	3.3	47.8	9.00	51.4	6
MAY									
20...	.39	.48	.063	.005	--	123	21.6	132	4
20...	.21	.32	.076	.004	--	131	25.2	142	7
20...	.31	.44	.132	.012	--	14.5	5.80	17.1	6
20...	.31	.57	.061	.003	--	86.8	14.7	92.7	5
22...	.43	.63	.032	.005	--	101	22.5	111	3
22...	.30	.38	.141	.006	--	85.2	16.9	92.2	38
JUN									
16...	.27	.30	.058	.011	--	42.7	5.50	44.8	4
16...	.42	.44	.047	.025	--	7.70	6.50	10.7	4
16...	.31	.48	.073	.020	--	57.9	4.90	59.5	5
16...	.39	.54	.074	.015	--	51.7	7.20	54.5	6
JUL									
09...	.41	.41	.102	.034	--	97.0	19.4	105	7
09...	.50	.65	.059	.040	--	10.1	21.2	20.3	57
10...	.30	.31	.047	.011	--	--	--	--	3
10...	.41	.42	.071	.029	--	--	--	--	16
22...	.45	.47	.044	.081	7.7	25.0	7.20	28.1	3
22...	.42	.44	.052	.080	--	4.20	7.20	7.60	16
22...	.22	.24	.079	.027	5.9	79.6	11.9	84.2	3
22...	.29	.30	.045	.070	5.4	5.10	4.50	7.20	7
AUG									
18...	.60	.61	.146	.059	--	77.6	5.50	79.1	1
18...	.45	.48	.115	.052	--	8.70	3.00	10.0	2
18...	.32	.35	.096	.055	--	16.8	3.70	18.3	6
18...	.46	.49	.121	.124	--	3.00	1.70	3.80	1
SEP									
18...	.27	.32	.056	.029	4.3	42.3	4.80	44.0	3
18...	.19	.22	.037	.031	3.8	12.2	6.40	15.2	7
18...	.07	.14	.061	.029	4.3	24.6	5.00	26.7	18
18...	.12	.17	.057	.034	6.1	5.30	3.40	6.90	3

## APPENDIX D-1

016614751 - POTOMAC R AT PINEY POINT, MD

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LNG DEPTH (FT)	SECTION CROSS SECTION (FT FM L/BANK)	SAMPLE		SILICA, DIS- SOLVED (MG/L) AS SI02)	NITRO-- GEN, NITRITE TOTAL (MG/L AS N)		NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
					LOC- ATION	LOC- ATION					
OCT	1100	30	10800	10800	3.2	.180	.170	.28	.040		
	1105	3.0	10800	10800	3.5	.100	.090	.37	.050		
	1200	56	500	500	2.6	.160	.150	.17	.080		
	1205	3.0	10800	10800	3.7	.100	.080	.37	.070		
	0930	52	4500	4500	3.0	.150	.100	.21	.170		
0935	26...	3.0	4500	4500	2.8	.130	.080	.25	.250		
DEC	1220	27	10800	10800	2.5	.010	.020	.25	.080		
	1225	3.0	10800	10800	3.6	.040	.030	.44	.220		
JAN	1030	43	500	500	2.0	.010	.010	.18	.110		
	1035	3.0	500	500	2.4	.010	.010	.19	.090		
	1120	37	10800	10800	2.1	.010	.010	.19	.110		
	1125	3.0	10800	10800	3.1	.010	.010	.26	.120		
FEB	1300	32	10900	10900	5.9	.010	.020	1.2	.230		
	1305	3.0	10900	10900	2.2	.030	.040	.25	.070		
	1345	35	500	500	1.8	.010	.050	.21	.010		
	1350	3.0	500	500	1.9	.060	.010	.18	.000		
MAR	1120	34	10800	10800	1.3	--	.010	.18	--		
	1125	3.0	10800	10800	1.9	--	.010	.18	--		
	1205	30	500	500	1.3	--	.010	.16	--		
	1210	3.0	500	500	1.6	--	.010	.19	--		
APR	1655	3.0	500	500	.7	--	.010	.46	--		
	1700	52	500	500	1.0	--	.020	.19	--		
	1720	3.0	10800	10800	.7	--	.010	.45	--		
	1725	37	10800	10800	.9	--	.010	.24	--		
MAY	1505	3.0	10800	10800	.4	--	.010	.41	--		
	1510	24	10800	10800	1.1	--	.010	.25	--		
	1540	3.0	500	500	.4	--	.010	.40	--		
	1545	57	500	500	1.1	--	.010	.21	--		
JUN	1215	60	500	500	2.5	--	.010	.30	--		
	1220	3.0	500	500	.3	--	.010	.49	--		
	1240	32	10800	10800	.0	--	.010	.32	--		
	1245	3.0	10800	10800	.4	--	.010	.49	--		
JUL	1220	3.0	500	500	.2	--	.010	.40	--		
	1225	59	500	500	.3	--	.010	.30	--		
	1245	30	10800	10800	.2	--	.010	.34	--		

## APPENDIX D-1

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

## WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N) (00623)	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)
OCT									
07...	.050	.67	.43	.71	.48	.75	.033	.015	6.1
07...	.030	.83	.50	.88	.53	.90	.040	.018	2.8
07...	.070	.69	.35	.77	.42	.59	.027	.010	7.3
07...	.040	.68	.54	.75	.58	.95	.047	.018	4.2
26...	.090	.50	.56	.67	.65	.85	.030	.012	--
26...	.090	.60	.47	.85	.56	.82	.021	.012	--
DEC									
18...	.020	.46	.30	.54	.32	.57	.026	.007	5.9
18...	.040	.46	.32	.68	.36	.80	.054	.011	4.4
JAN									
17...	.010	.59	.40	.70	.41	.59	.024	.008	9.4
17...	.000	.67	.32	.76	.32	.51	.019	.008	5.6
17...	.050	.58	.21	.69	.26	.45	.020	.007	8.3
17...	.100	.42	.29	.54	.39	.65	.020	.005	6.9
FEB									
18...	.220	.97	.60	1.20	.82	2.0	.245	.038	6.9
18...	.020	1.1	1.3	1.20	1.3	1.6	.024	.015	4.8
18...	.040	.47	.51	.48	.55	.76	.021	.011	12
18...	.020	.50	.52	.50	.54	.72	.029	.017	7.4
MAR									
17...	.030	--	.38	.38	.41	.59	.038	.006	6.4
17...	.030	--	.27	.56	.30	.48	.016	.004	7.9
17...	.030	--	.03	.15	.06	.22	.056	.006	8.6
17...	.040	--	.31	.44	.35	.54	.016	.007	6.3
APR									
03...	.060	--	.21	.51	.27	.73	.031	.006	4.5
03...	.070	--	.25	.55	.32	.50	.034	.008	9.2
03...	.040	--	.08	.84	.12	.57	.036	.009	9.2
03...	.050	--	.17	.35	.22	.46	.032	.008	9.3
10...	.110	--	.09	.34	.37	.78	.037	.011	6.0
10...	.110	--	.14	.33	.25	.50	.030	.012	4.5
10...	.200	--	.00	.30	.18	.58	.033	.007	4.2
10...	.200	--	.20	.48	.40	.61	.034	.007	3.4
24...	.060	--	.22	.96	.28	.58	.036	.009	4.1
24...	.010	--	.12	.89	.13	.62	.036	.008	7.4
24...	.020	--	.34	.83	.36	.69	.031	.009	3.1
24...	.010	--	.22	.76	.23	.72	.042	.007	5.2
28...	.010	--	.38	.54	.23	.79	.038	.012	5.5
28...	.080	--	.32	1.00	.40	.70	.034	.016	11
28...	.030	--	.59	.89	.62	.96	.047	.009	6.9

APPENDIX D-1

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

WATER QUALITY DATA. WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLORO- PHYLLI A PLANK- TON, CORR. (UG/LP) (32211)	PHEO- PHYTTN PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYLL A PLANK- TON, UNCORR. (UG/L) (32230)	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)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT								
07...	--	11.2	1.10	12.5	--	--	--	6
07...	--	33.6	2.20	36.9	--	--	--	6
07...	--	3.40	7.00	8.00	--	--	--	5
07...	--	37.8	1.50	40.8	--	--	--	5
26...	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--
DEC								
18...	--	--	--	--	19.2	4.00	22.6	11
18...	--	--	--	--	58.2	4.20	64.2	10
JAN								
17...	--	--	--	--	24.6	4.10	26.2	15
17...	--	--	--	--	24.0	3.80	25.5	4
17...	--	--	--	--	25.8	6.90	28.8	7
17...	--	--	--	--	24.0	4.40	25.8	3
FEB								
18...	--	--	--	--	29.6	4.40	31.3	10
18...	--	--	--	--	16.1	4.00	17.8	9
18...	--	--	--	--	31.7	6.20	34.3	6
18...	--	--	--	--	29.3	3.60	30.6	7
MAR								
17...	7.5	--	--	--	32.4	5.80	34.7	23
17...	1.5	--	--	--	15.6	3.60	17.1	1
17...	1.0	--	--	--	35.3	5.90	37.7	28
17...	1.0	--	--	--	--	--	--	1
APR								
03...	--	--	--	--	11.0	4.00	--	1
03...	--	--	--	--	38.0	5.00	39.8	2
03...	--	--	--	--	37.6	4.40	39.2	1
03...	--	--	--	--	15.4	1.80	16.1	1
10...	--	--	--	--	33.4	6.70	36.2	6
10...	--	--	--	--	20.2	2.50	21.1	6
10...	--	--	--	--	18.3	1.50	18.8	6
10...	--	--	--	--	29.0	4.80	31.0	6
24...	--	--	--	--	118	28.9	130	6
24...	--	--	--	--	75.0	10.0	78.8	4
24...	--	--	--	--	67.6	12.1	72.5	5
24...	--	--	--	--	70.0	5.00	71.4	5
28...	--	--	--	--	--	--	--	4
28...	--	--	--	--	--	--	--	6
28...	--	--	--	--	--	--	--	5

## APPENDIX D-1

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING DEPTH (FT)	LOC- ATION, CROSS SECTION (FT F.W.)	SILICA, DIS- SOLVED (MG/L)	VITRO- 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)
		(00003)	(00009)	(00055)	(00613)	(00631)	(00608)	(00607)	(00625)	
APR 28...	1250	3.0	10800	.4	.010	.43	.030	.58	.55	
MAY 09...	1550	3.0	500	1.0	.010	.42	.020	.30	1.00	
09...	1555	60	500	.6	.010	.13	.080	.42	1.10	
09...	1635	3.0	10800	1.9	.010	.52	.030	.28	.88	
09...	1640	29	10800	1.0	.010	.39	.080	.45	1.20	
12...	1310	33	10800	.6	.010	.20	.150	.17	1.00	
12...	1320	3.0	10800	.2	.010	.31	.020	.12	.66	
12...	1350	59	500	.6	.010	.07	.110	.06	.66	
12...	1400	3.0	500	.5	.010	.32	.030	.58	1.20	
22...	1430	3.0	500	.1	.010	.12	.060	.17	.47	
22...	1435	51	500	.7	.010	.02	.180	.25	.58	
22...	1500	23	10800	.1	.010	.13	.050	.15	.59	
22...	1510	3.0	10800	.2	.010	.11	.100	.41	1.20	
27...	1125	3.0	10800	2.4	.010	.15	.100	.16	.55	
27...	1135	24	10800	.6	.010	.08	.180	.04	.91	
27...	1220	3.0	500	1.6	.010	.13	.100	.46	.51	
27...	1230	47	500	1.1	.000	.02	.250	.19	.81	
JUN 10...	1315	3.0	4500	.8	.010	.03	.030	.07	.40	
10...	1320	66	4500	1.5	.030	.04	.310	.32	1.30	
10...	1355	44	10800	1.2	.000	.03	.250	.46	.99	
10...	1400	3.0	10800	.8	.010	.04	.060	.09	.69	
16...	1315	3.0	10800	1.1	.000	.01	.030	.27	.22	
16...	1320	26	10800	1.6	.000	.02	.170	.20	.38	
16...	1355	3.0	4500	1.1	.000	.01	.060	.22	.75	
16...	1400	72	4500	1.5	.000	.02	.430	.00	.40	
JUL 01...	0520	3.0	15900	2.3	.040	.13	.130	.17	.65	
01...	0525	17	15900	2.9	.000	.03	.060	.78	.71	
01...	0540	3.0	10800	2.7	.000	.01	.040	.29	.59	
01...	0545	25	10800	2.9	.010	.02	.030	.22	.54	
01...	0620	3.0	4500	2.5	.010	.02	.030	.24	.51	
01...	0625	43	4500	2.0	.010	.02	.250	.42	.73	
09...	1105	3.0	4500	2.7	.010	.04	.050	.58	.55	
09...	1110	55	4500	2.2	.010	.24	.150	.26	.74	
09...	1245	3.0	10800	2.9	.010	.04	.090	.50	.51	
09...	1250	26	10800	2.9	.000	.02	.100	.36	.59	
10...	1420	3.0	10800	2.8	.000	.02	.060	.38	.83	
10...	1430	26	10800	2.9	.000	.01	.110	.33	.62	

## APPENDIX D-1

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L) AS N)	NITRO- GEN DIS- SOLVED (MG/L) AS N)	PHOS- PHOS- TOTAL (MG/L) AS P)	PHOS- PHOS- SOLVED (MG/L) AS P)	CARBON, ORGANIC TOTAL (MG/L) AS C)	CHLORO- PHYLL A FLUORO- METHOD CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METHOD UNCORR. (UG/L)	CHLORO- PHYLL A FLUORO- METHOD UNCORR. (UG/L)	SEDI- MENT, SUS- PENDED (MG/L)
APR 28...	.61	1.0	.033	.019	6.3	---	---	---	4
MAY 09...	.32	.74	.052	.011	---	107	109	109	6
09...	.50	.63	.057	.011	---	75.4	79.5	79.5	5
09...	.31	.83	.051	.012	---	65.3	69.3	69.3	5
09...	.53	.92	.077	.012	---	187	202	202	7
12...	.32	.52	.050	.010	9.4	108	122	122	7
12...	.14	.45	.028	.009	5.2	101	108	108	8
12...	.17	.24	.023	.011	6.5	39.8	44.6	44.6	8
12...	.61	.93	.027	.009	13	65.3	70.1	70.1	5
22...	.23	.35	.042	.010	---	43.9	47.7	47.7	5
22...	.43	.45	.056	.009	---	98.0	105	105	6
22...	.20	.33	.033	.004	---	65.8	74.0	74.0	3
22...	.51	.62	.074	.015	---	104	116	116	4
27...	.26	.41	.073	.013	---	38.6	44.2	44.2	6
27...	.22	.30	.073	.038	---	10.9	13.7	13.7	4
27...	.56	.69	.040	.012	---	9.80	12.4	12.4	3
27...	.44	.46	.075	.039	---	61.0	64.0	64.0	10
JUN 10...	.10	.13	.063	.023	---	37.5	42.0	42.0	7
10...	.63	.67	.069	.029	---	13.8	16.5	16.5	6
10...	.71	.74	.073	.016	---	---	---	---	7
10...	.15	.19	.049	.039	---	---	---	---	8
16...	.30	.31	.006	.005	---	36.6	38.4	38.4	5
16...	.37	.39	.043	.015	---	17.9	20.6	20.6	12
16...	.28	.29	.062	.007	---	51.9	54.7	54.7	5
16...	.27	.29	.075	.060	---	7.20	11.3	11.3	7
JUL 01...	.30	.43	.076	.032	---	41.5	43.8	43.8	7
01...	.84	.87	.082	.017	---	32.0	33.2	33.2	9
01...	.33	.34	.054	.011	---	16.0	17.8	17.8	4
01...	.25	.27	.071	.017	---	27.5	28.8	28.8	6
01...	.27	.29	.055	.010	---	2.10	3.40	3.40	4
01...	.67	.69	.087	.078	---	11.0	14.7	14.7	5
09...	.63	.67	.047	.024	---	2.80	7.60	7.60	9
09...	.41	.65	.105	.043	---	10.0	19.0	19.0	17
09...	.59	.63	.049	.025	---	15.5	19.0	19.0	6
09...	.46	.48	.070	.030	---	4.60	9.10	9.10	19
10...	.44	.46	.081	.019	---	---	---	---	7
10...	.44	.45	.049	.025	---	---	---	---	9



## APPENDIX D-1

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LOC- TION, CROSS SECTION (FT Fw 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, AM- MONIA + ORGANIC TOTAL (MG/L AS N)
		(00003)	(00009)	(00955)	(00613)	(00631)	(00608)	(00625)
JUL								
10...	1450	26	10800	2.5	.000	.01	.130	.44
10...	1455	3.0	10800	2.7	.020	.11	.310	.53
22...	1250	3.0	10800	3.6	.010	.05	.080	.52
22...	1255	35	10800	3.5	.010	.02	.070	.44
22...	1320	3.0	4500	1.2	.000	.04	.260	.53
22...	1325	63	4500	1.4	.010	.13	.180	.48
25...	1220	3.0	4500	2.8	.010	.03	.140	.44
25...	1230	54	4500	2.7	.010	.09	.500	.54
25...	1310	35	10800	2.5	.010	.03	.540	.70
25...	1720	3.0	10800	3.1	.010	.03	.140	.47
31...	1640	3.0	10800	2.9	.010	.02	.050	.79
31...	1650	22	10800	3.0	.000	.01	.120	.56
31...	1700	3.0	4500	2.4	.010	.01	.030	.38
31...	1710	72	4500	2.4	.010	.01	.350	1.00
AUG								
0820	0820	29	10800	2.9	.000	.01	.350	.29
0830	0830	3.0	10800	3.1	.000	.01	.030	.20
0840	0840	57	4500	2.1	.010	.02	.370	.47
0850	0850	3.0	4500	3.0	.000	.01	.030	.06
14...	1500	41	10800	2.7	.000	.01	.370	.32
14...	1510	3.0	10800	3.3	.000	.01	.030	.33
14...	1550	55	4500	2.8	.000	.01	.370	.31
14...	1600	3.0	4500	2.8	.000	.00	.030	.22
18...	1325	3.0	10800	2.9	.000	.03	.060	.58
18...	1330	29	10800	2.6	.010	.03	.050	.33
18...	1350	58	4500	2.9	.020	.19	.450	.15
18...	1355	3.0	4500	2.8	.000	.05	.060	.25
29...	1030	3.0	4500	2.6	.000	.02	.020	.33
29...	1040	52	4500	3.0	.000	.00	.230	.00
29...	1210	29	10800	3.1	.020	.04	.050	.33
29...	1220	3.0	10800	3.4	.000	.01	.010	.14
SEP								
02...	1330	3.0	4500	3.0	.000	.02	.020	.17
02...	1340	38	4500	2.3	.090	.10	.060	.00
02...	1425	34	10800	2.7	.050	.11	.120	.00
02...	1435	3.0	10800	3.2	.000	.02	.030	.02
05...	1110	3.0	4500	3.2	.000	.01	.030	.00
05...	1120	45	4500	2.9	.020	.03	.020	.03
05...	1135	35	10800	3.1	.010	.02	.030	.27
05...	1145	3.0	10800	4.7	.160	.21	.040	.14

## APPENDIX D-1

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L) AS N	NITRO- GEN DIS- 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	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)	SEDI- MENT, SUS- PENDED (MG/L)
	(00623)	(00602)	(00665)	(00666)	(00680)	(32209)	(32213)	(32217)	(80154)
JUL									
10...	.31	.32	.064	.033	--	--	--	--	10
10...	1.3	1.4	.040	.011	--	--	--	--	7
22...	.54	.59	.011	.031	5.4	15.7	4.50	17.7	5
22...	.27	.29	.013	.040	4.4	.900	1.50	1.60	7
22...	.39	.43	.046	.025	5.7	11.1	3.50	12.6	6
22...	.45	.58	.012	.050	13	.600	1.40	1.30	4
25...	.36	.39	.041	.028	--	10.1	3.20	11.5	2
25...	1.3	1.4	.097	.083	--	2.90	3.10	4.40	3
25...	.59	.62	.056	.058	--	1.70	2.50	2.90	4
25...	.37	.40	.043	.016	--	53.2	--	52.2	1
31...	.22	.24	.074	.008	--	11.3	4.80	13.5	5
31...	.40	.41	.051	.011	--	17.5	3.60	19.0	8
31...	.22	.23	.014	.025	--	2.70	3.60	4.40	6
31...	.27	.28	.084	.049	--	--	--	--	5
AUG									
12...	.45	.46	.122	.106	--	1.40	2.40	2.50	6
12...	.19	.20	.066	.020	--	13.4	5.00	15.6	4
12...	.52	.54	.128	.114	--	1.70	2.60	3.00	7
12...	.09	.10	.061	.015	--	12.0	4.50	14.0	6
14...	.69	.70	.105	.083	--	1.10	3.00	2.60	12
14...	.36	.37	.071	.013	--	40.0	6.90	42.8	8
14...	.68	.69	.107	.065	--	4.30	14.3	11.2	32
14...	.25	.25	.053	.009	--	12.3	4.60	14.3	6
18...	.64	.67	.061	.004	--	39.7	7.70	42.8	2
18...	.38	.41	.038	.000	--	3.30	4.10	5.30	1
18...	.60	.79	.097	.066	--	1.10	1.40	1.80	2
18...	.31	.36	.050	.022	--	24.0	8.40	27.8	1
29...	.35	.37	.071	.027	--	7.20	4.80	9.40	28
29...	.18	.20	.096	.061	--	1.20	3.50	2.90	3
29...	.38	.42	.052	.047	--	5.70	5.40	8.30	8
29...	.15	.15	.063	.047	--	15.8	3.20	17.1	9
SEP									
02...	.19	.21	.048	.011	--	4.80	3.00	6.20	11
02...	.05	.15	.035	.009	--	.800	2.30	1.90	10
02...	.12	.23	.038	.025	--	.800	2.60	2.00	10
02...	.05	.07	.026	.013	--	10.5	3.30	11.9	30
05...	.01	.02	.054	.024	--	10.7	4.20	12.5	8
05...	.27	.30	.052	.034	--	2.80	3.20	4.20	10
05...	.30	.32	.128	.079	--	3.70	3.40	5.30	9
05...	.18	.39	.138	.104	--	22.5	2.10	23.2	5

## APPENDIX D-1

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LONG DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CROSS SECTION (FIT 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 DIS- SOLVED (MG/L) AS N	(00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	(00607)	NITRO- GEN,AMS MONIA ORGANIC TOTAL (MG/L) AS N	(00625)
SEP																	
09...	1125	35	10800			2.6	.000	.000	.02	.090	.28	.40					
09...	1135	3.0	10800			3.2	.000	.000	.01	.020	.42	.48					
09...	1145	3.0	4500			2.9	.000	.000	.01	.020	.33	.35					
09...	1155	50	4500			2.6	.000	.000	.01	.120	.30	.19					
11...	1145	3.0	10800			3.0	.000	.000	.01	.050	.08	.13					
11...	1155	28	10800			2.9	.010	.03	.070	.11	.11	.21					
11...	1215	58	4500			2.8	.000	.02	.160	.00	.00	.23					
11...	1225	3.0	4500			2.9	.010	.01	.040	.10	.10	.37					
15...	0850	3.0	4500			2.7	.010	.03	.080	.34	.49	.49					
15...	0900	72	4500			3.0	.010	.04	.260	.15	.68	.68					
15...	0920	3.0	10800			2.8	.010	.02	.050	.24	.90	.90					
15...	0930	37	10800			3.0	.020	.03	.090	.22	.35	.35					
18...	1030	3.0	4500			2.8	.000	.01	.040	.26	.55	.55					
18...	1035	57	4500			3.0	.000	.03	.220	.05	.45	.45					
18...	1105	3.0	10800			2.9	.010	.02	.060	.00	.56	.56					
18...	1110	29	10800			2.9	.010	.03	.060	.19	.37	.37					
25...	1334	66	4500			1.8	.100	.12	.090	.09	.46	.46					
25...	1342	3.0	4500			2.3	.010	.02	.010	.16	.35	.35					
25...	1400	36	10800			1.9	.080	.10	.050	.09	.21	.21					
25...	1405	3.0	10800			2.9	.000	.01	.050	.11	.43	.43					

APPENDIX D-1

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

WATER QUALITY DATA - WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L) AS N)	NITRO- GEN DIS- SOLVED (MG/L) AS N)	PHOS- PHOS- TOTAL (MG/L) AS P)	PHOS- PHOS- DIS- SOLVED (MG/L) AS P)	CARBON, ORGANIC TOTAL (MG/L) AS C)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	SEDIMENT, SUSPENDED (MG/L)
	(00623)	(00602)	(00665)	(00666)	(00680)	(32209)	(32213)	(32217)	(80154)
SEP									
09...	.37	.39	.065	.030	--	1.20	3.40	2.80	19
09...	.44	.45	.067	.019	--	15.2	4.00	16.9	19
09...	.35	.36	.031	.012	--	3.40	2.40	4.60	8
09...	.42	.43	.060	.038	--	1.00	1.60	1.80	7
11...	.13	.14	.045	.032	--	9.10	2.90	10.4	1
11...	.18	.21	.042	.036	--	1.90	2.70	3.20	16
11...	.09	.11	.056	.043	--	.800	2.10	1.80	1
11...	.14	.15	.041	.019	--	6.50	2.50	7.60	2
15...	.42	.45	.011	.000	--	11.0	2.60	12.1	7
15...	.41	.45	.044	.050	--	.900	1.60	1.70	3
15...	.29	.31	.024	.000	--	11.4	2.80	12.6	7
15...	.31	.34	.033	.011	--	2.40	2.90	3.70	14
18...	.30	.31	.029	.000	4.5	14.1	4.90	16.3	3
18...	.27	.30	.060	.049	2.9	1.20	1.50	1.90	5
18...	.04	.06	.027	.000	4.1	11.8	3.80	13.5	5
18...	.25	.28	.026	.000	3.8	4.40	5.70	7.20	2
25...	.18	.30	.061	.038	--	--	--	--	9
25...	.17	.19	.046	.031	--	20.0	3.90	21.6	5
25...	.14	.24	.043	.037	--	6.80	3.00	8.20	7
25...	.16	.17	.072	.036	--	28.9	8.00	32.4	10

3380212076195000 - POTOMAC RIVER AT POINT LOOKOUT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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APPENDIX D-1  
 380212076195000 - POTOMAC RIVER AT POINT LOOKOUT --- Cont.  
 WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	VITRO- GEN.AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	VITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	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)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L) (32209)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT										
26...	.52	.49	.68	.022	.011	---	---	---	---	---
DEC										
18...	.52	.30	.60	.025	.009	4.8	14.8	4.80	18.4	6
18...	.60	.42	.75	.034	.008	8.6	27.6	4.90	32.1	10
JAN										
17...	.61	.13	.28	.021	.006	10	28.2	3.90	29.7	12
17...	.62	.35	.59	.020	.007	9.4	28.2	5.20	30.3	3
17...	.78	.61	.81	.017	.008	7.9	24.6	6.00	27.2	4
17...	.71	.61	.82	.018	.011	6.0	23.1	2.20	23.8	6
FEB										
18...	.56	.42	.62	.035	.012	4.3	31.6	5.90	34.0	17
18...	.79	.54	.73	.024	.015	14	31.2	5.50	33.4	9
18...	.11	.08	.25	.003	.007	4.0	30.5	8.50	34.2	9
18...	.54	.34	.41	.004	.010	2.7	32.4	4.70	34.2	6
MAR										
17...	.67	.20	.37	.026	.007	4.3	21.5	4.20	23.2	---
17...	.45	.65	1.1	.016	.017	4.1	30.5	-1.30	29.4	---
17...	.19	.20	.38	.020	.005	5.3	22.7	1.40	23.0	2
17...	.42	.29	.50	.014	.005	6.7	16.1	1.90	16.8	1
APR										
24...	.43	.25	.62	.024	.007	3.4	31.8	6.50	34.5	5
24...	1.00	.24	.55	.046	.005	3.8	96.9	6.90	89.0	5
24...	.39	.23	.55	.021	.005	7.9	54.8	3.80	55.9	5
24...	.76	.24	.66	.026	.007	3.2	39.6	2.40	40.2	4
MAY										
22...	1.20	.42	.62	.025	.006	---	28.8	3.40	30.0	7
22...	.40	.19	.37	.026	.005	---	23.5	3.60	24.9	2
22...	.45	.41	.59	.028	.005	3.0	30.0	4.80	31.9	2
22...	.66	.31	.41	.057	.006	14	98.6	10.7	102	6
JUN										
16...	.57	.22	.23	.034	.005	---	11.7	4.00	13.4	2
16...	.39	.33	.36	.039	.008	---	18.6	3.80	20.2	6
16...	.36	.40	.42	.059	.032	---	5.80	3.90	7.60	6
JUL										
22...	.52	.29	.35	.011	.034	5.2	11.0	3.20	12.3	3
22...	.34	.12	.17	.002	.047	6.1	4.60	1.80	5.40	3
22...	.46	.14	.17	.009	.031	4.5	17.0	4.10	18.8	3
22...	.36	.42	.47	.038	.052	8.1	---	---	---	2
AUG										
18...	.32	.34	.36	.037	.006	---	14.1	5.60	16.7	1

APPENDIX D-1

380212076195000 - POTOMAC RIVER AT POINT LOOKOUT -- Cont.  
WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	SAMP- SECTION (FT)	SAMP- LDC- SECTION (FT)	SILICA, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L)	NITRO- GEN, NO2-N 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)
		(00003)	(00009)	(00009)	(00955)	(00613)	(00631)	(00608)	(00607)	(00625)
AUG										
18...	1050	23	24300		2.1	.010	.03	.050	.40	.42
18...	1125	3.0	4500		2.1	.000	.02	.000	.29	.17
18...	1130	45	4500		1.7	.010	.02	.100	.24	.14
SEP										
18...	1200	3.0	4500		.7	.010	.03	.060	.00	.40
18...	1205	41	4500		1.4	.040	.06	.080	.35	.35
18...	1210	3.0	24300		1.4	.040	.06	.060	.12	.50
18...	1215	22	24300		1.5	.040	.05	.050	.25	.37

APPENDIX D-1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L) AS N (00623)	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)	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)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
AUG									
18...	.45	.48	.031	.011	--	4.40	3.80	6.10	1
18...	.29	.31	.039	.006	--	17.8	3.40	19.2	1
18...	.34	.36	.037	.017	--	1.30	2.00	2.30	24
SEP									
18...	.01	.04	.029	.000	4.0	20.2	4.60	22.2	7
18...	.43	.49	.014	.000	3.4	9.90	3.40	11.4	20
18...	.18	.24	.018	.000	3.5	21.5	2.70	22.5	3
18...	.30	.35	.016	.000	3.3	18.1	3.70	19.6	7



## APPENDIX D-1

380200076153000 -- CHESAPEAKEBAY NR POTOMAC RIVER OFF PT LOOKOUT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SILICA, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE TOTAL (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 TOTAL (MG/L)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L)
		(00003)	(00955)	(00615)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)
JAN										
17...	1705	43	1.3	.000	.010	.12	.090	.010	.52	.33
17...	1710	3.0	1.8	.000	.010	.19	.110	.080	.13	.19
FEB										
18...	0830	38	1.6	.020	.010	.15	.060	.050	.29	.27
18...	0835	3.0	1.8	.020	.020	.19	.030	.030	.74	.59
MAR										
17...	0735	39	1.2	--	.010	.21	--	.070	--	.45
17...	0740	3.0	1.6	--	.010	.18	--	.010	--	.34
APR										
25...	0645	37	.3	--	.010	.18	--	.030	--	.63
25...	0850	3.0	.0	--	.010	.40	--	.010	--	.29
MAY										
22...	1215	3.0	.0	--	.010	.18	--	.050	--	.32
22...	1220	39	.1	--	.010	.17	--	.130	--	.00
JUN										
16...	0845	3.0	.0	--	.010	.02	--	.040	--	.26
16...	0850	37	.6	--	.010	.03	--	.270	--	.14
JUL										
22...	1645	3.0	1.6	--	.020	.04	--	.070	--	.23
22...	1650	37	3.8	--	.000	.02	--	.320	--	.28
AUG										
18...	0845	3.0	1.5	--	.000	.02	--	.060	--	.35
18...	0850	36	1.7	--	.010	.04	--	.110	--	.11
SEP										
18...	1340	3.0	.5	--	.000	.02	--	.030	--	.04
18...	1345	33	1.6	--	.050	.07	--	.090	--	.07

APPENDIX D-1

390200076153000 - CHESAPEAKEBAY NR POTOMAC RIVER OFF PT LOOKOUT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00525)	NITRO- GEN+AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00523)	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)	CHLORO- PHYLL A FLURO- METRIC CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLURO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	SEDI- MENT, SUS- PENDE- (MG/L) (80154)
JAN									
17...	.61	.34	.029	.008	6.5	37.8	6.10	40.2	10
17...	.24	.27	.021	.011	7.0	28.5	4.90	30.4	2
FEB									
18...	.35	.32	.028	.017	4.7	33.3	4.80	35.1	9
18...	.77	.62	.031	.014	7.3	31.8	3.70	33.2	6
MAR									
17...	.52	.52	.017	.017	3.7	26.2	4.10	27.8	1
17...	.39	.35	.013	.007	3.9	19.3	1.60	19.8	1
APR									
25...	.60	.66	.033	.009	3.9	98.6	12.9	103	4
25...	.40	.30	.019	.006	7.0	23.1	2.50	23.9	4
MAY									
22...	.30	.37	.018	.003	--	28.4	5.60	30.8	3
22...	.77	.11	.097	.004	--	35.7	4.70	37.5	6
JUN									
16...	.45	.30	.035	.012	--	10.9	2.30	11.9	4
16...	.43	.41	.033	.014	--	3.10	2.50	4.20	4
JUL									
22...	.18	.30	.009	--	4.1	12.9	3.90	14.6	7
22...	.58	.60	.054	.069	4.1	3.20	1.80	4.00	7
AUG									
18...	.35	.41	.028	.007	--	4.80	3.30	6.40	1
18...	.47	.22	.040	.012	--	3.50	2.90	4.90	4
SEP									
18...	.41	.07	.005	.000	4.0	25.2	1.40	25.5	16
18...	.66	.16	.016	.000	3.5	10.6	2.80	11.8	16

APPENDIX D-1

380200076124100 - CHESAPEAKE BAY NR POTOMAC R / PT LOOKOUT TRENCH

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LONG DEPTH (FT)	SILICA,		NITRO- GEN,		NITRO- GEN,		NITRO- GEN,		NITRO- GEN,		NITRO- GEN,		NITRO- GEN,	
			DIS- SOLVED (MG/L)	AS SI02)	NITRITE DIS- SOLVED (MG/L)	NO2-N03 DIS- SOLVED (MG/L)	AMMONIA DIS- SOLVED (MG/L)	AMMONIA DIS- SOLVED (MG/L)	AMMONIA DIS- SOLVED (MG/L)	AMMONIA DIS- SOLVED (MG/L)	AMMONIA DIS- SOLVED (MG/L)	AMMONIA DIS- SOLVED (MG/L)	AMMONIA DIS- SOLVED (MG/L)	AMMONIA DIS- SOLVED (MG/L)	AMMONIA DIS- SOLVED (MG/L)	AMMONIA DIS- SOLVED (MG/L)
SEP 18...	1410	3.0	1.1		.000	.02	.040	.19	.17	.23						
18...	1415	67	2.1		.070	.10	.230	.00	.25	.19						

DATE	TIME	SAMP- LONG DEPTH (FT)	PHOS- PHORUS,		PHOS- PHORUS,		PHOS- PHORUS,		PHOS- PHORUS,		PHOS- PHORUS,		PHOS- PHORUS,		PHOS- PHORUS,	
			DIS- SOLVED (MG/L)	AS P)	DIS- SOLVED (MG/L)	AS P)	DIS- SOLVED (MG/L)	AS P)	DIS- SOLVED (MG/L)	AS P)	DIS- SOLVED (MG/L)	AS P)	DIS- SOLVED (MG/L)	AS P)	DIS- SOLVED (MG/L)	AS P)
SEP 18...	1410	3.0	.008	.000	.008	.000	.008	.000	.008	.000	.008	.000	.008	.000	.008	.000
18...	1415	67	.128	.025	.128	.025	.128	.025	.128	.025	.128	.025	.128	.025	.128	.025

DATE	TIME	SAMP- LONG DEPTH (FT)	CHLORO- PHYLL A		CHLORO- PHYLL A		CHLORO- PHYLL A		CHLORO- PHYLL A		CHLORO- PHYLL A		CHLORO- PHYLL A		CHLORO- PHYLL A	
			FLUORO- METRIC (UG/L)	AS N)	FLUORO- METRIC (UG/L)	AS N)	FLUORO- METRIC (UG/L)	AS N)	FLUORO- METRIC (UG/L)	AS N)	FLUORO- METRIC (UG/L)	AS N)	FLUORO- METRIC (UG/L)	AS N)	FLUORO- METRIC (UG/L)	AS N)
SEP 18...	1410	3.0	.25	.000	.25	.000	.25	.000	.25	.000	.25	.000	.25	.000	.25	.000
18...	1415	67	.29	.025	.29	.025	.29	.025	.29	.025	.29	.025	.29	.025	.29	.025

APPENDIX D-1

375248076094200 - CHESAPEAKE BAY NR POTOMAC RIVER OFF SMITH POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SILICA, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L)	NITRO- GEN, AMMONIA TOTAL (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L)	NITRO- GEN, ORGANIC TOTAL (MG/L)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L)
		(00003)	(00955)	(00615)	(00613)	(00631)	(00610)	(00608)	(00605)	(00607)
DEC										
18...	0915	79	1.4	.040	.030	.10	.070	.060	.29	.30
18...	0920	3.0	2.4	.030	.030	.25	.000	.030	.68	.53
JAN										
17...	1605	62	.8	.000	.020	.10	.090	.020	.39	.09
17...	1610	3.0	2.0	.000	.010	.17	.080	.010	.60	.31
FEB										
18...	0950	114	1.7	.050	.030	.18	.080	.070	.35	.18
18...	0955	3.0	1.7	.030	.010	.16	.060	.020	.53	.54
MAR										
17...	0835	101	.8	--	.010	.16	--	.140	--	.00
17...	0840	3.0	1.2	--	.010	.18	--	.010	--	.21
APR										
25...	0845	118	.6	--	.000	.02	--	.030	--	.19
25...	0850	3.0	.4	--	.010	.30	--	.010	--	.21
MAY										
22...	0930	3.0	.0	--	.010	.17	--	.050	--	.22
22...	0935	100	.5	--	.010	.08	--	.180	--	.22
JUN										
16...	0930	3.0	.0	--	.000	.01	--	.040	--	.10
16...	0935	90	.8	--	.010	.02	--	.120	--	.18
AUG										
18...	0940	3.0	1.0	--	.000	.01	--	.040	--	.23
18...	0945	107	2.7	--	.020	.04	--	.330	--	.04
SEP										
18...	1300	3.0	.7	--	.010	.03	--	.050	--	.10
18...	1305	.115	1.8	--	.010	.03	--	.250	--	.00

APPENDIX D-1

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

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	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)	CHLORO- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L) (32209)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)	SEDI- MENT, SUS- PENDED, (MG/L) (80154)
DEC										
18...	.36	.35	.46	.083	.011	5.3	9.00	14.8	17.7	44
18...	.68	.55	.81	.028	.009	4.5	27.4	10.0	34.6	5
JAN										
17...	.48	.11	.21	.030	.016	10	--	--	--	--
17...	.69	.32	.49	.018	.007	3.1	--	--	--	--
FEB										
18...	.43	.25	.43	.024	.010	1.9	31.6	7.50	34.8	16
18...	.59	.55	.72	.024	.015	7.4	28.8	3.70	30.2	7
MAR										
17...	.34	.13	.29	.039	.012	4.6	30.0	4.70	31.8	23
17...	.43	.22	.40	.015	.005	7.0	20.9	2.80	22.0	1
APR										
25...	.65	.22	.24	.037	.009	4.5	62.5	13.0	67.9	10
25...	.63	.22	.52	.019	.011	5.0	27.6	2.80	28.5	4
MAY										
22...	.19	.27	.44	.024	.004	--	24.9	2.60	25.8	3
22...	.47	.40	.48	.034	.008	--	10.8	16.0	18.4	3
JUN										
16...	.34	.14	.15	.034	.007	--	13.8	2.40	14.8	5
16...	.42	.30	.32	.028	.012	--	4.80	3.40	6.40	4
AUG										
18...	.32	.27	.28	.034	.006	--	10.7	3.90	12.4	2
18...	.39	.37	.41	.066	.067	--	.900	1.00	1.40	2
SEP										
18...	.36	.15	.18	.009	.000	5.5	9.30	2.50	10.4	6
18...	.42	.23	.26	.144	.023	2.5	1.60	1.90	2.50	7

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

## APPENDIX D-2

## 385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- 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)	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)
JUL											
04...	1855	15	475	282	7.3	26.7	28.0	6.4	19.2	19.3	28.3
04...	1856	10	475	278	7.4	27.0	--	6.8	20.1	18.2	28.7
04...	1857	3.0	475	273	7.9	27.8	--	8.2	28.5	15.1	35.4
04...	1858	--	50000	--	--	--	--	--	25.0	16.7	32.7
04...	1905	7.0	1175	277	7.6	27.5	--	7.3	26.0	16.2	33.6
04...	1906	3.0	1175	275	8.0	28.1	--	8.4	32.0	14.9	38.8
09...	1700	15	475	298	6.9	26.1	28.0	5.5	17.9	20.7	27.7
09...	1701	10	475	300	7.0	26.1	--	6.5	19.9	18.6	28.6
09...	1702	3.0	475	299	7.3	26.5	--	7.5	19.1	15.0	26.1
09...	1710	7.0	1175	303	7.2	26.3	24.0	6.9	19.2	19.0	28.1
09...	1711	3.0	1175	302	7.4	27.3	--	8.1	20.8	13.1	26.8
09...	1712	--	50000	--	--	--	--	--	19.0	18.1	27.6
16...	1630	17	475	334	7.3	28.8	29.0	6.5	29.4	20.0	38.7
16...	1631	10	475	337	7.5	28.7	--	6.9	32.8	18.8	41.5
16...	1632	5.0	475	334	8.1	29.6	--	9.7	52.5	14.4	58.8
16...	1633	1.0	475	333	8.4	30.5	--	11.3	65.6	21.3	75.0
16...	1640	4.0	1175	331	7.8	29.1	27.0	9.7	56.7	13.7	62.5
16...	1641	1.0	1175	333	8.3	30.2	--	10.7	68.6	10.9	72.8
16...	1642	--	50000	--	--	--	--	--	46.1	17.9	54.1
23...	0820	17	475	261	6.5	29.7	25.0	2.6	8.30	12.8	14.4
23...	0821	13	475	269	6.6	29.4	--	3.9	9.30	13.6	15.8
23...	0823	10	475	272	6.7	29.5	--	4.1	8.50	13.6	15.0
23...	0824	1.0	475	272	6.7	29.5	--	4.2	7.50	12.5	13.5
23...	0835	--	50000	--	--	--	--	--	8.40	12.8	14.5
23...	0836	4.0	1175	271	6.8	29.4	26.0	4.7	10.0	16.2	17.7
23...	0837	1.0	1175	275	6.8	29.5	--	4.9	9.20	13.4	15.6
23...	0930	--	50000	--	--	--	--	--	8.90	13.2	15.2
30...	0950	17	475	313	7.4	27.8	24.0	6.9	17.5	20.6	27.2
30...	0951	10	475	312	7.5	28.0	--	7.2	22.5	20.2	32.0
30...	0952	1.0	475	312	7.7	28.1	--	7.3	24.8	18.9	33.6
30...	0955	16	1175	316	7.3	27.6	24.0	6.3	19.4	23.8	30.7
30...	0956	11	1175	315	7.4	27.8	--	6.9	20.7	21.1	30.6
30...	0957	1.0	1175	310	7.6	28.0	--	7.2	21.4	19.8	30.7
30...	1000	--	50000	--	--	--	--	--	22.2	18.8	31.0
30...	1915	--	50000	--	--	--	--	--	28.3	17.2	36.2
30...	1920	17	475	315	7.2	28.0	30.0	7.4	--	--	--
30...	1921	10	475	313	7.3	28.1	--	7.5	--	--	--
30...	1922	1.0	475	313	8.0	28.7	--	8.4	--	--	--
30...	1925	14	1175	313	7.4	28.4	30.0	7.7	--	--	--

APPENDIX D-2

385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE --- Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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- PHYLL A FLUORO- METRIC CORR. (U6/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (U6/L)	CHLORO- PHYLL A FLUORO- METRIC UNCORR. (U6/L)
JUL	1926	11	1175	315	7.5	28.4	---	7.7	---	---	---
30...	1927	1.0	1175	313	8.1	28.5	---	7.7	---	---	---
AUG	0810	---	50000	---	---	---	---	---	13.6	13.1	19.7
04...	0811	17	475	338	7.5	28.1	28.0	7.2	---	---	---
04...	0812	10	475	339	7.5	28.1	---	7.2	---	---	---
04...	0813	1.0	475	339	7.6	28.2	---	7.3	---	---	---
04...	0825	14	1175	339	7.5	28.0	29.0	7.1	---	---	---
04...	0826	8.0	1175	339	7.6	28.3	---	7.2	---	---	---
04...	0827	1.0	1175	341	7.7	28.4	---	7.4	---	---	---
04...	1800	---	50000	---	---	---	---	---	19.0	11.9	24.5
04...	1810	12	1175	339	7.3	28.7	22.0	6.1	---	---	---
04...	1811	7.0	1175	339	7.6	29.0	---	7.3	---	---	---
04...	1812	3.0	1175	337	7.6	29.2	---	7.3	---	---	---
04...	1830	14	475	336	7.3	28.4	19.0	5.7	---	---	---
04...	1831	10	475	338	7.3	28.5	---	6.1	---	---	---
04...	1832	3.0	475	337	7.4	28.6	---	6.3	---	---	---
05...	0725	17	475	345	7.1	28.4	26.0	6.6	---	---	---
05...	0726	10	475	347	7.4	28.9	---	7.2	---	---	---
05...	0727	1.0	475	346	7.5	29.0	---	7.3	---	---	---
05...	0730	---	50000	---	---	---	---	---	11.4	10.6	16.4
05...	0735	16	1175	348	7.3	28.7	24.0	6.9	---	---	---
05...	0736	11	1175	347	7.4	28.9	---	7.2	---	---	---
05...	1850	15	1175	344	7.4	28.7	24.0	7.3	---	---	---
05...	1851	11	1175	342	7.4	29.1	---	7.2	---	---	---
05...	1852	1.0	1175	337	7.7	29.1	---	7.3	---	---	---
05...	1855	17	475	349	7.1	28.6	34.0	7.0	---	---	---
05...	1856	10	475	348	7.3	28.7	---	6.7	---	---	---
05...	1857	1.0	475	337	7.9	29.7	---	7.8	---	---	---
05...	1900	---	50000	---	---	---	---	---	15.0	11.1	20.2
06...	0725	16	475	333	7.2	28.4	36.0	6.6	7.50	11.4	12.9
06...	0726	10	475	330	7.3	28.7	---	6.9	9.60	8.00	13.4
06...	0727	1.0	475	329	7.3	28.8	---	6.9	9.50	8.80	13.6
06...	0730	---	50000	---	---	---	---	---	9.50	9.70	14.1
06...	0735	17	1175	334	7.2	28.7	23.0	6.7	9.50	13.4	15.9
06...	0736	11	1175	331	7.3	28.8	---	6.9	8.70	7.80	12.4
06...	0737	1.0	1175	328	7.4	28.9	---	7.1	12.3	8.80	16.4
06...	1730	17	475	337	7.1	29.3	35.0	6.8	13.2	13.2	18.2
06...	1731	10	475	324	7.3	29.4	---	7.2	16.8	8.90	20.9
06...	1732	1.0	475	315	7.6	29.8	---	7.8	19.3	6.70	22.3



## APPENDIX D-2

## 385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE --- Cont.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING DEPTH (FT)	SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCTANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	CHLORO- PHYLL 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...	1733	.1	475	--	--	--	--	--	--	17.7	8.20	21.4
06...	1740	--	50000	--	--	--	--	--	--	18.5	8.50	22.3
06...	1741	16	1175	334	7.2	29.1	36.0	6.8	6.8	11.1	15.3	18.4
06...	1742	11	1175	313	7.5	29.5	--	7.3	7.3	20.7	4.80	22.7
06...	1743	1.0	1175	303	7.8	30.0	--	7.8	7.8	15.4	6.60	18.4
06...	1744	.1	1175	--	--	--	--	--	--	18.8	5.00	21.0
07...	0820	14	1175	314	7.1	29.1	33.0	7.0	7.0	--	--	--
07...	0821	9.0	1175	315	7.1	29.1	--	7.0	7.0	--	--	--
07...	0822	1.0	1175	318	7.1	29.2	--	7.0	7.0	--	--	--
07...	0830	--	50000	--	--	--	--	--	--	7.90	9.80	12.6
07...	0831	17	475	314	7.0	29.0	33.0	6.8	6.8	--	--	--
07...	0832	10	475	314	7.0	29.2	--	6.8	6.8	--	--	--
07...	0833	1.0	475	313	7.0	29.2	--	6.9	6.9	--	--	--
07...	1730	21	475	322	6.9	29.6	36.0	6.3	6.3	--	--	--
07...	1731	10	475	315	7.1	29.7	--	7.0	7.0	--	--	--
07...	1732	1.0	475	309	7.5	29.8	--	7.0	7.0	--	--	--
07...	1740	17	1175	313	7.1	29.6	34.0	6.8	6.8	--	--	--
07...	1741	11	1175	311	7.1	29.5	--	6.9	6.9	--	--	--
07...	1742	1.0	1175	310	7.2	29.9	--	7.2	7.2	--	--	--
07...	1745	--	50000	--	--	--	--	--	--	14.6	6.80	17.7
08...	0700	18	475	309	7.3	29.1	36.0	5.8	5.8	--	--	--
08...	0701	10	475	309	7.4	29.4	--	6.0	6.0	--	--	--
08...	0702	1.0	475	308	7.4	29.3	--	6.2	6.2	--	--	--
08...	0710	--	50000	--	--	--	--	--	--	7.10	7.70	10.7
08...	0711	17	1175	309	7.3	29.4	37.0	5.7	5.7	--	--	--
08...	0712	9.0	1175	308	7.4	29.5	--	6.0	6.0	--	--	--
08...	0713	1.0	1175	308	7.4	29.5	--	6.0	6.0	--	--	--
08...	1745	19	1175	313	7.4	29.9	29.0	5.5	5.5	--	--	--
08...	1746	15	1175	313	7.5	30.1	--	6.7	6.7	--	--	--
08...	1747	11	1175	313	7.6	30.3	--	7.7	7.7	--	--	--
08...	1748	7.0	1175	316	7.7	30.3	--	7.7	7.7	--	--	--
08...	1749	1.0	1175	317	8.1	30.9	--	9.6	9.6	--	--	--
08...	1750	--	50000	--	--	--	--	--	--	12.8	10.1	17.6
08...	1751	23	475	316	7.3	29.7	38.0	4.9	4.9	--	--	--
08...	1752	15	475	315	7.4	29.9	--	6.0	6.0	--	--	--
08...	1753	10	475	314	7.5	30.0	--	6.6	6.6	--	--	--
08...	1754	5.0	475	318	7.9	31.3	--	8.9	8.9	--	--	--
08...	1755	1.0	475	320	8.1	31.6	--	9.7	9.7	--	--	--
11...	1840	18	475	323	6.8	30.1	33.0	5.7	5.7	--	--	--

APPENDIX D-2

385315077031800 -- POTOMAC RIVER AT MEMORIAL BRIDGE --- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 METHOD UNCORR. (UG/L) (32217)
AUG	1841	10	475	321	7.6	30.9	--	6.7	--	--	--
11...	1845	--	475	--	--	--	--	--	19.1	6.90	21.2
11...	1846	1.0	475	325	8.2	31.3	--	7.3	--	--	--
13...	0815	18	475	309	7.5	29.3	30.0	5.1	6.00	5.90	8.80
13...	0816	10	475	310	7.5	29.4	--	5.3	6.20	6.80	9.40
13...	0817	3.0	475	310	7.5	29.4	--	5.3	6.80	7.10	10.1
13...	0818	1.0	475	310	7.5	29.4	--	5.4	6.80	6.90	10.1
13...	0830	18	1175	311	7.6	29.2	27.0	5.7	7.40	6.60	10.4
13...	0831	11	1175	311	7.6	29.3	--	5.6	7.50	6.10	10.4
13...	0832	3.0	1175	311	7.6	29.4	--	5.6	7.20	6.50	10.3
13...	0833	1.0	1175	311	7.6	29.4	--	5.6	7.70	7.10	11.1
13...	0834	--	50000	--	--	--	--	--	6.70	6.50	9.80
13...	1820	16	475	315	7.2	29.5	40.0	4.6	6.30	9.40	10.8
13...	1821	10	475	312	7.3	29.6	--	4.9	5.60	5.90	8.40
13...	1822	7.0	475	312	7.3	29.7	--	5.3	5.60	5.50	8.20
13...	1823	3.0	475	312	7.4	29.8	--	5.6	7.00	5.00	9.40
13...	1824	1.0	475	312	7.4	29.8	--	5.8	7.70	4.70	9.80
13...	1830	13	1175	313	7.4	29.8	36.0	5.7	7.20	5.80	9.90
13...	1831	11	1175	313	7.4	29.8	--	5.6	6.80	5.60	9.50
13...	1832	6.0	1175	312	7.5	30.3	--	6.3	9.90	4.90	12.2
13...	1833	3.0	1175	312	7.6	30.0	--	6.6	12.3	5.30	14.7
13...	1834	1.0	1175	312	7.6	30.0	--	6.7	13.8	5.60	16.2
13...	1840	--	50000	--	--	--	--	--	9.00	6.00	10.8
20...	0835	15	475	340	7.6	25.4	24.0	6.8	3.20	7.10	6.60
20...	0836	10	475	340	7.7	25.2	--	6.8	3.40	6.30	6.40
20...	0837	4.0	475	340	7.7	25.2	--	6.8	2.60	5.90	5.40
20...	0838	1.0	475	340	7.7	25.3	--	6.8	3.20	5.80	6.00
20...	0845	--	50000	--	--	--	--	--	4.60	7.70	7.70
20...	0846	15	1175	335	7.6	25.3	25.0	6.6	7.50	8.40	11.5
20...	0847	11	1175	339	7.7	25.2	--	6.7	4.80	6.50	7.90
20...	0848	4.0	1175	340	7.7	25.2	--	6.8	3.60	6.10	6.60
20...	0849	1.0	1175	341	7.7	25.3	--	6.9	3.60	5.50	6.20
20...	1910	18	475	342	7.4	25.2	36.0	6.5	4.80	7.30	8.30
20...	1911	15	475	342	7.4	25.2	--	6.6	4.80	6.50	7.80
20...	1912	10	475	342	7.4	25.3	--	6.7	4.80	6.00	7.60
20...	1913	6.0	475	343	7.4	25.3	--	6.8	5.10	5.70	7.80
20...	1914	1.0	475	345	7.5	25.3	--	6.9	4.70	4.90	7.00
20...	1920	--	50000	--	--	--	--	--	5.60	5.90	8.40
20...	1921	18	1175	348	7.4	25.3	--	6.9	5.20	5.20	7.70

## 385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE -- Cont.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING 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 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											
20...	1922	11	1175	348	7.5	25.3	34.0	7.0	5.00	5.50	7.70
20...	1923	7.0	1175	346	7.5	25.8	--	7.1	5.50	5.50	8.00
20...	1924	6.0	1175	348	7.5	25.3	--	7.2	6.00	5.00	8.40
20...	1925	5.0	1175	349	7.5	25.4	--	7.4	6.50	4.70	8.70
20...	1926	1.0	1175	348	7.5	25.4	--	7.4	7.70	4.70	9.80
SEP											
03...	1935	15	475	286	7.4	28.5	42.0	5.7	9.80	6.40	12.7
03...	1936	10	475	284	7.7	28.7	--	6.7	12.3	4.40	14.2
03...	1937	1.0	475	284	7.8	28.9	--	7.0	13.0	3.80	14.7
03...	1938	--	475	--	--	--	--	--	11.8	3.40	13.3
03...	1950	15	1175	284	7.7	28.9	--	6.9	13.8	5.90	16.5
03...	1951	11	1175	285	7.8	29.1	--	7.3	12.8	4.20	14.6
03...	1952	1.0	1175	284	8.1	29.2	--	8.0	27.0	7.00	30.0
03...	1953	--	1175	--	--	--	--	--	19.4	5.80	22.0
03...	2000	--	50000	--	--	--	--	--	16.0	5.80	18.6
15...	1335	17	475	362	7.8	25.4	36.0	7.8	--	--	--
15...	1336	10	475	362	8.0	25.5	--	8.4	--	--	--
15...	1337	1.0	475	365	8.2	25.7	--	9.3	--	--	--
15...	1338	--	475	--	--	--	--	--	27.0	7.00	30.0
15...	1340	17	1175	361	7.9	25.5	36.0	8.1	18.3	9.70	22.8
15...	1341	11	1175	364	8.0	25.6	--	8.6	23.6	6.80	26.5
15...	1342	1.0	1175	367	8.1	25.9	--	9.1	43.4	8.80	47.1
15...	1345	--	50000	--	--	--	--	--	24.8	9.80	29.2

APPENDIX D-2

385223077022400 - POTOMAC RIVER AT 14TH STREET BR WASH DC

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
JUN											
17...	1930	3.0	1580	265	7.8	23.8	24.0	8.6	20.6	11.2	25.7
17...	1931	6.0	1580	255	7.7	23.7	--	8.4	20.7	11.3	25.9
17...	1940	3.0	1000	264	7.7	23.6	23.0	8.6	23.5	11.6	28.8
17...	1941	10	1000	264	7.6	23.6	--	8.4	24.0	11.8	29.4
17...	1942	14	1000	264	7.6	23.5	--	8.4	24.4	10.0	28.9
17...	1943	--	50000	--	--	--	--	--	22.0	9.30	26.2
27...	1620	7.0	1000	270	8.0	26.2	30.0	7.7	25.4	21.2	35.3
27...	1621	3.0	1000	268	8.2	26.6	--	8.8	34.5	15.4	41.5
27...	1635	16	1580	276	7.3	25.5	36.0	6.1	18.6	19.4	27.8
27...	1636	10	1580	268	7.8	25.7	--	7.1	20.2	17.5	28.4
27...	1637	3.0	1580	267	8.2	26.4	--	8.4	27.1	13.6	33.3
27...	1638	--	50000	--	--	--	--	--	20.2	15.7	27.6

## 385039077012600 - POTOMAC RIVER AT GEISBORO POINT

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
OCT							
06...	0740	--	450	--	--	--	--
06...	0741	30	450	182	--	16.5	8.0
06...	0742	15	450	182	--	16.5	--
06...	0743	3.0	450	182	--	16.5	--
06...	0744	1.0	450	182	--	16.5	--
NOV							
14...	0744	--	450	--	--	--	--
JUN							
17...	1900	2.0	375	261	7.7	24.8	24.0
17...	1901	4.0	375	266	7.9	24.6	--
17...	1902	13	375	268	7.9	24.3	--
17...	1903	26	375	265	7.5	23.7	--
17...	1910	--	50000	--	--	--	--
17...	1910	--	50000	--	--	--	--
27...	1525	--	375	283	7.5	25.7	27.0
27...	1526	26	375	287	8.0	26.4	--
27...	1527	13	375	286	8.1	26.5	--
27...	1528	3.0	375	289	8.1	27.0	24.0
27...	1530	5.0	2700	288	8.2	28.6	--
27...	1531	1.0	2700	289	--	--	--
JUL							
04...	1730	26	375	294	7.1	26.8	24.0
04...	1732	13	375	293	7.1	26.9	--
04...	1735	3.0	375	287	7.8	27.6	--
04...	1745	--	50000	--	--	--	--
04...	1750	5.0	2700	290	7.9	27.6	24.0
04...	1752	1.0	2700	289	8.1	27.7	--
09...	1540	26	375	298	6.6	26.7	24.0
09...	1541	13	375	302	6.8	26.9	--
09...	1542	3.0	375	307	6.9	27.8	--
09...	1600	--	50000	--	--	--	--
09...	1610	5.0	2700	306	6.9	28.0	18.0
09...	1611	1.0	2700	308	7.0	28.0	--
16...	1600	35	375	344	7.3	29.0	--
16...	1601	13	375	350	7.5	28.6	--
16...	1602	1.0	375	330	8.1	29.3	--
16...	1610	4.0	2700	322	7.8	29.3	--
16...	1611	1.0	2700	320	8.1	29.5	--
23...	0755	36	375	292	6.9	29.3	22.0
23...	0756	13	375	290	6.8	29.6	--
23...	0757	1.0	375	288	6.7	29.6	--
23...	0800	1.0	2700	289	6.9	28.9	--
23...	0805	5.0	2700	289	7.0	28.9	17.0

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	OXYGEN, DISSOLVED (MG/L)	CHLORO- PHYLL A PLANK- TON, CORR. (UG/L)	PHEO- PHYTTIN PHYTO- PLANK- TON, CORR. (UG/L)	CHLORO- PHYLL A PHYTO- PLANK- TON, UNCORR. (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 UNCORR. (UG/L)
	(00300)	(32211)	(32218)	(32230)	(32209)	(32213)	(32217)
OCT 06...	--	.000	5.60	3.50	--	--	--
06...	9.9	--	--	--	--	--	--
06...	9.9	--	--	--	--	--	--
06...	10.0	--	--	--	--	--	--
06...	10.0	--	--	--	--	--	--
NOV 14...	--	--	--	--	3.30	2.50	4.50
JUN 17...	7.6	--	--	--	20.6	11.8	26.0
17...	8.2	--	--	--	26.9	10.3	31.5
17...	8.0	--	--	--	25.0	13.2	31.0
17...	6.3	--	--	--	16.9	15.5	24.1
17...	--	--	--	--	22.1	13.3	28.2
27...	--	--	--	--	27.9	15.6	35.1
27...	6.6	--	--	--	21.7	16.6	29.5
27...	8.0	--	--	--	33.5	17.0	41.2
27...	8.1	--	--	--	27.7	16.3	35.2
27...	8.3	--	--	--	37.6	13.5	43.6
27...	8.4	--	--	--	32.2	19.0	41.0
JUL 04...	5.9	--	--	--	14.4	22.6	25.2
04...	6.1	--	--	--	18.2	18.0	26.6
04...	8.0	--	--	--	27.8	15.4	34.8
04...	--	--	--	--	26.9	18.9	35.7
04...	8.3	--	--	--	41.0	22.4	51.3
04...	8.6	--	--	--	47.5	16.0	54.6
09...	4.1	--	--	--	9.50	20.0	19.1
09...	4.8	--	--	--	10.2	16.5	18.1
09...	5.7	--	--	--	13.7	16.8	21.6
09...	--	--	--	--	13.6	16.3	21.3
09...	5.7	--	--	--	15.4	17.3	23.6
09...	6.0	--	--	--	12.3	16.6	20.2
16...	7.1	--	--	--	49.7	22.7	60.0
16...	8.0	--	--	--	63.1	15.7	69.8
16...	9.8	--	--	--	72.2	15.7	78.8
16...	8.7	--	--	--	57.8	12.8	63.2
16...	10.2	--	--	--	60.8	11.5	65.6
23...	5.2	--	--	--	20.6	28.6	34.2
23...	5.0	--	--	--	22.3	28.2	35.7
23...	4.6	--	--	--	20.2	21.5	30.4
23...	5.4	--	--	--	20.7	26.7	33.4
23...	5.4	--	--	--	23.1	24.1	34.5

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

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING 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 UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL											
23...	0810	--	50000	--	--	--	--	--	21.8	22.7	32.5
30...	0910	35	375	323	6.9	27.9	24.0	6.3	21.9	17.1	30.9
30...	0911	13	375	320	6.9	28.0	--	6.3	20.3	17.4	28.4
30...	0912	1.0	375	315	7.0	28.0	--	6.4	20.5	18.1	29.0
30...	0915	--	50000	--	--	--	--	--	23.6	19.0	32.5
30...	0920	6.0	2700	310	7.1	27.5	24.0	6.5	22.1	19.8	31.4
30...	0921	1.0	2700	310	7.2	28.0	--	6.8	29.2	18.0	37.5
30...	1830	28	375	297	6.9	28.7	18.0	7.0	--	--	--
30...	1831	13	375	300	7.2	28.8	--	7.5	--	--	--
30...	1832	1.0	375	296	7.1	29.2	--	8.1	--	--	--
30...	1840	4.0	2700	314	7.8	28.9	22.0	8.2	--	--	--
30...	1841	1.0	2700	315	7.8	28.9	--	--	37.3	18.6	45.8
30...	1845	--	50000	--	--	--	--	--	--	--	--
AUG											
04...	0725	36	375	322	7.2	27.9	24.0	6.7	--	--	--
04...	0726	13	375	320	7.2	28.1	--	6.8	--	--	--
04...	0727	1.0	375	316	7.3	28.2	--	6.9	--	--	--
04...	0735	4.0	2700	330	7.7	27.8	22.0	7.5	--	--	--
04...	0736	1.0	2700	329	7.7	28.2	--	7.5	--	--	--
04...	0740	--	50000	--	--	--	--	--	18.3	17.9	26.7
04...	1755	35	375	328	7.0	28.8	22.0	5.1	--	--	--
04...	1756	19	375	325	7.1	28.9	--	5.5	--	--	--
04...	1757	3.0	375	323	8.1	30.2	--	9.9	--	--	--
04...	1810	5.0	2700	328	7.6	29.1	24.0	7.5	--	--	--
04...	1811	3.0	2700	326	7.7	29.1	--	7.7	--	--	--
05...	0655	35	375	345	7.2	28.7	24.0	6.9	--	--	--
05...	0656	13	375	349	7.0	29.1	--	6.8	--	--	--
05...	0657	1.0	375	351	7.0	28.9	--	6.5	--	--	--
05...	0700	--	50000	--	--	--	--	--	19.1	21.3	29.2
05...	0710	5.0	2700	342	7.1	28.8	23.0	6.9	--	--	--
05...	0711	1.0	2700	342	7.2	28.9	--	6.8	--	--	--
05...	1830	36	375	352	7.0	29.2	22.0	6.5	--	--	--
05...	1831	13	375	343	7.1	29.4	--	6.6	--	--	--
05...	1832	1.0	375	345	7.2	29.4	--	6.9	--	--	--
05...	1840	--	50000	--	--	--	--	--	28.8	20.6	38.3
05...	1845	5.0	2700	347	7.5	29.0	22.0	7.5	--	--	--
05...	1846	1.0	2700	347	7.5	29.0	--	7.6	--	--	--
06...	0655	36	375	343	7.1	29.0	24.0	6.5	24.3	10.3	29.0
06...	0657	13	375	346	7.0	29.0	--	6.6	--	--	--
06...	0658	1.0	375	345	7.0	29.0	--	6.5	19.0	18.1	27.5

APPENDIX D-2

385039077012600 - POTOMAC RIVER AT GEISBORO POINT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JM-HOS)	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)
		(000003)	(000009)	(000095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG	0700	--	50000	--	--	--	--	--	18.8	18.6	27.5
06...	0710	5.0	2700	341	7.4	28.3	24.0	7.0	--	--	--
06...	0711	1.0	2700	339	7.4	28.3	--	7.1	--	--	--
06...	1705	31	375	364	6.9	29.2	24.0	6.4	16.3	23.2	27.4
06...	1706	13	375	361	6.9	29.2	--	6.5	18.8	17.2	26.9
06...	1707	7.0	375	355	7.1	30.2	--	7.1	--	--	--
06...	1708	1.0	375	361	7.4	30.7	--	7.7	57.9	16.6	65.2
06...	1709	.5	375	--	--	--	--	--	52.5	13.6	58.3
06...	1710	--	50000	--	--	--	--	--	38.2	14.8	44.8
06...	1715	7.0	2700	334	7.8	30.5	24.0	8.0	43.6	13.5	49.5
06...	1716	1.0	2700	336	7.9	30.5	--	8.1	48.0	14.7	54.4
06...	1717	.5	2700	--	--	--	--	--	49.1	14.3	55.3
07...	0755	37	375	342	6.8	29.7	24.0	6.5	--	--	--
07...	0756	13	375	343	6.8	29.6	--	6.5	--	--	--
07...	0757	1.0	375	347	6.9	29.6	--	6.6	--	--	--
07...	0800	--	50000	--	--	--	--	--	22.1	19.1	31.0
07...	0805	6.0	2700	331	7.3	29.3	23.0	7.5	--	--	--
07...	0806	1.0	2700	331	7.3	29.4	--	7.8	--	--	--
07...	1705	27	375	367	6.7	30.1	23.0	6.1	--	--	--
07...	1706	13	375	360	6.8	30.1	--	6.4	--	--	--
07...	1707	1.0	375	370	6.8	30.2	--	6.5	--	--	--
07...	1710	5.0	2700	344	7.7	31.2	19.0	7.3	--	--	--
07...	1711	1.0	2700	336	7.7	31.5	--	7.7	--	--	--
08...	0645	30	375	356	7.0	30.0	24.0	4.3	--	--	--
08...	0646	13	375	352	7.1	30.1	--	4.3	--	--	--
08...	0647	1.0	375	353	7.1	30.1	--	4.2	--	--	--
08...	0650	6.0	2700	333	7.2	29.7	23.0	5.2	--	--	--
08...	0651	1.0	2700	336	7.2	29.7	--	5.2	--	--	--
08...	1720	38	375	359	7.1	30.4	25.0	4.1	--	--	--
08...	1721	13	375	361	7.2	30.9	--	5.8	--	--	--
08...	1722	1.0	375	361	7.4	31.2	--	7.9	--	--	--
08...	1725	6.0	2700	338	7.7	31.9	22.0	7.7	--	--	--
08...	1726	1.0	2700	338	7.9	32.3	--	8.9	--	--	--
08...	1730	--	50000	--	--	--	--	--	46.7	12.6	52.1
11...	1820	35	375	330	6.8	30.5	24.0	4.8	--	--	--
11...	1821	13	375	334	7.0	30.9	--	5.7	--	--	--
11...	1822	1.0	375	335	7.0	30.6	--	6.1	--	--	--
11...	1830	--	50000	--	--	--	--	--	44.5	10.7	49.1
11...	1835	5.0	2700	334	7.1	30.6	18.0	6.4	--	--	--



## APPENDIX D-2

385039077012600 - POTOMAC RIVER AT GEISBORO POINT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 METHOD (UG/L) (32217)
AUG											
11...	1836	1.0	2700	330	7.1	30.8	--	6.8	--	--	--
13...	0740	36	375	332	7.5	29.3	21.0	4.8	29.0	26.3	41.4
13...	0741	13	375	332	7.5	29.3	--	4.9	27.5	17.3	35.5
13...	0742	3.0	375	332	7.5	29.3	--	5.0	24.8	14.7	31.6
13...	0743	1.0	375	332	7.5	29.3	--	4.9	27.0	14.0	33.4
13...	0755	6.0	2700	330	7.4	28.9	21.0	4.8	30.5	17.1	38.3
13...	0756	3.0	2700	331	7.5	29.3	--	4.9	31.9	15.9	39.2
13...	0757	1.0	2700	330	7.4	29.4	--	4.9	31.5	15.9	38.8
13...	0800	--	50000	--	--	--	--	--	27.6	18.3	36.0
13...	1750	35	375	337	7.2	29.6	24.0	4.6	21.8	18.0	30.2
13...	1751	20	375	329	7.6	29.9	--	7.1	36.3	16.0	43.5
13...	1752	13	375	326	7.6	30.0	--	7.3	39.6	15.4	46.5
13...	1753	7.0	375	326	7.6	30.2	--	7.2	49.0	15.1	55.7
13...	1754	3.0	375	328	7.5	30.3	--	7.3	47.8	16.9	55.3
13...	1755	1.0	375	327	7.6	30.3	--	7.2	47.4	15.0	54.0
13...	1800	--	50000	--	--	--	--	--	39.1	15.5	46.1
13...	1801	3.0	2700	329	8.0	29.9	18.0	8.3	36.5	15.1	43.4
13...	1802	1.0	2700	329	8.0	29.9	--	8.3	35.2	15.2	42.1
20...	0810	29	375	326	7.3	26.0	17.0	5.3	13.5	11.7	19.0
20...	0811	19	375	333	7.3	26.1	--	5.0	16.8	13.1	23.0
20...	0812	13	375	334	7.3	26.0	--	5.0	18.2	11.0	23.3
20...	0813	4.0	375	336	7.3	26.0	--	5.0	12.6	11.5	18.0
20...	0814	1.0	375	333	7.3	26.0	--	5.0	15.6	12.4	21.3
20...	0820	4.0	2700	317	7.5	25.6	18.0	6.2	9.30	9.80	14.0
20...	0821	1.0	2700	317	7.5	25.6	--	6.2	8.80	8.90	13.0
20...	0825	--	50000	--	--	--	--	--	13.5	10.4	18.4
20...	1840	33	375	329	7.2	26.3	24.0	5.5	29.0	13.2	35.0
20...	1841	13	375	329	7.2	26.2	--	5.6	27.8	16.2	35.3
20...	1842	5.0	375	329	7.2	26.2	--	5.7	34.4	14.0	40.6
20...	1843	1.0	375	329	7.2	26.2	--	5.7	28.5	10.1	33.0
20...	1850	--	50000	--	--	--	--	--	25.8	8.80	29.7
20...	1855	3.0	2700	323	7.3	26.0	24.0	5.9	23.7	10.7	28.5
20...	1856	1.0	2700	323	7.3	26.0	--	5.8	24.5	10.1	29.1
SEP											
03...	1900	34	375	333	7.1	28.1	24.0	5.3	17.4	15.4	24.6
03...	1901	13	375	337	7.3	28.3	--	6.3	31.3	11.0	36.2
03...	1902	1.0	375	336	7.6	28.6	--	7.5	35.5	7.60	38.7
03...	1903	--	375	--	--	--	--	--	28.5	11.9	33.8
03...	1915	5.0	2700	297	8.2	28.7	22.0	8.8	37.8	10.4	42.3
03...	1916	1.0	2700	298	8.1	28.6	--	8.5	40.0	10.3	44.4

APPENDIX D-2

385039077012600 - POTOMAC RIVER AT GEISBORD POINT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
SEP 03...	1917	--	2700	--	--	--	--	--	39.7	10.3	44.1
03...	1920	--	50000	--	--	--	--	--	30.9	9.60	35.2
15...	1400	35	375	369	7.2	25.5	24.0	5.9	19.8	15.3	26.9
15...	1401	13	375	384	7.0	26.0	--	5.6	23.2	14.2	29.8
15...	1402	1.0	375	388	7.0	26.1	--	6.0	28.1	13.8	34.4
15...	1405	5.0	2700	354	7.7	25.7	22.0	8.1	--	--	--
15...	1406	1.0	2700	354	7.8	25.8	--	8.2	--	--	--
15...	1407	--	2700	--	--	--	--	--	42.3	11.8	47.4
15...	1410	--	50000	--	--	--	--	--	30.0	13.4	36.1

## APPENDIX D-2

## 384852077020500 - POTOMAC RIVER AT MARBURY POINT

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	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 (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	1800	--	50000	--	--	--	--	--	30.0	15.1	36.9
17...	1810	3.0	2100	256	8.2	24.6	24.0	9.2	37.5	17.1	45.2
17...	1811	9.0	2100	265	8.2	24.4	--	8.5	31.0	14.4	37.6
17...	1812	19	2100	267	8.0	24.3	--	7.9	28.6	13.5	34.8
17...	1825	2.0	1200	265	7.9	24.5	24.0	8.0	26.1	13.4	32.2
17...	1826	9.0	1200	257	7.8	24.2	--	7.3	25.0	18.1	33.4
17...	1827	19	1200	268	7.6	23.9	--	6.8	27.7	19.0	36.5
17...	1455	--	50000	--	--	--	--	--	20.9	12.8	26.8
27...	1500	19	1200	379	7.1	26.6	24.0	7.0	28.0	17.1	35.9
27...	1501	9.0	1200	322	7.5	26.4	--	7.7	42.1	14.2	48.4
27...	1502	2.0	1200	302	8.0	26.6	--	8.2	25.4	23.9	36.7
27...	1505	19	2100	303	7.5	25.6	23.0	6.6	24.4	19.1	33.3
27...	1506	9.0	2100	301	7.5	25.7	--	6.7	32.6	18.7	41.2
27...	1507	3.0	2100	291	7.9	26.2	--	7.9			
JUL	1640	19	1200	303	6.9	26.9	31.0	5.1	12.6	23.3	23.7
04...	1641	9.0	1200	302	7.0	27.1	--	5.5	14.1	17.3	22.3
04...	1642	2.0	1200	300	7.1	27.6	--	6.5	21.5	16.5	29.2
04...	1645	--	50000	--	--	--	--	--			
04...	1655	19	2100	300	7.0	27.1	24.0	5.5	12.6	18.7	21.5
04...	1656	9.0	2100	294	7.2	27.4	--	6.7	19.9	18.6	28.6
04...	1657	3.0	2100	291	7.4	27.7	--	7.2	25.9	18.9	34.6
06...	0935	2.0	365	313	6.8	27.1	18.0	5.1	--	--	--
06...	0945	18	1200	289	7.0	26.9	24.0	5.3	--	--	--
06...	0946	9.0	1200	288	7.0	26.9	--	5.5	--	--	--
06...	0947	2.0	1200	288	7.0	26.9	--	5.6	--	--	--
06...	1010	19	2100	290	7.0	27.0	23.0	5.6	--	--	--
06...	1011	9.0	2100	290	7.0	27.0	--	5.7	--	--	--
06...	1012	3.0	2100	294	7.0	27.6	--	5.9	--	--	--
06...	1025	7.0	2145	290	7.0	27.0	22.0	5.7	--	--	--
06...	1026	2.0	2145	295	7.0	27.3	--	6.1	--	--	--
06...	1040	2.0	365	315	6.8	27.1	19.0	5.4	--	--	--
06...	1050	19	1200	294	6.9	26.9	22.0	5.6	--	--	--
06...	1051	9.0	1200	293	7.0	27.3	--	5.9	--	--	--
06...	1052	2.0	1200	292	7.0	27.3	--	5.9	--	--	--
06...	1110	19	2100	292	7.0	26.7	23.0	5.4	--	--	--
06...	1111	9.0	2100	291	7.0	26.9	--	5.5	--	--	--
06...	1112	3.0	2100	292	7.0	26.9	--	5.7	--	--	--
06...	1130	7.0	2145	293	6.9	26.9	22.0	5.4	--	--	--
06...	1131	2.0	2145	294	6.9	26.9	--	5.4	--	--	--

## APPENDIX D-2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING 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)	OXYGEN, DISE- 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)
JUL											
06...	1140	2.0	365	381	6.6	26.5	19.0	5.9	--	--	--
06...	1145	19	1200	353	6.7	26.5	28.0	6.0	--	--	--
06...	1146	9.0	1200	303	6.9	27.0	--	5.7	--	--	--
06...	1147	2.0	1200	301	7.0	27.0	--	5.7	--	--	--
06...	1200	19	2100	302	6.9	27.0	26.0	5.2	--	--	--
06...	1201	9.0	2100	304	6.9	27.1	--	5.4	--	--	--
06...	1202	3.0	2100	304	6.9	27.1	--	6.0	--	--	--
06...	1230	7.0	2145	306	6.9	27.4	23.0	4.9	--	--	--
06...	1231	2.0	2145	307	6.8	27.2	--	5.1	--	--	--
06...	1240	2.0	365	305	7.0	27.6	13.0	6.4	--	--	--
06...	1250	19	1200	314	6.9	27.2	23.0	6.0	--	--	--
06...	1251	9.0	1200	306	6.9	27.3	--	5.8	--	--	--
06...	1252	2.0	1200	--	6.9	27.3	--	5.6	--	--	--
06...	1305	19	2100	310	6.8	27.2	24.0	5.2	--	--	--
06...	1306	9.0	2100	309	6.9	27.3	--	5.6	--	--	--
06...	1307	3.0	2100	309	6.9	27.3	--	5.5	--	--	--
06...	1320	7.0	2145	308	6.8	27.4	23.0	4.6	--	--	--
06...	1321	2.0	2145	308	6.8	27.3	--	5.1	--	--	--
06...	1445	2.0	365	310	7.0	27.6	21.0	5.1	--	--	--
06...	1500	19	1200	311	6.9	27.6	26.0	5.1	--	--	--
06...	1501	9.0	1200	310	6.9	27.5	--	5.2	--	--	--
06...	1502	2.0	1200	311	6.9	27.5	--	5.3	--	--	--
06...	1515	19	2100	312	6.9	27.6	28.0	4.6	--	--	--
06...	1516	9.0	2100	309	6.9	28.0	--	4.8	--	--	--
06...	1517	3.0	2100	307	7.0	29.2	--	5.0	--	--	--
06...	1525	7.0	2145	307	7.0	29.3	23.0	4.9	--	--	--
06...	1526	2.0	2145	307	7.0	30.5	--	5.2	--	--	--
06...	1540	2.0	365	306	7.1	28.1	18.0	5.9	29.3	21.2	39.1
06...	1550	19	1200	311	7.0	27.7	29.0	5.0	24.2	17.7	32.4
06...	1551	9.0	1200	310	7.0	27.8	--	5.0	24.9	16.0	32.3
06...	1552	2.0	1200	309	7.0	28.1	--	5.1	26.7	19.6	35.8
06...	1605	19	2100	311	6.9	27.3	23.0	4.2	20.0	16.7	27.8
06...	1606	9.0	2100	308	6.9	27.7	--	4.3	19.4	19.0	28.3
06...	1607	3.0	2100	308	7.0	27.8	--	5.6	20.7	17.5	28.9
06...	1615	7.0	2145	304	7.1	27.9	19.0	5.6	22.9	20.2	32.4
06...	1616	2.0	2145	305	7.1	29.7	--	5.6	22.3	19.0	31.2
06...	1630	--	50000	--	--	--	--	--	29.0	18.4	37.6
06...	1720	2.0	365	316	7.0	27.7	25.0	5.6	--	--	--
06...	1740	19	1200	310	6.9	27.5	25.0	4.8	--	--	--

## APPENDIX D-2

384852077020500 - POTOMAC RIVER AT MARBURY POINT -- Cont.

WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC-		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)	
			AT- TION, CRSS SECTION (FT FM L BANK)	ION, CON- DUCT- ANCE (UMHOS) (00009)												
JUL																
06...	1741	9.0	1200	308	7.0	27.6	---	---	5.2	---	---	---	---	---	---	---
06...	1742	2.0	1200	306	7.1	27.4	---	---	5.8	---	---	---	---	---	---	---
06...	1755	19	2100	297	7.3	27.4	23.0	---	---	---	---	---	---	---	---	---
06...	1756	9.0	2100	292	7.4	27.5	---	---	6.5	---	---	---	---	---	---	---
06...	1757	3.0	2100	293	7.5	27.7	---	---	6.9	---	---	---	---	---	---	---
06...	1800	7.0	2145	294	7.6	28.2	20.0	---	7.1	---	---	---	---	---	---	---
06...	1810	2.0	2145	301	7.5	28.9	---	---	6.8	---	---	---	---	---	---	---
06...	1815	2.0	365	316	7.0	27.5	23.0	---	5.6	---	---	---	---	---	---	---
06...	1830	19	1200	299	7.2	27.5	23.0	---	6.2	---	---	---	---	---	---	---
06...	1831	9.0	1200	302	7.1	27.3	---	---	6.5	---	---	---	---	---	---	---
06...	1832	2.0	1200	304	7.1	27.4	---	---	6.4	---	---	---	---	---	---	---
06...	1840	19	2100	302	7.2	27.3	24.0	---	6.3	---	---	---	---	---	---	---
06...	1841	9.0	2100	294	7.4	27.3	---	---	6.9	---	---	---	---	---	---	---
06...	1842	3.0	2100	288	7.5	27.4	---	---	7.2	---	---	---	---	---	---	---
06...	1850	7.0	2145	278	7.9	28.0	20.0	---	7.7	---	---	---	---	---	---	---
06...	1851	2.0	2145	283	7.8	28.7	---	---	7.4	---	---	---	---	---	---	---
06...	1935	2.0	365	322	7.0	27.2	21.0	---	5.9	---	---	---	---	---	---	---
06...	1950	19	1200	300	7.1	27.2	24.0	---	5.5	---	---	---	---	---	---	---
06...	1951	9.0	1200	300	7.1	27.2	---	---	5.6	---	---	---	---	---	---	---
06...	1952	2.0	1200	300	7.1	27.0	---	---	5.6	---	---	---	---	---	---	---
06...	2000	19	2100	301	7.1	27.2	16.0	---	5.6	---	---	---	---	---	---	---
06...	2001	9.0	2100	293	7.3	27.2	---	---	6.9	---	---	---	---	---	---	---
06...	2002	3.0	2100	289	7.5	27.9	---	---	7.0	---	---	---	---	---	---	---
06...	2015	7.0	2145	280	7.8	27.5	19.0	---	7.4	---	---	---	---	---	---	---
06...	2016	2.0	2145	287	7.7	28.1	---	---	7.2	---	---	---	---	---	---	---
06...	2020	2.0	365	307	7.1	27.0	---	---	6.0	---	---	---	---	---	---	---
06...	2030	19	1200	293	7.1	27.1	---	---	5.9	---	28.5	20.9	20.9	38.2	35.4	---
06...	2031	9.0	1200	292	7.2	27.1	---	---	5.8	---	25.6	20.9	20.9	35.4	35.4	---
06...	2032	2.0	1200	291	7.2	27.0	---	---	5.8	---	---	---	---	---	---	---
06...	2100	19	2100	297	7.2	27.3	---	---	6.1	---	26.6	21.5	21.5	36.6	36.6	---
06...	2101	9.0	2100	292	7.3	27.3	---	---	6.6	---	27.9	21.0	21.0	37.7	37.7	---
06...	2102	3.0	2100	285	7.6	28.0	---	---	7.1	---	34.5	22.6	22.6	45.0	45.0	---
06...	2110	7.0	2145	285	7.7	27.5	---	---	7.2	---	35.8	21.9	21.9	45.9	45.9	---
06...	2111	2.0	2145	286	7.6	27.8	---	---	7.1	---	34.3	20.9	20.9	43.9	43.9	---
06...	2120	---	50000	---	---	---	---	---	---	---	28.5	18.9	18.9	37.3	37.3	---
09...	1500	---	50000	---	---	---	---	---	---	---	10.5	18.0	18.0	19.0	19.0	---
09...	1505	19	1200	323	6.6	26.4	18.0	---	4.2	---	9.40	20.6	20.6	19.3	19.3	---
09...	1506	9.0	1200	317	6.6	26.1	---	---	4.4	---	8.40	17.2	17.2	16.7	16.7	---
09...	1507	2.0	1200	312	6.7	28.5	---	---	5.6	---	12.0	11.4	11.4	17.4	17.4	---

APPENDIX D-2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
JUL											
09...	1510	19	2100	303	6.7	26.4	24.0	4.4	8.80	21.6	19.2
09...	1511	9.0	2100	309	6.7	26.3	---	4.5	10.0	17.2	18.2
09...	1512	3.0	2100	304	6.9	27.7	---	6.0	16.7	15.4	23.9
16...	1420	---	50000	---	---	---	---	---	59.3	23.6	69.9
16...	1425	21	1200	395	6.9	28.2	24.0	6.4	41.5	27.9	54.5
16...	1426	15	1200	388	7.1	28.3	---	6.9	51.0	22.1	61.0
16...	1427	9.0	1200	379	7.5	28.8	---	7.2	63.3	23.4	73.8
16...	1428	6.0	1200	373	7.8	29.3	---	9.3	75.0	24.3	85.7
16...	1429	1.0	1200	373	7.9	29.4	---	9.6	74.5	20.0	83.2
16...	1500	20	2100	380	7.2	28.5	---	7.1	48.0	33.2	63.4
16...	1501	9.0	2100	370	7.7	29.0	---	8.5	71.4	16.0	78.1
16...	1502	5.0	2100	372	8.0	30.9	---	10.1	75.4	25.7	86.8
16...	1503	1.0	2100	372	8.0	31.6	---	10.1	65.4	23.5	75.9
23...	0726	21	1200	339	6.6	28.8	22.0	4.6	18.7	20.6	28.4
23...	0727	9.0	1200	332	6.6	29.2	---	4.5	18.8	19.2	27.9
23...	0728	1.0	1200	328	6.6	29.2	---	4.6	18.3	17.9	26.7
23...	0735	---	50000	---	---	---	---	---	19.4	19.7	28.7
23...	0736	23	2100	346	6.5	29.0	17.0	4.6	21.6	19.1	30.6
23...	0737	9.0	2100	327	6.6	29.3	---	4.5	18.6	18.8	27.5
23...	0738	1.0	2100	330	6.6	29.3	---	4.5	19.0	19.0	28.0
30...	0840	16	1200	317	6.9	27.9	24.0	5.9	21.3	18.6	30.0
30...	0843	9.0	1200	315	6.9	28.0	---	6.0	20.8	18.4	29.4
30...	0845	1.0	1200	315	6.9	28.1	---	6.1	19.6	16.7	27.4
30...	0850	---	50000	---	---	---	---	---	19.2	18.2	27.7
30...	0851	25	2100	301	6.7	28.0	26.0	5.6	13.2	27.0	26.1
30...	0853	9.0	2100	307	6.7	28.1	---	5.8	27.0	28.6	40.5
30...	0855	1.0	2100	309	6.8	28.2	---	6.0	20.1	15.2	27.2
30...	1800	18	1200	356	6.7	28.9	18.0	6.5	---	---	---
30...	1801	9.0	1200	327	7.1	29.9	---	7.2	---	---	---
30...	1802	1.0	1200	317	7.3	29.9	---	7.6	---	---	---
30...	1810	---	50000	---	---	---	---	---	34.2	18.3	42.6
30...	1811	22	2100	336	6.8	28.6	22.0	6.4	---	---	---
30...	1812	9.0	2100	317	7.1	29.0	---	7.2	---	---	---
30...	1813	1.0	2100	317	7.3	29.2	---	7.5	---	---	---
AUG											
04...	0700	18	1200	339	6.9	28.1	19.0	6.1	---	---	---
04...	0701	9.0	1200	340	7.0	28.4	---	6.4	---	---	---
04...	0702	1.0	1200	340	7.0	28.4	---	6.4	---	---	---
04...	0710	---	50000	---	---	---	---	---	27.5	30.2	41.8
04...	0711	23	2100	333	7.2	28.2	18.0	6.8	---	---	---

## APPENDIX D-2

384852077020500 - POTOMAC RIVER AT MARLBURY POINT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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- PHYLLI A FLUORO- METRIC METHOD CORR. (UG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	(32213)	CHLORO- PHYLLI A FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
AUG	0712	9.0		2100		334		7.1		28.3				6.7							
04...	0713	1.0		2100		353		7.2		29.1				6.7							
04...	1740	17		1200		336		6.9		28.7		22.0		4.3							
04...	1741	10		1200		341		6.9		29.2				5.2							
04...	1742	3.0		1200		329		7.3		30.3				7.8							
04...	1745	--		50000		--		--		--				--		29.0		17.9		37.2	
04...	1750	20		2100		329		7.0		28.8		16.0		4.9							
04...	1751	10		2100		329		7.2		29.6				6.5							
04...	1752	3.0		2100		332		7.7		31.3				8.1							
05...	0630	18		1200		347		7.0		28.8		23.0		6.5							
05...	0631	9.0		1200		350		7.0		29.0				6.5							
05...	0632	1.0		1200		352		7.0		29.0				6.5							
05...	0641	22		2100		347		7.0		29.0		24.0		6.6							
05...	0642	9.0		2100		348		7.0		29.0				6.5							
05...	0643	1.0		2100		348		7.0		28.9				5.9							
05...	1700	22		1200		348		6.9		29.6		24.0		6.0							
05...	1701	9.0		1200		342		6.9		29.5				6.7							
05...	1702	1.0		1200		341		6.9		29.7				6.7							
05...	1730	22		2100		346		7.0		30.2		22.0		6.4							
05...	1731	9.0		2100		345		7.0		30.0				6.5							
05...	1732	1.0		2100		344		7.0		30.1				6.5							
05...	1810	--		50000		--		--		--				--		25.0		14.9		31.9	
06...	0630	18		1200		340		6.8		28.8		29.0		6.0		18.5		13.3		24.7	
06...	0631	9.0		1200		333		6.8		29.1				6.2		16.0		14.4		22.7	
06...	0632	1.0		1200		334		6.8		29.1				6.2		15.4		13.3		21.6	
06...	0640	--		50000		--		--		--				--		17.1		14.8		24.0	
06...	0641	23		2100		341		6.6		28.9		20.0		5.8		22.9		17.0		30.9	
06...	0642	9.0		2100		336		6.9		29.1				6.3		19.4		16.0		26.8	
06...	0643	1.0		2100		335		6.8		29.1				6.2		18.4		15.6		25.7	
06...	1645	14		1200		345		6.9		29.9		24.0		6.3		15.9		16.4		23.6	
06...	1646	9.0		1200		341		6.9		29.6				6.3		15.4		17.1		23.4	
06...	1647	1.0		1200		342		7.0		30.3				7.2		45.0		9.10		48.8	
06...	1648	.1		1200		--		--		--				--		48.8		12.1		53.9	
06...	1650	--		50000		--		--		--				--		26.5		14.7		33.3	
06...	1651	24		2100		339		6.9		30.0		24.0		6.6		30.9		16.4		38.4	
06...	1652	9.0		2100		332		6.9		30.1				6.5		21.3		14.9		28.2	
06...	1653	1.0		2100		326		6.9		30.5				6.7		31.7		12.6		37.4	
06...	1654	.1		2100		--		--		--				--		30.0		12.4		35.6	
07...	0725	20		1200		343		6.5		29.5		30.0		5.2		--		--		--	

## APPENDIX D-2

384852077020500 - POTOMAC RIVER AT MARBURY POINT -- Cont.

WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

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 (SECHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLA FLUORO- METRIC CORR. (UG/L) (32209)	PNEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG											
07...	0726	9.0	1200	337	6.5	29.7	---	5.5	---	---	---
07...	0727	1.0	1200	335	6.5	29.7	---	5.8	---	---	---
07...	0740	---	50000	---	---	---	---	---	18.4	16.9	26.4
07...	0741	24	2100	351	6.6	29.7	30.0	5.7	---	---	---
07...	0742	9.0	2100	339	6.6	29.8	---	5.9	---	---	---
07...	0743	1.0	2100	339	6.6	31.1	---	6.0	---	---	---
07...	1640	19	1200	353	6.8	30.3	19.0	6.1	---	---	---
07...	1641	9.0	1200	353	6.8	30.3	---	6.1	---	---	---
07...	1642	1.0	1200	352	6.8	30.3	---	6.2	---	---	---
07...	1645	---	50000	---	---	---	---	---	29.6	16.3	37.1
07...	1650	21	2100	348	6.8	30.4	---	6.4	---	---	---
07...	1651	9.0	2100	345	7.1	31.2	23.0	7.6	---	---	---
07...	1652	1.0	2100	337	6.8	30.3	---	6.4	---	---	---
08...	0620	20	1200	335	6.8	28.9	24.0	4.1	---	---	---
08...	0621	9.0	1200	335	6.8	29.8	---	3.7	---	---	---
08...	0622	1.0	1200	335	6.9	29.7	---	4.1	---	---	---
08...	0629	27	2100	334	6.7	29.7	23.0	4.2	---	---	---
08...	0630	---	50000	---	---	---	---	---	28.1	12.0	33.5
08...	0631	9.0	2100	336	6.8	30.6	---	4.5	---	---	---
08...	0632	1.0	2100	339	6.9	31.1	---	4.0	---	---	---
08...	1700	20	1200	357	7.0	30.7	21.0	3.9	---	---	---
08...	1701	9.0	1200	357	7.1	30.8	---	4.2	---	---	---
08...	1702	1.0	1200	357	7.1	30.9	---	4.2	---	---	---
08...	1715	---	50000	---	---	---	---	---	31.5	15.2	38.5
08...	1716	24	2100	352	7.1	30.7	25.0	4.6	---	---	---
08...	1717	9.0	2100	348	7.2	30.9	---	4.8	---	---	---
08...	1718	1.0	2100	341	7.1	31.0	---	4.2	---	---	---
11...	1805	18	1200	368	6.6	30.6	18.0	4.5	---	---	---
11...	1806	9.0	1200	347	6.8	31.4	---	5.5	---	---	---
11...	1807	1.0	1200	336	6.9	31.6	---	6.6	---	---	---
11...	1815	---	50000	---	---	---	---	---	55.8	5.10	57.5
11...	1816	19	2100	340	6.7	30.3	24.0	5.0	---	---	---
11...	1817	9.0	2100	343	6.8	30.7	---	5.4	---	---	---
11...	1818	1.0	2100	340	7.0	31.0	---	6.4	---	---	---
13...	0710	20	1200	348	7.3	29.2	21.0	3.9	30.9	21.7	41.0
13...	0711	9.0	1200	347	7.3	29.3	---	3.9	29.0	16.8	36.8
13...	0712	3.0	1200	346	7.3	29.3	---	3.9	29.3	15.3	34.3
13...	0713	1.0	1200	346	7.3	29.4	---	4.1	29.5	16.1	36.9
13...	0725	22	2100	344	7.4	29.5	24.0	4.3	32.4	17.9	40.6



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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 (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)
AUG	0726	9.0		2100		344		7.4		29.5				4.2		31.4		15.0		38.2	
13...	0727	3.0		2100		344		7.4		29.6				4.1		30.0		15.9		37.3	
13...	0728	1.0		2100		345		7.4		29.6				4.3		32.3		15.4		39.4	
13...	0730			5000												29.0		17.3		37.0	
13...	1720	19		1200		314		7.2		29.6		21.0		5.2		34.4		14.0		40.6	
13...	1721	9.0		1200		359		7.3		29.9				6.0		42.7		16.1		49.9	
13...	1722	6.0		1200		358		7.4		30.4				7.1		52.2		14.3		58.4	
13...	1723	3.0		1200		349		7.5		30.3				7.2		48.6		12.1		53.8	
13...	1724	1.0		1200		347		7.6		30.7				7.7		32.0		11.0		36.8	
13...	1730			5000												44.3		12.1		49.6	
13...	1731	22		2100		398		7.2		29.3		18.0		5.7		31.7		15.8		38.9	
13...	1732	9.0		2100		335		7.5		29.7				6.6		37.6		15.7		44.7	
13...	1733	6.0		2100		336		7.5		29.8				6.6		38.4		16.6		45.9	
13...	1734	3.0		2100		336		7.8		30.7				8.0		57.1		16.4		64.3	
13...	1735	1.0		2100		337		7.8		30.8				8.2		57.9		15.6		64.6	
20...	0740	24		1200		335		7.3		26.0		16.0		5.1		20.5		14.0		27.0	
20...	0741	9.0		1200		341		7.3		26.0				5.0		20.2		13.1		26.2	
20...	0742	4.0		1200		342		7.2		26.0				4.9		20.2		12.7		26.0	
20...	0743	1.0		1200		343		7.2		26.0				5.0		18.0		12.4		23.8	
20...	0800			5000												21.2		12.2		26.9	
20...	0801	24		2100		334		7.3		26.1		14.0		5.2		18.3		13.1		24.4	
20...	0802	9.0		2100		336		7.3		26.2				5.2		21.3		14.1		27.8	
20...	0803	4.0		2100		337		7.3		26.4				5.3		21.1		11.7		26.5	
20...	0804	1.0		2100		337		7.3		27.0				5.5		23.0		11.5		28.2	
20...	1800	20		1200		345		7.0		26.4		24.0		4.1		21.3		14.3		27.9	
20...	1801	9.0		1200		349		7.0		26.4				4.1		22.7		11.4		28.0	
20...	1802	7.0		1200		348		7.1		26.8				5.1		32.2		10.7		36.9	
20...	1803	5.0		1200		345		7.1		26.8				5.3		32.0		9.70		36.2	
20...	1804	1.0		1200		344		7.1		26.8				5.2		24.8		8.50		28.5	
20...	1810			5000												26.4		10.9		31.3	
20...	1811	18		2100		344		7.1		26.7		22.0		4.6		30.6		11.2		35.6	
20...	1812	9.0		2100		339		7.2		27.0				5.7		30.8		10.7		35.5	
20...	1813	6.0		2100		343		7.2		27.2				5.7		28.1		11.3		33.2	
20...	1814	3.0		2100		337		7.2		27.9				5.8		25.9		12.4		31.5	
20...	1815	1.0		2100		338		7.2		28.1				5.8		27.2		11.4		32.4	
20...	1816	12		2100												23.9		9.60		28.2	
SEP																					
03...	1810			1200												28.2		9.30		32.3	
03...	1815	18		1200		378		6.9		28.6		23.0		4.4		17.5		15.3		24.7	
03...		9.0		1200		382		6.8		28.7				4.5		16.2		17.7		24.5	

APPENDIX D-2

384852077020500 - POTOMAC RIVER AT MARBURY POINT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	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)
SEP											
03...	1817	6.0	1200	366	7.1	29.3	---	6.5	32.6	10.7	37.3
03...	1818	4.0	1200	361	7.2	29.2	---	6.5	30.0	8.20	33.5
03...	1819	1.0	1200	366	7.2	29.3	---	6.9	43.4	8.60	47.0
03...	1830	--	50000	--	--	--	---	--	26.4	11.3	31.5
03...	1831	18	2100	361	7.0	29.0	16.0	5.3	16.2	6.50	19.1
03...	1832	9.0	2100	351	7.2	29.4	---	6.6	29.3	10.3	33.9
03...	1833	1.0	2100	349	7.3	30.7	---	6.4	25.8	10.8	30.7
03...	1840	--	2100	--	--	--	---	--	25.9	10.1	30.4
15...	1415	21	1200	410	6.7	26.2	---	4.3	13.1	12.0	18.8
15...	1416	19	1200	385	--	26.4	24.0	--	--	--	--
15...	1417	9.0	1200	376	6.9	26.3	---	5.0	20.0	14.5	26.8
15...	1418	1.0	1200	375	6.9	23.4	---	5.1	17.1	12.9	23.1
15...	1430	--	50000	--	--	--	---	--	30.0	13.6	36.2
15...	1435	15	2100	372	7.2	26.6	18.0	6.5	--	--	--
15...	1436	9.0	2100	369	7.3	26.7	---	7.2	--	--	--
15...	1437	1.0	2100	369	7.2	26.6	---	6.7	--	--	--
15...	1450	--	2100	--	--	--	---	--	30.7	16.4	38.2

APPENDIX D-2  
01652590 - POTOMAC R AT ALEXANDRIA, VA.

WATER QUALITY DATA WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L/BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	TRAN- SPAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT							
06...	0815	--	3400	--	--	--	--
06...	0816	33	3400	187	17.0	7.0	9.6
06...	0817	18	3400	187	17.0	--	9.6
06...	0818	3.0	3400	187	17.0	--	9.5
06...	0819	1.0	3400	187	17.0	--	9.5
11...	1440	--	3700	--	--	--	--
23...	1335	--	3700	--	--	--	--
23...	1336	16	3700	200	17.5	--	8.9
23...	1337	10	3700	200	17.0	--	8.9
23...	1338	3.0	3700	200	18.0	--	8.6
25...	1326	--	3700	--	--	--	--
28...	1252	1.0	3400	--	--	--	--
28...	1253	13	3400	--	--	--	--
28...	1255	26	3400	--	--	--	--
29...	1126	--	3700	--	--	--	--
30...	1240	--	3700	--	--	--	--
NOV							
05...	1140	--	3700	--	--	--	--
08...	1000	--	3700	--	--	--	--
08...	1255	--	600	--	--	--	--
08...	1257	2.0	600	--	--	--	--
08...	1345	--	3400	--	--	--	--
08...	1347	2.0	3400	--	--	--	--
08...	1349	12	3400	--	--	--	--
08...	1351	25	3400	--	--	--	--
13...	1150	--	3700	--	--	--	--
14...	1000	--	3400	--	--	--	--
14...	1400	--	3700	--	--	--	--
15...	0940	--	3400	--	--	--	--
15...	1010	--	3700	--	--	--	--
20...	1215	--	3700	--	--	--	--
27...	1100	4.0	3400	--	--	--	--
27...	1104	18	3400	--	--	--	--
28...	1300	--	600	--	--	--	--
28...	1301	14	600	--	--	--	--
28...	1302	1.0	600	--	--	--	--
28...	1320	--	3400	--	--	--	--
28...	1322	18	3400	--	--	--	--
28...	1330	--	3700	--	--	--	--
28...	1331	13	3700	--	--	--	--

APPENDIX D-2  
01652590 - POTOMAC R AT ALEXANDRIA, VA.-- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHLORO- PHYLLA PHYTO- PLANK- TON, CORR. (UG/L) (32211)	PHEO- PHYTIN PHYTO- PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYLL A PHYTO- PLANK- TON, UNCORR. (UG/L) (32230)	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)
OCT						
06...	3.20	1.30	4.20	--	--	--
06...	--	--	--	--	--	--
06...	--	--	--	--	--	--
06...	--	--	--	--	--	--
06...	--	--	--	--	--	--
11...	--	--	--	2.70	4.80	5.10
23...	--	--	--	3.00	2.50	4.20
23...	--	--	--	--	--	--
23...	--	--	--	--	--	--
23...	--	--	--	--	--	--
25...	--	--	--	3.10	1.80	4.00
28...	--	--	--	2.10	1.50	2.90
28...	--	--	--	2.30	1.80	3.20
28...	--	--	--	2.50	2.00	3.40
29...	--	--	--	2.10	1.20	2.70
30...	--	--	--	3.20	1.70	4.00
NOV						
05...	--	--	--	9.70	4.40	12.0
08...	--	--	--	7.10	2.60	8.30
08...	--	--	--	4.20	2.50	5.40
08...	--	--	--	3.80	2.60	5.10
08...	--	--	--	9.50	3.00	10.9
08...	--	--	--	9.10	1.30	9.70
08...	--	--	--	9.00	3.10	10.5
08...	--	--	--	8.90	3.80	10.7
13...	--	--	--	5.30	3.60	7.10
14...	--	--	--	2.80	2.20	3.80
14...	--	--	--	3.00	2.50	4.30
15...	--	--	--	3.10	2.20	4.20
15...	--	--	--	2.60	2.60	3.80
20...	--	--	--	3.00	3.00	4.40
27...	--	--	--	4.50	2.10	5.50
27...	--	--	--	4.40	2.70	5.80
28...	--	--	--	5.00	4.20	7.00
28...	--	--	--	5.60	3.30	7.30
28...	--	--	--	5.20	2.90	6.60
28...	--	--	--	8.00	4.00	9.90
28...	--	--	--	8.60	3.50	10.3
28...	--	--	--	9.30	4.20	11.3
28...	--	--	--	9.60	4.00	11.6

APPENDIX D-2  
01652590 - POTOMAC R AT ALEXANDRIA, VA. -- Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING SECTION (FIT FMI)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A		PHEOPHY- TIN A		CHLORO- PHYLL A	
								FLUORO- METRIC CORR.	(UG/L)	FLUORO- METRIC CORR.	(UG/L)	FLUORO- METRIC CORR.	(UG/L)
DEC													
03...	0705	--	3400	--	--	--	--	6.10	5.00	5.00	5.00	8.60	8.60
04...	1110	--	600	--	--	--	--	1.80	2.40	2.40	2.40	3.00	3.00
04...	1120	--	3400	--	--	--	--	3.60	4.40	4.40	4.40	5.80	5.80
04...	1130	--	3700	--	--	--	--	3.50	3.50	3.50	3.50	5.20	5.20
13...	1100	--	3700	--	--	--	--	1.20	.900	.900	.900	1.70	1.70
13...	1110	--	3400	--	--	--	--	1.60	1.20	1.20	1.20	2.40	2.40
13...	1120	--	600	--	--	--	--	.600	.700	.700	.700	1.00	1.00
13...	1345	--	600	--	--	--	--	.400	.800	.800	.800	.900	.900
13...	1355	--	3400	--	--	--	--	.900	.700	.700	.700	1.40	1.40
13...	1405	--	3700	--	--	--	--	1.10	1.00	1.00	1.00	1.80	1.80
18...	1135	--	3400	--	--	--	--	3.50	1.90	1.90	1.90	4.80	4.80
20...	1121	27	3400	8.4	2.8	38.0	15.3	--	--	--	--	--	--
20...	1122	15	3400	8.4	3.2	--	14.6	--	--	--	--	--	--
20...	1123	3.0	3400	8.4	3.2	--	13.9	--	--	--	--	--	--
20...	1125	--	3400	--	--	--	--	3.50	1.90	1.90	1.90	4.80	4.80
27...	0940	--	3700	--	--	--	--	5.70	2.10	2.10	2.10	7.20	7.20
27...	1105	--	3400	--	--	--	--	7.20	2.50	2.50	2.50	9.10	9.10
27...	1205	--	3700	--	--	--	--	6.30	2.70	2.70	2.70	8.20	8.20
27...	1510	--	3700	--	--	--	--	7.10	2.50	2.50	2.50	8.90	8.90
JAN													
02...	1140	--	3400	--	--	--	--	4.50	3.30	3.30	3.30	6.10	6.10
02...	1210	--	600	--	--	--	--	3.00	2.30	2.30	2.30	4.10	4.10
02...	1510	--	3400	--	--	--	--	8.60	2.70	2.70	2.70	30.0	30.0
02...	1535	--	600	--	--	--	--	2.50	2.10	2.10	2.10	3.50	3.50
08...	0945	--	3400	--	--	--	--	3.60	1.60	1.60	1.60	4.30	4.30
08...	1020	--	600	--	--	--	--	2.30	1.20	1.20	1.20	2.80	2.80
08...	1310	--	3400	--	--	--	--	3.40	1.20	1.20	1.20	3.90	3.90
08...	1335	--	600	--	--	--	--	1.90	.900	.900	.900	2.30	2.30
16...	1155	--	3400	--	--	--	--	2.60	1.70	1.70	1.70	3.40	3.40
16...	1240	--	600	--	--	--	--	3.10	1.40	1.40	1.40	3.70	3.70
21...	1130	--	3400	--	--	--	--	12.3	6.80	6.80	6.80	15.4	15.4
21...	1230	--	600	--	--	--	--	8.00	4.40	4.40	4.40	30.0	30.0
29...	1030	--	3400	--	--	--	--	3.60	2.90	2.90	2.90	4.90	4.90
29...	1100	--	600	--	--	--	--	1.10	1.40	1.40	1.40	1.80	1.80
29...	1300	--	3400	--	--	--	--	2.40	1.60	1.60	1.60	3.20	3.20
29...	1335	--	600	--	--	--	--	1.20	1.00	1.00	1.00	1.70	1.70
FEB													
04...	1320	--	3400	--	--	--	--	2.30	1.10	1.10	1.10	2.80	2.80
04...	1340	--	600	--	--	--	--	2.20	1.10	1.10	1.10	2.70	2.70
06...	1120	--	3400	--	--	--	--	2.30	.800	.800	.800	2.60	2.60
06...	1145	--	600	--	--	--	--	1.00	.800	.800	.800	1.40	1.40

## APPENDIX D-2

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

## WATER QUALITY DATA. WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM LI BANK) (00009)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (U8/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (U8/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (U8/L) (32217)
FEB					
11...	1025	3400	2.30	.600	2.60
11...	1040	600	.600	.500	.800
11...	1355	3400	1.40	.700	1.70
11...	1420	600	.900	.400	1.10
20...	1300	3400	3.90	1.00	4.40
20...	1330	600	1.10	.900	1.60
28...	1040	3400	8.40	3.00	9.80
28...	1115	600	6.90	3.00	8.30
MAR					
06...	1100	3400	7.50	4.60	9.60
06...	1120	600	3.60	1.50	4.30
06...	1415	3400	6.80	2.30	7.90
06...	1435	600	2.90	1.30	3.50
10...	1115	3400	10.7	3.40	12.2
10...	1135	600	3.60	1.90	4.50
10...	1420	3400	11.1	3.00	12.4
10...	1445	600	5.10	2.10	6.00
17...	0920	3400	11.6	5.10	13.9
17...	0945	600	--	--	7.90
17...	1230	600	3.20	2.40	4.20
17...	1250	3400	12.7	4.50	14.7
22...	1310	3400	56.6	23.8	67.3
22...	1345	600	17.6	10.7	22.5
25...	1045	3400	13.5	7.60	17.0
25...	1105	600	7.30	5.10	9.60
27...	1630	3400	30.0	4.80	31.9
27...	1710	600	5.00	2.50	6.10
31...	1130	3400	14.0	7.60	17.5
31...	1150	600	7.70	3.70	9.40
31...	1515	3400	14.1	6.90	17.2
31...	1550	600	5.50	3.20	7.00
APR					
03...	0950	3400	12.8	6.60	15.8
03...	1010	600	8.60	4.90	10.9
03...	1250	3400	18.8	9.40	23.1
03...	1315	600	6.00	4.40	8.10
07...	1300	3400	13.1	4.40	15.0
07...	1335	600	5.00	3.20	6.40
09...	1145	3400	15.0	4.80	17.1
14...	1345	3400	7.20	7.60	10.8
14...	1410	600	6.60	5.50	9.20

## APPENDIX D-2

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

## WATER QUALITY DATA WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING DEPTH (FT)	LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCTI- VITY (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)	(00003)	(00009)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
APR												
14...	1550	--	--	3400	--	--	--	--	--	5.40	6.30	8.40
1610		--	--	600	--	--	--	--	--	5.70	5.80	8.40
18...	1100	--	--	3400	--	--	--	--	--	3.60	4.00	5.50
18...	1125	--	--	600	--	--	--	--	--	1.900	1.20	1.50
18...	1500	--	--	3400	--	--	--	--	--	1.50	1.70	2.30
18...	1530	--	--	500	--	--	--	--	--	2.20	3.80	4.00
21...	1000	--	--	3400	--	--	--	--	--	4.70	4.60	6.80
21...	1025	--	--	600	--	--	--	--	--	2.80	3.10	4.20
21...	1400	--	--	3400	--	--	--	--	--	3.10	2.40	4.30
21...	1425	--	--	600	--	--	--	--	--	3.00	3.20	4.60
22...	0940	--	--	3400	--	--	--	--	--	6.20	4.60	8.30
22...	0941	20	--	3400	194	7.1	14.8	24.0	9.3	4.40	3.80	6.20
22...	0942	3.0	--	3400	193	7.1	15.0	--	9.3	3.90	2.70	5.20
22...	1030	--	--	600	--	--	--	--	--	3.20	2.80	4.50
22...	1031	12	--	500	263	6.6	15.8	22.0	8.6	--	--	--
22...	1032	3.0	--	600	241	6.7	15.7	--	8.5	3.60	2.50	4.80
23...	0610	--	--	3400	--	--	--	--	--	6.50	4.20	8.50
23...	0635	--	--	500	--	--	--	--	--	3.50	3.00	4.90
23...	1200	--	--	3400	--	--	--	--	--	16.2	7.40	19.6
29...	1225	--	--	600	--	--	--	--	--	2.30	1.80	3.10
29...	1545	--	--	3400	--	--	--	--	--	17.5	4.70	19.5
29...	1635	--	--	600	--	--	--	--	--	8.70	3.70	10.3
30...	1030	--	--	3400	--	--	--	--	--	15.0	8.20	18.8
30...	1105	--	--	500	--	--	--	--	--	7.70	4.40	9.80
MAY												
02...	0700	--	--	3400	--	--	--	--	--	5.10	6.00	7.90
02...	0730	--	--	600	--	--	--	--	--	4.20	4.70	6.40
06...	0800	--	--	3400	--	--	--	--	--	3.00	3.00	4.50
06...	0801	24	--	3400	155	7.1	17.1	18.0	8.2	--	--	--
06...	0802	10	--	3400	155	7.1	17.1	--	8.2	--	--	--
06...	0803	3.0	--	3400	156	7.0	17.1	--	8.2	--	--	--
06...	0810	--	--	600	--	--	--	--	--	1.90	2.30	3.00
06...	0811	11	--	500	185	6.8	16.8	18.0	7.8	--	--	--
06...	0812	3.0	--	600	223	6.6	17.1	--	7.2	--	--	--
06...	1030	--	--	600	--	--	--	--	--	1.40	1.90	2.30
06...	1031	14	--	500	223	6.5	18.1	18.0	6.9	--	--	--
06...	1032	3.0	--	500	229	6.5	18.5	--	6.8	--	--	--
06...	1035	--	--	3400	--	--	--	--	--	2.60	2.50	3.80
06...	1036	28	--	3400	160	6.9	17.4	18.0	8.2	--	--	--
06...	1037	10	--	3400	161	6.9	17.4	--	8.2	--	--	--

## APPENDIX D-2

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

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 CORR, (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
MAY											
06...	1038	3.0	3400	161	7.0	17.8	--	8.2	--	--	--
08...	1855	11	500	282	6.7	17.8	24.0	7.4	--	--	--
08...	1856	3.0	500	242	6.8	18.0	--	7.7	--	--	--
08...	1900	--	500	--	--	--	--	--	2.90	2.40	4.00
08...	1901	26	3400	187	7.5	17.9	24.0	8.6	--	--	--
08...	1902	10	3400	187	7.5	17.9	--	8.8	--	--	--
08...	1903	3.0	3400	187	7.5	17.9	--	8.8	--	--	--
08...	1910	--	3400	--	--	--	--	--	6.50	3.20	7.90
12...	1050	10	500	297	6.3	18.5	28.0	6.7	--	--	--
12...	1051	5.0	500	293	6.4	18.4	--	7.0	--	--	--
12...	1052	3.0	500	290	6.6	18.4	--	7.6	--	--	--
12...	1053	1.0	500	213	7.2	18.9	--	9.0	--	--	--
12...	1055	--	500	--	--	--	--	--	12.5	2.70	13.6
12...	1100	--	3400	--	--	--	--	--	22.8	4.40	24.6
12...	1101	27	3400	208	7.3	18.2	28.0	8.9	--	--	--
12...	1102	10	3400	207	7.4	18.3	--	9.0	--	--	--
12...	1103	3.0	3400	208	7.4	18.5	--	8.9	--	--	--
12...	1425	--	500	--	--	--	--	--	13.0	2.20	13.9
12...	1426	7.0	500	301	6.7	19.5	28.0	6.6	--	--	--
12...	1427	5.0	500	294	6.7	19.5	--	6.5	--	--	--
12...	1428	3.0	500	264	6.8	20.0	--	7.1	--	--	--
12...	1429	1.0	500	246	7.2	21.8	--	7.5	--	--	--
12...	1430	--	3400	--	--	--	--	--	27.5	3.50	28.8
12...	1431	25	3400	215	7.7	18.3	24.0	9.1	--	--	--
12...	1432	15	3400	216	7.8	18.4	--	9.2	--	--	--
12...	1433	3.0	3400	217	8.0	19.0	--	9.7	--	--	--
15...	0650	--	3400	--	--	--	--	--	33.8	12.8	39.6
15...	0720	--	500	--	--	--	--	--	33.9	13.1	39.8
19...	0945	--	3400	--	--	--	--	--	50.0	14.6	56.4
19...	0946	28	3400	247	8.5	20.5	30.0	8.0	52.8	18.6	61.0
19...	0947	3.0	3400	247	8.5	20.6	--	8.5	56.0	13.0	61.5
19...	1005	--	500	--	--	--	--	--	39.5	12.4	45.0
19...	1006	10	500	293	7.4	20.6	18.0	6.8	39.5	11.5	44.5
19...	1007	3.0	500	290	7.4	20.6	--	7.0	39.6	10.2	44.0
22...	0640	--	3400	--	--	--	--	--	46.6	15.2	53.3
22...	0645	--	500	--	--	--	--	--	35.0	9.80	39.2
22...	1030	--	3400	--	--	--	--	--	42.0	16.2	49.2
28...	1710	--	500	--	--	--	--	--	12.8	4.60	14.9
28...	1715	--	3400	--	--	--	--	--	7.20	4.30	9.20



## APPENDIX D-2

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

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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											
28...	2010	--	600	--	--	--	--	--	15.5	2.50	16.5
28...	2015	--	3400	--	--	--	--	--	5.90	3.00	7.20
30...	1300	--	600	--	--	--	--	--	12.2	4.60	14.3
30...	1301	3.0	3400	178	7.0	22.5	--	7.6	--	--	--
30...	1302	15	3400	181	7.0	21.4	--	7.7	--	--	--
30...	1303	30	3400	182	7.0	15.6	--	7.6	--	--	--
30...	1310	--	3400	--	--	--	--	--	11.1	6.30	14.0
30...	1321	3.0	600	182	7.0	23.0	--	7.4	--	--	--
30...	1322	10	600	258	6.5	22.1	--	6.8	--	--	--
JUN											
02...	1505	12	600	--	--	--	--	--	31.5	10.7	36.2
02...	1506	--	600	--	--	--	--	--	27.5	7.50	30.8
02...	1507	3.0	600	--	--	--	--	--	31.5	5.60	33.8
02...	1510	3.0	3400	--	--	--	--	--	51.0	6.70	53.5
02...	1511	36	3400	--	--	--	--	--	35.0	33.0	50.5
02...	1512	--	3400	--	--	--	--	--	38.0	7.80	41.2
02...	1810	3.0	600	--	--	--	--	--	43.5	10.6	48.0
02...	1850	3.0	3400	--	--	--	--	--	39.7	7.70	42.8
02...	1851	36	3400	--	--	--	--	--	30.6	7.80	33.9
05...	1050	--	600	--	--	--	--	--	25.5	12.1	31.0
05...	1100	--	3400	--	--	--	--	--	16.6	15.4	23.8
09...	1830	--	600	--	--	--	--	--	48.0	16.9	55.5
09...	1900	--	3400	--	--	--	--	--	39.5	17.2	47.3
17...	1725	--	300	--	--	--	--	--	20.9	10.8	25.8
17...	1726	2.0	300	320	7.2	24.7	20.0	7.2	23.8	13.2	29.8
17...	1727	6.0	300	325	7.1	24.3	--	6.7	24.3	13.7	30.6
17...	1728	10	300	333	7.0	24.1	--	6.4	15.4	14.1	22.0
17...	1750	3.0	3100	266	8.1	24.6	20.0	8.8	39.2	14.6	45.8
17...	1751	11	3100	271	7.9	24.0	--	7.5	31.3	16.8	39.0
17...	1752	21	3100	273	7.7	23.7	--	6.7	28.3	18.4	36.9
17...	1800	2.0	3800	269	8.0	24.4	19.0	8.4	34.4	15.1	41.2
17...	1801	5.0	3800	269	8.0	24.2	--	8.0	33.5	18.7	42.1
17...	1802	14	3800	270	7.9	24.0	--	7.4	30.9	16.9	38.7
17...	1803	24	3800	272	7.7	23.8	--	6.9	30.0	17.8	38.2
17...	1805	--	40000	--	--	--	--	--	31.6	16.8	39.3
19...	1730	30	3800	266	7.4	23.1	--	6.9	--	--	--
19...	1731	10	3800	266	7.6	23.9	--	7.5	--	--	--
19...	1732	3.0	3800	265	7.9	24.1	--	8.1	--	--	--
19...	1735	30	3100	272	7.4	23.0	--	7.2	--	--	--
19...	1736	10	3100	270	7.4	23.1	--	7.3	--	--	--

APPENDIX D-2  
01652590 - POTOMAC R AT ALEXANDRIA, VA. --- Cont.

WATER QUALITY DATA WATER YEAR YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
JUN	1737	3.0	--	3100	--	270	--	7.6	--	23.5	--	--	--	7.9	--	--	--	--	--	--	
19...	1740	--	--	4000	--	--	--	--	--	--	--	--	--	--	--	28.5	--	15.8	--	35.8	
19...	1750	--	--	3000	--	--	--	--	--	--	--	--	--	--	--	31.0	--	13.3	--	37.0	
19...	1751	10	--	300	--	357	--	6.8	--	24.3	--	--	--	6.4	--	--	--	--	--	--	
19...	1752	3.0	--	300	--	342	--	7.0	--	24.6	--	--	--	7.1	--	--	--	--	--	--	
19...	1755	11	--	1000	--	338	--	6.9	--	24.3	--	--	--	6.5	--	--	--	--	--	--	
19...	1756	3.0	--	1000	--	335	--	7.0	--	24.5	--	--	--	7.2	--	--	--	--	--	--	
19...	2110	27	--	3100	--	276	--	8.0	--	22.5	--	--	--	8.6	--	--	--	--	--	--	
19...	2111	10	--	3100	--	276	--	8.2	--	23.1	--	--	--	9.1	--	--	--	--	--	--	
19...	2112	3.0	--	3100	--	274	--	8.2	--	23.3	--	--	--	9.1	--	--	--	--	--	--	
19...	2115	--	--	4000	--	--	--	--	--	--	--	--	--	--	--	38.0	--	15.5	--	45.0	
19...	2120	32	--	3800	--	276	--	7.9	--	22.6	--	--	--	8.3	--	--	--	--	--	--	
19...	2121	10	--	3800	--	278	--	8.1	--	22.9	--	--	--	8.9	--	--	--	--	--	--	
19...	2122	3.0	--	3800	--	278	--	7.2	--	23.0	--	--	--	9.1	--	--	--	--	--	--	
19...	2130	--	--	3000	--	--	--	--	--	--	--	--	--	--	--	65.0	--	25.6	--	76.5	
19...	2131	9.0	--	300	--	347	--	7.2	--	23.9	--	--	--	7.6	--	--	--	--	--	--	
19...	2132	3.0	--	300	--	338	--	7.3	--	24.0	--	--	--	8.2	--	--	--	--	--	--	
19...	2141	9.0	--	1000	--	350	--	7.1	--	23.9	--	--	--	6.9	--	--	--	--	--	--	
19...	2142	3.0	--	1000	--	332	--	7.6	--	24.1	--	--	--	8.4	--	--	--	--	--	--	
23...	1730	--	--	500	--	--	--	--	--	--	--	--	--	--	--	75.5	--	20.0	--	84.0	
23...	1740	--	--	3400	--	--	--	--	--	--	--	--	--	--	--	43.5	--	24.0	--	54.5	
27...	1315	11	--	300	--	364	--	6.9	--	25.5	--	22.0	--	5.6	--	24.4	--	14.2	--	30.9	
27...	1316	6.0	--	300	--	352	--	6.9	--	24.4	--	--	--	5.9	--	33.2	--	20.3	--	42.6	
27...	1317	2.0	--	300	--	335	--	7.2	--	26.3	--	--	--	6.9	--	35.3	--	16.5	--	42.8	
27...	1320	2.0	--	1000	--	317	--	7.4	--	26.8	--	22.0	--	7.1	--	31.1	--	17.5	--	39.2	
27...	1325	--	--	3000	--	--	--	--	--	--	--	--	--	--	--	31.7	--	17.0	--	39.4	
27...	1336	21	--	3100	--	319	--	7.1	--	25.3	--	24.0	--	5.4	--	23.0	--	24.9	--	34.8	
27...	1337	11	--	3100	--	316	--	7.2	--	25.5	--	--	--	5.7	--	24.3	--	21.2	--	34.2	
27...	1338	3.0	--	3100	--	315	--	7.4	--	26.4	--	--	--	6.9	--	29.6	--	17.2	--	37.5	
27...	1400	--	--	4000	--	--	--	--	--	--	--	--	--	--	--	23.6	--	21.0	--	33.4	
27...	1405	24	--	3800	--	315	--	7.3	--	25.3	--	24.0	--	5.9	--	25.0	--	23.7	--	36.1	
27...	1406	14	--	3800	--	312	--	7.3	--	25.4	--	--	--	6.2	--	25.2	--	21.2	--	35.1	
27...	1407	5.0	--	3800	--	310	--	7.4	--	25.6	--	--	--	6.4	--	27.0	--	19.4	--	36.0	
27...	1408	2.0	--	3800	--	311	--	7.5	--	25.8	--	--	--	6.7	--	28.1	--	17.3	--	36.0	
30...	1450	--	--	3400	--	--	--	--	--	--	--	--	--	--	--	26.0	--	19.8	--	35.2	
30...	1510	--	--	500	--	--	--	--	--	--	--	--	--	--	--	26.0	--	16.2	--	33.5	
30...	1530	3.0	--	600	--	338	--	6.6	--	26.9	--	--	--	5.5	--	--	--	--	--	--	
30...	1531	10	--	600	--	341	--	6.7	--	26.9	--	--	--	5.4	--	--	--	--	--	--	
30...	1545	3.0	--	3400	--	293	--	6.9	--	26.8	--	--	--	6.2	--	--	--	--	--	--	

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

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCTI- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A METRIC METHOD (UG/L)	CHLORO- PHYLLA METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUN	1546	15	3400	295	6.9	26.9	---	8.4	---	---	---
30...	1547	28	3400	294	6.9	26.9	---	6.2	---	---	---
JUL	1500	11	300	331	6.8	26.8	30.0	5.7	15.7	15.6	23.0
04...	1501	6.0	300	331	6.9	26.8	---	5.8	15.4	14.0	21.9
04...	1502	2.0	300	332	6.9	27.3	---	6.2	---	---	---
04...	1515	2.0	1000	335	6.9	27.8	23.0	6.1	---	---	---
04...	1525	---	30000	---	---	---	---	---	19.3	12.9	25.3
04...	1540	24	3800	306	6.8	26.9	30.0	5.2	11.1	13.0	17.3
04...	1541	14	3900	308	6.8	27.0	---	5.4	13.4	12.9	19.4
04...	1542	5.0	3800	310	6.9	27.6	---	5.9	20.3	10.2	24.9
04...	1555	21	3100	301	6.8	27.1	---	5.1	10.1	12.8	16.2
04...	1556	11	3100	299	6.8	27.0	---	5.2	10.8	13.4	17.1
04...	1557	3.0	3100	299	6.9	27.8	---	5.5	14.1	14.1	20.8
04...	1600	---	40000	---	---	---	---	---	12.6	14.6	19.5
07...	1215	---	3400	---	---	---	---	---	16.0	20.0	25.5
07...	1216	28	3400	302	6.9	26.5	46.0	5.1	---	---	---
07...	1217	15	3400	299	6.9	26.7	---	5.4	---	---	---
07...	1218	3.0	3400	300	7.0	27.5	---	5.8	---	---	---
07...	1235	12	600	336	6.8	26.3	31.0	5.4	---	---	---
07...	1236	7.0	600	338	6.7	26.4	---	5.3	---	---	---
07...	1237	3.0	600	318	7.1	27.4	---	7.0	---	---	---
07...	1240	---	600	---	---	---	---	---	---	---	---
09...	1350	---	30000	---	---	---	---	---	21.5	13.5	27.8
09...	1355	9.0	300	335	6.4	26.4	---	---	12.8	11.7	18.3
09...	1356	6.0	300	325	6.4	26.6	24.0	4.4	9.80	15.5	17.2
09...	1357	2.0	300	323	6.6	27.9	---	5.4	16.3	11.5	21.6
09...	1400	2.0	1000	323	6.6	28.3	21.0	5.4	12.4	9.00	16.5
09...	1420	21	3100	304	6.6	26.6	18.0	3.8	10.4	10.4	15.2
09...	1421	11	3100	306	6.6	26.4	---	4.3	10.6	18.9	19.6
09...	1422	3.0	3100	299	6.6	26.4	---	5.4	11.8	17.4	20.1
09...	1430	---	40000	---	---	27.5	---	---	12.3	11.5	17.7
09...	1440	24	3900	303	6.7	26.1	18.0	---	10.2	19.2	19.4
09...	1441	14	3800	302	6.7	26.1	---	4.3	9.80	22.0	20.4
09...	1442	5.0	3800	302	6.7	26.3	---	4.6	12.0	15.8	19.5
09...	1443	2.0	3800	301	6.6	26.9	---	5.0	10.3	20.1	19.9
10...	1110	3.0	600	333	6.5	26.8	25.0	5.0	12.0	16.7	19.9
10...	1111	6.0	600	338	6.5	26.8	---	3.9	---	---	---
10...	1112	10	600	342	6.4	26.7	---	3.9	---	---	---
10...	1115	---	600	---	---	26.7	---	---	11.1	10.8	16.2

## APPENDIX D-2

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

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	SAMP- 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- PHYLLA FLUORO- METRIC 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)
JUL											
10...	1209	28	3400	314	6.6	26.8	---	3.6	---	---	---
10...	1210	15	3400	314	6.6	26.9	24.0	3.7	---	---	---
10...	1211	2.0	3400	314	6.6	27.0	---	3.9	---	---	---
10...	1215	---	3400	---	---	---	---	---	9.50	17.8	18.0
15...	1831	27	3400	376	7.2	27.9	---	7.2	---	---	---
15...	1832	15	3400	378	7.4	28.0	18.0	8.0	---	---	---
15...	1833	7.0	3400	375	7.7	28.5	---	8.9	---	---	---
15...	1834	5.0	3400	375	7.6	29.1	---	9.5	---	---	---
15...	1850	10	500	366	7.6	29.2	17.0	8.0	---	---	---
15...	1851	7.0	500	364	7.2	29.2	---	8.2	---	---	---
15...	1852	3.0	600	359	7.2	29.3	---	8.4	---	---	---
16...	1320	12	300	374	6.9	28.5	24.0	7.2	50.3	33.2	65.7
16...	1321	6.0	300	370	7.1	28.7	---	7.7	63.0	27.6	75.5
16...	1322	3.0	300	370	7.4	29.1	---	9.2	83.3	19.7	91.7
16...	1323	1.0	300	355	7.8	29.7	---	10.4	89.5	16.9	96.5
16...	1341	1.0	1000	356	7.9	30.1	---	10.5	74.4	19.4	82.8
16...	1342	6.0	1000	---	---	---	---	---	42.2	24.4	53.4
16...	1354	33	3100	375	6.8	28.8	25.0	6.2	32.4	40.8	51.7
16...	1355	11	3100	370	6.8	28.5	---	6.2	35.2	25.8	47.2
16...	1356	5.0	3100	370	6.9	28.5	---	7.0	36.4	26.4	48.6
16...	1357	1.0	3100	370	6.8	29.0	---	7.5	39.7	18.4	48.1
16...	1405	25	3800	370	6.7	28.4	30.0	6.2	25.6	30.8	40.1
16...	1406	14	3800	368	6.8	28.3	---	6.4	28.3	30.0	42.5
16...	1407	6.0	3800	374	7.0	28.6	---	7.2	---	---	---
16...	1408	1.0	3800	372	7.2	28.8	---	7.8	47.2	23.0	57.8
16...	1415	---	4000	---	---	---	---	---	32.2	28.0	45.4
21...	1330	---	3400	---	---	---	---	---	28.5	18.4	37.0
21...	1331	28	3400	340	6.6	31.4	---	3.1	---	---	---
21...	1332	10	3400	340	6.6	31.2	---	4.2	---	---	---
21...	1333	3.0	3400	335	6.6	31.7	---	---	---	---	---
21...	1340	---	500	---	---	---	---	---	69.0	19.6	77.5
21...	1345	10	500	368	6.8	31.1	---	5.9	---	---	---
21...	1346	3.0	600	364	7.2	31.5	---	7.3	---	---	---
23...	0550	11	300	347	6.6	29.5	20.0	5.3	39.0	23.8	50.0
23...	0551	6.0	300	350	6.7	29.4	---	5.4	38.6	20.6	48.0
23...	0552	1.0	300	348	6.7	29.4	---	5.4	38.2	23.6	49.1
23...	0600	---	3000	---	---	---	---	---	33.4	22.9	44.0
23...	0605	1.0	1000	332	6.6	28.3	19.0	6.0	22.9	20.9	32.7
23...	0620	25	3100	328	6.5	29.4	24.0	4.8	26.0	22.9	36.8

## APPENDIX D-2

01552590 - POTOMAC R AT ALEXANDRIA, VA. -- Cont.

## WATER QUALITY DATA. WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

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 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)
JUL											
23...	0621	11	3100	326	6.5	29.4	---	4.9	23.6	18.0	32.0
23...	0622	1.0	3100	325	6.5	29.4	---	4.9	23.2	18.6	31.9
23...	0630	---	40000	---	---	---	---	---	24.0	20.3	33.5
23...	0635	27	3800	318	6.5	29.4	23.0	4.5	18.0	19.5	27.2
23...	0636	14	3800	320	6.5	29.4	---	4.6	18.1	16.0	25.6
23...	0637	5.0	3800	322	6.5	29.4	---	4.6	---	---	---
23...	0638	1.0	3800	---	---	---	---	---	19.0	15.6	26.2
23...	1635	11	300	333	6.6	28.8	24.0	5.2	---	---	---
23...	1636	6.0	300	335	6.7	29.0	---	6.1	---	---	---
23...	1637	1.0	300	335	6.7	29.0	---	6.1	---	---	---
23...	1640	1.0	1000	337	6.6	29.1	18.0	5.5	---	---	---
23...	1645	---	30000	---	---	---	---	---	47.8	19.8	56.7
23...	1710	29	3900	309	6.3	29.1	27.0	4.0	---	---	---
23...	1711	14	3800	314	6.4	29.3	---	3.6	---	---	---
23...	1712	1.0	3800	309	6.3	29.3	---	3.7	---	---	---
23...	1720	---	40000	---	---	---	---	---	18.2	17.8	26.6
23...	1800	27	3100	320	6.4	29.1	24.0	3.6	---	---	---
23...	1801	11	3100	329	6.5	29.4	---	3.5	---	---	---
23...	1802	1.0	3100	329	6.5	29.4	---	3.7	---	---	---
30...	0610	---	30000	---	---	---	---	---	28.4	14.1	34.8
30...	0701	---	40000	---	---	---	---	---	18.2	19.3	27.4
30...	0730	1.0	300	---	---	---	---	---	33.2	15.0	40.0
30...	0732	6.0	300	---	---	---	---	---	35.3	14.5	41.8
30...	0734	10	300	---	---	---	---	---	40.4	16.1	47.6
30...	0810	21	3100	300	6.7	28.1	24.0	5.6	20.2	23.0	31.1
30...	0811	11	3100	298	6.7	28.2	---	5.7	18.2	15.7	25.6
30...	0812	1.0	3100	293	6.7	28.2	---	5.8	16.9	12.8	22.9
30...	0820	27	3800	287	6.6	27.8	24.0	5.8	15.5	14.9	22.5
30...	0821	14	3800	290	6.6	28.0	---	5.7	16.2	17.0	24.2
30...	0822	1.0	3800	294	6.6	28.2	---	5.8	16.9	15.0	23.9
30...	1615	11	300	328	6.7	29.4	24.0	6.9	---	---	---
30...	1616	6.0	300	327	6.8	29.6	---	7.2	---	---	---
30...	1617	1.0	300	326	6.9	29.5	---	7.1	---	---	---
30...	1620	1.0	1000	301	6.8	30.3	---	7.5	---	---	---
30...	1625	---	30000	---	---	---	---	---	39.7	13.9	45.9
30...	1705	28	3800	317	6.8	29.0	30.0	6.6	---	---	---
30...	1706	14	3800	317	6.9	28.9	---	6.7	---	---	---
30...	1707	1.0	3800	314	7.0	29.0	---	7.1	---	---	---
30...	1715	---	40000	---	---	---	---	---	30.4	19.7	39.5

APPENDIX D-2  
01652590 - POTOMAC R AT ALEXANDRIA, VA. -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING 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- 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	1716	24	3100	320	6.7	28.6	22.0	6.3	--	--	--
30...	1717	11	3100	320	6.7	28.7	--	6.4	--	--	--
30...	1718	1.0	3100	320	6.9	28.7	--	7.0	--	--	--
AUG	0600	10	300	368	6.9	28.1	20.0	6.8	--	--	--
04...	0601	6.0	300	372	6.9	28.0	--	6.9	--	--	--
04...	0602	1.0	300	375	6.9	27.9	--	6.9	--	--	--
04...	0605	1.0	1000	330	6.9	27.8	19.0	6.9	--	--	--
04...	0610	--	30000	--	--	--	--	--	28.6	11.3	33.7
04...	0630	23	3100	329	6.9	28.6	23.0	6.2	--	--	--
04...	0631	14	3100	329	6.9	28.8	--	6.2	--	--	--
04...	0632	1.0	3100	327	6.9	28.9	--	6.3	--	--	--
04...	0640	--	40000	--	--	--	--	--	21.8	18.4	30.4
04...	0641	23	3800	334	6.8	28.6	23.0	6.0	--	--	--
04...	0642	14	3800	333	6.8	28.8	--	6.0	--	--	--
04...	0643	1.0	3800	331	6.9	28.6	--	6.2	--	--	--
04...	1611	10	300	348	7.0	29.3	20.0	6.9	--	--	--
04...	1612	7.0	300	335	7.1	29.3	--	7.7	--	--	--
04...	1613	3.0	300	332	7.0	29.9	--	9.9	--	--	--
04...	1625	3.0	1000	332	7.6	30.5	18.0	10.0	--	--	--
04...	1630	--	30000	--	--	--	--	--	79.0	11.6	83.5
04...	1700	7.0	3100	323	6.9	29.8	22.0	6.2	--	--	--
04...	1701	3.0	3100	323	7.0	30.2	--	6.9	--	--	--
04...	1705	23	3800	324	6.7	29.1	18.0	4.3	--	--	--
04...	1706	12	3800	320	6.7	29.2	--	4.5	--	--	--
04...	1707	3.0	3800	316	6.7	29.6	--	5.6	--	--	--
04...	1730	--	40000	--	--	--	--	--	33.0	12.8	38.8
05...	0530	12	300	364	7.1	28.9	18.0	7.3	--	--	--
05...	0531	6.0	300	363	7.1	29.1	--	7.3	--	--	--
05...	0532	1.0	300	363	7.1	29.0	--	7.4	--	--	--
05...	0540	1.0	1000	359	7.0	28.6	22.0	7.3	--	--	--
05...	0545	--	30000	--	--	--	--	--	48.1	7.50	51.1
05...	0555	25	3100	341	6.8	29.0	24.0	6.8	--	--	--
05...	0556	11	3100	338	6.8	29.2	--	6.7	--	--	--
05...	0557	1.0	3100	336	6.8	29.1	--	6.6	--	--	--
05...	0600	--	40000	--	--	--	--	--	18.2	11.2	23.4
05...	0605	23	3800	335	6.7	29.2	24.0	6.5	--	--	--
05...	0606	14	3800	335	6.7	29.3	--	6.4	--	--	--
05...	0607	1.0	3800	338	6.8	29.5	--	6.5	--	--	--
05...	1615	--	30000	--	--	--	--	--	56.5	13.5	62.2

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

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING DEPTH (FT)	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)	CHLRO- PHYLL A FLURO- METRIC METHOD CORR. (UG/L)	PHEOPHY -TIN A FLURO- METRIC METHOD (UG/L)	CHLRO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00005)	(00059)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG												
05...	1616	11	300	346	6.9	29.7	25.0	6.9	6.9	---	---	---
05...	1617	6.0	300	346	6.9	29.8	---	6.9	6.9	---	---	---
05...	1618	1.0	300	344	6.9	29.8	---	---	7.1	---	---	---
05...	1620	1.0	1000	346	7.0	29.7	24.0	7.2	7.2	---	---	---
05...	1635	25	3100	324	6.6	29.5	24.0	6.5	6.5	---	---	---
05...	1636	11	3100	315	6.6	29.7	---	6.6	6.6	---	---	---
05...	1637	1.0	3100	325	6.7	30.0	---	7.1	7.1	---	---	---
05...	1640	31	3800	338	6.5	29.4	24.0	6.4	6.4	---	---	---
05...	1641	14	3800	326	6.6	29.6	---	6.4	6.4	---	---	---
05...	1642	1.0	3800	320	6.6	29.8	---	6.4	6.4	---	---	---
05...	1645	---	40000	---	---	---	---	---	---	---	---	---
06...	0545	---	30000	---	---	---	---	---	---	---	---	---
06...	0546	11	300	345	7.0	28.3	18.0	---	---	28.4	12.3	34.0
06...	0547	6.0	300	344	6.9	29.0	---	---	---	48.8	14.6	55.1
06...	0548	1.0	300	346	6.9	29.0	---	---	6.7	44.2	15.2	50.9
06...	0550	1.0	1000	346	7.0	28.5	---	---	6.8	43.1	15.4	50.0
06...	0600	27	3100	317	6.7	28.9	18.0	---	7.0	46.8	15.9	53.8
06...	0601	11	3100	310	6.6	29.0	23.0	---	6.3	51.9	12.4	57.2
06...	0602	1.0	3100	310	6.6	29.0	---	---	6.3	24.5	14.2	31.0
06...	0610	---	40000	---	---	---	---	---	6.3	19.6	10.1	24.2
06...	0611	23	3800	315	6.6	28.7	---	---	6.4	20.5	10.0	25.1
06...	0612	14	3800	314	6.6	28.9	28.0	---	6.4	19.9	9.80	24.3
06...	0613	1.0	3800	314	6.6	28.7	---	---	6.2	11.2	11.2	23.0
06...	1600	11	300	350	6.9	29.8	---	---	6.4	15.7	9.30	20.0
06...	1601	6.0	300	340	7.1	29.9	19.0	---	7.3	18.4	9.50	22.7
06...	1602	3.0	300	332	8.4	31.0	---	---	7.7	46.3	14.6	52.7
06...	1603	1.0	300	332	8.4	30.9	---	---	10.3	91.5	13.0	96.5
06...	1605	.5	300	---	---	---	---	---	10.1	153	16.9	159
06...	1610	---	30000	---	---	---	---	---	11.2	148	7.50	149
06...	1611	.5	1000	336	7.5	30.8	---	---	---	18.0	18.0	119
06...	1612	1.0	1000	---	---	---	---	---	---	87.5	15.5	93.8
06...	1613	4.0	1000	---	---	---	22.0	---	8.1	63.0	16.6	70.1
06...	1620	26	3100	320	6.8	30.5	---	---	---	121	18.6	128
06...	1621	11	3100	316	6.7	30.1	25.0	---	---	54.4	17.1	61.9
06...	1622	1.0	3100	313	6.7	30.2	---	---	6.8	32.3	15.2	39.2
06...	1623	.5	3100	---	---	---	---	---	7.0	37.1	10.9	41.8
06...	1625	26	3800	328	6.7	29.8	---	---	6.9	30.0	9.70	34.2
06...	1626	14	3800	327	6.8	29.8	25.0	---	---	30.0	9.80	34.3
06...	1627	1.0	3800	314	6.7	30.1	---	---	6.4	25.3	19.6	34.4
06...							---	---	6.3	23.7	17.7	31.9
06...							---	---	6.7	27.3	11.9	32.7

## APPENDIX D-2

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

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- 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- PHYLLA 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	1628	.5	3900	--	--	--	--	--	27.0	10.1	31.5
06...	1630	--	4000	--	--	--	--	--	33.5	15.8	40.7
07...	0615	12	300	341	6.7	29.3	25.0	6.9	--	--	--
07...	0616	6.0	300	341	6.7	29.5	--	6.9	--	--	--
07...	0617	1.0	300	337	6.6	29.5	--	6.8	--	--	--
07...	0630	--	3000	--	--	--	--	--	45.7	11.5	50.6
07...	0631	1.0	1000	344	6.7	29.5	23.0	6.8	--	--	--
07...	0640	24	3100	321	6.5	29.3	25.0	6.3	--	--	--
07...	0641	11	3100	312	6.4	29.5	--	6.3	--	--	--
07...	0642	1.0	3100	310	6.3	29.4	--	6.3	--	--	--
07...	0650	--	4000	--	--	--	--	--	16.8	10.2	21.6
07...	0651	26	3800	309	6.3	29.4	22.0	6.1	--	--	--
07...	0652	14	3800	305	6.3	29.5	--	6.1	--	--	--
07...	0653	1.0	3300	305	6.3	29.5	--	6.2	--	--	--
07...	1600	10	300	357	6.6	29.9	18.0	6.9	--	--	--
07...	1601	8.0	300	332	8.2	32.2	--	8.8	--	--	--
07...	1602	6.0	300	350	7.0	30.8	--	8.1	--	--	--
07...	1603	1.0	300	336	8.2	31.9	--	9.5	--	--	--
07...	1605	1.0	1000	356	6.8	30.7	18.0	7.2	--	--	--
07...	1610	--	3000	--	--	--	--	--	71.0	16.8	78.2
07...	1620	--	4000	--	--	--	--	--	33.8	12.9	39.6
07...	1621	25	3100	338	6.8	31.0	25.0	7.0	--	--	--
07...	1622	11	3100	328	6.7	31.3	--	7.1	--	--	--
07...	1623	1.0	3100	321	6.5	31.5	--	6.9	--	--	--
07...	1625	29	3800	345	6.6	30.6	23.0	6.1	--	--	--
07...	1626	14	3800	345	6.6	30.4	--	6.2	--	--	--
07...	1627	1.0	3900	342	6.7	30.5	--	6.3	--	--	--
08...	0545	12	300	333	7.0	29.7	22.0	5.0	--	--	--
08...	0546	6.0	300	338	7.0	29.9	--	5.3	--	--	--
08...	0547	1.0	300	340	7.0	29.7	--	5.2	--	--	--
08...	0555	1.0	1000	328	6.9	29.3	22.0	4.6	--	--	--
08...	0600	--	3000	--	--	--	--	--	30.8	13.0	36.7
08...	0601	29	3100	329	6.8	29.7	23.0	4.2	--	--	--
08...	0602	11	3100	306	6.8	29.8	--	4.2	--	--	--
08...	0603	1.0	3100	306	6.8	29.8	--	4.2	--	--	--
08...	0610	--	4000	--	--	--	--	--	22.8	15.8	30.2
08...	0611	23	3800	311	6.8	28.3	24.0	3.8	--	--	--
08...	0612	14	3900	311	6.8	29.8	--	3.7	--	--	--
08...	0613	1.0	3900	308	6.7	29.8	--	3.8	--	--	--



APPENDIX D-2  
01652590 - POTOMAC R AT ALEXANDRIA, VA. --- Cont.

WATER QUALITY DATA: WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT) (00003)	SAMPLE LCC- 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 CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG	1305	--	600	--	--	--	--	--	106	13.4	111
08...	1635	--	30000	--	--	--	--	--	79.1	15.5	85.4
08...	1640	23	3100	341	7.2	31.6	23.0	8.7	--	--	--
08...	1641	11	3100	338	7.3	31.7	--	9.5	--	--	--
08...	1642	1.0	3100	338	7.3	31.7	--	9.9	--	--	--
08...	1650	29	3900	344	7.4	30.7	14.0	4.6	--	--	--
08...	1651	14	3800	329	6.9	31.2	--	5.4	--	--	--
08...	1652	7.0	3800	316	6.9	31.9	--	8.3	--	--	--
08...	1653	1.0	3800	307	7.1	32.4	--	11.0	--	--	--
08...	1700	--	40000	--	--	--	--	--	61.8	15.0	68.2
08...	1715	10	300	357	7.2	31.2	21.0	8.9	--	--	--
08...	1716	8.0	300	357	7.3	31.2	--	10.3	--	--	--
08...	1717	6.0	300	356	7.3	31.3	--	11.1	--	--	--
08...	1718	1.0	300	344	8.2	31.9	--	14.2	--	--	--
08...	1720	1.0	1000	357	7.1	30.7	18.0	8.6	--	--	--
11...	1715	11	300	363	6.8	30.9	19.0	7.9	--	--	--
11...	1716	6.0	300	362	6.9	31.2	--	9.0	--	--	--
11...	1717	1.0	300	357	6.9	31.2	--	9.3	--	--	--
11...	1725	1.0	1000	315	6.8	32.1	18.0	9.9	--	--	--
11...	1730	--	30000	--	--	--	--	--	68.8	13.0	74.1
11...	1745	24	3100	350	6.7	30.8	24.0	4.4	--	--	--
11...	1746	11	3100	344	6.8	31.0	--	5.6	--	--	--
11...	1749	1.0	3100	345	6.9	31.1	--	6.1	--	--	--
11...	1750	19	3800	345	6.5	30.5	12.0	4.2	--	--	--
11...	1751	14	3800	348	6.5	30.7	--	4.0	--	--	--
11...	1752	7.0	3900	343	6.6	30.8	--	5.0	--	--	--
11...	1753	1.0	3800	318	6.5	31.8	--	6.8	--	--	--
11...	1800	--	40000	--	--	--	--	--	40.5	10.4	45.0
13...	0555	10	300	358	7.3	29.2	21.0	5.0	48.4	12.4	53.7
13...	0556	6.0	300	354	7.3	29.3	--	5.4	51.4	15.3	58.1
13...	0557	3.0	300	347	7.3	29.3	--	5.4	59.0	16.7	66.3
13...	0558	1.0	300	348	7.3	29.3	--	5.2	58.2	11.1	62.7
13...	0600	--	30000	--	--	--	--	--	49.1	13.6	55.0
13...	0610	1.0	1000	361	7.3	28.5	24.0	4.3	32.7	11.8	38.0
13...	0630	23	3100	346	7.3	29.6	24.0	3.8	29.6	17.9	37.8
13...	0631	11	3100	345	7.3	29.7	--	3.5	28.2	16.1	35.6
13...	0632	3.0	3100	346	7.3	29.5	--	3.2	27.1	16.5	34.8
13...	0633	1.0	3100	347	7.3	29.5	--	3.2	25.2	14.2	31.7
13...	0640	--	40000	--	--	--	--	--	24.5	14.1	31.0

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR, OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING 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)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC CORRL (U8/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (U8/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD (U8/L)
(00003)	(00009)	(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG	0645	23	3800	338	7.2	29.2	---	3.0	21.3	16.1	28.8
13...	0646	14	3800	339	7.2	29.3	---	3.0	21.8	12.1	27.3
13...	0647	3.0	3800	340	7.2	29.4	---	2.9	21.1	13.8	27.5
13...	0648	1.0	3800	341	7.2	29.4	---	3.0	22.6	12.6	28.4
13...	1605	10	300	370	7.2	29.9	21.0	7.2	62.5	13.5	68.1
13...	1606	6.0	300	362	7.3	30.1	---	8.1	63.5	16.2	70.4
13...	1607	3.0	300	354	7.4	30.2	---	8.3	74.3	12.5	79.3
13...	1608	1.0	300	350	7.5	30.7	---	9.4	69.8	15.0	76.0
13...	1620	1.0	1000	341	7.3	31.1	---	8.4	47.7	11.4	52.5
13...	1625	---	30000	---	---	---	---	---	61.0	13.6	66.7
13...	1630	---	40000	---	---	---	---	---	42.6	11.1	47.4
13...	1635	22	3100	354	7.1	29.8	21.0	4.3	34.5	21.1	44.2
13...	1636	11	3100	350	7.2	29.8	---	4.5	27.9	14.2	34.4
13...	1637	3.0	3100	351	7.3	30.4	---	5.9	42.8	15.1	49.6
13...	1638	1.0	3100	350	7.3	30.5	---	6.1	46.6	15.2	53.3
13...	1639	6.0	3100	---	---	---	---	---	36.6	14.1	42.9
13...	1640	27	3800	349	7.2	30.0	21.0	5.3	38.6	15.4	45.6
13...	1641	14	3800	349	7.3	30.1	---	5.9	42.6	16.2	49.8
13...	1642	7.0	3800	350	7.3	30.1	---	6.1	46.9	12.0	52.0
13...	1643	3.0	3800	350	7.4	30.2	---	6.2	50.0	9.00	53.6
13...	1645	1.0	3800	350	7.4	30.3	---	6.6	50.4	16.3	57.6
19...	1255	12	600	351	6.6	26.1	34.0	4.9	---	---	---
19...	1256	8.0	600	351	6.6	26.1	---	4.9	---	---	---
19...	1257	3.0	500	350	6.6	26.2	---	5.2	---	---	---
19...	1300	---	500	---	---	---	---	---	39.2	11.1	44.0
19...	1320	27	3400	326	6.3	26.2	30.0	3.3	---	---	---
19...	1321	15	3400	328	6.3	26.2	---	3.4	---	---	---
19...	1322	3.0	3400	325	6.3	26.3	---	3.5	---	---	---
19...	1330	---	3400	---	---	---	---	---	10.3	10.8	15.4
20...	0652	11	300	431	7.0	25.9	18.0	5.1	17.2	8.00	20.8
20...	0656	5.0	300	396	7.0	25.9	---	4.7	15.0	10.2	19.8
20...	0657	1.0	300	402	7.1	25.9	---	4.6	16.6	10.6	21.5
20...	0700	1.0	1000	348	7.0	25.7	19.0	4.0	18.3	12.6	24.1
20...	0705	22	3100	341	7.0	26.1	20.0	3.6	13.9	12.0	19.6
20...	0706	11	3100	342	7.0	26.1	---	3.5	13.2	12.1	18.9
20...	0707	5.0	3100	342	7.1	26.1	---	3.6	13.5	11.2	18.8
20...	0708	1.0	3100	---	7.1	26.1	---	3.6	16.5	6.70	19.5
20...	0710	---	30000	---	---	---	---	---	17.0	10.3	21.8
20...	0715	---	40000	---	---	---	---	---	14.5	10.7	19.5

APPENDIX D-2  
01652590 - POTOMAC R AT ALEXANDRIA, VA. -- CONT.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
AUG 20...	0716	27	3800	341	7.0	26.2	22.0	3.7	13.9	12.0	19.6
20...	0717	14	3900	343	7.1	26.2	--	3.8	15.0	11.4	20.3
20...	0718	1.0	3900	343	7.1	26.2	--	3.8	14.4	9.00	18.6
20...	1645	12	300	360	7.0	26.3	25.0	5.7	38.2	15.8	45.4
20...	1646	6.0	300	360	7.0	26.3	--	5.8	43.9	11.1	48.6
20...	1647	3.0	300	359	7.0	26.3	--	5.6	40.0	8.30	43.5
20...	1648	1.0	300	360	7.0	26.3	--	5.6	43.1	6.80	45.8
20...	1650	--	30000	--	--	--	--	--	40.5	12.5	46.0
20...	1651	1.0	1000	355	7.0	26.2	24.0	5.4	36.8	13.5	42.8
20...	1705	25	3100	317	6.7	26.1	25.0	3.5	10.5	12.7	16.5
20...	1706	11	3100	325	6.8	26.3	--	3.9	10.9	11.6	16.4
20...	1707	6.0	3100	343	6.9	26.5	--	4.5	21.5	9.80	26.0
20...	1708	1.0	3100	357	7.0	26.5	--	5.5	32.0	8.30	35.5
20...	1715	--	40000	--	--	--	--	--	14.6	10.3	19.4
20...	1716	23	3800	323	6.7	26.1	25.0	3.4	10.0	11.1	15.2
20...	1717	14	3800	327	6.8	26.2	--	3.6	10.0	7.30	13.4
20...	1718	5.0	3800	329	6.8	26.3	--	4.0	14.1	7.70	17.6
20...	1719	1.0	3800	330	6.8	26.2	--	4.3	15.4	6.60	18.4
25...	1930	10	300	374	7.2	26.8	12.0	7.3	--	--	--
25...	1931	1.0	300	377	7.1	26.9	--	7.7	--	--	--
25...	1933	--	300	--	--	--	--	--	23.1	7.40	26.3
25...	1950	1.0	1000	365	7.0	26.8	--	6.8	--	--	--
25...	2005	10	3100	365	7.0	26.9	--	6.9	--	--	--
25...	2006	1.0	3100	354	7.0	26.8	--	7.0	--	--	--
25...	2015	--	40000	--	--	--	--	--	14.1	10.7	19.1
25...	2016	10	3800	351	6.9	26.8	--	5.9	--	--	--
25...	2017	1.0	3800	350	6.9	27.3	--	6.4	--	--	--
25...	2020	--	3800	--	--	--	--	--	9.70	7.60	13.2
28...	1240	10	300	433	6.9	27.6	23.0	6.5	--	--	--
28...	1241	1.0	300	406	7.0	27.7	--	7.4	--	--	--
28...	1245	--	30000	--	--	--	--	--	33.0	12.5	38.6
28...	1246	1.0	1000	440	7.0	28.1	23.0	7.2	--	--	--
28...	1300	--	40000	--	--	--	--	--	14.4	10.3	19.2
28...	1305	33	3100	398	6.8	27.0	23.0	5.2	--	--	--
28...	1306	18	3100	398	6.8	27.0	--	5.3	--	--	--
28...	1307	5.0	3100	400	6.9	27.7	--	6.0	--	--	--
28...	1308	3.0	3100	402	7.0	28.6	--	6.7	--	--	--
28...	1309	1.0	3100	405	7.0	29.5	--	6.9	--	--	--
28...	1315	24	3800	405	6.9	27.0	--	5.3	--	--	--

APPENDIX D-2

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

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	LOC- TION, CRDSS SECTION (FT FM L BANK)	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 CORR, (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG	1316	14	3800	405	6.9	27.1	---	5.3	---	---	---
28...	1317	3.0	3800	404	6.9	27.5	---	5.4	---	---	---
28...	1318	1.0	3800	411	7.0	28.4	---	6.0	---	---	---
SEP	1650	10	300	404	6.9	28.7	26.0	6.4	44.6	14.2	50.8
03...	1651	6.0	300	401	7.0	28.8	---	6.9	14.5	4.40	16.4
03...	1652	1.0	300	398	7.0	28.9	---	7.4	47.0	9.80	51.1
03...	1654	---	300	---	---	---	---	---	49.1	9.00	52.7
03...	1700	---	30000	---	---	---	---	---	54.2	9.60	58.1
03...	1704	---	1000	---	---	---	---	---	61.1	14.0	67.0
03...	1705	1.0	1000	396	7.4	29.1	31.0	8.6	52.8	16.4	60.0
03...	1720	---	3100	---	---	---	---	---	19.3	8.30	23.0
03...	1725	24	3100	370	6.7	28.6	24.0	4.2	9.10	13.5	15.5
03...	1726	11	3100	373	6.7	29.0	---	4.8	15.5	8.40	19.4
03...	1727	1.0	3100	384	6.8	29.2	---	6.1	31.4	8.70	35.1
03...	1730	---	40000	---	---	---	---	---	18.4	7.00	21.5
03...	1740	22	3800	366	6.7	28.9	31.0	4.3	9.50	10.4	14.4
03...	1741	14	3800	366	6.7	28.9	---	4.6	12.0	8.60	16.0
03...	1742	1.0	3800	371	6.8	29.1	---	4.7	23.9	9.10	28.0
03...	1745	---	3800	---	---	---	---	---	19.0	7.80	22.5
04...	1405	10	300	434	6.6	28.8	23.0	5.7	---	---	---
04...	1406	5.0	300	431	6.6	28.8	---	6.2	---	---	---
04...	1407	1.0	300	430	6.6	28.8	---	6.2	---	---	---
04...	1410	1.0	1000	435	6.6	28.6	23.0	5.4	---	---	---
04...	1420	---	30000	---	---	---	---	---	31.3	10.6	36.0
04...	1425	23	3100	410	6.5	29.1	30.0	4.6	---	---	---
04...	1426	13	3100	409	6.5	29.2	---	4.6	---	---	---
04...	1427	1.0	3100	408	6.4	29.0	---	4.6	---	---	---
04...	1430	---	40000	---	---	---	---	---	12.7	11.5	18.0
04...	1436	22	3800	409	6.4	28.7	---	3.9	---	---	---
04...	1437	12	3800	408	6.4	28.8	---	4.2	---	---	---
04...	1438	1.0	3800	402	6.4	29.5	---	5.4	---	---	---
08...	1200	9.0	300	402	6.5	27.4	30.0	5.5	---	---	---
08...	1201	3.0	300	380	6.5	27.6	---	5.6	---	---	---
08...	1205	2.0	1000	368	6.4	27.9	30.0	5.2	---	---	---
08...	1220	23	3100	367	6.4	27.7	32.0	4.1	---	---	---
08...	1221	12	3100	367	6.4	27.6	---	4.3	---	---	---
08...	1222	3.0	3100	359	6.6	28.3	---	5.7	---	---	---
08...	1235	24	3800	353	6.6	27.7	32.0	5.0	---	---	---
08...	1236	12	3900	353	6.6	27.8	---	5.1	---	---	---

APPENDIX D-2

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

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LOC- TION, 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- PHYLLA FLUORO- METRIC METHOD (U6/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (U6/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD (U6/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
SEP.	1237	3.0	3800	352	6.7	28.4	---	5.8	---	---	---
08...	1920	11	300	380	7.0	25.5	22.0	6.3	---	---	---
11...	1921	7.0	300	379	7.0	25.6	---	6.7	---	---	---
11...	1922	3.0	300	377	7.2	25.9	---	8.3	---	---	---
11...	1930	3.0	1000	384	6.9	25.5	---	6.5	---	---	---
11...	1935	22	3100	378	6.8	25.5	---	5.3	---	---	---
11...	1936	12	3100	363	6.9	25.8	---	5.5	---	---	---
11...	1937	3.0	3100	360	6.9	25.4	---	5.7	---	---	---
11...	1940	---	30000	---	---	---	---	---	43.3	9.60	47.3
11...	1945	31	3800	369	6.8	25.6	---	4.7	---	---	---
11...	1946	17	3800	359	6.7	25.7	---	4.9	---	---	---
11...	1947	3.0	3800	356	6.7	26.0	---	5.4	---	---	---
11...	2000	---	40000	---	---	---	---	---	---	---	---
15...	1459	24	3100	363	6.7	26.2	23.0	---	19.6	16.0	27.2
15...	1500	---	40000	---	---	---	---	4.5	10.0	11.1	15.2
15...	1501	11	3100	365	6.7	26.2	---	---	13.6	13.0	19.8
15...	1502	6.0	3100	365	6.7	26.3	---	4.7	10.8	11.4	16.2
15...	1503	1.0	3100	367	6.7	26.2	---	4.8	13.1	12.5	19.0
15...	1505	26	3800	364	6.8	26.5	---	4.8	15.0	8.80	19.1
15...	1506	14	3800	367	6.8	26.6	25.0	4.7	---	---	---
15...	1507	1.0	3800	368	6.9	27.0	---	5.0	---	---	---
15...	1510	---	3800	---	---	---	---	5.4	---	---	---
15...	1520	10	300	422	6.9	26.1	---	---	17.1	10.8	22.1
15...	1521	6.0	300	420	6.9	26.4	23.0	6.0	27.7	10.9	32.6
15...	1522	1.0	300	420	6.9	26.4	---	6.0	28.8	11.6	34.0
15...	1525	---	30000	---	---	---	---	6.2	34.4	11.3	39.4
15...	1530	1.0	1000	370	6.9	26.3	---	---	28.1	11.0	33.0
15...	1531	---	1000	---	---	---	20.0	6.0	---	---	---
15...	1605	29	3400	370	6.8	25.1	---	---	23.6	11.2	28.7
16...	1606	15	3400	364	6.8	25.1	28.0	4.7	10.6	10.0	15.3
16...	1607	3.0	3400	369	7.0	26.2	---	4.6	11.7	7.70	15.3
16...	1610	14	500	416	6.8	25.2	28.0	5.9	22.9	8.00	26.4
16...	1611	8.0	500	411	6.8	25.2	---	5.6	26.0	9.50	30.3
16...	1612	3.0	500	414	6.8	25.2	---	5.8	30.6	9.60	34.9
16...	1620	---	3400	---	---	25.3	---	5.9	30.0	9.00	33.9
22...	1445	---	500	---	---	---	---	---	21.7	10.9	26.7
									35.0	10.8	39.7

## 384605077015800 - POTOMAC RIVER AT ROSIER BLUFF

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM LI BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)
OCT	0830	--	800	--	--	--	--
06...	0831	30	800	180	--	17.0	7.0
06...	0832	16	800	180	--	17.0	--
06...	0833	3.0	800	185	--	17.3	--
06...	0834	1.0	800	185	--	17.3	--
NOV	0945	--	800	--	--	--	--
15...	1120	4.0	800	--	--	--	--
27...	1121	25	800	--	--	--	--
DEC	1100	3.0	800	--	--	--	--
20...	1220	3.0	800	--	--	--	--
FEB	1010	3.0	800	--	--	--	--
17...	1130	3.0	800	200	7.0	15.2	17.0
APR	1035	3.0	800	258	8.3	20.5	--
MAY	1650	2.0	625	296	7.4	24.0	22.0
17...	1651	4.0	625	295	7.5	23.8	--
17...	1652	13	625	281	7.4	23.4	--
17...	1653	24	625	281	7.4	23.3	--
17...	1654	--	625	--	--	--	--
27...	1240	24	625	313	7.0	25.3	19.0
27...	1241	13	625	317	7.1	25.4	--
27...	1242	3.0	625	312	7.2	25.6	--
27...	1243	--	50000	--	--	--	--
27...	1250	3.0	1600	308	7.1	25.6	15.0
27...	1255	7.0	3600	341	7.0	25.6	18.0
27...	1256	2.0	3600	305	7.0	25.8	--
30...	0800	24	625	304	--	26.6	31.0
30...	0801	13	625	302	--	26.3	--
30...	0802	4.0	625	300	--	26.2	--
30...	0820	3.0	1600	302	--	26.2	--
30...	0830	3.0	2500	302	--	26.2	23.0
30...	0835	7.0	3600	304	6.6	26.7	24.0
30...	0836	2.0	3600	304	6.7	26.6	--
30...	0915	24	625	298	6.6	26.8	30.0
30...	0916	13	625	297	6.7	26.7	--
30...	0917	4.0	625	296	6.7	26.7	--
30...	0925	3.0	1600	301	6.7	26.7	28.0
30...	0930	3.0	2500	300	6.7	26.8	31.0
30...	0940	7.0	3600	301	6.6	26.8	--
30...	0941	2.0	3600	301	6.7	26.7	--

## WATER QUALITY DATA: WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A PHYTO- PLANK- TON, CORR. (UG/L) (32211)	PHEO- PHYTTIN PHYTO- PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYLL A PHYTO- PLANK- TON, UNCORR. (UG/L) (32230)	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 06...	---	1.90	2.10	3.30	---	---	---
06...	9.5	---	---	---	---	---	---
06...	9.5	---	---	---	---	---	---
06...	9.4	---	---	---	---	---	---
06...	9.3	---	---	---	---	---	---
NOV 15...	---	---	---	---	---	---	---
27...	---	---	---	---	2.50	1.80	3.40
27...	---	---	---	---	4.30	2.40	5.40
27...	---	---	---	---	4.70	2.20	5.80
DEC 20...	---	---	---	---	2.20	5.00	5.10
FEB 19...	---	---	---	---	9.70	2.00	10.6
MAR 17...	---	---	---	---	9.40	6.00	12.2
APR 22...	9.1	---	---	---	6.40	3.10	7.80
MAY 19...	8.0	---	---	---	47.4	9.40	51.3
JUN 17...	7.0	---	---	---	34.4	18.0	42.6
17...	6.9	---	---	---	33.1	18.7	41.7
17...	6.3	---	---	---	30.0	22.3	40.4
17...	6.2	---	---	---	32.6	31.9	47.6
17...	---	---	---	---	32.4	19.1	41.2
27...	5.6	---	---	---	28.9	24.0	40.2
27...	6.0	---	---	---	31.4	20.4	40.9
27...	6.3	---	---	---	32.9	19.4	41.8
27...	---	---	---	---	25.8	21.2	35.8
27...	5.7	---	---	---	25.8	22.5	36.3
27...	5.8	---	---	---	24.4	20.5	34.0
27...	6.1	---	---	---	26.2	17.7	34.4
30...	---	---	---	---	---	---	---
30...	---	---	---	---	---	---	---
30...	---	---	---	---	---	---	---
30...	---	---	---	---	---	---	---
30...	4.3	---	---	---	---	---	---
30...	4.3	---	---	---	---	---	---
30...	4.4	---	---	---	---	---	---
30...	4.4	---	---	---	---	---	---
30...	4.7	---	---	---	---	---	---
30...	4.4	---	---	---	---	---	---
30...	4.2	---	---	---	---	---	---
30...	4.3	---	---	---	---	---	---

APPENDIX D-2

384605077015800 -- POTOMAC RIVER AT ROSIER BLUFF -- Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (DISK 1IN)	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)	(00005)	(00010)	(00017)	(00300)	(00209)	(00213)	(00217)	(00213)	(00217)	(00217)
JUN	0955	24	625	290	6.6	26.7	31.0	4.4	15.6	18.2	25.2
30...	0956	13	625	289	6.6	26.7	---	4.5	17.4	14.0	24.0
30...	0957	4.0	625	289	6.6	26.8	---	4.6	17.9	14.0	24.4
30...	1010	3.0	1500	298	6.7	26.9	---	4.8	20.3	15.3	27.5
30...	1020	3.0	2500	300	6.7	26.8	24.0	4.5	15.5	17.4	23.7
30...	1030	17	3600	302	6.7	26.7	29.0	4.4	14.1	15.4	21.4
30...	1031	7.0	3500	305	6.8	27.0	---	4.8	19.0	15.6	26.2
30...	1032	2.0	3600	305	6.8	26.7	---	4.9	19.4	15.0	26.4
30...	1130	24	625	300	6.8	26.7	29.0	5.0	---	---	---
30...	1131	13	625	310	6.8	26.8	---	5.1	---	---	---
30...	1132	4.0	625	302	6.8	26.6	---	5.1	---	---	---
30...	1140	3.0	1500	294	6.7	26.8	25.0	5.1	---	---	---
30...	1150	---	50000	---	---	---	---	---	19.0	15.5	26.3
30...	1151	3.0	2500	293	6.7	26.8	23.0	5.0	---	---	---
30...	1205	7.0	3500	305	6.8	26.7	24.0	5.2	---	---	---
30...	1206	2.0	3500	305	6.8	26.7	---	5.4	---	---	---
30...	1305	24	625	311	6.9	26.9	29.0	5.5	---	---	---
30...	1306	13	625	310	6.9	26.9	---	5.4	---	---	---
30...	1307	4.0	625	305	6.8	26.9	---	5.3	---	---	---
30...	1315	3.0	1600	305	7.0	26.8	23.0	5.3	---	---	---
30...	1325	3.0	2500	297	6.7	26.8	22.0	5.1	---	---	---
30...	1330	7.0	3500	303	6.8	26.9	23.0	5.0	---	---	---
30...	1331	2.0	3500	303	6.8	26.9	---	5.0	---	---	---
30...	1420	24	625	328	7.0	26.8	24.0	5.5	---	---	---
30...	1421	13	625	315	7.0	26.8	---	5.2	---	---	---
30...	1422	4.0	625	312	6.9	27.0	---	5.0	---	---	---
30...	1430	3.0	1500	309	6.9	26.9	23.0	4.8	---	---	---
30...	1431	3.0	2500	307	6.8	26.8	20.0	4.6	---	---	---
30...	1440	7.0	3500	306	6.9	26.8	24.0	4.9	---	---	---
30...	1441	2.0	3600	305	6.9	27.0	---	5.0	---	---	---
30...	1530	24	625	329	6.9	26.8	25.0	5.1	---	---	---
30...	1531	13	625	313	6.9	27.0	---	4.9	---	---	---
30...	1532	4.0	625	312	6.9	27.0	---	4.8	---	---	---
30...	1540	3.0	1500	311	6.9	26.7	23.0	4.5	---	---	---
30...	1550	3.0	2500	306	6.9	27.0	20.0	4.9	---	---	---
30...	1600	7.0	3500	306	6.9	27.0	23.0	5.0	---	---	---
30...	1601	2.0	3500	306	6.9	27.1	---	5.1	---	---	---
30...	1610	24	625	332	6.9	26.7	23.0	5.2	29.6	21.8	39.7
30...	1611	13	625	320	7.0	26.9	---	5.2	27.4	19.0	36.2



## APPENDIX D-2

384605077015800 - POTOMAC RIVER AT ROSIER BLUFF --- Cont.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 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											
30...	1612	4.0	625	310	7.0	26.9	---	5.3	25.1	19.7	34.2
30...	1620	3.0	1500	310	6.9	26.8	23.0	4.8	20.3	21.5	30.4
30...	1625	3.0	2500	308	6.9	26.9	22.0	4.8	18.1	22.4	28.7
30...	1630	---	50000	---	---	---	---	---	23.3	20.2	32.8
30...	1635	7.0	3500	305	6.9	27.0	22.0	5.0	21.5	19.7	30.8
30...	1636	2.0	3500	305	6.9	27.1	---	5.0	10.6	28.9	24.5
30...	1735	13	625	327	6.9	26.7	23.0	5.4	---	---	---
30...	1736	13	625	304	7.0	26.7	---	5.6	---	---	---
30...	1737	4.0	625	298	7.0	26.7	---	5.7	---	---	---
30...	1745	3.0	1500	298	7.0	26.6	22.0	5.5	---	---	---
30...	1750	3.0	2500	306	6.8	26.8	20.0	5.1	---	---	---
30...	1800	7.0	3500	308	6.8	26.8	25.0	5.0	---	---	---
30...	1801	2.0	3500	308	6.8	26.9	---	5.0	---	---	---
30...	1831	24	625	297	7.1	27.0	23.0	5.5	---	---	---
30...	1832	13	625	297	7.1	26.6	---	5.7	---	---	---
30...	1833	4.0	625	300	7.1	26.6	---	5.6	---	---	---
30...	1840	3.0	1500	298	7.1	26.5	23.0	5.7	---	---	---
30...	1850	3.0	2500	308	6.9	26.6	20.0	5.3	---	---	---
30...	1855	7.0	3500	308	6.9	26.5	20.0	5.5	---	---	---
30...	1856	2.0	3500	309	6.9	26.8	---	5.5	---	---	---
30...	1931	24	625	304	7.1	26.4	25.0	5.5	---	---	---
30...	1932	13	625	308	7.1	26.6	---	5.5	---	---	---
30...	1933	4.0	625	304	7.1	26.7	---	5.4	---	---	---
30...	1945	3.0	1500	308	7.0	26.4	19.0	5.0	---	---	---
30...	1950	3.0	2500	307	6.9	26.6	19.0	4.8	---	---	---
30...	1955	7.0	3500	301	6.8	26.6	23.0	5.0	---	---	---
30...	1956	2.0	3500	302	6.8	26.6	---	5.1	---	---	---
30...	2030	24	625	314	6.9	26.7	24.0	5.0	---	---	---
30...	2031	13	625	314	6.9	26.5	---	5.0	---	---	---
30...	2032	4.0	625	313	6.9	26.5	---	5.0	---	---	---
30...	2045	3.0	1500	311	6.9	26.3	---	4.7	---	---	---
30...	2055	3.0	2500	309	6.9	26.2	---	4.7	---	---	---
30...	2100	7.0	3500	304	6.8	26.4	---	4.8	---	---	---
30...	2101	2.0	3500	305	6.9	26.4	---	4.9	---	---	---
JUL											
04...	1410	3.0	1500	301	6.9	27.8	33.0	6.9	13.5	11.5	18.8
04...	1420	24	625	289	6.8	26.7	37.0	6.9	12.6	10.5	17.6
04...	1421	13	625	290	6.8	26.7	---	6.9	10.4	12.8	16.4
04...	1422	3.0	625	289	6.8	26.9	---	6.9	15.4	8.40	19.2
04...	1425	---	50000	---	---	---	---	---	12.4	12.0	18.0

APPENDIX D-2

384605077015800 - POTOMAC RIVER AT ROSIER BLUFF --- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	SAMPLE LOC- ATION, CRDSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCTI- 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)
JUL	1435	7.0	3600	296	6.8	26.6	28.0	6.7	11.1	10.5	16.1
04...	1440	2.0	3500	294	6.8	27.9	--	7.2	14.1	7.70	17.6
09...	1301	24	525	310	6.5	26.4	27.0	3.9	11.2	18.4	20.0
09...	1302	13	625	307	6.6	25.9	--	4.5	11.7	19.2	20.8
09...	1303	3.0	625	308	6.6	26.5	--	4.8	11.6	14.5	18.4
09...	1304	--	50000	--	--	--	--	--	8.80	20.4	18.4
09...	1315	2.0	1600	305	6.7	27.2	31.0	4.7	11.2	13.2	17.5
09...	1320	7.0	3600	295	6.4	26.3	27.0	4.4	10.7	13.1	16.9
09...	1321	2.0	3500	305	6.5	26.9	--	4.5	12.4	11.8	18.0
16...	1240	28	625	335	6.5	28.5	30.0	6.5	28.0	25.1	39.8
16...	1241	13	625	338	6.6	28.6	--	7.0	35.7	19.7	44.7
16...	1242	1.0	625	337	6.7	28.9	--	7.2	31.6	17.4	39.6
16...	1250	4.0	1600	335	6.5	28.3	30.0	6.9	22.3	19.9	31.6
16...	1251	1.0	1600	335	6.6	29.1	--	6.6	21.4	16.1	28.9
16...	1252	--	50000	--	--	29.1	--	--	30.0	19.0	38.8
16...	1300	9.0	3600	342	6.4	28.4	29.0	7.0	24.4	22.4	34.9
16...	1301	5.0	3600	339	6.6	28.8	--	6.8	27.7	17.9	36.0
16...	1302	1.0	3600	354	7.0	29.2	--	7.1	37.5	18.5	45.9
23...	0740	22	625	346	6.7	29.4	23.0	5.4	33.2	23.0	43.9
23...	0741	13	625	346	6.7	29.6	--	5.2	31.4	24.4	42.7
23...	0742	1.0	525	345	6.7	29.6	--	5.2	31.8	22.3	42.1
23...	0745	--	50000	--	--	--	--	--	21.7	19.3	30.8
23...	0750	3.0	1600	326	6.5	29.5	23.0	4.4	16.4	18.9	25.4
23...	0751	1.0	1600	327	6.5	29.5	--	4.3	15.9	18.3	24.6
23...	0800	9.0	3600	320	6.6	29.1	24.0	6.2	8.20	14.3	15.0
23...	0801	1.0	3600	321	6.6	29.2	--	6.1	8.20	13.1	14.4
23...	1615	21	625	322	6.9	29.1	30.0	4.9	--	--	--
23...	1616	13	625	323	6.9	29.2	--	4.7	--	--	--
23...	1617	1.0	625	322	7.0	29.3	--	4.7	--	--	--
23...	1630	4.0	1600	318	6.8	29.3	24.0	3.9	--	--	--
23...	1631	1.0	1600	318	6.9	29.3	--	3.9	--	--	--
23...	1640	--	50000	--	--	--	--	3.9	21.9	14.8	28.8
23...	1641	7.0	3500	290	6.5	28.9	24.0	3.7	--	--	--
23...	1642	1.0	3500	291	6.5	28.9	--	3.8	--	--	--
30...	0610	27	625	307	6.3	27.9	24.0	5.1	27.4	18.5	35.9
30...	0611	13	625	311	6.4	28.2	--	4.8	26.2	17.4	34.3
30...	0612	1.0	625	311	6.5	28.3	--	4.8	25.4	15.4	32.5
30...	0620	4.0	1600	307	6.4	28.3	24.0	4.1	17.6	24.8	29.4
30...	0621	1.0	1600	308	6.4	28.4	--	4.2	18.1	20.0	27.5

APPENDIX D-2

384605077015800 -- POTOMAC RIVER AT ROSIER BLUFF -- Cont.

WATER QUALITY DATA. WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING (FT)	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, SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)
		(00003)		(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL												
30...	0625	--	--	50000	--	--	--	--	--	19.5	19.1	28.5
30...	0630	7.0	3600	281	281	6.1	28.0	23.0	3.7	11.4	20.9	21.4
30...	0631	1.0	3500	281	281	6.1	28.0	--	3.6	10.3	26.9	23.2
30...	1615	24	525	323	323	--	28.7	22.0	6.9	--	--	--
30...	1616	10	525	323	323	6.7	28.9	--	5.2	--	--	--
30...	1617	3.0	525	321	321	6.9	29.9	--	6.9	--	--	--
30...	1635	3.0	1600	312	312	6.6	29.2	22.0	4.6	--	--	--
30...	1640	9.0	3500	302	302	6.5	29.6	23.0	4.7	--	--	--
30...	1641	3.0	3500	301	301	6.6	29.8	--	5.2	--	--	--
30...	1650	--	--	50000	--	--	--	--	--	29.0	13.2	35.0
AUG												
04...	0615	--	--	50000	--	--	--	--	--	22.4	14.0	28.9
04...	0630	23	525	300	300	6.3	28.6	19.0	4.6	--	--	--
04...	0631	13	525	299	299	6.3	28.6	--	4.5	--	--	--
04...	0632	1.0	525	297	297	6.3	28.6	--	4.6	--	--	--
04...	0645	3.0	1500	304	304	6.3	28.7	20.0	4.4	--	--	--
04...	0646	1.0	1600	303	303	6.3	28.7	--	4.4	--	--	--
04...	0650	8.0	3500	296	296	6.3	28.5	23.0	4.3	--	--	--
04...	0651	1.0	3500	293	293	6.2	28.7	--	4.0	--	--	--
04...	1605	29	525	285	285	6.2	29.8	24.0	6.0	--	--	--
04...	1606	13	525	284	284	6.2	29.5	--	6.1	--	--	--
04...	1607	1.0	525	279	279	6.4	30.6	--	7.5	--	--	--
04...	1630	--	--	50000	--	--	--	--	--	30.4	9.80	34.8
04...	1631	14	1500	293	293	6.3	29.5	34.0	6.2	--	--	--
04...	1632	1.0	1600	285	285	6.4	30.5	--	6.8	--	--	--
04...	1645	12	3500	288	288	5.3	29.8	24.0	6.8	--	--	--
04...	1646	9.0	3500	291	291	6.3	29.8	--	6.2	--	--	--
04...	1647	1.0	3500	286	286	6.6	30.6	--	8.4	--	--	--
05...	0550	23	525	344	344	6.5	29.2	19.0	5.6	--	--	--
05...	0551	13	525	320	320	6.3	29.3	--	5.3	--	--	--
05...	0552	1.0	525	305	305	6.1	29.3	--	4.9	--	--	--
05...	0600	--	--	50000	--	--	--	--	--	19.8	12.3	25.5
05...	0601	3.0	1600	305	305	6.0	29.1	24.0	4.1	--	--	--
05...	0602	1.0	1500	305	305	6.0	29.1	--	4.1	--	--	--
05...	0610	8.0	3500	292	292	5.9	29.2	25.0	4.3	--	--	--
05...	0611	1.0	3500	292	292	5.9	29.2	--	4.4	--	--	--
05...	1800	24	525	321	321	6.3	29.4	22.0	6.1	--	--	--
05...	1801	13	525	320	320	6.4	29.6	--	6.2	--	--	--
05...	1802	3.0	525	302	302	6.2	29.6	--	5.8	--	--	--
05...	1815	--	--	50000	--	--	--	--	--	28.0	11.1	33.0

APPENDIX D-2

384605077015800 -- POTOMAC RIVER AT ROSIER BLUFF --- Cont.

WATER QUALITY DATA: WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	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 UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG 05...	1820	6.0	3500	295	6.0	29.9	24.0	4.8	--	--	--
05...	1821	2.0	3500	296	6.0	29.9	--	4.7	--	--	--
06...	0545	23	525	303	6.3	29.1	18.0	4.5	12.2	10.8	27.9
06...	0546	13	525	292	6.1	29.3	--	4.3	10.7	10.7	25.5
06...	0547	1.0	525	291	6.1	29.3	--	4.2	19.3	13.2	24.2
06...	0555	4.0	1600	301	6.2	29.3	10.0	4.1	16.3	9.00	22.5
06...	0556	1.0	1500	302	6.2	29.2	--	4.1	17.7	15.3	21.8
06...	0605	9.0	3500	307	6.1	29.2	24.0	3.6	8.30	11.4	15.6
06...	0606	1.0	3500	307	6.2	29.2	--	3.7	16.4	11.7	13.7
06...	0610	--	50000	--	--	--	--	--	13.6	13.6	21.8
06...	1445	--	50000	--	--	--	--	--	23.5	16.5	29.8
06...	1600	25	525	313	6.2	30.0	25.0	4.3	20.9	9.60	36.0
06...	1601	13	525	307	6.3	30.5	--	5.9	31.8	11.5	37.8
06...	1602	6.0	525	308	6.3	30.6	--	6.1	32.7	13.4	64.4
06...	1603	3.0	525	311	6.5	30.8	--	7.9	58.8	12.1	45.0
06...	1604	1.0	525	311	6.4	31.0	--	7.3	39.7	11.9	25.5
06...	1605	--	50000	--	--	--	--	--	20.0	11.8	19.6
06...	1610	3.0	1600	316	6.3	30.0	18.0	4.0	14.1	15.7	14.3
06...	1611	1.0	1500	314	6.3	30.2	--	4.2	6.70	10.4	26.8
06...	1615	--	50000	--	--	--	--	--	22.1	10.5	29.2
06...	1616	--	50000	--	--	--	--	--	24.5	9.90	17.2
06...	1620	9.0	3500	317	6.2	29.9	--	4.0	12.5	6.60	19.0
06...	1621	1.0	3500	314	6.3	30.1	--	4.2	16.1	8.40	24.8
06...	1705	--	50000	--	--	--	--	--	21.0	8.50	30.2
06...	1830	--	50000	--	--	--	--	--	26.5	14.2	49.2
06...	1935	--	50000	--	--	--	--	--	43.0	--	--
07...	0620	29	625	286	5.7	29.5	23.0	3.8	--	--	--
07...	0621	13	625	287	5.6	29.5	--	3.8	--	--	--
07...	0622	1.0	625	287	5.6	29.5	--	3.7	--	--	--
07...	0625	5.0	1600	311	5.8	29.5	26.0	3.7	--	--	--
07...	0626	1.0	1600	312	5.8	29.5	--	3.7	--	--	--
07...	0630	11	3500	300	5.7	29.5	24.0	4.2	--	--	--
07...	0631	1.0	3600	305	5.8	29.5	--	4.0	--	--	--
07...	0640	--	50000	--	--	--	--	--	10.3	10.4	15.2
07...	1645	--	50000	--	--	--	--	--	31.0	15.9	38.2
07...	1646	26	625	293	6.2	30.2	14.0	4.7	--	--	--
07...	1647	15	525	291	6.1	30.2	--	5.1	--	--	--
07...	1648	3.0	525	285	6.3	31.2	--	8.9	--	--	--
07...	1655	4.0	1600	293	6.0	30.5	19.0	3.9	--	--	--

## 384605077015800 - POTOMAC RIVER AT ROSIER BLUFF -- Cont.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	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)	(00300)	(32209)	(32213)	(32217)
AUG												
07...	1700	10	3600	298	6.1	30.5	24.0	4.2				
07...	1701	7.0	3600	300	6.2	30.6		4.6				
07...	1702	3.0	3600	301	6.2	30.7		4.8				
08...	0545	24	525	291	6.3	29.7	18.0	5.6				
08...	0546	13	525	286	6.2	29.8		5.0				
08...	0547	1.0	525	281	6.2	29.8		4.5				
08...	0550	4.0	1600	287	6.1	29.8	17.0	4.6				
08...	0551	1.0	1600	288	6.2	29.8		4.6				
08...	0600	--	50000	--	--	--		--		14.0	13.3	20.2
08...	0601	11	3600	292	6.1	29.8		3.9				
08...	0602	1.0	3600	292	6.2	29.8		4.0				
08...	1615	25	525	316	6.4	30.8	16.0	4.8				
08...	1616	14	525	314	6.4	30.8		5.2				
08...	1617	3.0	525	302	7.1	32.0		11.4				
08...	1625	3.0	1500	319	6.4	31.0	18.0	4.4				
08...	1635	5.0	3600	292	6.1	31.1	22.0	3.7				
08...	1636	3.0	3600	291	6.1	31.1		3.7				
08...	1645	--	50000	--	--	--		--		29.0	19.9	38.2
11...	1630	--	50000	--	--	--		--		42.0	11.6	47.0
11...	1631	20	525	336	7.0	30.7	19.0	3.7				
11...	1632	12	525	331	7.1	31.2		6.6				
11...	1633	3.0	525	326	7.4	31.8		9.2				
11...	1645	2.0	1500	309	6.9	31.5	24.0	4.8				
11...	1650	9.0	3500	301	6.9	31.5	24.0	5.5				
11...	1651	3.0	3600	301	6.9	31.5		6.0				
13...	0550	26	525	338	6.7	29.8	18.0	4.0		35.4	15.3	42.3
13...	0551	13	525	338	6.7	29.9		4.0		32.5	12.3	38.0
13...	0552	3.0	525	339	6.7	29.9		3.9		30.0	14.4	36.5
13...	0553	1.0	525	338	6.7	29.8		3.8		31.8	11.8	37.1
13...	0600	--	50000	--	--	--		--		22.0	10.8	26.9
13...	0601	3.0	1500	310	6.3	29.2	20.0	3.3		9.30	16.5	17.2
13...	0602	1.0	1600	310	6.2	29.2		3.3		11.4	18.3	20.1
13...	0610	8.0	3500	300	6.2	29.1	23.0	3.5		15.0	11.2	20.2
13...	0611	3.0	3500	299	6.1	29.1		3.5		14.6	9.40	19.0
13...	0612	1.0	3500	300	6.1	29.2		3.5		14.1	10.0	18.8
13...	1610	--	50000	--	--	--		--		39.7	9.50	43.8
13...	1611	22	525	340	6.3	29.7	18.0	4.8		25.4	17.1	33.3
13...	1612	13	525	348	6.6	29.9		6.5		40.8	15.5	47.7
13...	1613	7.0	525	346	6.7	29.9		7.7		58.1	14.7	64.4

## APPENDIX D-2

## 384605077015800 - POTOMAC RIVER AT ROSIER BLUFF --- Cont.

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCTA- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA METRIC CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA METRIC METHOD (UG/L)
(000003)	(000009)	(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG											
13...	1614	3.0	625	338	6.8	30.2	---	8.9	64.7	15.4	71.2
13...	1615	1.0	625	338	6.9	30.3	---	9.4	51.0	11.6	55.9
13...	1620	3.0	1500	339	6.4	30.4	18.0	5.1	24.8	12.7	30.6
13...	1621	1.0	1500	340	6.4	30.4	---	5.4	24.7	10.7	29.6
13...	1625	7.0	3500	310	6.0	29.8	22.0	5.8	32.1	11.1	37.0
13...	1626	3.0	3500	326	6.2	30.6	---	5.1	19.9	9.80	24.3
13...	1627	1.0	3500	326	6.2	30.7	---	5.1	19.8	10.1	24.5
20...	0605	22	625	333	6.8	25.6	24.0	5.1	24.4	6.00	30.0
20...	0606	13	625	335	6.9	25.7	---	5.0	19.8	13.0	29.3
20...	0607	4.0	625	335	6.9	25.7	---	5.0	23.8	12.1	25.9
20...	0608	1.0	625	336	7.0	25.7	---	4.9	---	---	---
20...	0615	4.0	1500	316	6.8	25.6	19.0	3.5	6.90	11.1	12.2
20...	0616	1.0	1500	316	6.8	25.7	---	3.5	6.80	10.1	11.6
20...	0620	---	50000	---	---	---	---	---	11.3	10.1	16.0
20...	0621	9.0	3500	311	6.7	25.5	20.0	3.3	4.00	7.50	7.60
20...	0622	1.0	3500	311	6.7	25.6	---	3.2	3.60	6.30	6.60
20...	1605	25	625	301	6.6	26.2	34.0	3.8	11.1	9.60	15.6
20...	1606	13	625	302	6.7	26.2	---	3.9	11.1	8.40	15.0
20...	1607	6.0	625	302	6.7	26.1	---	4.0	12.4	8.90	16.5
20...	1608	3.0	625	303	6.7	26.0	---	3.9	20.2	7.60	23.6
20...	1609	1.0	625	302	6.7	26.2	---	3.9	11.4	7.30	14.7
20...	1615	---	50000	---	---	---	---	---	10.4	6.50	13.4
20...	1620	5.0	1500	322	6.8	26.2	36.0	3.6	8.50	4.40	10.5
20...	1621	1.0	1500	322	6.8	26.2	---	3.8	7.90	6.00	10.7
20...	1625	10	3500	320	6.8	26.2	34.0	3.5	8.00	5.80	10.7
20...	1626	5.0	3500	316	6.8	26.2	---	3.8	8.70	4.80	10.9
20...	1627	1.0	3500	317	6.8	26.2	---	3.9	8.80	4.80	11.0
25...	1829	---	525	---	---	---	---	---	10.9	6.40	13.9
25...	1830	10	625	360	6.8	26.9	23.0	6.1	---	---	---
25...	1831	1.0	525	354	6.7	27.3	---	6.0	---	---	---
25...	1841	1.0	1500	357	6.7	26.9	---	5.3	---	---	---
25...	1842	---	1500	---	---	---	---	---	---	---	---
25...	1844	---	3500	---	---	---	---	---	---	---	---
25...	1845	10	3500	349	6.8	27.0	16.0	---	6.20	7.90	9.90
25...	1846	1.0	3500	349	6.7	27.0	---	5.0	3.80	6.70	7.10
SEP									---	---	---
03...	1600	21	625	361	6.4	28.6	26.0	4.1	11.4	6.20	14.2
03...	1601	13	625	362	6.4	28.7	---	4.2	11.7	5.30	14.1
03...	1602	1.0	625	369	6.5	29.2	---	4.4	17.0	5.70	19.5
03...	1603	---	625	---	---	---	---	---	12.0	6.00	14.8

APPENDIX D-2

384605077015800 -- POTOMAC RIVER AT ROSIER BLUFF -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	00003	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)	00209	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	00213	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)	00217
SEP	1610	--	--	50000	--	--	--	--	--	--	--	--	--	--	--	10.9	4.50	13.0	13.0		
03...	1620	5.0	1500	378	378	6.5	29.0	36.0	4.1	5.60	4.5	6.80	5.10	8.00	8.00	6.80	3.30	8.40	8.40		
03...	1621	1.0	1600	378	378	6.5	29.1	--	--	--	--	--	--	--	--	6.60	3.90	8.40	8.40		
03...	1622	--	--	1600	--	--	--	--	--	--	--	--	--	--	--	6.60	6.00	9.60	9.60		
03...	1625	9.0	3600	364	364	6.6	28.7	30.0	4.3	6.80	5.0	12.7	4.30	14.6	14.6	13.4	4.80	15.6	15.6		
03...	1626	6.0	3600	364	364	6.7	28.8	--	5.2	13.4	5.0	10.4	3.60	12.0	12.0	21.5	14.0	28.0	28.0		
03...	1627	1.0	3500	363	363	6.7	28.8	--	--	--	--	--	--	--	--	21.9	9.70	26.2	26.2		
03...	1628	--	--	3600	--	--	--	--	--	--	--	--	--	--	--	23.3	9.30	27.5	27.5		
15...	1605	23	625	373	373	6.8	26.1	23.0	5.4	21.5	5.4	21.9	11.2	16.4	16.4	11.2	11.1	16.4	16.4		
15...	1606	13	625	371	371	6.8	26.0	--	5.4	21.9	5.4	21.9	9.70	26.2	26.2	15.6	9.70	20.1	20.1		
15...	1607	1.0	625	367	367	6.8	26.0	--	5.9	23.3	5.9	23.3	9.30	27.5	27.5	11.2	9.70	20.1	20.1		
15...	1615	1.0	1500	361	361	6.7	25.9	23.0	5.0	23.3	5.0	23.3	9.30	27.5	27.5	11.2	9.70	20.1	20.1		
15...	1616	--	--	1500	--	--	--	--	--	--	--	--	--	--	--	11.2	11.1	16.4	16.4		
15...	1620	--	--	50000	--	--	--	--	--	--	--	--	--	--	--	15.6	9.70	20.1	20.1		
15...	1625	9.0	3500	354	354	6.7	26.1	--	5.0	23.3	5.0	23.3	9.30	27.5	27.5	11.2	9.70	20.1	20.1		
15...	1626	1.0	3600	354	354	6.7	26.1	--	5.0	23.3	5.0	23.3	9.30	27.5	27.5	11.2	9.70	20.1	20.1		
15...	1627	--	--	3600	--	--	--	--	--	--	--	--	--	--	--	10.9	6.70	14.0	14.0		

## APPENDIX D-2

## 384318077020300 - POTOMAC RIVER AT HATTON POINT

## WATER QUALITY DATA: WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
OCT							
06...	0900	--	1000	--	--	--	--
06...	0901	46	1000	205	--	17.5	7.0
06...	0902	33	1000	215	--	17.5	--
06...	0903	20	1000	215	--	17.5	--
06...	0904	3.0	1000	210	--	17.8	--
06...	0905	1.0	1000	210	--	17.5	--
NOV							
08...	1101	--	300	--	--	--	--
08...	1102	2.0	300	--	--	--	--
08...	1103	10	300	--	--	--	--
08...	1104	20	300	--	--	--	--
15...	0956	--	1000	--	--	--	--
27...	1156	5.0	1000	--	--	--	--
27...	1157	35	1000	--	--	--	--
FEB							
19...	1213	3.0	1000	--	--	--	--
MAR							
18...	1000	3.0	1000	--	--	--	--
APR							
22...	1150	3.0	1000	187	7.0	15.8	18.0
MAY							
19...	1045	3.0	1000	263	7.7	20.8	30.0
19...	1046	36	1000	263	7.7	20.6	--
JUN							
17...	1610	2.0	1000	285	7.4	24.3	22.0
17...	1611	6.0	1000	285	7.4	23.9	--
17...	1612	17	1000	284	7.3	23.8	--
17...	1613	31	1000	285	7.2	23.5	--
17...	1620	2.0	300	286	7.2	24.2	28.0
17...	1621	6.0	300	286	7.2	24.2	--
17...	1622	19	300	285	7.3	23.7	--
17...	1623	36	300	285	7.2	23.5	--
17...	1625	--	50000	--	--	--	--
27...	1145	36	1000	287	6.8	24.9	25.0
27...	1146	19	1000	287	6.8	25.0	--
27...	1147	6.0	1000	283	6.8	25.2	--
27...	1148	2.0	1000	283	6.9	25.6	--
27...	1155	--	50000	--	--	--	--
27...	1200	31	300	285	6.7	24.9	30.0
27...	1201	17	300	284	6.8	25.0	--
27...	1202	6.0	300	291	7.0	25.2	--
27...	1203	2.0	300	290	7.0	25.6	--
27...	1210	2.0	2400	283	6.7	25.5	19.0
JUL							
04...	1250	31	1000	283	6.8	27.0	42.0
04...	1255	17	1000	281	6.9	27.1	--



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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	CHLORO- PHYLL A PHYTO- PLANK- TON, CORR. (UG/L) (32211)	PHEO- PHYTTIN PHYTO- PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYLL A PHYTO- PLANK- TON, UNCORR. (UG/L) (32230)	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)
OCT 06...	---	3.20	1.30	4.20	---	---	---
06...	8.9	---	---	---	---	---	---
06...	8.9	---	---	---	---	---	---
06...	8.9	---	---	---	---	---	---
06...	8.9	---	---	---	---	---	---
NOV 06...	8.9	---	---	---	---	---	---
08...	---	---	---	---	6.00	3.40	7.70
08...	---	---	---	---	5.80	2.70	7.10
08...	---	---	---	---	5.90	4.70	8.20
08...	---	---	---	---	5.90	4.50	8.10
15...	---	---	---	---	2.90	2.40	4.10
27...	---	---	---	---	14.7	4.50	16.8
FEB 27...	---	---	---	---	9.60	3.70	11.4
19...	---	---	---	---	12.8	1.70	13.5
MAR 18...	---	---	---	---	9.40	4.30	11.3
APR 22...	9.2	---	---	---	4.70	3.50	6.30
MAY 19...	6.6	---	---	---	23.3	16.2	30.8
19...	6.6	---	---	---	23.5	25.9	35.8
JUN 17...	7.3	---	---	---	29.0	17.4	37.0
17...	7.0	---	---	---	27.2	16.7	34.9
17...	6.9	---	---	---	29.6	18.4	38.1
17...	6.1	---	---	---	29.1	35.3	45.8
17...	6.8	---	---	---	25.3	17.5	33.4
17...	6.7	---	---	---	29.5	18.7	38.2
17...	6.7	---	---	---	28.4	20.8	38.0
17...	6.0	---	---	---	25.4	31.2	40.2
17...	---	---	---	---	30.5	23.7	41.6
27...	5.3	---	---	---	18.0	41.6	37.9
27...	5.5	---	---	---	16.4	17.8	24.8
27...	5.9	---	---	---	18.2	16.0	25.7
27...	6.4	---	---	---	22.2	13.8	28.6
27...	---	---	---	---	16.1	18.5	24.8
27...	5.2	---	---	---	15.0	36.0	32.2
27...	5.3	---	---	---	14.0	20.5	23.8
27...	6.4	---	---	---	26.1	18.2	34.6
27...	6.9	---	---	---	28.2	16.9	36.0
27...	5.3	---	---	---	11.6	20.3	21.3
JUL 04...	7.0	---	---	---	15.8	23.2	26.8
04...	7.3	---	---	---	13.4	15.8	20.9

APPENDIX D-2

384318077020300 - POTOMAC RIVER AT HATTON POINT - Cont.

WATER QUALITY DATA: WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	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- METHIC CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METHIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METHIC METHOD UNCORR. (UG/L) (32217)
JUL											
04...	1257	6.0	1000	271	6.6	26.9	--	6.8	7.50	8.60	11.6
04...	1259	2.0	1000	251	6.4	27.1	--	6.9	6.80	7.40	10.3
04...	1300	--	50000	--	--	--	--	--	13.1	11.2	18.4
04...	1310	2.0	2400	272	6.5	27.0	32.0	6.1	6.60	9.20	10.9
04...	1320	36	300	282	6.8	26.7	--	6.8	14.2	13.1	20.4
04...	1321	19	300	282	6.8	26.7	--	7.0	14.6	11.7	20.1
04...	1322	6.0	300	282	6.8	26.8	--	7.1	--	--	--
04...	1323	2.0	300	283	6.8	26.9	--	7.2	12.4	8.80	16.5
09...	1210	36	300	300	6.4	25.8	30.0	3.7	9.70	17.4	18.0
09...	1211	19	300	300	6.4	25.7	--	3.6	9.40	16.6	17.4
09...	1212	6.0	300	300	6.4	26.0	--	4.6	12.3	13.4	18.6
09...	1213	2.0	300	299	6.5	26.5	--	4.8	12.5	10.2	17.3
09...	1220	--	50000	--	--	--	--	--	10.3	14.0	17.0
09...	1221	31	1000	302	6.4	25.8	24.0	3.7	11.0	17.3	19.2
09...	1222	17	1000	302	6.4	25.7	--	3.7	11.2	15.8	18.8
09...	1223	6.0	1000	302	6.4	25.7	--	4.2	10.0	15.3	17.3
09...	1224	2.0	1000	305	6.4	25.9	--	4.3	11.6	12.7	17.6
09...	1225	--	50000	--	--	--	--	--	10.3	14.0	17.0
09...	1230	2.0	2400	290	6.2	26.6	42.0	4.2	3.40	6.10	6.30
11...	0700	36	300	281	6.2	26.3	25.0	4.3	--	--	--
11...	0701	19	300	281	6.2	26.2	--	4.3	--	--	--
11...	0702	6.0	300	281	6.2	26.3	--	4.3	--	--	--
11...	0703	3.0	300	281	6.2	26.3	--	4.3	--	--	--
11...	0725	31	1000	281	6.2	26.2	25.0	3.7	--	--	--
11...	0726	17	1000	280	6.2	26.4	--	3.8	--	--	--
11...	0727	6.0	1000	280	6.2	26.4	--	3.8	--	--	--
11...	0728	2.0	1000	280	6.2	26.4	--	3.8	--	--	--
11...	0740	2.0	1300	277	6.1	26.3	25.0	3.9	--	--	--
11...	0750	2.0	2200	270	6.0	26.2	34.0	2.8	--	--	--
11...	0759	2.0	2800	268	5.9	26.0	--	2.0	--	--	--
11...	0800	36	300	279	6.2	26.3	29.0	3.9	11.3	10.6	16.3
11...	0801	19	300	279	6.2	26.4	--	3.9	12.4	10.7	17.4
11...	0802	6.0	300	279	6.2	26.4	--	4.0	9.70	9.10	13.9
11...	0803	2.0	300	279	6.2	26.4	--	4.0	9.40	11.5	14.8
11...	0820	--	50000	--	--	--	--	--	8.60	10.3	13.4
11...	0830	31	1000	279	6.2	26.4	23.0	3.8	8.90	10.9	14.1
11...	0831	17	1000	279	6.2	26.4	--	4.0	--	--	--
11...	0832	6.0	1000	279	6.2	26.4	--	4.0	10.0	10.6	15.0
11...	0833	2.0	1000	279	6.2	26.5	--	4.1	12.1	8.20	15.9

APPENDIX D-2

384318077020300 - POTOMAC RIVER AT HATTON POINT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
JUL	0835	2.0	1500	278	6.1	26.5	23.0	3.4	6.60	11.1	11.9
11...	0845	2.0	2200	276	6.1	26.5	24.0	3.4	5.60	13.6	13.1
11...	0850	2.0	2800	282	6.2	26.6	31.0	3.5	3.00	8.80	7.20
11...	1015	36	300	284	6.2	26.7	29.0	4.0	--	--	--
11...	1016	19	300	283	6.2	26.7	--	4.1	--	--	--
11...	1017	6.0	300	289	6.3	26.9	--	4.1	--	--	--
11...	1018	2.0	300	295	6.3	27.0	--	4.1	--	--	--
11...	1035	31	1000	283	6.1	26.8	31.0	3.2	--	--	--
11...	1036	17	1000	284	6.2	26.7	--	3.5	--	--	--
11...	1037	6.0	1000	285	6.2	26.9	--	4.0	--	--	--
11...	1038	2.0	1000	286	6.3	27.4	--	4.5	--	--	--
11...	1045	2.0	1500	287	6.2	27.0	24.0	3.5	--	--	--
11...	1055	2.0	2200	285	6.1	27.2	24.0	3.2	--	--	--
11...	1100	2.0	2800	276	6.0	27.1	24.0	2.5	--	--	--
11...	1146	36	300	288	6.3	27.6	25.0	3.6	--	--	--
11...	1147	19	300	287	6.3	27.0	--	3.8	--	--	--
11...	1148	6.0	300	286	6.3	27.1	--	4.0	--	--	--
11...	1149	2.0	300	287	6.3	27.1	--	4.0	--	--	--
11...	1200	31	1000	300	6.4	27.2	31.0	3.9	--	--	--
11...	1201	17	1000	306	6.5	27.1	--	4.0	--	--	--
11...	1202	6.0	1000	311	6.5	27.5	--	4.6	--	--	--
11...	1203	2.0	1000	311	6.5	27.5	--	4.5	--	--	--
11...	1215	2.0	1500	297	6.4	28.1	29.0	3.9	--	--	--
11...	1250	2.0	2200	294	6.3	28.1	34.0	3.2	--	--	--
11...	1255	2.0	2800	277	6.2	28.2	--	3.7	--	--	--
11...	1320	36	300	301	6.4	27.4	30.0	3.6	--	--	--
11...	1321	19	300	298	6.4	27.4	--	3.9	--	--	--
11...	1322	6.0	300	292	6.5	27.5	--	4.1	--	--	--
11...	1323	2.0	300	292	6.5	27.7	--	4.7	--	--	--
11...	1330	31	1000	306	6.5	27.5	30.0	3.7	--	--	--
11...	1331	17	1000	305	6.5	27.3	--	3.8	--	--	--
11...	1332	6.0	1000	307	6.6	27.8	--	4.4	--	--	--
11...	1333	2.0	1000	306	6.5	27.7	--	4.1	--	--	--
11...	1345	2.0	1500	296	6.4	28.0	31.0	3.5	--	--	--
11...	1351	2.0	2200	292	6.3	28.2	46.0	3.1	--	--	--
11...	1400	2.0	2800	276	6.1	29.1	--	3.6	--	--	--
11...	1500	36	300	302	6.5	27.6	31.0	5.1	14.1	11.8	19.6
11...	1501	19	300	299	6.5	27.8	--	5.2	23.8	9.80	28.2
11...	1502	6.0	300	302	6.6	28.2	--	5.8	29.5	9.10	33.5

## APPENDIX D-2

## 384318077020300 -- POTOMAC RIVER AT HATTON POINT -- Cont.

## WATER QUALITY DATA - WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 (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	1503	2.0		300		303		6.6		28.3		--		5.8		28.3		8.50		32.0	
11...	1526	31		1000		314		6.5		27.6		26.0		3.7		13.3		12.4		19.2	
11...	1527	17		1000		311		6.6		27.8		--		4.2		16.6		12.2		22.2	
11...	1528	6.0		1000		308		6.6		28.0		--		4.2		17.1		9.30		21.4	
11...	1529	2.0		1000		302		6.5		28.0		--		4.3		15.0		9.50		19.4	
11...	1540	2.0		1500		285		6.2		28.5		23.0		3.5		2.00		7.40		5.60	
11...	1545	2.0		2200		283		6.2		28.8		24.0		4.3		2.30		8.20		6.30	
11...	1555	2.0		2800		271		6.0		29.0		31.0		2.9		2.50		8.60		6.60	
11...	1630	36		300		309		6.5		28.4		32.0		3.3		--		--		--	
11...	1631	19		300		304		6.5		27.8		--		3.9		--		--		--	
11...	1632	6.0		300		300		6.8		28.5		--		6.4		--		--		--	
11...	1633	2.0		300		--		7.0		28.7		--		8.8		54.2		6.60		56.6	
11...	1650	31		1000		307		6.5		27.7		34.0		3.8		--		--		--	
11...	1651	17		1000		303		6.5		27.7		--		3.8		--		--		--	
11...	1652	6.0		1000		301		6.5		27.9		--		4.2		--		--		--	
11...	1653	2.0		1000		301		6.5		28.0		--		4.3		--		--		--	
11...	1705	2.0		1500		294		6.3		28.3		20.0		3.9		--		--		--	
11...	1710	2.0		2200		286		6.4		28.5		20.0		3.9		--		--		--	
11...	1720	2.0		2800		264		6.2		29.4		18.0		6.3		28.1		8.60		31.9	
11...	1730	36		300		295		6.4		27.7		35.0		3.9		--		--		--	
11...	1731	19		300		293		6.3		27.7		--		3.9		--		--		--	
11...	1732	6.0		300		288		6.3		27.9		--		4.0		--		--		--	
11...	1733	2.0		300		288		6.4		28.0		--		4.0		--		--		--	
11...	1750	31		1000		292		6.4		27.6		31.0		3.9		--		--		--	
11...	1751	17		1000		288		6.3		27.8		--		4.1		--		--		--	
11...	1752	6.0		1000		281		6.3		28.1		--		4.3		--		--		--	
11...	1753	2.0		1000		283		6.3		28.1		--		4.5		--		--		--	
11...	1810	2.0		1500		286		6.2		28.0		23.0		3.6		--		--		--	
11...	1815	2.0		2200		273		6.1		28.4		28.0		3.5		--		--		--	
11...	1820	2.0		2900		269		6.5		29.1		14.0		8.4		49.1		11.8		54.1	
16...	1200	39		300		295		6.2		28.5		31.0		6.2		20.5		11.9		26.0	
16...	1201	19		300		300		6.2		28.3		--		6.3		19.7		12.4		25.5	
16...	1202	1.0		300		300		6.3		28.8		--		6.7		17.9		14.2		24.5	
16...	1210	36		1000		295		6.2		28.4		32.0		5.3		14.6		16.3		22.3	
16...	1211	17		1000		295		6.2		28.2		--		5.4		18.3		13.1		24.4	
16...	1212	1.0		1000		290		6.2		28.4		--		6.0		18.1		7.70		21.5	
16...	1220	1.0		2400		289		6.1		28.5		26.0		5.5		9.60		9.60		14.0	
16...	1221	4.0		2400		291		6.1		28.3		--		5.3		9.00		15.5		16.3	
16...	1225	--		50000		--		--		--		--		--		17.3		12.6		23.1	

## 384318077020300 - POTOMAC RIVER AT HATTON POINT -- Cont.

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 (SECCI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLA METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUL											
23...	0823	--	50000	--	--	--	--	--	13.8	12.9	19.9
23...	0825	28	300	316	6.4	29.6	24.0	4.8	15.5	11.6	21.0
23...	0826	19	300	316	6.4	29.7	--	4.6	15.0	11.9	20.6
23...	0827	1.0	300	315	6.4	29.7	--	4.6	14.5	11.9	20.1
23...	0840	32	1000	310	6.3	29.7	24.0	4.2	11.5	24.0	23.0
23...	0841	17	1000	312	6.3	29.8	--	4.3	11.9	14.9	19.0
23...	0842	1.0	1000	314	6.4	29.8	--	4.4	12.9	11.4	18.2
23...	0850	1.0	2400	305	6.2	29.5	26.0	4.1	4.00	10.2	8.90
23...	1825	39	300	304	6.1	29.3	30.0	4.0	--	--	--
23...	1826	19	300	307	6.1	29.4	--	4.1	--	--	--
23...	1827	1.0	300	307	6.2	29.5	--	4.1	--	--	--
23...	1835	36	1000	295	6.1	29.2	30.0	3.6	--	--	--
23...	1836	17	1000	301	6.1	29.3	--	3.7	--	--	--
23...	1837	1.0	1000	304	6.1	29.4	--	4.1	--	--	--
23...	1845	--	50000	--	--	--	--	--	11.8	11.1	17.0
23...	1846	1.0	2400	275	5.9	29.0	39.0	3.3	--	--	--
30...	0650	34	300	280	6.1	28.3	26.0	4.4	21.2	21.0	31.0
30...	0651	19	300	279	6.1	28.3	--	4.4	21.8	14.2	28.3
30...	0652	1.0	300	279	6.1	28.2	--	4.4	20.0	12.1	25.6
30...	0705	--	50000	--	--	--	--	--	17.4	15.2	24.5
30...	0706	37	1000	269	6.0	28.2	18.0	3.7	--	--	--
30...	0707	19	1000	267	6.0	28.2	--	3.7	14.5	18.4	23.2
30...	0708	1.0	1000	267	6.0	28.1	--	3.8	15.0	13.5	21.3
30...	0715	1.0	2400	274	6.0	28.2	19.0	3.7	5.90	20.9	16.0
30...	1710	35	300	295	6.4	28.9	23.0	4.7	--	--	--
30...	1711	24	300	287	6.4	29.1	--	5.2	--	--	--
30...	1712	13	300	287	6.5	29.2	--	6.0	--	--	--
30...	1713	6.0	300	296	6.6	29.3	--	6.2	--	--	--
30...	1714	3.0	300	286	6.5	29.4	--	6.3	--	--	--
30...	1720	32	1000	302	6.5	28.9	24.0	4.5	--	--	--
30...	1721	17	1000	295	6.2	29.0	--	4.5	--	--	--
30...	1722	6.0	1000	288	6.4	29.0	--	4.5	--	--	--
30...	1723	3.0	1000	288	6.4	29.1	--	4.6	--	--	--
30...	1730	--	50000	--	--	--	--	--	24.0	11.0	29.0
30...	1735	2.0	2400	271	6.1	29.6	--	3.6	--	--	--
AUG											
04...	0715	36	300	264	6.0	28.6	20.0	4.8	--	--	--
04...	0716	19	300	262	6.0	28.7	--	4.5	--	--	--
04...	0717	1.0	300	260	5.9	28.7	--	4.4	--	--	--
04...	0725	33	1000	277	6.1	28.9	22.0	4.6	21.5	13.6	27.8

## APPENDIX D-2

384318077020300 - POTOMAC RIVER AT HATTON POINT Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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, DISE- SOLVED (MG/L)	CHLORO- PHYLLIA FLUORO- METRIC CORR. (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLIA FLUORO- METRIC METHOD (UG/L)
AUG	0726	17	1000	279	6.1	28.8	---	4.8	---	---	---
04...	0727	1.0	1000	273	6.1	28.9	---	3.8	---	---	---
04...	0735	1.0	2400	269	6.0	28.7	25.0	---	20.8	---	---
04...	1710	---	50000	---	---	---	---	---	11.1	---	25.9
04...	1711	42	300	257	5.9	29.4	30.0	5.8	---	---	---
04...	1712	19	300	263	6.0	29.5	---	6.1	---	---	---
04...	1713	1.0	300	275	6.0	29.6	---	---	---	---	---
04...	1720	35	1000	256	5.8	29.4	24.0	5.5	---	---	---
04...	1721	17	1000	257	5.9	29.5	---	5.8	---	---	---
04...	1722	1.0	1000	273	6.3	30.5	---	7.0	---	---	---
04...	1730	1.0	2400	253	6.0	29.8	24.0	6.0	---	---	---
05...	0630	35	300	277	6.0	29.2	28.0	5.0	---	---	---
05...	0631	19	300	274	5.9	29.5	---	4.8	---	---	---
05...	0632	5.0	300	272	5.8	29.3	---	4.5	---	---	---
05...	0633	1.0	300	270	5.8	29.2	---	4.4	---	---	---
05...	0645	---	50000	---	---	---	---	---	17.0	11.6	22.4
05...	0646	34	1000	270	5.8	29.3	24.0	3.8	---	---	---
05...	0647	17	1000	269	5.8	29.3	---	4.1	---	---	---
05...	0648	1.0	1000	266	5.8	29.3	---	4.3	---	---	---
05...	0650	1.0	2400	258	5.7	29.1	25.0	2.8	---	---	---
05...	1841	37	300	279	6.0	29.7	20.0	5.0	---	---	---
05...	1842	20	300	271	6.0	29.7	---	5.2	---	---	---
05...	1843	3.0	300	289	6.2	29.8	---	6.1	---	---	---
05...	1855	35	1000	270	5.9	29.5	18.0	4.1	---	---	---
05...	1856	17	1000	270	5.9	29.5	---	4.3	---	---	---
05...	1857	3.0	1000	270	6.0	29.6	---	5.0	---	---	---
05...	1900	---	50000	---	---	---	---	---	23.5	13.6	29.8
05...	1901	2.0	2400	273	5.8	29.3	---	3.5	---	---	---
06...	0625	36	300	278	6.0	29.2	20.0	4.3	19.0	10.6	23.9
06...	0626	17	300	270	6.0	29.3	24.0	4.3	18.3	9.60	22.7
06...	0627	1.0	300	268	5.9	29.3	---	4.4	19.2	8.30	23.9
06...	0635	37	1000	265	5.9	29.3	24.0	3.9	17.7	39.5	36.6
06...	0636	17	1000	269	5.9	29.3	---	4.2	18.2	9.90	22.8
06...	0637	1.0	1000	268	5.9	29.3	---	4.2	18.9	9.50	23.2
06...	0645	---	50000	---	---	---	---	---	15.8	10.9	20.9
06...	0646	1.0	2400	269	5.9	29.2	24.0	3.5	6.00	13.2	12.3
06...	1636	37	300	270	6.0	29.9	23.0	4.1	15.9	13.2	22.0
06...	1637	19	300	271	6.0	30.2	---	4.7	20.3	9.60	24.7
06...	1638	1.0	300	274	6.0	30.4	---	4.8	18.1	9.60	22.5

## APPENDIX D-2

 384318077020300 -- POTOMAC RIVER AT HATTON POINT --- Cont.  
 WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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																					
06...	1645	32		1000		270		5.9		29.9		32.0		3.8		15.9		12.5		21.8	
06...	1646	17		1000		264		5.9		30.1		---		3.8		12.6		9.70		17.2	
06...	1647	1.0		1000		264		5.9		30.3		---		4.9		20.5		7.80		24.0	
06...	1650	---		50000		---		---		---		---		---		20.2		8.70		24.1	
06...	1655	3.0		2400		244		5.6		30.3		26.0		4.7		11.8		3.20		13.2	
06...	1656	1.0		2400		242		5.6		30.8		---		5.9		16.9		2.90		18.0	
07...	0645	37		300		272		5.5		29.5		23.0		4.0		---		---		---	
07...	0646	19		300		265		5.5		29.6		---		4.1		---		---		---	
07...	0647	1.0		300		265		5.5		29.5		---		4.1		---		---		---	
07...	0650	36		1000		270		5.4		29.5		22.0		3.2		---		---		---	
07...	0651	17		1000		270		5.4		29.5		---		3.1		---		---		---	
07...	0652	1.0		1000		270		5.4		29.5		---		3.2		---		---		---	
07...	0655	1.0		2400		270		5.4		29.5		19.0		3.1		---		---		---	
07...	0700	---		50000		---		---		---		---		---		11.9		12.2		17.6	
07...	1725	43		300		256		5.7		30.0		26.0		3.9		---		---		---	
07...	1726	23		300		255		5.8		30.0		---		4.2		---		---		---	
07...	1727	3.0		300		249		5.9		30.4		---		5.8		---		---		---	
07...	1730	---		50000		---		---		---		---		---		25.0		11.0		30.0	
07...	1731	34		1000		250		5.8		30.0		24.0		3.7		---		---		---	
07...	1732	19		1000		247		5.8		30.1		---		4.2		---		---		---	
07...	1733	3.0		1000		240		5.9		30.5		---		6.4		---		---		---	
07...	1740	3.0		2400		233		5.5		29.3		42.0		3.2		---		---		---	
08...	0605	34		300		261		6.0		29.7		24.0		4.4		---		---		---	
08...	0606	19		300		260		6.0		29.7		---		4.5		---		---		---	
08...	0607	1.0		300		259		6.0		29.7		---		4.5		---		---		---	
08...	0610	36		1000		251		5.9		29.8		17.0		3.1		---		---		---	
08...	0611	17		1000		254		5.9		29.8		---		4.2		---		---		---	
08...	0612	1.0		1000		254		5.9		29.8		---		4.4		---		---		---	
08...	0615	3.0		2400		222		5.3		29.9		24.0		3.0		---		---		---	
08...	0616	1.0		2400		223		5.3		29.9		---		3.0		---		---		---	
08...	0620	---		50000		---		---		---		---		---		15.4		10.0		20.1	
08...	1645	39		300		270		5.9		30.5		24.0		4.2		---		---		---	
08...	1646	21		300		270		5.9		30.5		---		4.3		---		---		---	
08...	1647	3.0		300		268		5.9		30.8		---		5.0		---		---		---	
08...	1655	35		1000		273		5.9		30.3		28.0		3.4		---		---		---	
08...	1656	19		1000		273		5.9		30.3		---		3.4		---		---		---	
08...	1657	3.0		1000		268		5.9		31.1		---		5.4		---		---		---	
08...	1705	3.0		2400		253		5.6		31.1		16.0		3.1		---		---		---	
08...	1715	---		50000		---		---		---		---		---		17.5		14.4		24.2	

## APPENDIX D-2

## 384318077020300 - POTOMAC RIVER AT HATTON POINT --- Cont.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 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)
AUG	1710	37	300	289	6.8	30.7	25.0	3.5	--	--	--
11...	1711	20	300	285	6.8	30.8	--	4.2	--	--	--
11...	1712	3.0	300	285	6.9	31.2	--	5.9	--	--	--
11...	1720	32	1000	292	6.8	30.8	22.0	3.4	--	--	--
11...	1721	17	1000	296	6.8	30.8	--	4.1	--	--	--
11...	1722	3.0	1000	285	6.8	31.0	--	5.1	--	--	--
11...	1730	--	50000	--	--	--	--	--	32.0	10.7	36.8
11...	1731	1.0	2400	279	6.8	31.3	14.0	5.0	--	12.1	25.7
13...	0625	33	300	286	6.1	29.6	25.0	3.6	20.1	9.70	25.6
13...	0626	19	300	286	6.1	29.5	--	3.7	21.2	10.2	24.1
13...	0627	3.0	300	285	6.1	29.5	--	3.7	19.4	10.0	24.6
13...	0628	1.0	300	285	6.1	29.5	--	3.6	20.2	19.6	32.1
13...	0640	34	1000	275	6.0	29.6	24.0	3.3	22.9	13.8	27.1
13...	0641	17	1000	275	6.0	29.6	--	3.4	20.7	8.30	23.4
13...	0642	3.0	1000	275	6.0	29.5	--	3.3	19.7	10.3	22.8
13...	0643	1.0	1000	275	6.0	29.5	--	3.3	18.0	13.3	21.7
13...	0645	--	50000	--	--	--	--	--	15.4	17.7	16.9
13...	0650	3.0	2400	280	6.0	29.4	18.0	2.9	8.40	13.1	14.2
13...	0651	1.0	2400	280	6.0	29.4	--	2.9	7.90	9.70	11.0
13...	1615	1.0	2400	289	5.8	30.1	23.0	3.7	6.40	9.40	29.4
13...	1645	--	50000	--	--	--	--	--	25.2	15.8	34.3
13...	1646	39	300	305	6.0	29.8	22.0	4.5	27.0	14.2	31.4
13...	1647	33	300	297	5.9	29.8	--	4.3	24.9	10.2	31.4
13...	1648	19	300	300	6.0	29.8	--	4.6	26.8	9.90	34.4
13...	1649	8.0	300	279	5.8	30.0	--	5.0	30.0	7.80	50.8
13...	1650	3.0	300	276	5.9	30.2	--	6.9	47.7	8.20	53.0
13...	1651	2.0	300	275	6.0	30.3	--	8.0	49.7	8.70	50.3
13...	1652	1.0	300	--	--	--	--	--	46.8	14.0	25.8
13...	1700	34	1000	302	5.9	29.8	22.0	4.2	19.2	10.8	31.6
13...	1701	17	1000	308	6.0	29.9	--	4.8	26.8	9.10	49.6
13...	1702	3.0	1000	317	6.2	30.0	--	5.4	45.8	9.00	41.6
13...	1703	1.0	1000	313	6.1	29.9	--	5.7	37.5	10.5	15.5
20...	0610	38	300	291	5.9	25.6	30.0	3.7	10.6	9.80	13.4
20...	0611	19	300	289	5.9	25.7	--	3.6	8.80	7.40	11.5
20...	0612	1.0	300	289	5.9	25.7	--	3.5	8.00	17.1	17.7
20...	0620	29	1000	290	5.9	25.8	29.0	3.5	9.50	8.90	12.6
20...	0621	17	1000	287	5.9	25.8	--	3.5	8.40	7.80	11.7
20...	0622	1.0	1000	286	5.9	25.8	--	3.6	8.00	8.90	13.1
20...	0630	--	50000	--	--	--	--	--	--	--	--



## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- 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 (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/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)
(00003)	(00009)	(00005)	(00010)	(00400)	(00010)	(00077)	(00300)	(32213)	(32217)	(32213)	(32217)
AUG											
20...	0635	1.0	2400	287	5.9	25.7	---	3.4	6.80	9.40	11.3
20...	1600	36	300	283	5.6	26.2	28.0	4.1	11.7	7.50	15.2
20...	1601	25	300	282	5.6	26.2	---	3.9	10.8	8.50	14.8
20...	1602	19	300	281	5.6	26.2	---	4.0	11.4	8.30	15.2
20...	1603	6.0	1000	280	5.5	26.1	---	4.0	11.8	7.00	15.0
20...	1604	3.0	300	278	5.5	26.1	---	3.9	11.6	5.80	14.3
20...	1605	1.0	300	279	5.5	26.1	---	3.9	4.20	23.8	15.7
20...	1610	38	1000	274	5.6	26.1	26.0	3.3	9.10	10.1	13.9
20...	1611	17	1000	272	5.5	26.1	---	3.4	9.80	8.80	14.0
20...	1612	6.0	1000	272	5.5	26.1	---	3.4	10.3	6.70	13.4
20...	1613	3.0	1000	272	5.5	26.1	---	3.5	10.0	7.80	13.6
20...	1614	1.0	1000	272	5.5	26.1	---	3.6	10.2	7.30	13.5
20...	1620	---	50000	---	---	---	---	---	8.90	6.80	12.1
20...	1625	3.0	2400	302	5.9	26.0	23.0	4.1	4.10	4.70	6.30
20...	1626	1.0	2400	302	5.9	26.0	---	4.1	4.10	4.80	6.40
25...	1755	41	300	330	6.6	26.1	33.0	4.0	6.50	10.0	11.3
25...	1756	19	300	331	6.6	25.9	---	4.0	6.20	10.3	11.1
25...	1757	5.0	300	330	6.6	26.4	---	4.4	8.40	6.80	11.6
25...	1758	1.0	300	323	6.7	26.8	---	5.9	18.9	5.00	21.0
25...	1810	2.0	2400	319	6.5	27.2	18.0	3.7	4.20	7.30	7.70
25...	1815	---	50000	---	---	---	---	---	8.90	7.70	12.5
25...	1816	33	1000	329	6.5	25.9	26.0	3.6	10.0	33.8	26.2
25...	1817	17	1000	329	6.5	26.0	---	3.7	6.40	10.0	11.1
25...	1818	1.0	1000	327	6.6	26.4	---	4.3	8.60	5.20	11.0
SEP											
03...	1615	38	300	338	6.4	29.5	32.0	4.0	10.6	6.00	13.3
03...	1616	19	300	335	6.4	29.5	---	4.0	11.7	5.20	14.1
03...	1617	1.0	300	333	6.4	29.6	---	4.8	17.0	4.60	19.0
03...	1618	---	300	---	---	---	---	---	12.5	6.00	15.2
03...	1635	30	1000	340	6.4	29.2	30.0	3.4	8.80	15.0	16.0
03...	1636	17	1000	342	6.4	29.3	---	3.6	8.50	7.50	12.0
03...	1637	1.0	1000	334	6.5	29.6	---	4.5	13.8	5.20	16.2
03...	1638	---	1000	---	---	---	---	---	8.60	7.60	12.2
03...	1640	---	50000	---	---	---	---	---	11.3	6.00	14.0
03...	1650	2.0	2400	345	6.5	29.6	25.0	4.2	9.20	5.20	11.6
03...	1651	---	2400	---	---	---	---	---	9.60	5.40	12.1
15...	1640	38	300	346	6.8	25.9	23.0	7.0	---	---	---
15...	1641	19	300	345	6.8	25.9	---	6.9	---	---	---
15...	1642	1.0	300	345	6.8	25.9	---	6.6	---	---	---
15...	1643	---	300	---	---	---	---	---	17.5	8.20	21.2

APPENDIX D-2

384318077020300 - POTOMAC RIVER AT HATTON POINT --- Cont.  
WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

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)
SEP	1650	--	50000	--	--	--	--	--	16.4	8.20	20.2
15...	1651	30	1000	351	6.7	25.8	24.0	5.1	12.1	13.6	18.6
15...	1652	17	1000	351	6.6	25.9	--	5.0	12.5	8.60	16.5
15...	1653	6.0	1000	351	6.6	26.0	--	5.0	12.2	7.20	15.6
15...	1654	1.0	1000	348	6.6	26.0	--	5.3	13.8	4.60	15.8
15...	1700	1.0	2400	355	6.7	25.9	17.0	5.5	--	--	--
15...	1701	--	2400	--	--	--	--	--	9.50	9.40	14.0

## 384136077054600 -- POTOMAC RIVER AT MARSHALL HALL

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	TRAN- SPAR- ENCY (SECCHI DISK) (IN)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)
OCT	0930	--	2100	--	--	--	--
06...	0931	23	2100	227	--	17.8	--
06...	0932	16	2100	232	--	18.0	8.0
06...	0933	3.0	2100	237	--	18.0	--
06...	0934	1.0	2100	232	--	18.0	--
06...	1130	1.0	2100	--	--	--	--
28...	1131	10	2100	--	--	--	--
28...	1132	19	2100	--	--	--	--
NOV	1220	--	2100	--	--	--	--
08...	1005	--	2100	--	--	--	--
15...	1430	--	2100	--	--	--	--
27...	1215	4.0	2100	--	--	--	--
27...	1216	23	2100	--	--	--	--
29...	1040	3.0	2100	--	--	--	--
29...	1042	10	2100	--	--	--	--
29...	1043	17	2100	--	--	--	--
DEC	1010	21	2400	--	8.0	3.9	18.0
20...	1011	10	2400	--	8.0	3.9	--
20...	1012	3.0	2400	--	8.0	3.9	--
20...	1025	15	900	--	7.9	3.9	--
20...	1026	8.0	900	--	8.0	3.9	--
20...	1027	3.0	900	--	8.0	4.0	--
20...	1030	--	50000	--	--	--	--
JAN	0940	--	2400	--	--	--	--
16...	0945	24	2400	340	8.1	3.3	--
16...	0946	12	2400	335	8.1	3.3	--
16...	0947	3.0	2400	335	8.0	3.3	--
16...	0948	1.0	2400	335	8.0	3.3	--
16...	0955	--	50000	--	--	--	--
16...	1010	17	900	345	7.9	3.3	20.0
16...	1011	9.0	900	340	7.9	3.3	--
16...	1012	3.0	900	335	7.9	3.3	--
16...	1013	1.0	900	335	7.9	3.3	--
16...	1020	--	900	--	--	--	--
FEB	1120	19	900	285	8.1	1.8	24.0
19...	1121	15	900	285	8.2	1.5	--
19...	1122	10	900	285	8.2	1.8	--
19...	1123	5.0	900	285	8.2	1.8	--
19...	1124	3.0	900	285	8.2	1.8	--

## APPENDIX D-2

384136077054600 - POTOMAC RIVER AT MARSHALL HALL -- Cont.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	OXYGEN, DTS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A PHYTO- PLANK- TON, CORR. (UG/L) (32211)	PHEO- PHYTTN PHYTO- PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYLL A PHYTO- PLANK- TON, UNCORR. (UG/L) (32230)	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 06...	--	3.20	3.50	5.60	--	--	--
06...	8.8	--	--	--	--	--	--
06...	8.7	--	--	--	--	--	--
06...	8.7	--	--	--	--	--	--
06...	8.7	--	--	--	--	--	--
28...	--	--	--	--	8.40	4.90	10.8
28...	--	--	--	--	8.70	5.20	11.3
28...	--	--	--	--	8.90	5.70	11.7
NOV 08...	--	--	--	--	6.50	5.00	8.90
15...	--	--	--	--	4.30	3.40	5.90
15...	--	--	--	--	5.80	4.60	8.00
27...	--	--	--	--	11.3	2.90	12.7
27...	--	--	--	--	11.9	4.50	14.0
29...	--	--	--	--	25.1	7.80	28.8
29...	--	--	--	--	32.4	9.70	37.0
29...	--	--	--	--	33.6	14.0	40.4
DEC 13.5	--	--	--	--	--	--	--
20...	12.6	--	--	--	--	--	--
20...	11.8	--	--	--	--	--	--
20...	13.0	--	--	--	--	--	--
20...	12.1	--	--	--	--	--	--
20...	11.6	--	--	--	--	--	--
20...	--	--	--	--	11.6	3.90	14.5
JAN 16...	--	--	--	--	22.4	5.20	24.5
16...	13.4	--	--	--	--	--	--
16...	13.6	--	--	--	--	--	--
16...	13.7	--	--	--	--	--	--
16...	13.8	--	--	--	--	--	--
16...	--	--	--	--	24.4	4.80	26.3
16...	13.6	--	--	--	--	--	--
16...	13.7	--	--	--	--	--	--
16...	13.7	--	--	--	--	--	--
16...	13.6	--	--	--	--	--	--
16...	--	--	--	--	26.4	4.50	28.2
FEB 14.3	--	--	--	--	44.5	4.10	45.8
19...	14.5	--	--	--	--	--	--
19...	14.5	--	--	--	--	--	--
19...	14.5	--	--	--	--	--	--
19...	14.6	--	--	--	34.7	6.70	37.5

## 384136077054600 -- POTOMAC RIVER AT MARSHALL HALL -- Cont.

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LOC- TION	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 CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL/A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
FEB											
19...	1125	--	5000	--	--	--	--	--	38.5	3.70	39.8
19...	1130	17	2400	300	8.1	2.0	--	14.1	36.3	7.60	39.5
19...	1131	15	2400	300	8.1	2.0	24.0	14.1	--	--	--
19...	1132	10	2400	300	8.1	2.0	--	14.0	--	--	--
19...	1133	5.0	2400	300	8.1	1.8	--	14.0	--	--	--
19...	1134	3.0	2400	300	8.1	2.0	--	14.0	31.2	3.40	32.4
MAR											
18...	0925	--	900	--	--	--	--	--	15.9	9.20	20.2
18...	0930	16	900	266	7.5	7.4	--	11.2	--	--	--
18...	0931	9.0	900	267	7.5	7.6	--	11.2	--	--	--
18...	0932	3.0	900	267	7.5	7.5	--	11.2	--	--	--
18...	0935	--	50000	--	--	--	--	--	15.8	7.00	19.0
18...	0940	10	2400	255	7.4	7.6	--	11.6	--	--	--
18...	0941	3.0	2400	256	7.4	7.6	--	11.5	--	--	--
18...	0950	--	2400	--	--	--	--	--	14.9	10.3	19.6
APR											
22...	1210	18	900	181	7.0	15.0	16.0	9.3	6.30	4.90	8.60
22...	1211	11	900	181	7.0	15.0	--	9.3	--	--	--
22...	1212	3.0	900	181	7.0	15.3	--	9.4	6.70	3.50	8.30
22...	1220	--	50000	--	--	--	--	--	6.20	4.60	8.40
22...	1230	24	2400	181	7.0	15.1	--	9.3	6.50	7.10	9.80
22...	1231	14	2400	182	7.0	15.0	--	9.2	--	--	--
22...	1232	3.0	2400	183	7.0	15.4	--	9.3	6.00	4.00	7.80
MAY											
19...	1110	16	900	245	7.1	20.8	18.0	5.8	16.3	14.6	23.1
19...	1111	10	900	245	7.1	20.8	--	5.9	--	--	--
19...	1112	3.0	900	242	7.2	21.0	--	6.0	28.3	11.2	33.3
19...	1115	--	50000	--	--	--	--	--	20.7	15.2	27.8
19...	1120	11	3500	256	7.4	21.0	18.0	6.5	17.3	17.4	25.5
19...	1121	3.0	3500	257	7.4	21.3	--	6.7	17.5	15.5	24.8
JUN											
17...	1515	3.0	590	277	7.2	24.5	24.0	7.3	27.3	14.6	34.0
17...	1516	11	590	277	7.1	24.1	--	6.6	27.4	20.5	37.0
17...	1525	2.0	2490	280	7.2	24.7	26.0	7.3	24.7	14.3	31.3
17...	1526	4.0	2490	277	7.2	24.5	--	7.3	26.7	14.5	33.3
17...	1527	12	2490	278	7.1	24.0	--	6.3	27.4	20.5	37.0
17...	1528	20	2490	278	7.1	23.8	--	6.1	27.2	32.7	42.7
17...	1535	3.0	3500	291	7.3	24.7	22.0	7.9	31.4	17.4	39.4
17...	1536	12	3500	280	7.1	24.3	--	6.8	28.8	20.6	38.3
17...	1540	--	50000	--	--	--	--	--	28.3	22.9	39.0
17...	1050	11	590	273	6.9	24.8	24.0	6.4	27.0	24.0	38.2
27...	1051	3.0	590	273	6.9	24.9	--	6.6	28.9	15.2	35.8
27...	1110	20	2490	274	6.8	24.8	24.0	6.1	23.2	33.1	39.0

## APPENDIX D-2

384136077054600 - POTOMAC RIVER AT MARSHALL HALL --- Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING 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)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLUORO- METRIC UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUN											
27...	1111	12	2490	274	6.8	24.9	---	6.1	21.6	19.5	30.7
27...	1112	3.0	2490	274	6.8	25.0	---	6.3	22.5	14.6	29.2
27...	1115	---	50000	---	---	---	---	---	22.6	19.0	31.5
27...	1120	12	3500	274	6.8	25.1	18.0	6.0	18.8	16.5	26.5
27...	1121	3.0	3500	274	6.8	25.2	---	6.0	19.0	14.0	25.5
JUL											
04...	1135	11	690	270	7.0	26.6	18.0	7.5	42.6	20.0	51.6
04...	1136	3.0	690	270	7.1	26.5	---	7.7	47.6	16.9	55.1
04...	1155	20	2490	274	6.9	26.5	18.0	7.3	30.0	26.4	42.4
04...	1156	12	2490	274	6.8	26.5	---	7.2	26.8	17.7	35.0
04...	1157	3.0	2490	274	6.9	26.5	---	7.3	27.8	15.4	34.9
04...	1200	12	3500	276	6.8	26.7	22.0	7.2	21.3	21.1	31.2
04...	1201	3.0	3500	275	6.8	26.5	---	7.2	21.8	13.0	27.8
04...	1215	---	50000	---	---	---	---	---	28.1	19.1	36.9
09...	1120	11	590	272	6.3	26.0	26.0	5.0	14.5	13.1	20.7
09...	1121	3.0	690	272	6.3	25.8	---	4.8	18.1	10.4	22.9
09...	1130	---	50000	---	---	---	---	---	12.5	14.6	19.4
09...	1135	20	2490	283	6.3	25.7	29.0	4.1	12.7	21.7	23.0
09...	1136	12	2490	283	6.3	25.7	---	4.4	11.0	14.2	17.7
09...	1137	4.0	2490	275	6.3	26.0	---	4.9	13.2	10.8	18.3
09...	1140	12	3500	278	6.3	25.8	24.0	4.8	9.80	18.9	18.9
09...	1141	3.0	3500	273	6.3	26.0	---	5.0	12.5	11.7	18.0
16...	1120	11	690	271	6.3	28.0	24.0	5.8	39.1	30.7	53.5
16...	1121	1.0	690	271	6.4	28.5	---	6.7	42.4	13.1	48.1
16...	1130	23	2490	280	6.2	28.2	21.0	5.8	28.9	15.2	35.8
16...	1131	12	2490	280	6.2	28.2	---	5.9	31.9	14.0	38.2
16...	1132	6.0	2490	278	6.3	28.4	---	6.7	36.9	13.9	43.2
16...	1133	3.0	2490	270	6.9	29.1	---	8.5	59.1	15.8	65.9
16...	1134	1.0	2490	269	6.9	29.1	---	8.5	54.3	15.0	60.8
16...	1135	---	50000	---	---	---	---	---	33.3	14.5	39.8
16...	1141	12	3500	282	6.3	28.3	30.0	6.1	25.7	13.6	31.9
16...	1142	1.0	3500	285	6.4	28.8	---	6.9	28.1	9.00	32.1
23...	0920	14	590	298	6.4	29.6	22.0	5.5	30.9	16.4	38.4
23...	0921	1.0	690	299	6.4	29.6	---	5.6	30.6	11.6	35.8
23...	0925	20	2490	299	6.4	29.6	22.0	5.5	28.3	15.1	35.2
23...	0926	12	2490	299	6.4	29.7	---	5.4	27.4	11.9	32.8
23...	0927	1.0	2490	299	6.4	29.7	---	5.4	18.0	7.60	21.4
23...	0930	---	50000	---	---	---	---	---	26.7	12.4	32.3
23...	0935	12	3500	290	6.4	29.1	20.0	5.6	20.6	11.7	26.0
23...	0936	1.0	3500	295	6.4	29.3	---	5.6	---	---	---

## 384136077054600 - POTOMAC RIVER AT MARSHALL HALL --- Cont.

## WATER QUALITY DATA: WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
JUL											
23...	1900	13	590	291	6.4	29.1	22.0	7.1	--	--	--
23...	1901	1.0	590	294	6.2	29.2	--	6.6	--	--	--
23...	1910	22	2490	296	6.1	29.4	24.0	4.5	--	--	--
23...	1911	12	2490	297	6.1	29.4	--	4.6	--	--	--
23...	1912	1.0	2490	297	6.1	29.5	--	4.7	--	--	--
23...	1915	--	50000	--	--	--	--	--	27.0	11.8	32.4
23...	1920	12	3500	297	6.1	29.5	24.0	4.5	--	--	--
23...	1921	1.0	3500	296	6.1	29.5	--	4.6	--	--	--
30...	0730	14	690	266	6.1	28.1	16.0	6.3	57.4	35.8	73.9
30...	0731	1.0	690	266	6.2	28.2	--	6.6	61.8	20.0	70.6
30...	0745	22	2490	263	6.0	28.3	17.0	4.9	35.3	27.4	48.1
30...	0746	12	2490	264	6.0	28.3	--	5.0	36.2	14.6	42.7
30...	0747	1.0	2490	263	6.0	28.3	--	5.0	32.4	14.2	38.8
30...	0750	--	50000	--	--	--	--	--	45.8	16.8	53.3
30...	0755	13	3500	263	6.0	28.3	18.0	5.0	32.6	17.3	40.5
30...	0756	1.0	3500	263	6.0	28.3	--	5.1	33.5	12.4	39.0
30...	1755	13	690	267	6.2	28.8	14.0	4.8	--	--	--
30...	1756	3.0	690	266	6.5	29.1	--	6.8	--	--	--
30...	1805	23	2490	274	6.3	29.0	22.0	4.2	--	--	--
30...	1806	12	2490	274	6.4	29.0	--	4.7	--	--	--
30...	1807	4.0	2490	276	6.4	29.1	--	5.4	--	--	--
30...	1815	10	3500	272	6.4	29.2	13.0	5.6	--	--	--
30...	1816	3.0	3500	268	6.9	29.5	--	9.6	--	--	--
30...	1840	--	50000	--	--	--	--	--	36.5	9.80	40.8
AUG											
04...	0755	12	690	243	5.8	28.8	17.0	5.2	--	--	--
04...	0756	1.0	690	242	5.8	28.8	--	5.2	--	--	--
04...	0810	20	2490	244	5.7	29.0	19.0	4.2	--	--	--
04...	0811	12	2490	244	5.7	29.0	--	4.3	--	--	--
04...	0812	1.0	2490	246	5.7	29.0	--	4.4	--	--	--
04...	0815	--	50000	--	--	--	--	--	7.80	3.80	9.50
04...	0820	10	3500	238	5.6	28.8	10.0	4.3	--	--	--
04...	0821	1.0	3500	240	5.7	28.9	--	4.5	--	--	--
04...	1800	14	690	244	6.2	29.6	18.0	7.4	--	--	--
04...	1801	1.0	590	242	6.4	30.1	--	8.2	--	--	--
04...	1805	22	2490	246	6.0	29.6	23.0	6.6	--	--	--
04...	1806	12	2490	246	6.1	29.9	--	7.1	--	--	--
04...	1807	1.0	2490	247	6.2	30.0	--	7.5	--	--	--
04...	1810	--	50000	--	--	--	--	--	49.5	5.40	51.4
04...	1815	11	3500	243	5.9	30.0	24.0	6.9	--	--	--

APPENDIX D-2

384136077054600 - POTOMAC RIVER AT MARSHALL HALL --- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCTI- 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)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG											
04...	1816	1.0	3500	242	5.9	30.3	---	7.0	---	---	---
05...	0705	20	2490	250	5.8	29.3	20.0	5.5	---	---	---
05...	0706	12	2490	251	5.8	29.3	---	5.5	---	---	---
05...	0707	1.0	2490	250	5.8	29.3	---	5.6	---	---	---
05...	0710	12	690	250	5.9	29.2	23.0	6.5	---	---	---
05...	0711	1.0	690	250	5.9	29.2	---	6.5	---	---	---
05...	0730	11	3500	253	5.7	29.1	24.0	3.9	---	---	---
05...	0731	1.0	3500	252	5.7	29.0	---	4.1	---	---	---
05...	1910	7.0	690	248	6.2	29.8	---	8.6	---	---	---
05...	1911	3.0	690	249	6.1	29.8	---	8.4	---	---	---
05...	1920	22	2490	250	5.8	29.5	13.0	5.5	---	---	---
05...	1921	12	2490	247	5.8	29.7	---	6.3	---	---	---
05...	1922	3.0	2490	247	5.8	29.7	---	6.3	---	---	---
05...	1930	---	50000	---	---	---	---	---	38.5	15.1	45.2
05...	1931	9.0	3500	245	5.8	29.8	12.0	6.4	---	---	---
05...	1932	6.0	3500	245	5.8	29.8	---	6.5	---	---	---
05...	1933	3.0	3500	245	5.8	29.8	---	6.7	---	---	---
06...	0705	14	690	256	6.1	29.1	18.0	6.2	52.7	24.0	63.6
06...	0706	1.0	590	256	6.1	29.1	---	6.2	52.0	19.7	60.8
06...	0715	---	50000	---	---	---	---	---	38.7	16.6	46.2
06...	0716	22	2490	253	6.1	29.3	19.0	5.6	45.7	30.1	59.6
06...	0717	12	2490	256	6.1	29.3	---	5.7	43.3	15.9	50.4
06...	0718	1.0	2490	255	6.0	29.3	---	5.6	39.7	11.2	44.6
06...	0725	13	3500	255	5.8	29.3	19.0	4.3	17.2	22.4	27.8
06...	0726	1.0	3500	252	5.8	29.3	---	4.5	15.2	12.9	21.3
06...	1710	12	690	254	6.4	30.0	14.0	8.5	74.6	18.1	82.3
06...	1711	6.0	690	252	6.5	30.1	---	---	78.6	22.6	88.4
06...	1712	3.0	690	253	7.8	30.3	---	10.8	102	23.2	111
06...	1713	1.0	590	254	7.1	30.2	---	---	85.2	14.2	90.9
06...	1715	22	2490	252	6.1	29.9	16.0	6.6	48.9	16.3	56.1
06...	1716	12	2490	253	6.1	29.9	---	6.7	49.6	14.3	55.9
06...	1717	8.0	2490	255	6.4	30.2	---	8.6	70.7	12.3	75.7
06...	1718	4.0	2490	254	6.6	30.3	---	9.4	80.4	11.1	84.6
06...	1719	1.0	2490	255	6.6	30.3	---	9.8	78.2	8.90	81.4
06...	1725	---	50000	---	---	---	---	---	68.4	11.9	73.2
06...	1740	13	3500	252	6.1	29.9	16.0	6.7	45.7	10.6	50.1
06...	1741	7.0	3500	254	6.2	30.0	---	7.4	54.8	10.5	59.1
06...	1742	1.0	3500	252	6.4	30.6	---	9.7	65.4	10.8	69.6
07...	0710	16	690	254	5.7	29.5	19.0	6.7	---	---	---



## 384136077054600 - POTOMAC RIVER AT MARSHALL HALL -- Cont.

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	SAMP- L 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)	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)	(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG											
07...	0711	1.0	690	252	5.8	29.5	--	7.2	--	--	--
07...	0715	23	2490	253	5.5	29.6	18.0	5.6	--	--	--
07...	0716	12	2490	253	5.5	29.6	--	5.6	--	--	--
07...	0717	1.0	2490	254	5.5	29.6	--	5.6	--	--	--
07...	0720	--	50000	--	--	--	--	--	43.5	14.2	49.8
07...	0725	13	3500	253	5.3	29.5	23.0	4.3	--	--	--
07...	0726	1.0	3500	252	5.3	29.4	--	4.4	--	--	--
07...	1755	15	690	224	6.0	30.1	12.0	6.2	--	--	--
07...	1756	11	690	224	6.3	30.5	--	8.6	--	--	--
07...	1757	3.0	690	224	6.5	30.6	--	9.4	--	--	--
07...	1810	22	2490	225	6.0	30.3	13.0	6.9	--	--	--
07...	1811	12	2490	225	6.1	30.3	--	7.3	--	--	--
07...	1812	3.0	2490	225	6.7	30.8	--	10.4	--	--	--
07...	1815	--	50000	--	--	--	--	--	86.0	10.8	90.0
07...	1816	13	3500	224	6.1	30.5	17.0	7.7	--	--	--
07...	1817	8.0	3500	224	6.1	30.5	--	7.7	--	--	--
07...	1818	3.0	3500	224	6.2	30.8	--	9.1	--	--	--
08...	0625	17	690	243	6.2	29.5	25.0	6.4	--	--	--
08...	0626	1.0	690	245	6.3	29.7	--	7.4	--	--	--
08...	0630	23	2490	246	6.4	29.9	19.0	7.3	--	--	--
08...	0631	17	2490	246	6.3	29.9	--	7.4	--	--	--
08...	0632	1.0	2490	245	6.3	29.9	--	7.3	--	--	--
08...	0640	13	3500	242	5.9	29.8	23.0	5.6	--	--	--
08...	0641	1.0	3500	243	6.0	29.9	--	6.2	--	--	--
08...	0645	--	50000	--	--	--	--	--	57.0	17.2	64.5
08...	1715	15	690	247	6.3	30.9	12.0	8.3	--	--	--
08...	1716	9.0	690	247	6.3	31.0	--	8.6	--	--	--
08...	1717	3.0	690	247	6.8	31.3	--	10.2	--	--	--
08...	1725	23	2490	246	6.0	30.6	12.0	6.9	--	--	--
08...	1726	13	2490	247	6.0	30.6	--	7.0	--	--	--
08...	1727	3.0	2490	247	6.3	30.9	--	9.1	--	--	--
08...	1730	13	3500	246	6.1	30.9	16.0	7.8	--	--	--
08...	1731	8.0	3500	246	6.1	30.9	--	7.9	--	--	--
08...	1732	3.0	3500	246	6.1	30.9	--	8.0	--	--	--
08...	1745	--	50000	--	--	--	--	--	72.0	17.6	79.5
11...	1755	15	690	239	6.8	30.8	13.0	6.8	--	--	--
11...	1756	9.0	690	239	6.8	30.8	--	7.2	--	--	--
11...	1757	3.0	690	237	7.2	31.1	--	10.4	--	--	--
11...	1800	22	2490	247	6.5	30.6	24.0	3.6	--	--	--

## APPENDIX D-2

384136077054600 - POTOMAC RIVER AT MARSHALL HALL --- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	1801	12	2490	248	6.5	30.6	---	3.8	---	---	---
11...	1802	3.0	2490	247	6.5	30.6	---	3.7	---	---	---
11...	1810	12	3500	247	6.5	30.7	22.0	4.2	---	---	---
11...	1811	7.0	3500	246	6.5	30.7	---	4.2	---	---	---
11...	1812	3.0	3500	245	6.5	30.7	---	4.3	---	---	---
11...	1815	---	50000	---	---	---	---	---	43.0	17.8	51.0
13...	0705	15	690	231	6.0	29.1	16.0	5.5	60.0	27.4	72.4
13...	0707	3.0	690	231	6.0	29.1	---	5.7	58.2	16.7	65.4
13...	0708	1.0	690	230	6.0	29.0	---	5.8	61.9	13.4	67.5
13...	0715	22	2490	238	5.7	29.7	23.0	3.4	22.5	38.8	41.0
13...	0716	12	2490	238	5.7	29.7	---	3.4	18.2	13.2	24.3
13...	0717	8.0	2490	238	5.7	29.7	---	3.3	17.5	13.0	23.5
13...	0718	3.0	2490	238	5.7	29.6	---	3.3	18.4	11.6	23.6
13...	0719	1.0	2490	238	5.7	29.6	---	3.3	18.2	11.8	23.6
13...	0725	---	50000	---	---	---	---	---	32.2	16.0	39.5
13...	0730	13	3500	237	5.7	29.6	23.0	3.4	17.6	13.3	23.8
13...	0731	8.0	3500	237	5.7	29.7	---	3.4	17.1	13.3	23.4
13...	0732	3.0	3500	237	5.7	29.6	---	3.4	15.9	12.1	21.6
13...	0733	1.0	3500	237	5.7	29.6	---	3.4	15.8	13.4	22.1
13...	1730	---	50000	---	---	---	---	---	25.8	10.6	30.6
13...	1731	14	690	247	5.4	29.8	20.0	3.5	18.2	11.5	23.5
13...	1732	7.0	690	248	5.4	29.8	---	3.8	22.7	9.50	27.0
13...	1733	3.0	690	245	5.5	29.9	---	5.4	32.7	8.90	36.5
13...	1734	1.0	690	245	5.5	30.0	---	5.9	35.6	9.30	39.6
13...	1735	5.0	690	---	---	---	---	---	22.5	11.6	27.8
13...	1745	19	2490	261	5.5	29.8	24.0	3.1	14.2	11.1	19.4
13...	1746	12	2490	260	5.5	30.0	---	3.5	15.8	9.40	20.1
13...	1747	8.0	2490	255	5.5	30.0	---	4.2	19.6	8.70	23.5
13...	1748	3.0	2490	256	5.5	30.0	---	4.4	22.7	7.70	26.1
13...	1749	1.0	2490	254	5.5	30.0	---	4.4	22.9	6.80	25.8
13...	1800	10	3500	245	5.4	29.8	23.0	3.3	17.8	10.6	22.7
13...	1801	8.0	3500	243	5.4	29.9	---	4.2	24.2	10.2	28.8
13...	1802	3.0	3500	241	5.5	29.9	---	5.4	34.6	8.00	38.0
13...	1803	1.0	3500	240	5.4	29.9	---	5.8	35.7	8.20	39.1
19...	1150	17	900	241	5.7	26.7	23.0	4.3	---	---	---
19...	1151	10	900	241	5.7	26.7	---	4.4	---	---	---
19...	1152	3.0	900	240	5.7	26.7	---	4.5	---	---	---
19...	1155	---	50000	---	---	---	---	---	27.5	12.7	33.2
19...	1210	17	2400	244	5.6	26.8	30.0	4.0	---	---	---

## WATER QUALITY DATA. WATER YEAR. OCTOBER 1979 TO SEPTEMBER 1980

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 FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
			(000009)	(000095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG											
1211	10	10	2400	243	5.6	26.8	--	4.1	--	--	--
1212	3.0	19...	2400	243	5.6	26.8	--	4.1	--	--	--
0650	15	20...	590	247	5.6	26.0	--	3.4	15.8	21.4	25.9
0651	7.0	20...	590	247	5.5	26.1	--	3.4	14.2	13.0	20.3
0652	1.0	20...	590	247	5.5	26.1	--	3.4	14.2	13.0	20.3
0700	--	20...	50000	--	--	--	--	--	11.2	16.2	19.0
0701	22	20...	2490	256	5.6	26.1	--	3.0	13.7	22.0	24.2
0702	12	20...	2490	256	5.6	26.1	--	3.1	10.5	13.8	17.1
0703	1.0	20...	2490	256	5.6	26.1	--	3.1	10.6	11.7	16.1
0705	10	20...	3500	257	5.5	25.8	23.0	2.9	5.90	17.0	14.1
0706	1.0	20...	3500	259	5.6	25.8	--	3.1	8.30	12.3	14.2
1630	23	20...	2490	235	5.5	26.2	22.0	5.5	41.0	12.6	46.5
1631	12	20...	2490	237	5.4	26.2	--	5.3	41.2	9.00	45.0
1632	4.0	20...	2490	237	5.4	26.2	--	5.4	37.9	13.9	44.1
1633	1.0	20...	2490	238	5.5	26.2	--	5.5	41.2	11.8	46.4
1640	17	20...	590	232	5.7	26.1	18.0	7.1	55.9	12.5	61.2
1641	8.0	20...	590	232	5.7	26.2	--	7.1	57.8	13.2	63.3
1642	4.0	20...	590	234	5.7	26.2	--	7.0	57.6	10.4	61.8
1643	1.0	20...	690	235	5.6	26.2	--	6.9	49.1	12.7	54.5
1650	--	20...	50000	--	--	--	--	--	45.0	13.2	50.8
1700	14	20...	3500	241	5.4	26.3	24.0	4.5	26.1	10.8	31.0
1701	10	20...	3500	241	5.4	26.3	--	4.5	24.5	10.1	29.1
1702	4.0	20...	3500	243	5.4	26.3	--	4.6	30.0	7.80	33.3
1703	1.0	20...	3500	243	5.4	26.3	--	4.7	28.3	7.90	31.7
1840	15	25...	590	263	6.3	26.5	18.0	5.2	35.6	18.9	44.3
1841	4.0	25...	690	258	6.4	26.5	--	6.5	41.7	12.7	47.3
1842	1.0	25...	590	258	6.5	26.7	--	7.0	44.7	12.4	50.1
1852	1.0	25...	2490	281	6.3	26.2	--	4.5	23.5	7.40	26.8
1855	11	25...	2490	283	6.3	26.2	--	4.2	21.7	10.2	26.4
1856	22	25...	2490	284	6.3	26.2	21.0	4.1	21.3	16.7	29.1
1900	15	25...	3500	284	6.4	26.4	24.0	4.5	25.0	13.3	31.1
1901	1.0	25...	3500	284	6.4	26.3	--	4.6	22.9	7.50	26.2
1905	--	25...	50000	--	--	--	--	--	28.1	13.1	34.0
SEP											
1740	15	03...	690	303	6.5	29.5	21.0	6.1	29.4	14.2	35.9
1741	10	03...	590	298	6.4	29.5	--	6.3	34.8	8.00	38.3</

APPENDIX D-2

384136077054600 - POTOMAC RIVER AT MARSHALL HALL -- Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LNG (FT)	SECTION (FT)	LOC- TION, CROSS SECTION (FT)	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)	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	1801	22	2490	304	6.2	29.4	30.0	4.2	19.4	14.7	26.2		
03...	1802	12	2490	306	6.2	29.5	--	4.3	18.9	9.20	23.0		
03...	1803	1.0	2490	320	6.3	29.9	--	4.8	16.2	5.20	18.5		
03...	1805	--	2490	--	--	--	--	--	17.1	9.90	21.7		
03...	1810	12	3500	312	6.2	29.5	29.0	3.9	10.8	6.20	13.6		
03...	1811	1.0	3500	314	6.2	29.9	--	4.3	14.4	12.2	20.1		
03...	1815	--	3500	--	--	--	--	--	13.6	8.10	17.4		
15...	1710	--	590	--	--	--	--	--	15.0	14.5	21.8		
15...	1715	16	590	330	6.5	25.9	23.0	4.4	--	--	--		
15...	1716	8.0	590	329	6.4	25.9	--	4.5	--	--	--		
15...	1717	1.0	590	330	6.4	25.9	--	4.7	--	--	--		
15...	1720	21	2490	336	6.4	25.8	22.0	4.5	14.0	16.4	21.7		
15...	1721	12	2490	336	6.4	25.9	--	4.4	12.9	12.1	18.6		
15...	1722	6.0	2490	335	6.4	25.7	--	4.6	14.0	11.1	19.1		
15...	1723	1.0	2490	336	6.5	25.7	--	4.7	14.4	9.90	19.0		
15...	1725	--	3500	--	--	--	--	--	16.2	11.8	21.6		
15...	1730	10	3500	332	6.4	25.9	24.0	4.4	--	--	--		
15...	1731	1.0	3500	330	6.4	25.8	--	5.0	--	--	--		
15...	1735	--	50000	--	--	--	--	--	15.6	12.4	21.3		
16...	1650	--	2100	--	--	--	--	--	23.8	13.1	29.8		
16...	1651	23	2100	312	6.5	25.0	26.0	4.9	22.2	13.2	28.3		
16...	1652	13	2100	312	6.5	25.1	--	5.0	23.2	13.2	29.2		
16...	1653	3.0	2100	312	6.5	25.1	--	5.2	25.9	12.9	31.8		

383B18077072800 -- POTOMAC RIVER AT HALLOWING POINT  
 WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
OCT							
06...	0955	--	4020	--	--	--	--
06...	0956	1.0	4020	--	--	--	--
NOV							
15...	1015	--	4020	--	--	--	--
27...	1230	5.0	4020	--	--	--	--
27...	1231	32	4020	--	--	--	--
DEC							
20...	0945	3.0	4020	--	--	--	--
JAN							
16...	1110	3.0	4020	--	--	--	--
FEB							
19...	1100	3.0	4020	--	--	--	--
MAR							
18...	0910	3.0	4020	--	--	--	--
APR							
22...	1320	3.0	4020	--	--	--	--
MAY							
19...	1150	3.0	4020	207	7.8	21.5	21.0
19...	1151	13	4020	210	7.6	21.1	--
19...	1152	31	4020	235	7.2	20.8	--
JUN							
17...	1410	2.0	1710	256	7.6	24.0	18.0
17...	1411	5.0	1710	257	7.5	23.9	--
17...	1420	2.0	2940	259	7.6	24.7	--
17...	1421	4.0	2940	257	7.7	24.5	20.0
17...	1422	12	2940	258	7.3	23.9	--
17...	1423	20	2940	258	7.3	23.8	--
17...	1425	--	50000	--	--	--	--
17...	1435	2.0	3480	258	7.6	24.8	26.0
17...	1436	6.0	3480	258	7.4	24.3	--
17...	1437	17	3480	255	7.2	24.2	--
17...	1438	27	3480	245	7.1	23.4	--
17...	1445	3.0	4140	254	7.6	24.7	25.0
17...	1446	11	4140	255	7.3	24.2	--
17...	1447	23	4140	248	7.1	23.4	--
17...	0956	6.0	1710	267	7.2	24.9	21.0
27...	0957	2.0	1710	266	7.2	24.8	--
27...	1010	20	2940	266	7.2	24.8	24.0
27...	1011	12	2940	267	7.2	24.9	--
27...	1012	3.0	2940	266	7.4	25.1	--
27...	1015	--	50000	--	--	--	--
27...	1030	27	3480	266	7.2	24.9	23.0
27...	1031	17	3480	266	7.2	24.9	--
27...	1032	6.0	3480	266	7.3	25.0	--
27...	1033	2.0	3480	265	7.3	25.1	--
27...	1035	23	4140	258	7.2	24.8	24.0
27...	1036	11	4140	262	7.2	24.8	--

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

## WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A PHYTO- PLANK- TON, CORR. (UG/L)	PHED- PHYTO- PLANK- TON, CORR. (UG/L)	CHLORO- PHYLL A PHYTO- PLANK- TON, CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(32211)	(32218)	(32230)	(32209)	(32213)	(32217)
OCT 06...	---	3.20	5.80	7.00	---	---	---
OCT 06...	---	3.20	3.50	5.60	---	---	---
NOV 15...	---	---	---	---	6.70	5.40	9.40
NOV 27...	---	---	---	---	25.2	11.5	30.8
NOV 27...	---	---	---	---	21.7	12.3	27.7
DEC 20...	---	---	---	---	11.5	2.70	13.7
JAN 16...	---	---	---	---	50.1	6.10	52.4
FEB 19...	---	---	---	---	53.5	3.80	54.6
MAR 18...	---	---	---	---	38.0	14.2	44.3
APR 22...	---	---	---	---	38.2	7.70	41.4
MAY 19...	8.3	---	---	---	60.0	11.1	64.5
MAY 19...	7.7	---	---	---	47.0	17.9	55.0
MAY 19...	6.4	---	---	---	24.4	21.3	34.4
JUN 17...	8.3	---	---	---	47.3	20.1	56.4
JUN 17...	8.3	---	---	---	48.0	16.9	55.5
JUN 17...	8.4	---	---	---	33.5	12.6	39.2
JUN 17...	8.6	---	---	---	44.3	12.1	49.6
JUN 17...	7.3	---	---	---	37.6	21.0	47.3
JUN 17...	7.4	---	---	---	44.1	20.4	53.4
JUN 17...	---	---	---	---	43.6	15.7	50.5
JUN 17...	8.8	---	---	---	38.5	15.0	45.2
JUN 17...	8.1	---	---	---	40.3	15.7	47.3
JUN 17...	7.1	---	---	---	36.0	17.8	44.1
JUN 17...	6.7	---	---	---	44.5	22.9	55.0
JUN 17...	8.7	---	---	---	44.1	12.2	49.4
JUN 17...	7.7	---	---	---	42.7	14.4	49.1
JUN 17...	6.6	---	---	---	46.5	24.3	57.6
JUN 17...	7.5	---	---	---	44.1	13.9	50.2
JUN 17...	7.6	---	---	---	41.7	18.4	50.0
JUN 17...	7.1	---	---	---	34.4	21.0	44.0
JUN 17...	7.2	---	---	---	33.2	19.2	42.0
JUN 17...	7.8	---	---	---	39.2	16.2	46.4
JUN 17...	---	---	---	---	38.7	21.1	48.4
JUN 17...	7.1	---	---	---	37.5	23.7	48.5
JUN 17...	7.2	---	---	---	39.4	19.2	48.1
JUN 17...	7.4	---	---	---	37.7	17.1	45.5
JUN 17...	7.5	---	---	---	41.2	17.8	47.8
JUN 17...	7.0	---	---	---	52.8	41.0	71.9
JUN 17...	7.0	---	---	---	40.5	20.8	50.0

APPENDIX D-2  
383818077072800 - POTOMAC RIVER AT HALLOWING POINT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING (FT)	SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCTI- 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)
JUN 27...	1037	3.0	4140	262	7.5	25.0	---	---	7.5	47.4	13.4	53.2
JUL 04...	1015	6.0	1710	270	7.0	26.5	20.0	---	7.6	39.2	23.4	50.0
04...	1016	2.0	1710	270	7.0	26.5	---	---	7.5	36.0	22.4	46.3
04...	1030	18	2940	270	6.9	26.5	20.0	---	7.6	34.7	26.2	47.0
04...	1031	12	2940	269	7.1	26.7	---	---	7.7	33.0	24.9	44.6
04...	1032	4.0	2940	259	7.1	26.6	---	---	7.7	33.1	20.0	42.3
04...	1035	---	50000	---	---	---	---	---	---	42.8	27.0	55.3
04...	1045	27	3480	267	7.0	26.5	19.0	---	7.6	37.5	33.6	53.2
04...	1046	17	3480	267	7.0	26.5	---	---	7.6	36.2	25.6	48.1
04...	1047	6.0	3480	265	7.0	26.4	---	---	7.6	36.3	27.1	48.9
04...	1048	2.0	3480	264	7.2	26.7	---	---	7.8	41.5	22.6	51.9
04...	1100	23	4140	260	7.2	26.4	19.0	---	7.7	53.0	37.5	70.5
04...	1101	11	4140	259	7.2	26.4	---	---	7.8	48.1	30.2	62.1
04...	1102	3.0	4140	258	7.3	26.4	---	---	7.8	61.6	36.0	78.2
09...	1022	5.0	1710	267	6.7	25.2	18.0	---	6.2	40.5	18.8	49.0
09...	1023	2.0	1710	264	6.7	25.3	---	---	6.3	39.2	18.1	47.4
09...	1030	---	50000	---	---	---	---	---	---	29.8	18.9	38.5
09...	1035	20	2940	266	6.5	25.5	18.0	---	5.1	33.1	23.7	44.1
09...	1036	12	2940	265	6.5	25.6	---	---	5.5	28.3	24.3	39.7
09...	1037	3.0	2940	266	6.5	25.6	---	---	5.4	32.8	23.2	43.6
09...	1044	37	3480	267	6.5	25.6	18.0	---	5.0	30.8	21.2	40.6
09...	1045	17	3480	268	6.5	25.7	---	---	5.0	25.5	20.5	35.1
09...	1046	6.0	3480	267	6.5	25.7	---	---	5.5	25.8	17.9	34.2
09...	1047	2.0	3480	267	6.5	25.9	---	---	5.5	33.3	12.4	38.9
09...	1058	23	4140	267	6.4	25.7	25.0	---	5.2	29.1	29.4	42.9
09...	1059	11	4140	266	6.4	25.8	---	---	5.4	29.6	16.5	37.2
09...	1100	3.0	4140	267	6.5	25.9	---	---	5.5	28.6	14.0	35.0
16...	1015	5.0	1710	267	6.7	28.2	24.0	---	6.2	40.3	21.5	50.2
16...	1016	1.0	1710	267	6.6	28.2	---	---	6.4	35.8	23.4	46.7
16...	1025	22	2940	265	6.5	28.0	21.0	---	5.8	35.6	33.3	51.3
16...	1026	12	2940	266	6.5	27.9	---	---	5.8	39.1	26.4	51.4
16...	1027	1.0	2940	264	6.8	28.5	---	---	6.6	45.4	21.4	55.1
16...	1030	35	3480	266	6.5	28.0	21.0	---	6.1	---	---	---
16...	1031	17	3480	265	6.5	27.9	---	---	6.1	37.7	28.5	51.0
16...	1032	1.0	3480	261	7.2	28.8	---	---	7.8	46.9	19.8	55.8
16...	1040	---	50000	---	---	---	---	---	---	54.2	34.9	70.4
16...	1045	27	4140	260	6.8	27.9	18.0	---	6.7	49.4	40.4	68.2
16...	1046	19	4140	257	7.2	27.8	---	---	7.0	60.9	37.3	78.1
16...	1047	11	4140	254	7.7	27.8	---	---	7.4	61.9	41.4	81.1

## APPENDIX D-2

383818077072800 - POTOMAC RIVER AT HALLOWING POINT -- Cont.

WATER QUALITY DATA. WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOCATION, CRDSS 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. (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											
16...	1048	5.0	4140	253	8.0	28.0	---	7.5	75.6	29.7	88.9
16...	1049	1.0	4140	246	8.1	28.4	---	8.1	77.1	33.2	92.1
16...	1050	.1	4140	---	---	---	---	---	69.4	26.8	81.4
23...	1000	27	4140	285	6.8	29.3	18.0	6.2	55.3	33.5	70.8
23...	1001	11	4140	288	6.8	29.3	---	6.1	54.0	13.0	59.5
23...	1002	1.0	4140	289	6.8	29.3	---	6.4	50.4	17.6	58.2
23...	1015	---	50000	---	---	---	---	---	60.0	18.8	68.2
23...	1016	32	3480	288	6.9	29.2	18.0	6.3	57.0	23.3	67.5
23...	1017	17	3480	288	6.9	29.2	---	6.3	54.0	17.1	61.5
23...	1018	1.0	3480	290	6.8	29.3	---	6.3	52.5	17.7	60.3
23...	1025	12	2940	278	7.3	29.2	17.0	7.1	72.5	24.5	83.3
23...	1026	1.0	2940	277	7.4	29.2	---	7.3	70.0	21.7	79.5
23...	1030	3.0	1710	276	7.4	29.1	13.0	7.3	74.0	26.9	86.0
23...	1031	1.0	1710	276	7.5	29.1	---	7.4	80.0	26.1	91.5
23...	1035	27	4140	271	6.8	28.8	24.0	6.3	---	---	---
23...	1936	11	4140	280	6.6	29.0	---	6.2	---	---	---
23...	1937	1.0	4140	282	6.6	29.0	---	6.1	---	---	---
23...	1940	44	3480	264	7.0	28.6	22.0	6.3	---	---	---
23...	1941	17	3480	290	6.6	28.9	---	6.2	---	---	---
23...	1942	1.0	3480	283	6.6	29.0	---	6.4	---	---	---
23...	1945	4.0	1710	280	6.9	28.9	15.0	7.8	---	---	---
23...	1946	1.0	1710	279	6.9	28.9	---	8.0	---	---	---
23...	1955	22	2940	283	6.6	29.0	12.0	6.8	---	---	---
23...	1956	12	2940	283	6.6	29.0	---	6.8	---	---	---
23...	1959	1.0	2940	282	6.6	29.0	---	6.8	---	---	---
23...	2000	---	50000	---	---	---	---	---	59.2	22.6	69.3
30...	0820	7.0	1710	269	6.6	28.4	14.0	7.5	67.7	20.0	76.4
30...	0821	1.0	1710	269	6.6	28.4	---	7.7	65.4	20.2	74.2
30...	0830	---	50000	---	---	---	---	---	95.2	23.0	105
30...	0835	20	2940	270	6.7	28.5	16.0	7.1	64.8	23.4	75.2
30...	0836	12	2940	270	6.7	28.5	---	7.1	69.2	22.7	79.2
30...	0837	1.0	2940	270	6.7	28.5	---	7.3	54.8	21.1	64.3
30...	0845	35	3480	268	7.4	28.1	12.0	7.7	93.8	35.9	110
30...	0846	17	3480	258	8.2	28.1	---	8.2	111	22.8	121
30...	0847	3.0	3480	258	8.2	28.1	---	8.2	127	30.0	140
30...	0848	1.0	3480	257	8.1	28.2	---	8.3	---	---	---
30...	0850	.1	3480	---	---	---	---	---	12300	629	12500
30...	0851	.5	3480	---	---	---	---	---	106	25.1	116
30...	0905	27	4140	257	8.2	28.1	11.0	8.3	106	44.8	126



APPENDIX D-2  
383818077072800 -- POTOMAC RIVER AT HALLOWING POINT -- Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LOC- TION CROSS SECTION (FT FM BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECHI DISK 1M)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (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)
JUL											
0906	0906	11	4140	251	8.4	28.1	---	8.1	107	34.7	123
0907	0907	1.0	4140	250	8.4	28.1	---	8.0	132	29.5	144
1835	1835	5.0	1710	276	8.4	29.4	13.0	10.8	---	---	---
1836	1836	2.0	1710	275	8.4	29.4	---	10.9	---	---	---
1845	1845	23	2940	276	7.0	29.1	13.0	8.3	---	---	---
1846	1846	12	2940	275	7.0	29.2	---	8.4	---	---	---
1847	1847	4.0	2940	274	7.1	29.2	---	8.7	---	---	---
1900	1900	32	3480	274	6.8	29.0	---	7.0	---	---	---
1901	1901	23	3480	276	7.1	29.1	---	8.0	---	---	---
1902	1902	11	3480	277	7.9	29.2	---	9.4	---	---	---
1903	1903	3.0	3480	278	8.5	29.4	12.0	10.3	102	20.6	111
1910	1910	---	50000	---	---	---	---	---	---	---	---
1911	1911	12	4140	274	9.3	29.6	12.0	12.3	---	---	---
1912	1912	6.0	4140	275	9.1	29.7	---	12.3	---	---	---
1913	1913	3.0	4140	272	9.2	29.8	---	12.6	---	---	---
AUG											
0810	0810	3.0	1710	250	6.8	28.9	14.0	8.2	---	---	---
0811	0811	1.0	1710	249	6.9	28.9	---	8.1	75.2	14.0	81.9
0850	0850	---	50000	---	---	---	---	---	---	---	---
0855	0855	21	2940	247	6.2	28.8	16.0	6.5	---	---	---
0856	0856	16	2940	247	6.2	28.9	---	6.8	---	---	---
0857	0857	12	2940	247	6.3	29.0	---	7.2	---	---	---
0858	0858	1.0	2940	248	6.5	29.2	---	7.7	---	---	---
0910	0910	32	3480	247	6.2	28.9	17.0	6.7	---	---	---
0911	0911	17	3480	247	6.3	29.1	---	7.0	---	---	---
0912	0912	1.0	3480	246	6.2	29.2	---	7.1	---	---	---
0915	0915	26	4140	246	6.2	29.1	17.0	6.9	---	---	---
0916	0916	11	4140	245	6.1	29.2	---	6.8	---	---	---
0917	0917	1.0	4140	244	6.1	29.3	---	7.2	---	---	---
1845	1845	4.0	1710	254	7.8	30.1	16.0	8.5	---	---	---
1846	1846	1.0	1710	254	7.9	30.1	---	8.6	---	---	---
1851	1851	21	2940	251	7.1	29.9	19.0	8.4	---	---	---
1852	1852	12	2940	251	7.1	29.9	---	8.5	---	---	---
1853	1853	1.0	2940	250	7.3	30.1	---	8.9	---	---	---
1900	1900	---	50000	---	---	---	---	---	113	27.1	125
1901	1901	33	3480	254	6.8	29.5	18.0	7.8	---	---	---
1902	1902	17	3480	254	6.7	29.3	---	7.6	---	---	---
1903	1903	1.0	3480	251	7.0	29.7	---	8.5	---	---	---
1905	1905	28	4140	253	6.8	29.5	18.0	7.9	---	---	---
1906	1906	11	4140	251	6.8	29.6	---	8.0	---	---	---

## APPENDIX D-2

383818077072800 - POTOMAC RIVER AT HALLOWING POINT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING 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 (SECCI 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)
AUG											
04...	1907	1.0	4140	251	6.8	29.6	---	7.9	---	---	---
05...	0755	3.0	1710	259	6.9	29.4	19.0	8.3	---	---	---
05...	0756	1.0	1710	259	6.9	29.4	---	8.3	---	---	---
05...	0800	19	2940	257	6.4	29.3	22.0	7.4	---	---	---
05...	0801	12	2940	257	6.5	29.4	---	7.6	---	---	---
05...	0802	1.0	2940	258	6.7	29.4	---	8.0	---	---	---
05...	0810	31	3480	255	6.4	29.4	19.0	7.3	---	---	---
05...	0811	17	3480	257	6.5	29.4	---	7.4	---	---	---
05...	0812	1.0	3480	257	6.5	29.4	---	7.5	---	---	---
05...	0820	---	50000	---	---	---	---	---	81.1	19.6	89.4
05...	0821	28	4140	259	6.5	29.4	19.0	7.2	---	---	---
05...	0822	11	4140	258	6.5	29.5	---	7.3	---	---	---
05...	0823	1.0	4140	258	6.5	29.5	---	7.4	---	---	---
05...	1950	3.0	1710	259	7.7	29.8	14.0	9.6	---	---	---
05...	1955	21	2940	257	6.8	29.7	13.0	8.6	---	---	---
05...	1956	12	2940	258	6.8	29.7	---	8.6	---	---	---
05...	1957	3.0	2940	258	6.9	29.6	---	8.6	---	---	---
05...	2000	---	50000	---	---	---	---	---	82.0	22.0	91.5
05...	2001	32	3480	259	6.9	29.7	12.0	8.5	---	---	---
05...	2002	18	3480	259	6.9	29.7	---	8.4	---	---	---
05...	2003	3.0	3480	261	6.9	29.6	---	8.2	---	---	---
05...	2005	27	4140	262	6.7	29.5	12.0	7.4	---	---	---
05...	2006	15	4140	260	6.7	29.5	---	7.7	---	---	---
05...	2007	3.0	4140	257	6.9	29.7	---	8.7	---	---	---
06...	0740	4.0	1710	254	6.6	29.3	17.0	7.0	73.4	21.4	82.8
06...	0741	1.0	1710	264	6.7	29.4	---	7.3	64.3	27.3	75.6
06...	0750	23	2940	263	6.5	29.4	---	6.6	66.5	37.2	83.5
06...	0751	12	2940	263	6.5	29.4	---	6.7	60.8	27.0	73.0
06...	0752	1.0	2940	263	6.6	29.4	---	7.0	62.4	21.4	71.8
06...	0800	34	3480	268	6.6	29.3	16.0	6.2	67.8	39.6	86.1
06...	0801	17	3480	264	6.5	29.4	---	6.5	66.9	27.3	79.2
06...	0802	1.0	3480	264	6.5	29.4	---	6.6	64.7	20.3	73.6
06...	0810	---	50000	---	---	---	---	---	67.7	31.9	82.2
06...	0812	1.0	4140	267	6.7	29.2	---	6.3	64.5	21.6	74.1
06...	0813	11	4140	267	6.7	29.2	---	6.2	62.6	32.8	77.6
06...	0814	24	4140	266	6.7	29.2	17.0	6.2	67.3	38.8	85.1
06...	1805	5.0	1710	261	8.1	30.5	17.0	10.1	87.6	20.2	96.1
06...	1806	1.0	1710	262	8.0	30.5	---	10.2	90.0	20.5	98.6
06...	1810	19	2940	264	6.7	29.9	16.0	7.0	63.6	30.0	77.3

APPENDIX D-2  
383818077072800 - POTOMAC RIVER AT HALLOWING POINT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 (SECCI DISK) (IN)	(00077)	OXYGEN, DIS- SOLVED (MG/L)	(00300)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	(32209)	PHEOPHY- TIN A FLUORO- METRIC CORR. (UG/L)	(32213)	CHLORO- PHYLL A FLUORO- METRIC UNCORR. (UG/L)	(32217)
AUG	06...	12		2940		263		7.1		30.2				8.4		77.1		20.0		85.7	
06...	1811	1.0		2940		264		7.9		30.3				9.3		83.2		24.4		93.9	
06...	1812			50000														23.5		87.4	
06...	1820	34		3480		264		6.6		29.7		16.0		6.1		61.0		31.7		75.5	
06...	1825	17		3480		265		6.8		29.9				7.1		68.7		22.0		78.4	
06...	1826	8.0		3480		264		7.1		30.1				8.0		74.0		28.0		86.5	
06...	1827	1.0		3480		266		7.7		30.1				8.6		81.6		24.7		92.4	
06...	1828	26		4140		264		6.5		29.6		17.0		5.8		55.9		36.8		72.9	
06...	1835	11		4140		266		6.9		29.7				6.6		66.7		29.5		80.0	
06...	1836	7.0		4140		267		7.4		29.9				7.5		75.5		24.2		86.1	
06...	1837	1.0		4140		268		8.4		30.2				9.9		99.3		25.4		110	
06...	1839	5.0		1710		260		6.1		29.4		14.0		6.6							
07...	0740	1.0		1710		261		6.1		29.5				6.6							
07...	0741	19		2940		267		6.3		29.6		18.0		6.3							
07...	0745	12		2940		265		6.3		29.6				6.3							
07...	0746	1.0		2940		264		6.3		29.6				6.5							
07...	0747	34		3480		265		6.3		29.7		17.0		6.2							
07...	0755	17		3480		266		6.3		29.6				6.2							
07...	0756	1.0		3480		266		6.3		29.6				6.3							
07...	0757			50000																	
07...	0800	23		4140		257		6.6		29.5		17.0		6.2		73.1		24.4		83.9	
07...	0801	11		4140		257		6.6		29.6				6.2							
07...	0802	1.0		4140		256		6.4		29.6				6.4							
07...	0803			50000																	
07...	1850	7.0		1710		228		7.1		30.6		14.0		8.4		79.0		25.0		90.0	
07...	1851	3.0		1710		227		7.1		30.7				8.4							
07...	1852	24		2940		230		6.5		30.1		14.0		6.5							
07...	1855	13		2940		231		7.1		30.4				8.0							
07...	1856	3.0		2940		232		8.4		30.7				9.9							
07...	1857	33		3480		231		6.7		30.1		14.0		6.5							
07...	1900	18		3480		230		6.7		30.1				6.7							
07...	1901	3.0		3480		232		7.6		30.3				8.1							
07...	1902	24		4140		229		6.5		29.8		14.0		5.8							
07...	1905	13		4140		230		6.7		30.0				6.4							
07...	1906	3.0		4140		233		8.4		30.5				9.0							
07...	1907	5.0		1710		255		6.7		29.7		17.0		6.3							
08...	0650	1.0		1710		255		6.7		29.7				6.3							
08...	0651	21		2940		257		6.7		29.8		18.0		6.1							
08...	0655	12		2940		257		6.7		29.8				6.1							
08...	0656																				

383818077072800 -- POTOMAC RIVER AT HALLOWING POINT -- Cont.  
APPENDIX D-2

WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	LOC- TION, 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- 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	0657	1.0	2940	257	6.7	29.8	---	6.1	---	---	---
08...	0700	34	3480	254	6.7	29.9	18.0	5.8	---	---	---
08...	0701	17	3480	258	6.9	29.9	---	6.4	---	---	---
08...	0702	3.0	3480	258	7.1	30.0	---	7.0	---	---	---
08...	0703	1.0	3480	258	7.4	30.0	---	7.4	---	---	---
08...	0705	---	50000	---	---	---	---	---	54.4	24.8	65.6
08...	0706	30	4140	256	6.7	29.9	17.0	6.1	---	---	---
08...	0707	11	4140	256	6.7	29.9	---	6.0	---	---	---
08...	0708	6.0	4140	257	7.1	30.1	---	7.2	---	---	---
08...	0709	3.0	4140	257	7.6	30.1	---	7.8	---	---	---
08...	0710	1.0	4140	257	7.6	30.1	---	7.8	---	---	---
08...	1805	6.0	1710	257	7.4	31.2	---	7.8	---	---	---
08...	1806	3.0	1710	257	7.5	31.2	---	8.9	---	---	---
08...	1815	---	50000	---	---	---	---	---	88.0	26.3	99.5
08...	1816	21	2940	258	6.7	30.5	13.0	6.6	---	---	---
08...	1817	12	2940	258	6.7	30.5	---	6.6	---	---	---
08...	1818	3.0	2940	258	7.1	30.7	---	7.8	---	---	---
08...	1820	33	3480	259	6.6	30.4	13.0	6.1	---	---	---
08...	1821	18	3480	258	6.9	30.6	---	7.3	---	---	---
08...	1822	3.0	3480	260	8.8	31.6	---	11.1	---	---	---
08...	1825	29	4140	259	6.7	30.4	13.0	5.9	---	---	---
08...	1826	16	4140	259	8.2	31.0	---	8.8	---	---	---
08...	1827	3.0	4140	261	9.1	31.9	---	12.7	---	---	---
11...	1835	4.0	1710	245	7.3	30.7	13.0	8.6	---	---	---
11...	1840	12	2940	248	7.4	30.4	18.0	7.4	---	---	---
11...	1841	12	2940	247	7.3	30.4	---	7.4	---	---	---
11...	1842	3.0	2940	247	7.3	30.4	---	7.4	---	---	---
11...	1845	33	3480	254	8.7	30.6	16.0	9.3	---	---	---
11...	1846	17	3480	254	8.7	30.6	---	9.4	---	---	---
11...	1847	3.0	3480	255	8.8	30.6	---	10.1	---	---	---
11...	1850	27	4140	246	7.3	30.5	19.0	7.3	---	---	---
11...	1851	15	4140	250	8.3	30.6	---	8.9	---	---	---
11...	1852	3.0	4140	251	8.5	30.7	---	9.1	---	---	---
11...	1900	---	50000	---	---	---	---	---	95.0	23.4	105
13...	0755	5.0	1710	237	6.5	29.4	26.0	6.3	79.4	24.3	90.0
13...	0756	3.0	1710	237	6.5	29.5	---	6.3	77.6	25.8	89.0
13...	0757	1.0	1710	237	6.5	29.5	---	6.5	82.3	15.7	88.7
13...	0815	20	2940	239	6.4	29.5	17.0	5.7	68.2	32.9	83.2
13...	0816	12	2940	239	6.4	29.4	---	5.7	72.9	22.2	82.6

## APPENDIX D-2

383818077072800 - POTOMAC RIVER AT HALLOWING POINT -- Cont.

WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

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)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A METRIC METHOD (UG/L)	CHLORO- PHYLL A METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)	(32217)	(32217)
AUG											
13...	0817	8.0	2940	238	6.4	29.4	---	5.8	66.5	23.7	77.0
13...	0818	3.0	2940	239	6.4	29.4	---	5.9	74.2	15.8	80.8
13...	0819	1.0	2940	239	6.4	29.4	---	5.9	73.0	19.7	81.5
13...	0820	---	50000	---	---	---	---	---	90.0	23.3	100
13...	0825	34	3480	245	6.8	29.0	16.0	5.8	100	57.1	127
13...	0826	17	3480	240	6.5	29.4	---	5.7	71.1	28.4	83.9
13...	0827	8.0	3480	239	6.4	29.5	---	5.7	67.1	20.9	76.3
13...	0828	3.0	3480	239	6.4	29.5	---	5.8	71.6	22.7	81.6
13...	0829	1.0	3480	239	6.4	29.5	---	5.8	74.5	21.4	83.8
13...	0835	31	4140	246	7.7	28.7	12.0	6.8	117	33.2	131
13...	0836	20	4140	246	7.9	28.8	---	6.8	114	35.4	129
13...	0837	11	4140	246	8.1	28.8	---	6.7	115	32.2	129
13...	0838	8.0	4140	246	7.9	29.0	---	5.9	114	29.8	127
13...	0839	3.0	4140	242	6.7	29.4	---	5.8	88.8	19.3	96.9
13...	0840	1.0	4140	243	6.8	29.3	---	5.9	91.4	22.7	101
13...	2010	5.0	1710	236	6.5	29.6	13.0	8.0	78.5	17.4	85.8
13...	2011	3.0	1710	236	6.4	29.7	---	7.9	80.0	21.3	89.2
13...	2012	1.0	1710	236	6.3	29.7	---	7.9	84.0	15.8	90.4
13...	2015	19	2940	238	6.4	29.6	---	7.7	89.1	24.7	99.8
13...	2016	12	2940	238	6.5	29.6	---	8.0	87.0	23.5	97.1
13...	2017	8.0	2940	238	6.5	29.7	---	8.0	87.8	20.4	96.4
13...	2018	3.0	2940	238	6.5	29.7	---	8.0	87.3	18.5	95.0
13...	2019	1.0	2940	238	6.4	29.6	---	7.9	90.0	22.4	99.6
13...	2020	---	50000	---	---	---	---	---	92.4	22.0	102
13...	2035	28	4140	245	8.6	29.7	---	10.1	131	33.2	145
13...	2036	20	4140	245	8.6	29.7	---	10.1	119	36.8	135
13...	2037	11	4140	244	8.6	29.7	---	10.0	120	41.6	138
13...	2038	8.0	4140	244	8.5	29.7	---	10.0	120	30.1	133
13...	2039	3.0	4140	244	8.5	29.7	---	10.0	110	25.3	121
13...	2040	1.0	4140	---	---	---	---	---	130	22.6	139
13...	2045	32	3480	240	6.4	29.5	---	6.4	94.3	63.7	124
13...	2046	25	3480	240	6.4	29.5	---	6.5	93.5	40.8	112
13...	2047	17	3480	240	6.4	29.5	---	6.6	92.6	24.8	103
13...	2048	8.0	3480	242	7.7	29.6	---	8.6	105	21.5	114
13...	2049	3.0	3480	243	7.8	29.6	---	8.8	104	24.3	115
13...	2050	1.0	3480	---	---	---	---	---	104	19.5	112
20...	0720	27	4140	237	6.4	25.9	19.0	6.4	66.3	54.0	91.6
20...	0721	18	4140	237	6.4	25.9	---	6.4	64.4	24.5	75.4
20...	0722	11	4140	237	6.4	25.8	---	6.5	67.5	19.2	75.8

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	SAMP- DEPTH (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 (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLI A FLUORO- METRIC CORR, (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLLI A FLUORO- METRIC METHOD (UG/L) (32217)
AUG												
20...	0723	5.0		4140	237	6.4	25.8	--	6.4	61.5	21.9	71.2
20...	0724	1.0		4140	237	6.4	25.8	--	6.5	68.8	13.9	74.6
20...	0730	33		3480	236	6.2	25.8	14.0	6.4	68.8	24.8	79.8
20...	0731	24		3480	235	6.2	25.8	--	6.3	60.9	20.9	70.1
20...	0732	17		3480	236	6.2	25.8	--	6.5	65.8	18.3	73.8
20...	0733	6.0		3480	235	7.0	25.8	--	6.3	59.3	16.8	66.6
20...	0734	1.0		3480	236	6.2	25.7	--	6.5	63.1	18.9	71.4
20...	0740	--		50000	--	--	--	--	--	75.4	26.1	87.0
20...	0745	4.0		1710	233	6.7	25.8	16.0	8.0	83.5	18.4	91.2
20...	0746	1.0		1710	233	6.9	25.8	--	8.3	85.3	15.6	91.6
20...	0800	22		2940	232	6.5	25.7	18.0	7.3	73.8	18.1	81.5
20...	0801	18		2940	232	6.4	25.8	--	7.1	67.3	22.9	77.4
20...	0802	12		2940	232	6.4	25.7	--	7.2	68.3	24.4	79.2
20...	0803	6.0		2940	233	6.3	25.8	--	7.0	64.6	15.4	71.2
20...	0804	1.0		2940	232	6.4	25.8	--	7.2	71.3	15.6	77.8
20...	1720	8.0		1710	234	6.2	26.1	14.0	7.5	77.0	15.7	83.5
20...	1721	3.0		1710	234	6.2	26.1	--	7.6	76.7	13.7	82.2
20...	1722	1.0		1710	234	6.2	26.1	--	7.6	79.3	12.3	84.1
20...	1735	16		2940	235	6.2	26.1	19.0	7.4	76.4	13.5	81.8
20...	1736	12		2940	235	6.2	26.1	--	7.4	72.4	18.5	80.4
20...	1737	4.0		2940	235	6.2	26.1	--	7.5	74.0	17.7	81.5
20...	1738	1.0		2940	235	6.3	26.1	--	7.6	75.0	16.7	82.0
20...	1740	--		50000	--	--	--	--	--	77.4	20.3	86.1
20...	1745	33		3480	238	6.5	26.1	17.0	7.5	88.7	21.5	97.8
20...	1746	24		3480	237	6.4	26.2	--	7.3	78.6	14.1	84.3
20...	1747	17		3480	237	6.4	26.2	--	7.4	74.5	19.3	82.8
20...	1748	8.0		3480	237	6.5	26.2	--	7.7	79.0	13.7	84.5
20...	1749	4.0		3480	237	6.5	26.2	--	7.8	76.0	14.6	82.0
20...	1750	1.0		3480	236	6.5	26.2	--	7.8	80.3	13.9	85.9
20...	1751	27		4140	237	6.4	26.0	16.0	7.1	82.8	33.4	97.8
20...	1752	20		4140	237	6.3	26.0	--	7.0	72.8	17.6	80.4
20...	1753	11		4140	236	6.3	26.1	--	7.3	71.4	12.8	76.6
20...	1754	7.0		4140	237	6.7	26.2	--	8.2	74.0	14.6	80.0
20...	1755	3.0		4140	237	7.6	26.2	--	9.1	84.8	12.1	89.5
20...	1756	1.0		4140	237	7.2	26.2	--	8.8	82.5	12.8	87.5
25...	1920	25		4140	249	6.4	26.0	18.0	5.2	48.5	44.2	69.2
25...	1921	17		4140	243	7.0	26.5	--	7.3	68.6	23.0	78.8
25...	1922	11		4140	243	8.6	27.0	--	9.3	78.2	23.3	88.4
25...	1923	8.0		4140	244	8.3	27.0	--	9.6	80.3	20.4	89.0

APPENDIX D-2  
383818077072800 - POTOMAC RIVER AT HALLOWING POINT -- Cont.

WATER QUALITY DATA: WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 (SECCI 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- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L)	(32217)
AUG																					
25...	1924	1.0		4140		245		8.7		27.5				10.4		85.2		16.2		91.8	
25...	1935	32		3480		246		6.4		25.7		19.0		4.9		40.4		29.7		54.2	
25...	1936	17		3480		246		6.4		25.8				5.5		42.4		19.4		51.2	
25...	1937	8.0		3480		240		7.3		26.4				8.2		62.3		18.2		70.2	
25...	1938	1.0		3480		240		6.8		26.0				8.9		68.9		19.2		77.2	
25...	1940			50000												57.8		17.8		65.6	
25...	1945	21		2940		246		6.4		25.8		20.0		5.1		42.0		18.8		50.5	
25...	1946	12		2940		246		6.4		25.7				5.1		40.6		17.2		48.3	
25...	1947	1.0		2940		247		6.4		25.9				6.0		45.6		15.5		52.5	
25...	1950	5.0		1710		246		6.5		26.0		19.0		6.3		43.9		17.3		51.7	
25...	1951	1.0		1710		246		6.5		26.1				6.3		46.1		16.8		53.6	
SEP																					
03...	1835	26		4140		284		6.7		29.2		15.0		6.2		69.6		45.1		90.5	
03...	1836	11		4140		285		6.8		29.3				7.7		66.9		19.8		75.6	
03...	1837	6.0		4140		285		7.1		29.4				8.3		72.5		17.6		80.0	
03...	1838	3.0		4140		285		7.1		29.4				8.5		72.3		13.4		77.7	
03...	1839	1.0		4140		285		7.1		29.4				8.7		68.2		20.2		77.0	
03...	1840			4140												72.4		20.3		81.2	
03...	1900	33		3480		283		6.6		29.1				6.3		62.3		31.6		76.7	
03...	1901	17		3480		292		6.7		29.2				6.6		62.8		19.5		71.4	
03...	1902	5.0		3480		283		6.7		29.3				7.2		61.2		14.2		67.2	
03...	1903	1.0		3480		282		6.7		29.3				7.3		58.5		20.3		67.5	
03...	1905			3480												58.6		23.8		69.3	
03...	1910			50000												70.4		16.9		77.6	
03...	1930	24		2940		281		6.6		29.3		20.0		7.3		62.4		21.6		72.0	
03...	1931	12		2940		280		6.7		29.4				7.4		60.0		17.8		67.8	
03...	1932	1.0		2940		278		6.8		29.3				7.4		63.8		14.8		70.0	
03...	1935			2940												63.8		14.8		70.0	
03...	1940	6.0		1710		276		6.8		29.2				7.6		61.6		19.7		70.3	
03...	1941	1.0		1710		276		6.8		29.2				7.4		60.0		18.1		67.6	
03...	1945			1710												62.7		20.1		71.6	
15...	1750	21		4140		317		6.5		26.0		18.0		6.3							
15...	1751	11		4140		316		6.5		26.0				6.4							
15...	1752	1.0		4140		317		6.5		25.9				6.9							
15...	1755			4140																	
15...	1800	33		3480		318		6.6		25.9						48.6		17.4		56.4	
15...	1801	17		3480		317		6.7		25.9		14.0				54.6		21.5		64.3	
15...	1802	6.0		3480		316		6.9		25.9						58.8		16.6		66.0	
15...	1803	1.0		3480		315		6.9		25.9				8.2		66.0		23.6		76.5	
15...	1810			50000												71.1		19.3		79.4	
																56.0		21.2		65.5	

## APPENDIX D-2

383818077072800 - POTOMAC RIVER AT HALLOWING POINT -- Cont.

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 15...	1815	17	2940	312	7.0	25.9	19.0	8.5	--	--	--
15...	1816	12	2940	312	7.0	25.9	--	8.6	--	--	
15...	1817	1.0	2940	310	6.9	25.9	--	8.4	--	--	
15...	1818	--	2940	--	--	--	--	--	19.2	83.2	
15...	1820	7.0	1710	305	6.8	25.9	16.0	8.4	--	--	
15...	1821	1.0	1710	305	6.8	25.8	--	8.5	--	--	
15...	1825	--	1710	--	--	--	--	--	17.4	73.5	
17...	1715	3.0	4020	--	--	--	--	--	12.2	82.8	



## APPENDIX D-2

01655480 - POTOMAC R AT INDIAN HEAD, MD.

## WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

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)
OCT							
06...	1010	--	500	--	--	--	--
06...	1011	1.0	500	--	--	--	--
06...	1031	1.0	500	--	--	--	--
28...	1032	10	500	--	--	--	--
28...	1033	19	500	--	--	--	--
NOV							
15...	1145	--	500	--	--	--	--
27...	1520	5.0	500	--	--	--	--
27...	1521	23	500	--	--	--	--
29...	1120	3.0	500	--	--	--	--
29...	1122	18	500	--	--	--	--
DEC							
20...	0845	37	750	--	7.7	3.7	18.0
20...	0846	30	750	--	7.8	3.7	--
20...	0847	20	750	--	7.8	3.7	--
20...	0848	10	750	--	7.9	3.7	--
20...	0849	3.0	750	--	7.9	3.7	--
20...	0850	--	50000	--	--	--	--
20...	0855	8.0	5300	--	7.9	3.6	18.0
20...	0856	3.0	5300	--	7.9	3.7	--
JAN							
16...	1130	10	5300	292	8.5	3.3	13.0
16...	1131	8.0	5300	287	8.5	3.0	--
16...	1132	5.0	5300	287	8.5	3.0	--
16...	1133	3.0	5300	287	8.5	3.0	--
16...	1134	1.0	5300	287	8.5	3.0	--
16...	1135	--	5300	--	--	--	--
16...	1146	40	750	310	8.1	2.8	--
16...	1147	30	750	311	8.1	2.8	--
16...	1148	20	750	311	8.1	2.8	--
16...	1149	10	750	311	8.1	2.8	--
16...	1150	8.0	750	311	8.1	3.0	--
16...	1151	5.0	750	306	8.1	2.8	--
16...	1152	3.0	750	306	8.1	2.8	--
16...	1153	1.0	750	306	8.1	2.8	--
16...	1155	--	750	--	--	--	--
FEB							
19...	1020	--	500	--	--	--	--
19...	1021	43	500	240	8.2	.8	12.0
19...	1022	30	500	245	8.2	.8	--
19...	1023	20	500	240	8.2	.8	--
19...	1024	10	500	245	8.2	.8	--
19...	1025	5.0	500	245	8.2	1.0	--

## APPENDIX D-2

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

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A PLANK- TON, CORR. (UG/L) (32211)	PHEO- PHYTO- PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYLL A PHYTO- PLANK- TON, UNCORR. (UG/L) (32230)	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)
OCT 06...	--	3.20	5.80	7.00	--	--	--
06...	--	2.40	2.60	4.20	--	--	--
28...	--	--	--	--	7.00	5.60	9.70
28...	--	--	--	--	7.30	6.10	10.3
28...	--	--	--	--	7.60	6.10	10.6
NOV 15...	--	--	--	--	9.30	4.80	11.6
27...	--	--	--	--	15.8	7.90	19.7
27...	--	--	--	--	15.2	11.8	21.0
29...	--	--	--	--	12.0	5.60	14.7
29...	--	--	--	--	12.0	5.60	14.7
DEC 14.5	--	--	--	--	--	--	--
20...	14.5	--	--	--	--	--	--
20...	13.9	--	--	--	--	--	--
20...	13.6	--	--	--	--	--	--
20...	13.6	--	--	--	--	--	--
20...	12.3	--	--	--	--	--	--
20...	--	--	--	--	14.2	5.70	19.2
20...	13.6	--	--	--	--	--	--
20...	12.8	--	--	--	--	--	--
JAN 16...	15.4	--	--	--	--	--	--
16...	15.4	--	--	--	--	--	--
16...	15.4	--	--	--	--	--	--
16...	15.5	--	--	--	--	--	--
16...	15.4	--	--	--	--	--	--
16...	--	--	--	--	71.7	9.60	75.3
16...	18.2	--	--	--	--	--	--
16...	16.8	--	--	--	--	--	--
16...	16.2	--	--	--	--	--	--
16...	15.4	--	--	--	--	--	--
16...	15.0	--	--	--	--	--	--
16...	14.8	--	--	--	--	--	--
16...	14.6	--	--	--	--	--	--
16...	14.4	--	--	--	42.6	5.90	44.8
16...	--	--	--	--	--	--	--
FEB 19...	--	--	--	--	37.2	6.10	39.6
19...	14.5	--	--	--	--	--	--
19...	14.6	--	--	--	--	--	--
19...	14.7	--	--	--	--	--	--
19...	14.7	--	--	--	--	--	--
19...	14.8	--	--	--	--	--	--

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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- PHYLLO- FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLLO- FLUORO- METRIC METHOD CORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
FEB											
19...	1026	3.0	500	245	8.2	1.0	--	14.7	--	--	--
19...	1030	--	5300	--	--	--	--	--	31.1	4.30	32.7
19...	1040	13	5300	250	8.2	1.0	18.0	14.4	--	--	--
19...	1041	10	5300	250	8.2	1.0	--	14.7	--	--	--
19...	1042	5.0	5300	250	8.2	1.0	--	14.8	--	--	--
19...	1043	3.0	5300	250	8.2	1.0	--	14.8	--	--	--
MAR											
18...	0840	--	50000	--	--	--	--	--	35.5	11.4	40.5
18...	0850	10	5300	266	7.8	7.5	12.0	11.6	--	--	--
18...	0851	3.0	5300	266	7.8	7.5	--	11.6	--	--	--
18...	0855	--	5300	--	--	--	--	--	37.7	10.1	42.1
18...	0900	39	500	271	7.8	7.5	--	11.5	--	--	--
18...	0901	20	500	270	7.8	7.5	--	11.5	--	--	--
18...	0902	3.0	500	270	7.7	7.5	--	11.5	--	--	--
18...	0910	--	500	--	--	--	--	--	38.8	8.70	42.4
APR											
1345	1345	--	50000	--	--	14.8	--	--	42.9	4.00	44.2
1346	1346	37	500	187	7.0	14.8	16.0	9.5	16.8	7.00	20.0
1347	1347	20	500	188	7.1	15.0	--	9.5	--	--	--
1348	1348	3.0	500	187	7.1	15.2	--	9.7	18.0	5.20	20.2
1350	1350	12	5300	187	7.2	15.1	14.0	9.7	26.8	6.00	29.3
1351	1351	9.0	5300	187	7.3	15.4	--	9.9	--	--	--
1352	1352	6.0	5300	186	8.0	15.7	--	10.9	54.8	.600	54.3
1354	1354	3.0	5300	185	8.4	16.1	--	11.4	75.0	6.70	77.1
MAY											
0905	0905	22	500	171	6.7	17.1	18.0	8.0	18.2	10.2	22.9
0906	0906	3.0	500	169	6.8	17.1	--	8.2	15.5	8.90	19.6
09...	0910	7.0	5300	165	7.1	16.4	12.0	9.0	47.6	13.2	53.4
09...	0911	3.0	5300	164	7.1	16.4	--	9.2	45.5	13.5	51.4
19...	1210	43	500	215	7.1	20.5	24.0	6.9	29.5	19.9	38.8
19...	1211	25	500	216	7.1	20.5	--	6.9	31.0	15.9	38.2
19...	1212	15	500	216	7.2	20.7	--	7.3	26.9	11.3	32.0
19...	1213	3.0	500	210	7.3	21.0	--	7.8	35.7	10.6	40.4
19...	1225	--	50000	--	--	--	--	--	39.3	11.8	44.5
19...	1230	13	5300	217	7.2	20.7	24.0	7.4	30.0	13.4	36.0
19...	1231	6.0	5300	206	7.5	20.9	--	8.3	41.9	10.8	46.6
19...	1232	3.0	5300	194	8.4	21.1	--	10.7	--	--	--
JUN											
1215	1215	2.0	1200	241	7.4	23.6	23.0	7.5	36.5	16.3	43.9
17...	1216	4.0	1200	240	7.4	23.6	--	7.6	35.4	14.6	42.0
17...	1217	12	1200	239	7.3	23.3	--	7.2	34.4	16.9	42.1
17...	1218	21	1200	238	7.3	23.3	--	7.2	39.1	16.2	46.4
17...	1230	2.0	2340	243	7.4	23.8	19.0	7.2	37.2	15.4	44.2

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING DEPTH (FT)	LOC- TION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHDS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA METRIC METHOD (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLOURO- METRIC METHOD UNCORR. (UG/L)
					(00009)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUN												
17...	1231	6.0		2340	241	7.2	23.5	---	6.7	34.7	18.9	43.4
17...	1232	18		2340	240	7.2	23.4	---	6.7	38.2	18.9	46.8
17...	1233	32		2340	239	7.2	23.3	---	6.9	35.1	21.5	45.0
17...	1240	---		50000	---	---	---	---	---	40.3	19.3	49.1
17...	1241	3.0		3480	241	7.4	23.4	20.0	7.9	42.3	16.7	49.8
17...	1242	9.0		3480	242	7.4	23.3	---	7.3	37.7	14.1	44.0
17...	1250	2.0		5420	225	8.3	23.7	22.0	9.8	76.1	15.8	82.7
17...	1251	7.0		5420	233	7.8	23.3	---	8.5	59.0	17.7	66.8
27...	0805	19		1200	258	7.2	24.4	18.0	7.0	---	---	---
27...	0806	12		1200	257	7.2	24.4	---	6.9	---	---	---
27...	0807	4.0		1200	257	7.3	24.4	---	7.0	---	---	---
27...	0815	32		2340	257	7.2	24.4	27.0	6.8	34.8	27.4	47.7
27...	0816	18		2340	257	7.2	24.4	---	6.9	32.3	20.6	42.7
27...	0817	6.0		2340	257	7.2	24.5	---	6.9	32.3	19.8	41.5
27...	0818	2.0		2340	257	7.3	24.5	---	7.0	31.4	18.4	39.9
27...	0825	---		50000	---	---	---	---	---	39.2	17.0	46.9
27...	0826	9.0		3480	260	7.3	24.4	24.0	6.9	41.5	20.3	50.7
27...	0827	3.0		3480	259	7.3	24.5	---	7.2	39.2	18.6	47.7
27...	0835	10		5420	259	7.4	24.5	23.0	7.4	50.8	21.4	60.5
27...	0836	3.0		5420	256	7.8	24.6	---	8.1	51.6	22.8	61.9
JUL												
04...	0900	20		1200	264	7.0	26.3	22.0	7.3	43.2	46.6	65.2
04...	0901	12		1200	265	7.0	26.3	---	7.3	36.0	26.7	48.4
04...	0902	3.0		1200	264	7.0	26.4	---	7.5	34.8	22.8	45.3
04...	0910	32		2340	263	7.0	26.3	24.0	7.3	43.1	29.8	56.9
04...	0911	18		2340	264	7.0	26.4	---	7.3	34.9	25.3	46.7
04...	0912	6.0		2340	264	7.0	26.5	---	7.4	---	---	---
04...	0913	2.0		2340	265	7.1	26.5	---	7.6	36.0	23.2	46.7
04...	0920	9.0		3480	250	7.2	26.0	22.0	7.7	43.4	29.0	56.8
04...	0921	3.0		3480	259	7.2	26.0	---	7.7	42.7	24.1	53.8
04...	0925	7.0		5420	242	8.2	26.1	19.0	8.1	74.2	27.4	86.4
04...	0926	2.0		5420	245	8.2	26.1	---	8.2	74.5	27.5	86.8
04...	0930	---		50000	---	---	---	---	---	41.1	27.5	53.8
09...	0825	---		50000	---	---	---	---	---	39.2	25.7	51.2
09...	0826	20		1200	262	6.8	25.6	23.0	5.4	41.1	38.3	59.1
09...	0827	12		1200	262	6.7	25.7	---	5.5	42.7	22.8	53.2
09...	0828	3.0		1200	262	6.2	25.7	---	5.5	35.7	23.6	46.7
09...	0830	32		2340	263	6.7	25.7	24.0	5.6	38.5	32.8	53.8
09...	0831	18		2340	262	6.7	25.7	---	5.7	38.7	22.1	48.9
09...	0832	6.0		2340	262	6.8	25.7	---	5.9	35.8	20.8	45.4

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING 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)	OXYGEN, DISE- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32213)	(32217)
JUL											
09...	0833	2.0	2340	262	262	6.8	25.7	---	5.9	42.5	49.4
09...	0835	9.0	3480	262	262	6.9	25.3	24.0	6.3	46.9	60.0
09...	0836	3.0	3480	262	262	6.9	25.4	---	6.4	39.7	49.8
09...	0840	7.0	5420	258	258	7.2	25.0	21.0	6.5	54.3	67.7
09...	0841	2.0	5420	259	259	7.2	24.9	---	6.6	57.1	66.8
16...	0830	19	1200	265	265	6.5	27.6	22.0	5.8	31.7	46.7
16...	0831	12	1200	265	265	6.4	27.6	---	5.7	30.0	45.0
16...	0832	1.0	1200	265	265	6.5	27.7	---	6.0	31.5	42.2
16...	0835	37	2340	265	265	6.4	27.8	22.0	5.8	31.7	40.4
16...	0836	18	2340	265	265	6.5	27.8	---	5.9	34.3	47.1
16...	0837	1.0	2340	265	265	6.5	27.9	---	6.2	32.3	44.1
16...	0900	---	50000	---	---	---	---	---	---	41.0	53.7
16...	0901	10	3480	261	261	7.1	27.5	23.0	7.1	49.7	65.6
16...	0902	1.0	3480	259	259	7.2	27.5	---	7.4	52.5	63.8
16...	0905	10	5420	255	255	7.9	27.6	23.0	7.2	65.4	82.3
16...	0906	5.0	5420	255	255	8.0	27.6	---	8.0	65.6	83.9
16...	0907	1.0	5420	251	251	8.2	27.7	---	8.3	94.1	110
30...	0930	19	1200	271	271	6.9	28.4	14.0	6.8	44.2	56.2
30...	0931	12	1200	271	271	6.9	28.4	---	6.7	65.3	78.1
30...	0932	1.0	1200	270	270	7.2	28.5	---	7.6	68.2	75.9
30...	0934	25	2340	---	---	---	---	---	---	57.0	63.4
30...	0935	35	2340	271	271	6.7	28.4	18.0	6.1	50.8	61.7
30...	0936	18	2340	271	271	6.7	28.4	---	6.0	56.5	66.6
30...	0937	9.0	2340	271	271	6.7	28.4	---	6.2	61.6	68.1
30...	0938	5.0	2340	271	271	6.8	28.4	---	6.3	37.6	45.7
30...	0939	1.0	2340	271	271	7.3	28.6	---	7.9	52.2	59.6
30...	0940	---	50000	---	---	---	---	---	---	82.4	91.3
30...	1000	11	3480	271	271	7.0	28.1	16.0	6.9	64.3	78.4
30...	1001	4.0	3480	271	271	7.0	28.2	---	7.0	68.8	79.8
30...	1002	1.0	3480	270	270	7.7	28.5	---	8.3	65.9	76.0
30...	1015	10	5420	250	250	8.7	27.7	11.0	8.0	134	144
30...	1016	3.0	5420	258	258	8.2	27.9	---	7.9	127	135
30...	1017	1.0	5420	254	254	8.7	28.2	---	10.4	132	141
AUG											
06...	0830	19	1200	274	274	6.8	29.6	18.0	6.2	70.3	96.7
06...	0831	12	1200	274	274	6.8	29.6	---	6.2	60.0	76.6
06...	0832	1.0	1200	274	274	6.9	29.6	---	6.4	60.0	72.4
06...	0840	33	2340	271	271	6.8	29.5	16.0	6.4	65.8	80.0
06...	0841	18	2430	271	271	6.8	29.5	---	6.4	58.2	74.1
06...	0842	1.0	2340	271	271	6.9	29.6	---	6.5	60.9	75.9

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 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	0850	--	50000	--	--	--	--	--	65.0	41.1	84.0
06...	0900	9.0	3480	272	7.0	29.5	18.0	6.8	67.8	26.1	79.4
06...	0901	3.0	3480	272	7.1	29.6	--	7.0	73.8	29.8	87.2
06...	0902	1.0	3480	272	7.5	27.7	--	7.7	72.4	23.2	82.7
06...	0903	2.0	3480	--	--	--	--	--	75.0	38.7	92.7
06...	0920	10	5420	273	8.1	29.5	20.0	6.8	93.6	37.4	110
06...	0921	2.0	5420	273	8.3	29.7	--	7.8	88.8	34.8	104
06...	0922	1.0	5420	273	8.5	29.8	--	8.6	86.2	28.6	98.9
06...	1855	19	1200	271	6.7	29.8	18.0	5.6	64.9	57.7	92.0
06...	1856	12	1200	271	6.8	30.0	--	6.2	60.0	30.5	73.9
06...	1857	8.0	1200	271	7.3	30.2	--	7.2	71.5	23.5	81.9
06...	1858	1.0	1200	271	8.4	30.7	--	10.2	87.1	21.6	96.3
06...	1900	36	2340	270	6.7	29.7	19.0	5.4	62.9	59.6	88.0
06...	1901	18	2340	271	6.8	30.0	--	6.3	58.9	29.2	72.2
06...	1902	7.0	2340	271	7.3	30.2	--	7.7	--	--	--
06...	1903	1.0	2340	271	7.5	30.3	--	8.1	68.0	24.7	79.0
06...	1920	--	50000	--	--	--	--	--	71.2	24.1	81.9
06...	1921	9.0	3480	270	7.1	30.0	18.0	7.3	72.7	24.8	83.6
06...	1922	1.0	3480	270	7.9	30.1	--	8.4	76.4	23.2	86.6
06...	1923	7.0	3480	--	--	--	--	--	69.0	20.6	78.0
06...	1925	9.0	5420	269	7.9	30.2	16.0	8.2	82.2	35.6	98.3
06...	1926	1.0	5420	268	8.3	30.3	--	9.0	84.4	26.6	96.1
13...	0900	20	1200	261	6.9	28.9	19.0	5.5	75.0	40.9	93.8
13...	0901	12	1200	260	6.8	28.9	--	5.4	69.6	25.3	80.9
13...	0902	8.0	1200	262	6.8	28.8	--	5.4	68.2	20.2	77.0
13...	0903	3.0	1200	250	6.8	28.9	--	5.6	68.3	23.4	78.6
13...	0904	1.0	1200	260	6.9	28.9	--	6.0	67.7	21.0	76.9
13...	0920	36	2340	260	6.6	29.3	22.0	4.8	62.6	28.2	75.4
13...	0921	18	2340	250	6.6	29.3	--	4.8	58.9	23.4	69.5
13...	0922	8.0	2340	250	6.6	29.3	--	4.8	65.8	17.4	73.3
13...	0923	3.0	2340	250	6.6	29.3	--	5.0	62.1	17.3	69.6
13...	0924	1.0	2340	250	6.6	29.3	--	5.0	63.6	21.7	73.2
13...	0930	--	50000	--	--	--	--	--	77.4	21.3	86.6
13...	0941	11	3480	244	6.6	28.8	18.0	5.9	72.4	30.9	86.4
13...	0942	7.0	3480	244	6.6	28.9	--	6.0	79.6	18.4	87.4
13...	0943	3.0	3480	243	6.8	28.9	--	6.7	79.0	19.0	87.1
13...	0944	1.0	3480	243	7.1	28.9	--	7.3	79.6	18.4	87.4
13...	0945	11	5420	246	7.1	28.7	17.0	6.9	91.3	29.6	104
13...	0946	7.0	5420	246	7.2	28.7	--	7.1	85.3	21.9	94.7

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 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											
13...	0947	3.0	5420	246	7.9	28.8	---	8.1	95.5	18.0	103
13...	0948	1.0	5420	246	7.9	28.9	---	8.2	95.2	21.0	104
13...	0909	9.0	1200	---	---	---	---	---	86.2	17.6	93.5
13...	1910	21	1200	247	6.3	29.5	18.0	5.4	75.0	40.9	93.8
13...	1911	12	1200	248	6.3	29.5	---	5.3	71.0	23.8	81.5
13...	1912	7.0	1200	248	8.7	30.0	---	10.9	94.5	15.9	101
13...	1913	3.0	1200	248	8.6	30.0	---	11.2	91.6	15.3	97.7
13...	1914	1.0	1200	267	8.7	30.1	---	11.4	92.5	16.5	99.2
13...	1920	35	2340	245	6.5	29.7	16.0	6.1	85.5	36.6	102
13...	1921	25	2340	245	6.4	29.5	---	6.2	78.8	23.2	88.9
13...	1922	18	2340	245	6.5	29.6	---	6.3	74.5	26.6	86.4
13...	1923	11	2340	245	6.6	29.6	---	7.1	78.5	17.4	85.8
13...	1924	7.0	2340	245	6.6	29.7	---	7.9	79.4	16.6	86.4
13...	1925	3.0	2340	242	7.6	29.7	---	9.1	97.7	14.0	103
13...	1926	1.0	2340	245	8.4	29.8	---	12.0	101	19.3	109
13...	1927	2.0	2340	---	---	---	---	---	98.3	15.8	105
13...	1930	---	50000	---	---	---	---	---	90.0	23.3	100
13...	1945	9.0	3480	245	6.9	29.7	13.0	7.8	85.4	33.5	100
13...	1946	7.0	3480	245	7.0	29.7	---	8.0	86.0	22.1	95.5
13...	1947	3.0	3480	245	7.1	29.7	---	8.3	91.5	22.8	101
13...	1948	1.0	3480	245	7.2	29.7	---	8.3	92.1	22.2	102
13...	1950	9.0	5420	250	8.6	29.5	12.0	10.1	118	24.1	128
13...	1951	7.0	5420	249	8.7	29.5	---	10.1	124	29.9	137
13...	1952	3.0	5420	250	8.7	29.5	---	10.1	124	28.4	136
13...	1953	1.0	5420	250	8.7	29.7	---	10.1	122	29.3	134
19...	1110	---	50000	---	---	---	---	---	78.8	25.5	90.0
19...	1120	39	1200	243	6.7	26.5	25.0	6.4	---	---	---
19...	1121	21	1200	242	6.6	26.7	---	6.4	---	---	---
19...	1122	3.0	1200	242	6.8	26.8	---	7.3	---	---	---
19...	1125	10	5300	247	7.5	25.9	14.0	6.9	---	---	---
19...	1126	6.0	5300	245	7.4	26.1	---	7.1	---	---	---
19...	1127	3.0	5300	245	7.4	26.3	---	7.3	---	---	---
20...	0830	33	2340	240	6.7	26.0	16.0	6.2	72.6	22.1	82.2
20...	0831	24	2340	239	6.6	26.0	---	6.1	68.6	23.2	78.8
20...	0832	18	2340	239	6.6	26.0	---	6.1	71.0	19.2	79.3
20...	0833	8.0	2340	239	6.6	26.0	---	6.1	71.0	19.2	79.3
20...	0834	1.0	2340	239	6.7	26.0	---	6.3	72.3	17.2	79.6
20...	0845	21	1200	239	6.6	26.1	16.0	5.9	74.5	36.9	91.4
20...	0846	16	1200	239	6.6	26.0	---	5.9	70.3	29.8	83.7

APPENDIX D-2

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

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI 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 UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG											
20...	0847	12	1200	239	6.6	26.1	---	6.0	70.5	22.2	80.3
20...	0848	6.0	1200	230	6.6	26.0	---	6.1	68.3	23.5	78.8
20...	0849	1.0	1200	238	6.7	26.1	---	6.5	66.5	17.0	73.8
20...	0900	---	50000	---	---	---	---	---	63.3	29.4	76.7
20...	0901	9.0	3480	239	6.6	25.8	16.0	6.0	68.5	19.5	76.9
20...	0902	4.0	3480	238	6.7	26.0	---	6.5	71.5	17.6	79.0
20...	0903	1.0	3480	238	6.7	26.1	---	6.6	77.6	21.4	86.9
20...	0905	8.0	5420	243	7.7	25.6	17.0	7.1	78.0	21.8	87.4
20...	0906	4.0	5420	243	8.1	25.6	---	7.7	82.5	18.7	90.4
20...	0907	1.0	5420	242	8.0	25.6	---	7.5	80.6	22.7	90.4
20...	1840	---	50000	---	---	---	---	---	82.8	16.1	89.4
20...	1841	10	3480	239	6.7	26.2	13.0	7.6	85.2	24.8	96.0
20...	1842	5.0	3480	239	6.7	26.2	---	7.7	83.2	15.5	89.5
20...	1843	1.0	3480	239	6.7	26.2	---	7.7	86.1	17.4	93.3
20...	1845	11	5420	244	7.8	26.0	14.0	8.4	101	27.5	113
20...	1846	5.0	5420	243	7.7	26.0	---	8.3	96.0	16.5	103
20...	1847	1.0	5420	241	7.6	26.1	---	8.3	90.0	10.4	93.8
20...	1850	24	1200	242	6.3	26.2	20.0	5.6	85.0	56.6	111
20...	1851	16	1200	242	6.3	26.3	---	5.8	71.1	30.7	85.0
20...	1852	12	1200	242	6.4	26.3	---	6.1	66.4	19.6	75.0
20...	1853	8.0	1200	242	6.4	26.3	---	6.3	63.2	16.2	70.2
20...	1854	4.0	1200	242	6.4	26.3	---	6.3	67.2	11.6	71.9
20...	1855	1.0	1200	242	6.4	26.3	---	6.3	66.8	17.4	74.3
20...	1856	33	2340	241	6.4	26.3	20.0	6.6	69.3	22.3	79.1
20...	1857	24	2340	241	6.5	26.3	---	6.8	69.0	19.6	77.5
20...	1858	18	2340	241	6.5	26.3	---	6.8	69.0	23.1	79.2
20...	1859	5.0	2340	241	6.5	26.3	---	6.9	69.2	17.5	79.2
20...	1900	1.0	2340	241	6.6	26.3	---	7.0	73.9	14.4	79.8
25...	2015	20	1200	318	7.0	26.1	---	6.0	36.9	17.2	44.7
25...	2016	12	1200	314	7.0	26.1	---	6.2	37.8	15.3	44.7
25...	2017	1.0	1200	250	7.1	26.4	---	7.0	40.9	12.5	46.4
25...	2030	35	2340	253	6.7	25.6	---	4.4	38.4	24.6	49.8
25...	2031	18	2340	244	6.6	25.6	---	4.6	42.7	21.2	52.4
25...	2032	1.0	2340	238	6.8	26.1	---	6.6	51.0	14.9	57.5
25...	2040	---	50000	---	---	---	---	---	48.9	18.9	57.4
25...	2045	9.0	3480	239	7.1	26.0	---	7.0	46.1	20.1	55.2
25...	2046	1.0	3480	239	7.1	26.1	---	7.1	50.0	15.7	56.9
25...	2050	9.0	5420	241	8.6	26.4	---	8.6	79.6	17.3	86.9
25...	2051	1.0	5420	241	8.5	26.4	---	8.6	72.7	20.0	81.3



## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
SEP	1955	--	1200	--	--	--	--	--	61.1	27.0	73.3
03...	2000	27	1200	284	6.7	29.0	--	6.3	61.0	23.1	71.4
03...	2001	12	1200	284	6.6	29.1	--	6.5	58.6	24.2	69.5
03...	2002	6.0	1200	283	6.8	29.2	--	6.7	68.0	9.20	71.5
03...	2003	1.0	1200	282	7.2	29.4	--	7.9	69.8	11.2	74.3
03...	2010	--	2340	--	--	--	--	--	62.4	22.9	72.6
03...	2015	37	2340	284	6.8	29.1	--	6.8	63.2	24.0	73.9
03...	2016	18	2340	283	6.8	29.1	--	6.8	61.1	20.1	70.0
03...	2017	5.0	2340	282	7.1	29.1	--	7.2	63.6	20.4	72.6
03...	2018	1.0	2340	282	7.1	29.1	--	7.0	61.4	20.1	70.2
03...	2025	--	3480	--	--	--	--	--	80.0	22.0	89.5
03...	2030	--	50000	--	--	--	--	--	70.0	24.0	80.6
03...	2031	1.0	3480	283	8.2	29.3	--	8.7	85.4	19.2	93.5
03...	2032	8.0	3480	283	8.2	29.3	--	9.0	85.0	16.7	91.9
03...	2045	8.0	5420	296	8.6	29.3	--	9.4	88.8	19.3	96.9
03...	2046	1.0	5420	301	8.6	29.2	--	8.8	88.6	26.2	100
03...	2050	--	5420	--	--	--	--	--	87.9	27.1	99.8
15...	1840	21	1200	321	7.0	25.8	--	7.8	77.5	34.5	93.1
15...	1841	12	1200	320	7.1	25.9	--	8.1	77.7	24.8	88.6
15...	1842	6.0	1200	320	7.2	25.9	--	8.2	76.7	28.6	89.5
15...	1843	1.0	1200	320	7.2	28.5	--	8.1	75.6	22.4	85.4
15...	1850	--	50000	--	--	--	--	--	91.3	20.2	99.8
15...	1851	33	2340	313	7.0	25.8	--	7.3	--	--	--
15...	1852	18	2340	313	7.0	25.7	--	7.4	--	--	--
15...	1853	1.0	2340	313	7.0	25.7	--	7.5	--	--	--
15...	1854	--	2340	--	--	--	--	--	74.0	25.6	85.3
15...	1855	9.0	3480	318	8.7	25.7	--	9.9	--	--	--
15...	1856	1.0	3480	318	8.7	25.7	--	9.8	--	--	--
15...	1857	--	3480	--	--	--	--	--	93.1	22.0	102
15...	1900	10	5420	332	9.1	25.8	--	10.5	--	--	--
15...	1901	1.0	5420	331	9.0	25.8	--	10.5	--	--	--
15...	1905	--	5420	--	--	--	--	--	127	18.1	134
16...	1726	31	500	336	6.9	25.1	20.0	5.7	52.2	25.7	63.9
16...	1727	15	500	333	6.9	25.1	--	5.9	56.4	20.2	65.4
16...	1728	3.0	500	331	6.9	25.1	--	6.3	52.6	21.1	62.1

## APPENDIX D-2

## 01658710 - POTOMAC RIVER AT QUANTICO, VA.

## WATER QUALITY DATA - WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION CROSS SECTION (FT FM LJ BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)
OCT							
06...	1115	26	6000	170	---	18.5	10.0
06...	1116	15	6000	170	---	18.5	---
06...	1117	3.0	6000	180	---	18.8	---
06...	1118	1.0	6000	180	---	19.0	---
06...	1120	26	2300	195	---	18.8	10.0
06...	1121	15	2300	190	---	18.5	---
06...	1122	3.0	2300	185	---	18.8	---
06...	1123	1.0	2300	185	---	19.0	---
06...	1130	---	50000	---	---	---	---
06...	12...	---	6900	---	---	---	---
18...	1233	---	6900	---	---	---	---
18...	1434	---	6900	---	---	---	---
25...	1210	---	6900	---	---	---	---
28...	0936	1.0	6400	---	---	---	---
28...	0937	13	6400	---	---	---	---
28...	0938	24	6400	---	---	---	---
29...	1006	---	6900	---	---	---	---
30...	1125	---	6900	---	---	---	---
NOV							
05...	1040	---	6900	---	---	---	---
07...	1210	---	6900	---	---	---	---
08...	0910	---	6000	---	---	---	---
08...	1125	---	6000	---	---	---	---
08...	1350	---	6000	---	---	---	---
08...	1610	---	6000	---	---	---	---
08...	1710	---	6000	---	---	---	---
13...	1120	---	6900	---	---	---	---
14...	1230	---	6900	---	---	---	---
15...	1250	---	6000	---	---	---	---
20...	1045	---	6900	---	---	---	---
29...	1205	5.0	2300	---	---	---	---
29...	1215	10	6000	---	---	---	---
29...	1220	---	6900	---	---	---	---
29...	1355	2.5	6000	---	---	---	---
DEC							
04...	1320	---	50000	---	---	---	---
04...	1330	---	6900	---	---	---	---
13...	1225	---	6900	---	---	---	---
13...	1235	---	6000	---	---	---	---
13...	1245	---	50000	---	---	---	---
20...	0750	25	6000	196	7.9	4.5	30.0

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYL A PHYTO- PLANK- TON CORR. (UG/L) (32211)	PHEO- PHYTIN PHYTO- PLANK- TON CORR. (UG/L) (32218)	CHLORO- PHYL A PHYTO- PLANK- TON UNCORR. (UG/L) (32230)	CHLORO- PHYL A PHYTO- PLANK- TON CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYL A FLUORO- METRIC METHOD (UG/L) (32217)
OCT							
06...	7.5	--	--	--	--	--	--
06...	7.4	--	--	--	--	--	--
06...	7.4	--	--	--	--	--	--
06...	7.4	--	--	--	--	--	--
06...	7.4	--	--	--	--	--	--
06...	7.4	--	--	--	--	--	--
06...	7.5	--	--	--	--	--	--
06...	--	6.60	9.60	12.9	--	--	--
12...	--	11.1	3.50	13.9	--	--	--
18...	--	--	--	--	8.30	8.50	12.5
25...	--	--	--	--	4.80	6.40	8.00
28...	--	--	--	--	18.1	9.50	22.8
28...	--	--	--	--	9.70	7.70	13.5
28...	--	--	--	--	9.80	9.30	14.4
28...	--	--	--	--	8.20	7.80	12.0
29...	--	--	--	--	12.6	6.80	16.0
30...	--	--	--	--	12.8	5.70	15.6
NOV							
05...	--	--	--	--	6.10	23.8	22.8
07...	--	--	--	--	48.0	15.7	55.6
08...	--	--	--	--	14.2	11.4	19.8
08...	--	--	--	--	15.0	8.20	19.0
08...	--	--	--	--	10.8	11.6	16.5
08...	--	--	--	--	10.6	8.40	14.7
08...	--	--	--	--	9.00	8.40	13.1
13...	--	--	--	--	26.4	15.7	34.1
14...	--	--	--	--	26.5	19.1	35.9
15...	--	--	--	--	20.0	13.7	26.7
20...	--	--	--	--	28.4	17.9	37.2
29...	--	--	--	--	10.5	10.7	15.8
29...	--	--	--	--	17.7	9.30	22.2
29...	--	--	--	--	27.9	19.9	37.6
29...	--	--	--	--	18.3	14.4	25.4
DEC							
04...	--	--	--	--	11.8	9.10	16.2
04...	--	--	--	--	18.4	9.60	23.0
13...	--	--	--	--	24.7	4.20	28.6
13...	--	--	--	--	16.5	5.50	20.6
13...	--	--	--	--	14.2	5.30	18.0
20...	13.1	--	--	--	--	--	--

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCTI- ANCE (JMHS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A 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)
DEC											
20...	0751	12	6000	196	7.9	4.5		12.5			
20...	0752	3.0	6000	196	7.9	4.5		12.1			
20...	0800		50000						17.0	10.5	23.8
20...	0801	19	2300	199	7.8	4.0	30.0	13.2			
20...	0802	10	2300	199	7.8	4.0		12.8			
20...	0803	3.0	2300	199	7.8	4.0		12.0			
28...	0910		6300						15.1	7.30	20.1
28...	1150		6300						14.2	8.20	19.6
28...	1500		6300						14.2	5.70	18.3
JAN											
03...	0900		6300						18.0	5.70	20.8
03...	1205		6300						19.8	5.20	22.4
09...	1340		6300						24.6	6.60	27.4
16...	1240	25	6000	262	8.2	2.8	16.0	13.8			
16...	1241	15	6000	257	8.1	2.8		14.0			
16...	1242	10	6000	252	8.1	2.8		14.0			
16...	1243	8.0	6000	252	8.1	2.8		14.1			
16...	1244	5.0	6000	252	8.1	2.8		14.1			
16...	1245	3.0	6000	247	8.1	2.8		14.1			
16...	1246	1.0	6000	247	8.1	2.8		14.1			
16...	1250		50000						24.6	7.50	27.9
16...	1251	16	2300	252	8.1	2.8		15.4			
16...	1252	10	2300	247	8.1	2.8		14.4			
16...	1253	8.0	2300	247	8.1	2.8		14.2			
16...	1254	5.0	2300	247	8.1	2.8		14.0			
16...	1255	3.0	2300	247	8.1	3.0		13.8			
16...	1256	1.0	2300	242	8.1	3.5		14.2			
16...	1257		2300						26.4	7.90	29.8
16...	1258		6000						21.6	9.00	25.6
21...	1345		6300						75.0	10.9	79.2
31...	1310		6900						54.0	10.9	58.5
31...	1600		6900						54.3	12.4	59.6
FEB											
05...	1300		6300						26.1	5.70	28.5
12...	1000		6900						29.7	7.70	33.0
12...	1245		6900						28.2	5.50	30.4
19...	0910	27	6000	165	8.3	.8	9.0	15.0			
19...	0911	20	6000	160	8.3	.8		15.0			
19...	0912	10	6000	160	8.2	.8		14.9			
19...	0913	5.0	6000	160	8.2	.8		14.9			
19...	0914	3.0	6000	160	8.2	.8		15.0			

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING SECTION (FT FM)	SPE- CIFIC CON- DUCT- ANCE	PH	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED	CHLORO- PHYLLA FLUORO- METRIC CORR. (UG/L)	PHEOPHY- TINIA FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00300)	(32209)	(32213)	(32217)
FEB	0920	---	50000	---	---	---	---	28.8	12.4	34.4
19...	0925	19	2300	415	8.1	.3	14.9	---	---	---
19...	0926	10	2300	425	8.1	.3	14.8	---	---	---
19...	0927	5.0	2300	425	8.1	.3	14.8	---	---	---
19...	0928	3.0	2300	395	8.1	.3	14.8	---	---	---
27...	0840	---	50000	---	---	---	---	28.8	2.70	29.7
27...	1200	---	50000	---	---	---	---	39.6	11.1	44.4
27...	1400	---	50000	---	---	---	---	36.6	14.1	42.9
MAR	1325	1.0	2300	280	8.3	.9	14.2	---	---	---
04...	1326	10	2300	258	8.3	.8	14.2	---	---	---
04...	1327	24	2300	278	8.2	.8	14.2	---	---	---
04...	1340	---	50000	---	---	---	---	57.1	8.20	60.3
04...	1341	1.0	4500	355	8.3	1.2	14.1	---	---	---
04...	1342	10	4500	353	8.3	1.1	14.0	---	---	---
04...	1343	22	4500	341	8.3	1.0	14.0	---	---	---
04...	1350	1.0	6000	214	8.5	1.8	14.1	---	---	---
04...	1351	10	6000	208	8.5	1.8	14.2	---	---	---
04...	1352	29	6000	203	8.5	1.9	14.1	---	---	---
06...	1340	1.0	2300	352	8.4	2.1	14.8	---	---	---
06...	1341	10	2300	352	8.4	1.9	14.7	---	---	---
06...	1342	19	2300	362	8.3	1.9	14.7	---	---	---
06...	1350	---	50000	---	---	---	---	73.1	12.5	78.1
06...	1351	1.0	4500	312	8.4	2.0	14.7	---	---	---
06...	1352	10	4500	302	8.4	1.9	14.7	---	---	---
06...	1353	22	4500	302	8.4	1.8	14.7	---	---	---
06...	1355	1.0	6000	292	8.4	3.4	14.7	---	---	---
06...	1356	10	6000	292	8.4	3.8	14.6	---	---	---
06...	1357	27	6000	292	8.4	3.4	14.7	---	---	---
06...	1700	1.0	2300	302	8.4	2.2	15.0	---	---	---
06...	1701	10	2300	302	8.4	2.0	14.8	---	---	---
06...	1702	22	2300	307	8.4	2.0	14.7	---	---	---
06...	1710	---	50000	---	---	---	---	65.5	10.5	69.6
06...	1711	1.0	4500	317	8.2	2.3	14.4	---	---	---
06...	1712	10	4500	317	8.2	2.3	14.5	---	---	---
06...	1713	23	4500	317	8.2	2.2	14.5	---	---	---
06...	1720	1.0	6000	292	8.6	2.5	15.3	---	---	---
06...	1721	10	6000	287	8.6	2.7	15.2	---	---	---
06...	1722	28	6000	287	8.5	3.8	15.0	---	---	---
11...	1205	1.0	2300	319	8.6	5.4	14.0	---	---	---

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- 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 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	1206	10	2300	319	8.6	5.4	---	14.0	---	---	---
11...	1207	22	2300	319	8.6	5.4	---	14.0	---	---	---
11...	1215	---	50000	---	---	---	---	---	91.4	14.9	97.3
11...	1220	1.0	4500	317	8.6	5.3	---	13.9	---	---	---
11...	1221	10	4500	318	8.5	5.2	---	14.0	---	---	---
11...	1222	25	4500	320	8.5	5.2	---	13.9	---	---	---
11...	1230	1.0	6000	304	8.9	5.9	---	14.3	---	---	---
11...	1231	10	6000	307	8.8	5.8	---	14.4	---	---	---
11...	1232	24	6000	315	8.6	5.4	---	14.1	---	---	---
11...	1440	1.0	2300	319	8.7	5.7	---	14.1	---	---	---
11...	1441	10	2300	319	8.7	5.7	---	14.2	---	---	---
11...	1442	23	2300	318	8.7	5.7	---	14.2	---	---	---
11...	1445	1.0	4500	320	8.6	5.4	---	13.9	---	---	---
11...	1446	10	4500	320	8.6	5.5	---	14.0	---	---	---
11...	1447	26	4500	320	8.5	5.4	---	13.9	---	---	---
11...	1450	---	50000	---	---	---	---	---	92.4	13.6	97.7
11...	1455	1.0	6000	310	8.8	5.9	---	14.2	---	---	---
11...	1456	10	6000	310	8.7	5.8	---	14.4	---	---	---
11...	1457	29	6000	315	8.6	5.5	---	14.1	---	---	---
11...	1800	1.0	2300	317	8.4	5.5	---	13.9	---	---	---
11...	1801	10	2300	317	8.4	5.5	---	13.9	---	---	---
11...	1802	21	2300	317	8.4	5.6	---	13.9	---	---	---
11...	1810	---	50000	---	---	---	---	---	88.0	7.80	90.5
11...	1811	1.0	4500	318	8.5	5.4	---	14.0	---	---	---
11...	1812	10	4500	318	8.5	5.4	---	14.1	---	---	---
11...	1813	25	4500	318	8.5	5.4	---	14.0	---	---	---
11...	1820	1.0	6000	309	8.9	6.5	---	14.4	---	---	---
11...	1821	10	6000	310	8.8	6.3	---	14.6	---	---	---
11...	1822	27	6000	312	8.8	5.8	---	14.6	---	---	---
17...	1100	---	50000	---	---	---	---	---	72.8	20.7	81.8
17...	1830	---	50000	---	---	---	---	---	90.0	40.5	108
18...	0700	---	50000	---	---	---	---	---	61.8	23.7	72.4
18...	0701	26	6000	298	8.2	7.4	12.0	12.1	---	---	---
18...	0702	14	6000	298	8.2	7.4	---	12.0	53.8	19.7	62.6
18...	0703	3.0	6000	298	8.3	7.3	---	12.0	57.8	21.6	67.5
18...	0710	16	2300	297	8.3	7.3	---	12.3	---	---	---
18...	0711	7.0	2300	296	8.3	7.4	---	12.2	75.0	30.2	88.6
18...	0712	3.0	2300	297	8.3	7.4	---	12.2	---	---	---
20...	0630	---	50000	---	---	---	---	---	53.2	25.5	64.9

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

## WATER QUALITY DATA - WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
20...	0955	1.0	2300	255	7.6	8.4	---	11.2	---	---	---
20...	0956	17	2300	255	7.6	8.3	---	11.1	---	---	---
20...	1000	---	50000	---	---	---	---	---	56.2	19.4	64.9
20...	1001	1.0	4500	257	7.7	8.3	---	11.3	---	---	---
20...	1002	22	4500	255	7.7	8.1	---	11.2	---	---	---
20...	1010	1.0	6000	259	8.4	8.7	---	12.1	---	---	---
20...	1011	32	6000	256	8.2	8.3	---	11.7	---	---	---
20...	1345	1.0	2300	250	7.8	8.8	---	11.3	---	---	---
20...	1346	18	2300	246	7.7	8.6	---	11.2	---	---	---
20...	1350	---	50000	---	---	---	---	---	51.0	20.8	60.4
20...	1351	1.0	4500	248	7.6	8.6	---	11.1	---	---	---
20...	1352	19	4500	246	7.6	8.5	---	11.1	---	---	---
20...	1355	1.0	6000	243	8.1	8.8	---	11.7	---	---	---
20...	1356	29	6000	241	8.4	8.8	---	11.6	---	---	---
25...	1115	1.0	2300	175	7.4	8.2	---	5.8	---	---	---
25...	1116	15	2300	172	7.4	8.2	---	5.8	---	---	---
25...	1125	---	50000	---	---	---	---	---	20.3	11.6	25.6
25...	1126	1.0	4500	145	7.2	8.3	---	5.7	---	---	---
25...	1127	26	4500	147	7.3	8.2	---	5.6	---	---	---
25...	1140	1.0	6000	181	7.5	8.7	---	5.9	---	---	---
25...	1141	32	6000	167	7.4	8.4	---	5.9	---	---	---
25...	1310	---	50000	---	---	---	---	---	21.5	13.5	27.8
26...	1255	1.0	6000	187	7.2	9.2	---	9.9	---	---	---
26...	1256	10	6000	187	7.1	8.9	---	9.8	---	---	---
26...	1257	30	6000	188	7.1	8.7	---	9.7	---	---	---
26...	1300	---	50000	---	---	---	---	---	18.2	10.1	22.8
26...	1301	1.0	4500	164	7.0	8.8	---	10.0	---	---	---
26...	1302	24	4500	166	7.0	8.5	---	9.8	---	---	---
26...	1310	1.0	2300	159	7.0	8.7	---	10.0	---	---	---
26...	1311	25	2300	160	7.0	8.3	---	10.0	---	---	---
28...	0905	26	6000	186	7.2	9.0	12.0	10.6	---	---	---
28...	0906	13	6000	185	7.2	9.1	---	10.6	---	---	---
28...	0907	3.0	6000	186	7.2	9.2	---	10.6	---	---	---
28...	0915	21	4500	187	7.5	8.8	9.0	11.3	---	---	---
28...	0916	10	4500	197	7.5	8.8	---	11.3	---	---	---
28...	0917	3.0	4500	187	7.6	8.8	---	11.3	---	---	---
28...	0920	21	2300	187	7.6	8.6	6.0	11.4	---	---	---
28...	0921	10	2300	188	7.6	8.7	---	11.3	---	---	---
28...	0922	3.0	2300	197	7.6	8.8	---	11.3	---	---	---

APPENDIX D-2  
01658710 - POTOMAC RIVER AT QUANTICO, VA. -- Cont.

WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

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)	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											
28...	0930	--	50000	--	--	--	--	--	18.0	16.5	25.8
31...	1127	26	2300	210	8.8	9.0	--	7.0	--	--	--
31...	1128	20	2300	205	8.5	9.0	--	10.6	--	--	--
31...	1129	10	2300	205	8.4	9.0	--	10.7	--	--	--
31...	1130	3.0	2300	205	7.9	9.0	--	10.7	--	--	--
31...	1135	--	50000	--	--	--	--	--	20.4	16.1	27.8
31...	1136	--	6000	--	--	--	--	--	24.6	15.6	31.9
31...	1145	39	6000	205	8.0	9.5	--	10.6	--	--	--
31...	1146	20	6000	205	8.2	9.5	--	10.6	--	--	--
31...	1147	3.0	6000	205	7.8	9.5	--	10.6	--	--	--
31...	1410	29	6000	205	9.5	9.5	--	10.7	--	--	--
31...	1411	20	6000	205	9.6	9.5	--	10.7	--	--	--
31...	1412	3.0	6000	205	8.2	10.0	--	11.0	--	--	--
31...	1415	--	50000	--	--	--	--	--	18.0	10.8	23.0
31...	1420	26	2300	210	9.2	9.0	--	10.8	--	--	--
31...	1421	13	2300	210	9.3	9.0	--	10.8	--	--	--
31...	1422	1.0	2300	205	8.2	9.0	--	10.8	--	--	--
APR											
03...	0700	28	6000	193	7.5	10.6	12.0	9.8	--	--	--
03...	0701	15	6000	193	7.5	10.7	--	9.9	--	--	--
03...	0702	3.0	6000	182	7.5	10.8	--	10.0	--	--	--
03...	0710	--	50000	--	--	--	--	--	13.0	9.70	17.5
03...	0711	12	4500	200	7.5	10.2	12.0	9.8	--	--	--
03...	0712	3.0	4500	200	7.5	10.2	--	9.9	--	--	--
03...	0720	23	2300	201	7.5	10.1	12.0	9.7	--	--	--
03...	0721	13	2300	200	7.5	10.1	--	9.9	--	--	--
03...	0723	3.0	2300	201	7.5	10.1	--	9.9	--	--	--
07...	1140	1.0	2300	173	7.2	12.4	--	9.8	--	--	--
07...	1141	10	2300	174	7.2	12.1	--	9.8	--	--	--
07...	1142	23	2300	174	7.1	12.0	--	9.8	--	--	--
07...	1150	--	50000	--	--	--	--	--	14.0	7.60	17.5
07...	1155	1.0	4500	176	7.2	12.3	--	10.0	--	--	--
07...	1156	10	4500	176	7.2	12.2	--	10.0	--	--	--
07...	1157	24	4500	176	7.2	11.8	--	10.0	--	--	--
07...	1205	1.0	6000	149	7.4	13.3	--	10.2	--	--	--
07...	1206	10	6000	175	7.2	12.5	--	10.1	--	--	--
07...	1207	32	6000	175	7.2	12.2	--	10.0	--	--	--
07...	1450	1.0	6000	168	7.3	13.1	--	10.0	--	--	--
07...	1451	10	6000	169	7.4	12.8	--	10.0	--	--	--
07...	1453	33	6000	170	7.4	12.7	--	10.1	--	--	--



## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING DEPTH (00003)	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)
					(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
APR	1510	--	50000	--	--	--	--	--	--	15.6	10.4	20.4
07...	1511	1.0	4500	168	7.3	7.3	12.1	--	9.9	--	--	--
07...	1512	10	4500	168	7.3	7.3	12.1	--	9.9	--	--	--
07...	1513	23	4500	168	7.3	7.3	12.1	--	9.9	--	--	--
07...	1515	1.0	2300	166	7.2	7.2	11.9	--	9.8	--	--	--
07...	1516	10	2300	166	7.2	7.2	11.9	--	9.8	--	--	--
07...	1517	24	2300	166	7.2	7.2	11.9	--	9.8	--	--	--
10...	0545	16	2300	177	6.9	6.9	12.9	16.0	9.5	--	--	--
10...	0546	10	2300	178	7.0	7.0	13.0	--	9.5	--	--	--
10...	0547	3.0	2300	178	7.0	7.0	13.0	--	9.5	--	--	--
10...	0550	--	50000	--	--	--	--	--	--	10.3	13.1	16.6
10...	0600	15	4500	177	7.0	7.0	12.9	15.0	9.5	--	--	--
10...	0601	9.0	4500	178	7.0	7.0	12.9	--	9.6	--	--	--
10...	0602	3.0	4500	178	7.0	7.0	12.9	--	9.5	--	--	--
10...	0605	17	6000	176	7.1	7.1	13.4	15.0	9.6	--	--	--
10...	0606	10	6000	176	7.1	7.1	13.7	--	9.6	--	--	--
10...	0607	3.0	6000	176	7.1	7.1	14.2	--	9.5	--	--	--
10...	0845	3.0	6000	174	7.2	7.2	13.7	--	9.4	--	--	--
10...	0846	17	6000	174	7.1	7.1	13.5	--	9.3	--	--	--
10...	0847	20	6000	175	7.2	7.2	13.4	20.0	9.3	--	--	--
10...	0850	22	4500	178	7.1	7.1	13.3	22.0	9.4	--	--	--
10...	0851	13	4500	178	7.1	7.1	13.1	--	9.4	--	--	--
10...	0852	3.0	4500	178	7.1	7.1	13.3	--	9.4	--	--	--
10...	0900	--	50000	--	--	--	--	--	--	10.3	7.60	13.9
10...	0901	18	2300	174	7.1	7.1	13.0	--	9.3	--	--	--
10...	0902	11	2300	174	7.1	7.1	13.0	--	9.3	--	--	--
10...	0903	3.0	2300	175	7.1	7.1	13.0	--	9.3	--	--	--
11...	1805	3.0	4500	--	--	--	--	--	--	21.9	7.10	25.0
11...	1806	25	4500	--	--	--	--	--	--	20.0	25.1	31.9
15...	1615	3.0	2300	--	--	--	--	--	--	--	--	--
15...	1616	12	2300	210	7.2	7.2	14.5	--	9.0	--	--	--
15...	1640	--	50000	--	--	--	--	--	--	35.5	16.0	42.8
15...	1641	26	4500	214	7.2	7.2	14.6	--	8.9	--	--	--
15...	1642	10	4500	213	7.2	7.2	14.6	--	8.9	--	--	--
15...	1644	3.0	4500	213	7.2	7.2	14.5	--	8.9	--	--	--
18...	0950	--	50000	--	--	--	--	--	--	30.6	12.3	36.2
18...	1250	1.0	4500	186	7.3	7.3	13.9	14.0	9.6	--	--	--
18...	1252	10	4500	187	7.2	7.2	13.6	--	9.5	--	--	--
18...	1254	16	4500	186	7.2	7.2	13.6	--	9.4	--	--	--

APPENDIX D-2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L)
APR	1300	--	50000	--	--	--	--	--	37.8	19.0	46.5
18...	1301	1.0	6000	188	7.9	14.7	24.0	10.5	--	--	--
18...	1302	10	6000	188	7.7	14.7	--	10.2	--	--	--
18...	1303	28	6000	188	7.6	13.6	--	10.1	--	--	--
18...	1310	1.0	2300	184	7.2	13.5	12.0	9.5	--	--	--
18...	1311	10	2300	183	7.2	13.4	--	9.4	--	--	--
18...	1312	18	2300	184	7.2	13.3	--	9.5	--	--	--
22...	1635	17	2300	183	7.9	15.8	16.0	10.4	--	--	--
22...	1636	10	2300	183	8.0	15.8	--	10.5	--	--	--
22...	1637	3.0	2300	183	8.1	15.8	--	10.7	--	--	--
22...	1652	--	50000	--	--	--	--	--	60.0	6.10	62.1
22...	1653	3.0	6000	--	--	--	--	--	64.9	6.00	66.9
22...	1654	27	6000	--	--	--	--	--	69.0	12.4	74.0
22...	1655	3.0	2300	--	--	--	--	--	56.2	8.10	59.4
22...	1656	17	2300	--	--	--	--	--	61.6	14.2	67.6
22...	1700	27	6000	183	7.6	15.4	19.0	10.2	--	--	--
22...	1701	15	6000	183	7.6	15.3	--	10.1	--	--	--
22...	1702	10	6000	183	7.8	15.3	--	10.4	--	--	--
22...	1703	6.0	6000	183	7.9	15.4	--	10.5	--	--	--
22...	1704	3.0	6000	181	8.2	15.8	--	11.0	--	--	--
22...	1915	29	6000	178	7.8	15.3	--	10.5	--	--	--
22...	1916	15	6000	178	7.8	15.3	--	10.5	--	--	--
22...	1917	8.0	6000	177	8.1	15.8	--	10.9	--	--	--
22...	1918	3.0	6000	177	8.4	16.3	--	11.2	--	5.50	75.5
22...	1931	--	50000	--	--	--	--	--	73.9	--	--
22...	1932	17	2300	178	8.0	15.7	--	11.0	--	--	--
22...	1933	10	2300	178	8.1	15.8	--	11.1	--	--	--
22...	1934	3.0	2300	178	8.3	16.0	--	11.3	--	--	--
29...	1040	--	50000	--	--	--	--	--	35.0	26.8	47.5
29...	1415	--	50000	--	--	--	--	--	40.5	18.7	49.0
MAY	0525	--	50000	--	--	--	--	--	46.0	15.8	53.0
05...	0915	15	2300	204	7.3	17.0	22.0	9.1	--	--	--
05...	0916	10	2300	204	7.3	17.0	--	9.4	--	--	--
05...	0917	3.0	2300	202	7.4	17.0	--	10.0	--	--	--
05...	0925	--	50000	--	--	--	--	--	44.3	8.70	47.9
05...	0926	22	4500	197	7.2	17.2	22.0	9.5	--	--	--
05...	0927	12	4500	197	7.3	17.0	--	9.7	--	--	--
05...	0928	3.0	4500	196	7.4	17.0	--	9.9	--	--	--
05...	0935	29	6000	202	7.3	17.2	22.0	9.4	--	--	--

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

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 (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)	(00010)	(00077)	(00300)	(00400)	(00010)	(00300)	(00400)	(00077)	(00300)
MAY											
05...	0936	16	6000	193	7.3	17.2	---	9.4	---	---	---
05...	0937	3.0	6000	192	7.3	17.4	---	9.5	---	---	---
05...	1110	19	2300	202	7.3	17.7	25.0	9.3	---	---	---
05...	1111	11	2300	202	7.2	17.5	---	9.3	---	---	---
05...	1112	3.0	2300	199	7.5	18.0	---	9.7	---	---	---
05...	1120	---	50000	---	---	---	---	---	45.0	5.40	47.0
05...	1121	23	4500	199	7.2	17.6	23.0	9.3	---	---	---
05...	1122	13	4500	198	7.3	17.5	---	9.2	---	---	---
05...	1123	3.0	4500	200	7.4	17.8	---	9.5	---	---	---
05...	1135	29	6000	203	7.2	17.5	22.0	9.1	---	---	---
05...	1136	16	6000	202	7.4	17.7	---	9.3	---	---	---
05...	1137	3.0	6000	202	7.6	18.2	---	9.7	---	---	---
08...	0520	---	50000	---	---	---	---	---	48.4	9.60	52.3
09...	1200	3.0	2300	---	---	---	---	---	31.1	10.7	35.8
09...	1202	25	2300	---	---	---	---	---	28.5	18.8	37.2
13...	1000	3.0	2300	163	7.3	18.8	14.0	8.5	---	---	---
13...	1001	10	2300	163	7.2	18.8	---	8.5	---	---	---
13...	1002	17	2300	163	7.2	18.7	---	8.4	---	---	---
13...	1010	3.0	4500	163	7.3	18.9	16.0	8.7	---	---	---
13...	1011	12	4500	163	7.2	18.8	---	8.6	---	---	---
13...	1012	20	4500	163	7.2	18.7	---	8.6	---	---	---
13...	1020	---	50000	---	---	---	---	---	45.3	20.8	54.8
13...	1025	3.0	6000	165	7.6	19.9	13.0	8.5	---	---	---
13...	1026	16	6000	164	7.5	19.2	---	9.1	---	---	---
13...	1027	30	6000	164	7.5	19.1	---	9.1	---	---	---
13...	1310	3.0	6000	163	7.9	21.4	12.0	8.9	---	---	---
13...	1311	12	6000	163	7.6	20.1	---	9.0	---	---	---
13...	1312	27	6000	162	7.6	20.0	---	8.9	---	---	---
13...	1325	---	50000	---	---	---	---	---	47.6	18.2	55.8
13...	1326	3.0	4500	167	7.3	19.1	13.0	8.7	---	---	---
13...	1327	10	4500	165	7.2	19.4	---	8.7	---	---	---
13...	1328	17	4500	165	7.2	19.4	---	8.7	---	---	---
13...	1340	3.0	2300	165	7.2	19.6	16.0	8.7	---	---	---
13...	1341	10	2300	166	7.1	19.2	---	8.6	---	---	---
13...	1342	19	2300	167	7.0	19.1	---	8.4	---	---	---
16...	0640	---	50000	---	---	---	---	---	52.8	31.2	67.2
19...	1440	21	2300	182	7.4	20.5	24.0	8.1	---	---	---
19...	1441	3.0	2300	183	7.9	21.2	---	9.3	---	---	---
19...	1450	24	6000	186	7.3	20.5	24.0	7.8	---	---	---

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM LEFT 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 (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)
MAY											
19...	1451	3.0	6000	185	7.9	20.9	---	9.1	37.6	6.40	40.2
19...	1455	---	50000	---	---	---	---	---	34.4	17.0	42.2
21...	1030	---	50000	---	---	---	---	---	34.1	12.2	39.6
21...	1330	---	50000	---	---	---	---	---	34.0	11.8	39.2
28...	1040	18	2300	201	7.3	20.8	18.0	7.5	---	---	---
28...	1041	10	2300	201	7.3	20.7	---	8.0	---	---	---
28...	1042	3.0	2300	200	7.4	20.8	---	8.2	---	---	---
28...	1050	---	50000	---	---	---	---	---	30.5	16.9	38.2
28...	1055	20	4500	197	7.2	20.5	16.0	7.7	---	---	---
28...	1056	12	4500	197	7.2	20.5	---	7.8	---	---	---
28...	1057	3.0	4500	198	7.4	21.0	---	8.3	---	---	---
28...	1100	30	6000	198	7.3	20.5	18.0	7.9	---	---	---
28...	1101	15	6000	198	7.3	21.4	---	6.9	---	---	---
28...	1102	3.0	6000	200	7.4	21.4	---	8.6	---	---	---
28...	1305	9.0	2300	188	7.1	20.8	---	7.7	---	---	---
28...	1306	6.0	2300	187	7.2	20.9	---	8.0	---	---	---
28...	1307	3.0	2300	192	7.7	21.8	---	9.3	---	---	---
28...	1315	---	50000	---	---	---	---	---	31.0	12.8	36.7
28...	1316	14	4500	184	7.1	20.5	22.0	7.8	---	---	---
28...	1317	9.0	4500	183	7.1	20.6	---	7.7	---	---	---
28...	1321	3.0	4500	180	7.2	21.3	---	8.5	---	---	---
28...	1330	28	6000	187	7.3	20.7	---	8.1	---	---	---
28...	1332	16	6000	183	7.3	21.2	---	8.5	---	---	---
28...	1333	3.0	6000	196	7.8	22.4	---	8.8	---	---	---
30...	1615	3.0	2300	179	7.4	22.0	18.0	8.8	---	---	---
30...	1616	7.0	2300	180	7.1	21.3	---	7.9	---	---	---
30...	1617	16	2300	179	7.0	21.2	---	7.6	---	---	---
30...	1630	---	50000	---	---	---	---	---	41.0	12.6	46.5
30...	1631	3.0	4500	178	7.5	22.0	18.0	9.1	---	---	---
30...	1632	10	4500	178	7.2	21.7	---	8.5	---	---	---
30...	1633	26	4500	178	7.1	21.5	---	8.0	---	---	---
30...	1640	3.0	6000	177	8.0	22.8	---	11.5	---	---	---
30...	1641	15	6000	177	7.4	22.2	---	8.6	---	---	---
30...	1642	30	6000	177	7.2	21.8	---	8.3	---	---	---
JUN											
02...	0710	3.0	6000	181	7.1	23.2	14.0	7.4	49.0	25.6	60.7
02...	0711	26	6000	190	7.1	23.0	---	7.4	55.8	68.6	88.3
02...	0715	---	50000	---	---	---	---	---	45.0	23.0	55.5
02...	0720	19	4500	180	7.1	22.5	14.0	7.4	39.7	23.9	50.7
02...	0721	3.0	4500	180	7.1	22.4	---	7.2	36.0	22.7	46.5

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR.	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
(000003)	(000009)	(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUN											
02...	0730	19	2300	181	7.0	22.5	17.0	7.0	37.6	34.3	53.7
02...	0731	3.0	2300	181	7.1	22.4	---	7.2	32.7	22.6	43.2
02...	1020	18	2300	188	7.1	22.8	24.0	7.3	---	---	---
02...	1021	3.0	2300	188	7.1	22.9	---	7.4	---	---	---
02...	1030	---	50000	---	---	---	---	---	37.2	20.0	46.4
02...	1031	22	4500	178	7.1	22.8	24.0	7.2	---	---	---
02...	1032	3.0	4500	178	7.2	22.9	---	7.5	---	---	---
02...	1040	28	6000	177	7.1	22.8	---	7.2	---	---	---
02...	1041	3.0	6000	177	7.2	23.2	---	7.5	---	---	---
05...	1645	26	6000	168	6.8	23.7	16.0	6.5	---	---	---
05...	1646	14	6000	178	6.9	23.8	---	6.8	---	---	---
05...	1647	3.0	6000	181	7.2	24.5	---	7.5	---	---	---
05...	1655	19	4500	180	7.0	23.4	22.0	7.1	---	---	---
05...	1656	3.0	4500	181	7.3	23.8	---	7.9	---	---	---
05...	1700	---	50000	---	---	---	---	---	39.0	23.8	50.0
05...	1710	19	2300	181	7.1	23.4	19.0	7.5	---	---	---
05...	1711	3.0	2300	180	7.5	23.8	---	8.4	---	---	---
12...	1116	20	2300	192	7.8	22.2	22.0	8.4	---	---	---
12...	1117	3.0	2300	192	7.9	22.2	---	8.5	---	---	---
12...	1120	23	4500	190	7.4	22.1	18.0	7.6	---	---	---
12...	1121	16	4500	189	7.4	22.2	---	7.6	---	---	---
12...	1122	3.0	4500	199	7.5	22.4	---	7.9	---	---	---
12...	1125	29	6000	190	7.7	22.3	22.0	8.5	---	---	---
12...	1126	16	6000	190	7.7	22.4	---	8.6	---	---	---
12...	1127	3.0	6000	190	7.6	22.5	---	8.3	---	---	---
12...	1350	27	6000	189	8.1	22.8	24.0	9.2	---	---	---
12...	1353	15	6000	189	8.2	22.7	---	9.3	---	---	---
12...	1355	3.0	6000	189	8.2	22.8	---	9.5	---	---	---
12...	1401	18	4500	193	7.5	22.4	---	7.7	---	---	---
12...	1402	11	4500	192	7.5	22.4	---	7.7	---	---	---
12...	1405	3.0	4500	193	7.6	22.5	---	8.4	---	---	---
12...	1410	18	2300	195	7.4	22.1	---	7.6	---	---	---
12...	1412	11	2300	194	7.4	22.2	---	7.6	---	---	---
12...	1415	3.0	2300	191	7.9	22.8	---	8.4	---	---	---
13...	1715	---	50000	---	---	---	---	---	62.1	21.7	71.8
17...	1115	3.0	2300	214	7.7	23.1	22.0	8.5	54.0	15.7	60.8
17...	1116	10	2300	215	7.5	22.9	---	7.7	54.2	18.6	62.4
17...	1117	14	2300	215	7.5	22.8	---	7.7	54.6	22.6	64.8
17...	1125	---	50000	---	---	---	---	---	55.2	17.6	62.9

APPENDIX D-2  
01658710 - POTOMAC RIVER AT QUANTICO, VA. -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 (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)
JUN											
17...	1126	3.0	6000	199	7.7	23.3	22.0	8.2	57.4	9.90	61.3
17...	1127	12	6000	198	7.5	23.1	---	7.7	44.2	22.8	54.6
17...	1128	24	6000	198	7.4	23.0	---	7.7	47.6	20.3	56.7
20...	1705	26	6000	207	7.6	24.0	22.0	7.7	---	---	---
20...	1706	15	6000	208	7.8	24.1	---	8.2	---	---	---
20...	1707	3.0	6000	207	8.2	24.3	---	8.8	---	---	---
20...	1710	---	50000	---	---	---	---	---	69.0	21.6	78.5
20...	1711	19	4500	208	7.9	24.0	24.0	8.4	---	---	---
20...	1712	11	4500	208	7.9	23.9	---	8.5	---	---	---
20...	1713	3.0	4500	208	8.0	24.0	---	8.7	---	---	---
20...	1715	16	2300	208	8.1	23.9	22.0	9.1	---	---	---
20...	1716	9.0	2300	208	8.1	23.8	---	9.2	---	---	---
20...	1717	3.0	2300	208	8.1	23.8	---	9.3	---	---	---
20...	1910	14	2300	209	8.1	24.0	22.0	9.2	---	---	---
20...	1911	3.0	2300	209	8.1	23.9	---	9.3	---	---	---
20...	1915	20	4500	216	7.9	23.7	24.0	8.8	---	---	---
20...	1916	12	4300	216	7.9	23.7	---	8.9	---	---	---
20...	1917	3.0	4500	216	7.9	23.7	---	8.9	---	---	---
20...	1921	25	6000	212	7.7	23.7	18.0	8.4	---	---	---
20...	1922	14	6000	213	7.8	23.7	---	8.5	---	---	---
20...	1923	3.0	6000	211	7.9	23.8	---	8.7	---	---	---
20...	1930	---	50000	---	---	---	---	---	66.0	18.5	74.0
24...	1340	18	2300	229	7.6	24.3	---	7.6	---	---	---
24...	1342	10	2300	229	7.7	24.2	---	7.8	---	---	---
24...	1346	6.0	2300	229	7.8	24.3	---	8.0	---	---	---
24...	1350	3.0	2300	228	8.1	24.8	---	8.7	---	---	---
24...	1400	---	50000	---	---	---	---	---	37.0	16.0	44.2
24...	1401	18	4500	233	7.9	24.2	24.0	7.9	---	---	---
24...	1402	10	4500	233	7.9	24.2	---	8.0	---	---	---
24...	1403	6.0	4500	230	8.0	24.5	---	8.7	---	---	---
24...	1404	3.0	4500	228	8.1	24.7	---	8.9	---	---	---
24...	1410	27	6000	224	7.9	24.5	28.0	8.1	---	---	---
24...	1411	15	6000	226	8.3	25.0	---	9.3	---	---	---
24...	1412	3.0	6000	229	8.4	25.1	---	9.7	---	---	---
24...	1625	19	2300	225	7.6	24.2	28.0	7.7	---	---	---
24...	1629	10	2300	223	7.8	24.4	---	8.3	---	---	---
24...	1630	3.0	2300	219	8.2	24.9	---	9.0	---	---	---
24...	1640	---	50000	---	---	---	---	---	36.5	17.1	44.2
24...	1645	17	4500	223	7.8	24.3	24.0	8.0	---	---	---

## APPENDIX D-2

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

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 CORR. (32209)	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)
JUN											
24...	1647	10	4500	223	8.0	24.6	---	8.6	---	---	---
24...	1650	3.0	4500	223	8.3	24.9	---	9.3	---	---	---
24...	1700	25	6000	227	7.9	24.3	20.0	8.1	---	---	---
24...	1705	15	6000	226	7.9	24.3	---	8.1	---	---	---
24...	1707	6.0	6000	223	8.0	24.5	---	8.3	---	---	---
24...	1710	3.0	6000	220	8.3	25.0	---	8.4	---	---	---
27...	0710	---	50000	---	---	---	---	---	30.0	18.5	38.5
27...	0711	16	2300	311	7.1	24.1	25.0	6.8	30.0	21.0	39.7
27...	0712	10	2300	315	7.2	24.1	---	6.8	29.5	18.4	38.0
27...	0713	3.0	2300	311	7.2	24.1	---	6.7	27.6	16.3	35.2
27...	0720	22	4500	225	7.3	24.1	23.0	6.9	28.2	17.7	36.4
27...	0721	12	4500	225	7.3	24.2	---	7.0	25.0	16.2	32.5
27...	0722	3.0	4500	225	7.3	24.2	---	7.1	27.5	14.7	34.2
27...	0730	29	6000	230	7.5	24.3	20.0	7.0	31.9	19.4	40.8
27...	0731	15	6000	230	7.5	24.3	---	7.1	34.4	26.5	46.8
27...	0732	3.0	6000	230	7.4	24.4	---	7.0	36.6	26.2	48.8
JUL											
04...	0810	27	6000	247	7.3	26.0	23.0	7.6	32.9	31.1	47.6
04...	0811	15	6000	247	7.3	26.1	---	7.6	38.1	21.2	47.8
04...	0812	3.0	6000	248	7.3	26.2	---	7.6	37.6	20.1	46.8
04...	0815	---	50000	---	---	---	---	---	---	---	---
04...	0820	19	4500	250	7.2	25.9	24.0	7.6	32.5	21.6	42.5
04...	0822	12	4500	249	7.2	26.0	---	7.5	29.5	21.3	39.4
04...	0824	3.0	4500	248	7.3	26.1	---	7.7	27.9	20.6	37.5
04...	0831	16	2300	250	7.2	25.8	24.0	7.5	28.8	20.9	38.5
04...	0833	10	2300	249	7.2	25.8	---	7.6	36.6	25.2	48.3
04...	0835	3.0	2300	249	7.3	25.9	---	7.6	30.4	22.1	40.7
07...	0636	17	2300	280	7.9	26.8	20.0	7.2	28.4	19.3	37.4
07...	0637	10	2300	279	7.8	26.0	---	7.2	---	---	---
07...	0638	3.0	2300	264	7.9	26.0	---	7.3	---	---	---
07...	0650	---	50000	---	---	---	---	---	47.0	17.9	55.0
07...	0651	23	4500	282	7.6	25.9	19.0	6.8	---	---	---
07...	0652	12	4500	286	7.6	25.8	---	7.0	---	---	---
07...	0653	3.0	4500	287	7.7	26.0	---	7.0	---	---	---
07...	0701	29	6000	252	7.5	25.4	19.0	6.3	---	---	---
07...	0702	15	6000	253	7.5	25.9	---	6.4	---	---	---
07...	0704	3.0	6000	254	7.5	26.0	---	6.4	---	---	---
09...	0720	---	50000	---	---	---	---	---	34.1	26.1	46.3
09...	0730	16	2300	363	7.0	25.2	23.0	6.1	37.3	32.0	52.3
09...	0731	10	2300	370	7.0	25.2	---	6.1	33.8	25.6	45.7

## APPENDIX D-2

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

## WATER QUALITY DATA - WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING DEPTH (FT)	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 CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)
(00003)	(00009)	(00003)	(00009)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL												
09...	0732	3.0	2300		390	7.0	25.2	---	6.1	36.7	22.6	47.1
09...	0745	27	6000		254	7.0	25.3	19.0	6.2	36.3	42.0	56.2
09...	0746	15	6000		255	7.0	25.4	---	6.2	---	---	---
09...	0747	3.0	6000		257	7.0	25.5	---	6.1	32.4	23.4	43.3
09...	0755	19	4500		322	7.0	25.4	20.0	5.9	33.2	31.1	47.8
09...	0756	12	4500		307	7.0	25.5	---	6.1	---	---	---
09...	0757	3.0	4500		280	7.0	25.5	---	6.2	32.9	20.9	42.6
10...	1449	19	2300		264	6.8	26.3	24.0	5.6	---	---	---
10...	1450	10	2300		263	6.8	26.1	---	5.8	---	---	---
10...	1451	3.0	2300		266	7.0	26.3	---	6.5	---	---	---
10...	1455	20	4500		256	6.8	26.2	---	5.7	---	---	---
10...	1456	12	4500		259	6.8	26.2	---	5.8	---	---	---
10...	1457	3.0	4500		260	6.9	27.0	---	8.1	---	---	---
10...	1500	---	50000		---	---	---	---	---	46.0	18.9	54.5
10...	1501	3.0	6000		256	7.7	27.4	---	8.9	---	---	---
10...	1502	6.0	6000		260	6.9	26.4	---	6.3	---	---	---
10...	1503	15	6000		256	7.7	27.1	---	8.7	---	---	---
10...	1504	29	6000		255	7.3	26.9	---	7.3	---	---	---
15...	1055	19	2300		613	7.0	26.7	24.0	6.8	---	---	---
15...	1056	11	2300		606	7.1	26.8	---	6.9	---	---	---
15...	1057	3.0	2300		611	7.2	26.9	---	7.1	---	---	---
15...	1111	22	4500		431	7.0	26.8	24.0	6.5	---	---	---
15...	1112	12	4500		367	7.1	26.8	---	6.7	---	---	---
15...	1113	3.0	4500		307	7.4	27.1	---	7.2	---	---	---
15...	1120	28	6000		201	7.4	27.0	17.0	7.1	---	---	---
15...	1121	15	6000		265	7.5	27.1	---	7.3	---	---	---
15...	1122	3.0	6000		266	7.7	27.2	---	7.7	---	---	---
16...	0740	14	2300		331	7.0	26.8	18.0	6.6	38.3	25.2	50.0
16...	0741	10	2300		330	7.0	26.8	---	6.6	38.9	24.3	48.2
16...	0742	1.0	2300		329	7.0	26.8	---	6.6	39.7	16.6	47.2
16...	0750	23	4500		282	7.1	27.1	21.0	6.1	42.7	22.8	53.2
16...	0751	12	4500		285	7.1	27.1	---	6.7	38.4	23.9	49.4
16...	0752	1.0	4500		280	7.1	27.1	---	6.7	39.4	19.5	48.3
16...	0755	---	50000		---	---	---	---	---	40.5	27.8	53.3
16...	0800	27	6000		261	7.4	27.5	18.0	6.9	44.8	28.8	58.1
16...	0801	15	6000		262	7.5	27.5	---	7.0	55.7	25.5	67.3
16...	0802	1.0	6000		260	7.5	27.6	---	7.0	47.6	19.5	56.4
21...	1750	18	2300		318	7.8	30.7	---	7.5	---	---	---
21...	1751	10	2300		298	8.2	30.6	---	8.5	---	---	---



## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	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, DISSOLVED (MG/L)	CHLORO- PHYLLA METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A METRIC METHOD (UG/L)	CHLORO- PHYLLA METRIC METHOD UNCORR. (UG/L)
					(00003)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL												
21...	1752	3.0		2300	269	8.7	31.5		7.3			
21...	1755	18		4500	275	7.1	30.2		7.6			
21...	1756	10		4500	276	7.2	30.1		7.6			
21...	1757	3.0		4500	276	7.3	30.1		7.6			
21...	1810	--		50000	--	--	--		--	62.0	28.6	75.0
22...	0610	21		6000	283	7.4	28.8	24.0	5.6			
22...	0611	12		6000	282	7.5	28.9		5.8			
22...	0612	3.0		6000	281	7.7	29.1		6.4			
22...	0650	--		50000	--	--	--		--	47.1	43.8	67.7
22...	0655	17		2300	349	7.9	29.1	24.0	6.6			
22...	0656	10		2300	349	7.9	29.2		6.6			
22...	0657	3.0		2300	348	7.9	29.2		6.6			
29...	1245	14		2300	329	7.2	28.4		6.9			
29...	1246	9.0		2300	327	7.3	28.4		7.0			
29...	1247	3.0		2300	320	7.5	28.5		7.3			
29...	1250	20		4500	385	7.1	28.4		6.1			
29...	1251	11		4500	375	7.2	28.5		6.3			
29...	1252	3.0		4500	345	7.4	28.6		7.0			
29...	1305	29		6000	303	7.5	28.4		6.7			
29...	1306	15		6000	313	7.6	28.5		6.8			
29...	1307	3.0		6000	306	7.9	28.9		7.8			
30...	1045	14		2300	1150	7.2	28.2	20.0	6.5	37.2	20.3	46.6
30...	1046	10		2300	1045	7.2	28.1		6.4	42.7	14.4	49.1
30...	1047	1.0		2300	870	7.6	28.6		7.5	50.6	12.1	55.7
30...	1100	--		50000	--	--	--		--	44.5	13.5	50.4
30...	1101	23		4500	1492	7.2	28.3	20.0	5.7	35.8	17.4	43.8
30...	1102	12		4500	1019	7.2	28.2		5.7	32.8	16.4	40.3
30...	1103	4.0		4500	705	7.3	28.3		6.3	44.3	16.5	51.6
30...	1104	1.0		4500	606	7.7	28.8		7.4	44.1	10.4	48.5
30...	1110	30		6000	633	7.4	28.3	22.0	5.8	44.5	48.2	67.2
30...	1111	15		6000	632	7.4	28.3		5.8	39.7	21.1	49.4
30...	1112	3.0		6000	582	7.5	28.3		6.3	44.5	19.1	53.2
30...	1113	1.0		6000	561	8.2	28.9		8.4	53.5	15.0	60.0
31...	1100	28		6000	927	7.2	28.8	18.0	5.9	--	--	--
31...	1101	18		6000	840	7.2	28.8		5.8	--	--	--
31...	1103	8.0		6000	733	7.4	28.8		6.2	--	--	--
31...	1105	3.0		6000	660	7.5	28.9		6.6	--	--	--
31...	1109	22		2300	1902	7.1	28.7	24.0	5.6	--	--	--
31...	1110	3.0		50000	--	--	--		--	55.0	10.9	59.5

APPENDIX D-2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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																					
31...	1111	17		2300		1777		7.2		28.6				5.6							
31...	1112	13		2300		1176		7.2		28.7				5.7							
31...	1113	7.0		2300		875		7.3		28.8				6.1							
31...	1114	3.0		2300		902		7.7		29.0				6.4							
31...	1120	26		50000		--		--		--				--		35.0	18.6			43.5	
AUG																					
06...	1025	--		50000		--		--		--				--		42.5	23.6			53.3	
06...	1026	14		2300		417		7.6		29.5		22.0		6.6		40.5	32.5			55.7	
06...	1027	10		2300		418		7.7		29.5				6.6		43.0	26.2			55.1	
06...	1028	3.0		2300		410		7.8		29.5				6.9		47.6	20.6			56.9	
06...	1029	1.0		2300		401		8.2		29.7				8.1		64.1	17.6			71.7	
06...	1040	22		4500		359		7.3		29.3		22.0		5.7		39.6	29.9			53.6	
06...	1041	12		4500		358		7.3		29.3				5.8		37.5	24.8			49.0	
06...	1042	1.0		4500		328		7.7		29.5				6.8		45.9	19.6			54.7	
06...	1050	27		6000		384		7.4		29.2		24.0		5.9		49.0	24.1			60.0	
06...	1051	15		6000		338		7.7		29.6				6.9		42.8	22.8			53.3	
06...	1052	1.0		6000		380		7.8		30.0				7.2		50.8	23.4			61.4	
11...	1110	--		50000		--		--		--				--		47.0	21.0			56.5	
11...	1111	30		6000		758		7.4		29.8		19.0		5.6		--	--			--	
11...	1112	15		6000		768		7.6		29.9				6.2		--	--			--	
11...	1114	3.0		6000		658		7.7		30.0				6.6		--	--			--	
11...	1120	15		4500		1300		7.5		30.0		19.0		6.1		--	--			--	
11...	1121	9.0		4500		1100		7.5		30.0				6.0		--	--			--	
11...	1122	3.0		4500		756		7.7		30.2				6.4		--	--			--	
11...	1131	17		2300		1200		7.7		30.0		20.0		6.9		--	--			--	
11...	1132	10		2300		1160		7.8		30.0				6.9		--	--			--	
11...	1133	5.0		2300		939		7.9		30.2				7.4		--	--			--	
11...	1134	3.0		2300		984		8.1		30.2				8.3		--	--			--	
13...	1015	18		2300		1503		7.4		29.2				6.2		40.6	15.8			47.6	
13...	1016	10		2300		1386		7.5		29.2				6.4		44.1	13.1			49.8	
13...	1017	3.0		2300		1310		7.6		29.2				6.6		44.7	16.0			51.9	
13...	1018	1.0		2300		1310		7.7		29.2				6.8		48.8	15.9			55.8	
13...	1025	23		4500		1400		7.3		29.2		23.0		5.7		36.9	18.9			45.6	
13...	1026	12		4500		1352		7.2		29.2				5.6		32.8	17.1			40.6	
13...	1027	3.0		4500		1012		7.4		29.3				6.1		42.0	14.6			48.5	
13...	1028	1.0		4500		1008		7.5		29.4				6.2		45.3	16.5			52.6	
13...	1040	--		50000		--		--		--				--		41.4	17.1			49.0	
13...	1041	28		6000		854		7.3		29.0		20.0		5.2		45.4	26.6			57.7	
13...	1042	15		6000		941		7.2		29.2				5.2		40.6	18.4			48.9	
13...	1043	7.0		6000		949		7.2		29.3				5.2		38.6	17.7			46.6	

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING 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)	(00005)	(00400)	(00010)	(00300)	(00077)	(00300)	(00300)	(32209)	(32213)	(32217)
AUG											
13...	1044	3.0	6000	928	7.4	29.4	--	5.9	42.7	14.4	49.1
13...	1045	1.0	6000	931	7.5	29.4	--	6.0	42.8	16.3	50.1
19...	0940	15	2300	895	7.6	26.4	37.0	6.6	--	--	--
19...	0941	7.0	2300	903	7.5	26.5	--	6.6	--	--	--
19...	0942	3.0	2300	830	7.6	26.7	--	6.8	--	--	--
19...	0950	3.0	6000	644	7.4	26.7	--	6.5	--	--	--
19...	0953	15	6000	683	7.3	26.4	--	6.2	--	--	--
19...	0955	27	6000	776	7.6	26.2	25.0	7.2	--	--	--
19...	1010	--	50000	--	--	--	--	--	52.3	14.8	58.7
20...	1910	17	2300	1760	6.9	26.3	16.0	6.4	42.2	26.4	54.4
20...	1911	8.0	2300	820	7.2	26.2	--	6.9	51.1	18.7	59.4
20...	1912	1.0	2300	689	7.3	26.2	--	7.1	55.9	13.8	61.6
20...	1920	22	4500	1460	6.8	26.3	23.0	6.0	34.3	27.5	47.1
20...	1921	10	4500	829	6.9	26.2	--	6.1	36.4	17.6	44.5
20...	1922	1.0	4500	538	6.9	26.2	--	6.2	44.5	14.1	50.7
20...	1930	28	6000	1410	6.7	26.2	16.0	5.6	37.1	22.5	47.4
20...	1931	14	6000	648	7.4	26.3	--	7.6	52.2	15.0	58.7
20...	1932	1.0	6000	614	8.1	26.3	--	9.3	70.4	10.2	74.3
20...	1935	--	50000	--	--	--	--	--	47.8	17.4	55.6
25...	2125	14	2300	3020	8.3	26.3	--	8.4	39.6	16.0	46.8
25...	2126	10	2300	2980	8.3	26.4	--	8.5	45.0	11.0	49.7
25...	2127	1.0	2300	2960	8.4	26.4	--	8.5	39.2	14.6	45.7
25...	2135	22	4500	3190	7.7	26.0	--	6.7	28.5	19.8	37.7
25...	2136	12	4500	2690	7.7	26.0	--	6.5	28.8	14.4	35.3
25...	2137	1.0	4500	2370	8.1	26.2	--	7.4	34.0	8.70	37.8
25...	2145	--	50000	--	--	--	--	--	33.8	14.5	40.4
25...	2146	28	6000	3080	7.6	25.8	--	6.0	27.2	27.8	40.3
25...	2147	15	6000	2770	7.6	25.8	--	6.1	27.8	17.1	35.7
25...	2148	1.0	6000	1760	8.1	26.2	--	7.2	38.2	14.5	44.6
28...	1625	17	2300	1718	7.1	26.9	18.0	6.2	--	--	--
28...	1626	10	2300	1755	7.2	27.0	--	6.8	--	--	--
28...	1627	6.0	2300	1761	7.6	27.0	--	7.8	--	--	--
28...	1628	3.0	2300	1776	8.0	27.3	--	8.6	--	--	--
28...	1629	1.0	2300	1860	8.5	27.9	--	10.5	--	--	--
28...	1630	--	50000	--	--	--	--	--	48.9	14.5	55.3
28...	1635	23	4500	1308	7.2	26.7	18.0	6.1	--	--	--
28...	1636	12	4500	1238	7.2	26.6	--	6.2	--	--	--
28...	1637	6.0	4500	1187	7.4	26.7	--	6.8	--	--	--
28...	1638	3.0	4500	1216	7.6	26.8	--	7.3	--	--	--

## APPENDIX D-2

## 01558710 - POTOMAC RIVER AT QUANTICO, VA.-- Cont.

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- L (00003)	LOC- TION, CROSS SECTION (FT FM ANCE)	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 CORRL (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD (UG/L)
					(000095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
AUG												
28...	1639	1.0	4500	1310	8.2	27.5	8.7	18.0	6.2	40.2	18.5	48.6
28...	1645	29	5000	1205	7.8	27.2	7.7		6.2	42.6	16.7	50.1
28...	1646	16	6000	1316	8.1	27.7	8.6		8.6			
28...	1647	3.0	6000	1027	8.4	28.1	9.4		9.4			
28...	1648	1.0	6000	921	8.7	28.4	10.6		10.6			
SEP												
03...	2130	19	2300	1139	7.3	28.5	6.2		6.2	40.2	18.5	48.6
03...	2131	8.0	2300	1142	7.3	28.5	6.2		6.2	42.6	16.7	50.1
03...	2132	1.0	2300	1141	7.3	28.5	6.2		6.2			
03...	2133	--	2300	--	--	--	--		--	41.5	20.8	51.0
03...	2140	21	4500	927	7.4	28.5	6.5		6.5	44.4	20.5	53.7
03...	2141	10	4500	925	7.4	28.5	6.5		6.5	41.2	20.6	50.6
03...	2142	1.0	4500	923	7.4	28.6	6.6		6.6	43.8	18.0	51.9
03...	2143	--	4500	--	--	--	--		--	44.2	20.2	53.3
03...	2145	--	50000	--	--	--	--		--	44.1	20.6	53.4
03...	2150	27	6000	1051	7.8	28.8	6.8		6.8	49.6	18.9	58.0
03...	2151	14	6000	898	7.8	28.7	7.2		7.2	50.0	15.2	56.7
03...	2152	1.0	6000	943	8.1	29.2	7.6		7.6	50.9	15.6	57.7
03...	2153	--	6000	--	--	--	--		--	51.7	13.3	57.4
04...	0740	26	6000	1870	7.2	27.7	5.9	20.0	5.9			
04...	0741	15	6000	1413	7.2	27.7	6.3		6.3			
04...	0742	3.0	6000	1300	7.3	27.8	6.5		6.5			
04...	0750	--	50000	--	--	--	--		--	38.1	19.7	47.1
04...	0751	18	4500	1890	7.2	27.5	6.0	24.0	6.0			
04...	0752	10	4500	1750	7.2	27.6	6.0		6.0			
04...	0753	3.0	4500	1350	7.3	27.6	6.4		6.4			
04...	0800	17	2300	1825	7.2	27.6	5.9	22.0	5.9			
04...	0801	9.0	2300	1745	7.2	27.6	6.0		6.0			
04...	0802	3.0	2300	1700	7.3	27.6	6.1		6.1			
08...	1005	16	2300	2020	6.8	26.8	5.8	18.0	5.8			
08...	1006	10	2300	1980	7.0	26.9	6.0		6.0			
08...	1007	3.0	2300	1970	7.1	27.0	6.1		6.1			
08...	1010	21	4500	2540	7.0	27.1	5.8	23.0	5.8			
08...	1011	11	4500	2240	7.0	27.2	5.7		5.7			
08...	1012	3.0	4500	1920	7.1	27.3	5.9		5.9			
08...	1020	28	6000	2000	7.1	27.1	5.4	23.0	5.4			
08...	1021	15	5000	1850	7.0	27.0	5.5		5.5			
08...	1022	3.0	6000	1860	7.1	27.1	5.7		5.7			
11...	1820	13	2300	1832	7.0	25.6	6.0	16.0	6.0			
11...	1821	8.0	2300	1800	7.1	25.6	6.1		6.1			

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING 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- 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)	(00003)	(00009)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
SEP												
11...	1822	3.0	2300	1725	7.1	25.6	6.3	40.4	21.4	50.2		
11...	1830	--	5000	1628	7.4	25.8	6.9	13.0				
11...	1831	26	4500	1630	7.4	25.8	6.9					
11...	1832	15	4500	1633	7.4	25.8	7.0					
11...	1833	3.0	4500	1701	7.9	26.1	8.0	16.0				
11...	1836	27	6000	1698	7.9	26.0	8.1					
11...	1837	15	6000	1698	7.9	26.0	8.1					
11...	1838	3.0	6000	1690	7.9	26.0	8.1					
15...	1925	19	2300	2770	7.1	25.3	5.6					
15...	1926	10	2300	1850	7.5	25.2	7.3					
15...	1927	1.0	2300	1809	7.6	25.2	7.4					
15...	1940	21	4500	1599	7.4	25.3	6.9					
15...	1941	10	4500	1610	7.4	25.3	7.0					
15...	1942	1.0	4500	1607	7.4	25.2	6.8					
15...	1945	--	5000	--	--	--	--					
15...	1946	--	2300	--	--	--	--					
15...	1948	--	4500	--	--	--	--					
15...	1950	28	6000	2100	7.8	25.6	7.5					
15...	1951	15	6000	1800	7.6	25.5	7.1					
15...	1952	1.0	6000	1644	7.8	25.5	7.3					
16...	1755	26	6000	3330	7.8	25.1	7.5					
16...	1757	13	6000	2370	8.1	25.0	8.4	26.0				
16...	1800	3.0	6000	2340	8.2	25.1	8.6					
16...	1725	3.0	6000	3300	8.3	25.4	8.8					
17...	1727	15	6000	3950	7.3	24.6	6.0					
17...	1730	27	6000	4030	7.2	24.7	6.0	30.0				
22...	1015	--	5000	--	--	--	--					
22...	1020	19	2300	3140	7.5	24.9	6.9					
22...	1021	9.0	2300	3080	7.5	24.9	7.1					
22...	1022	3.0	2300	3000	7.8	25.0	7.7					
22...	1025	28	6000	2990	7.4	24.7	6.5					
22...	1026	15	6000	2700	7.4	24.7	6.6					
22...	1027	7.0	6000	2200	7.7	24.9	7.4					
22...	1028	3.0	6000	2090	8.0	25.0	7.9					
22...	1030	22	4500	3170	7.3	24.7	6.3					
22...	1031	10	4500	3030	7.3	24.7	6.4					
22...	1033	6.0	4500	2700	7.9	24.9	7.7					
22...	1034	3.0	4500	3450	8.0	25.0	8.0					

## APPENDIX D-2

## 382640077159900 - POTOMAC RIVER AT DOUGLAS POINT

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
OCT							
06...	1230	16	2000	164	---	19.0	18.0
06...	1240	3.0	2000	164	---	19.0	---
06...	1241	1.0	2000	164	---	19.0	---
06...	1300	---	11700	---	---	---	---
06...	1301	7.0	11700	154	---	19.0	21.0
06...	1302	3.0	11700	159	---	19.0	---
06...	1303	1.0	11700	159	---	19.0	---
DEC							
19...	1440	16	2000	204	7.9	4.4	30.0
19...	1441	12	2000	202	7.9	4.3	---
19...	1443	8.0	2000	202	7.9	4.4	---
19...	1445	3.0	2000	202	7.9	4.4	---
19...	1446	1.0	2000	202	7.9	4.4	---
19...	1510	7.0	11700	200	8.1	4.5	24.0
19...	1513	4.0	11700	198	8.0	4.5	---
19...	1515	1.0	11700	198	8.0	4.5	---
19...	1520	---	11700	---	---	---	---
JAN							
16...	1424	13	11700	236	8.0	3.3	10.0
16...	1425	10	11700	236	8.0	3.3	---
16...	1426	8.0	11700	236	8.0	3.3	---
16...	1427	5.0	11700	236	8.0	3.3	---
16...	1428	3.0	11700	236	8.0	3.3	---
16...	1429	1.0	11700	236	8.0	3.3	---
16...	1430	---	11700	---	---	---	---
16...	1444	20	2000	---	---	---	---
16...	1445	17	2000	246	7.9	3.0	17.0
16...	1446	10	2000	246	7.9	3.0	---
16...	1447	8.0	2000	246	7.9	3.0	---
16...	1448	5.0	2000	246	7.9	3.0	---
16...	1450	3.0	2000	246	7.9	3.0	---
16...	1451	1.0	2000	246	7.9	3.0	---
FEB							
18...	1845	12	2000	870	8.1	.5	---
18...	1847	10	2000	835	8.0	.5	---
18...	1849	5.0	2000	810	8.0	.5	---
18...	1850	3.0	2000	530	8.0	.5	---
18...	1900	---	11700	---	---	---	---
18...	1901	13	11700	230	8.1	.8	---
18...	1902	10	11700	205	8.0	.8	---
18...	1903	5.0	11700	245	8.0	.8	---
18...	1904	3.0	11700	230	8.0	.8	---

## APPENDIX D-2

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT -- Cont.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	CHLORO- PHYLL A PHYTO- PLANK- TON CORR. (UG/L) (32211)	PHEO- PHYTTN PHYTO- PLANK- TON CORR. (UG/L) (32218)	CHLORO- PHYLL A PHYTO- PLANK- TON UNCORR. (UG/L) (32230)	CHLORO- PHYLL A FLUORO- METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METHOD UNCORR. (UG/L) (32217)
OCT							
06...	7.3	7.20	19.7	19.8	--	--	--
06...	7.3	8.00	7.70	13.2	--	--	--
06...	7.3	--	--	--	--	--	--
06...	--	11.4	8.60	17.4	--	--	--
06...	7.4	--	--	--	--	--	--
06...	7.5	--	--	--	--	--	--
06...	7.5	--	--	--	--	--	--
DEC							
19...	13.4	--	--	--	9.60	9.50	15.4
19...	12.6	--	--	--	--	--	--
19...	12.0	--	--	--	9.00	6.30	13.0
19...	11.7	--	--	--	--	--	--
19...	11.2	--	--	--	--	--	--
19...	12.3	--	--	--	--	--	--
19...	12.3	--	--	--	--	--	--
19...	11.6	--	--	--	18.6	8.70	24.6
19...	--	--	--	--	--	--	--
JAN							
16...	14.0	--	--	--	--	--	--
16...	13.9	--	--	--	--	--	--
16...	13.9	--	--	--	--	--	--
16...	13.8	--	--	--	--	--	--
16...	13.8	--	--	--	--	--	--
16...	13.7	--	--	--	--	--	--
16...	--	--	--	--	16.4	9.10	20.6
16...	--	--	--	--	10.5	15.4	17.4
16...	14.1	--	--	--	--	--	--
16...	13.7	--	--	--	--	--	--
16...	13.7	--	--	--	--	--	--
16...	13.7	--	--	--	--	--	--
16...	13.6	--	--	--	8.60	9.90	13.3
16...	13.5	--	--	--	--	--	--
FEB							
18...	14.4	--	--	--	29.5	25.1	41.3
18...	14.5	--	--	--	--	--	--
18...	14.5	--	--	--	--	--	--
18...	14.5	--	--	--	16.2	11.6	21.6
18...	--	--	--	--	17.0	14.4	23.8
18...	14.6	--	--	--	--	--	--
18...	14.6	--	--	--	--	--	--
18...	14.6	--	--	--	--	--	--
18...	14.6	--	--	--	15.9	11.6	21.3

APPENDIX D-2  
382640077159900 - POTOMAC RIVER AT DOUGLAS POINT --- Cont.

WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	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)	(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
FEB											
19...	0810	19	2000	1350	8.4	.5	6.0	14.4	20.5	24.8	32.2
19...	0811	15	2000	1350	8.3	.5	---	14.4	---	---	---
19...	0812	10	2000	1350	8.2	.5	---	14.4	---	---	---
19...	0814	5.0	2000	1250	8.2	.5	---	14.4	---	---	---
19...	0815	3.0	2000	1150	8.2	.5	---	14.4	16.9	11.7	22.4
19...	0830	---	11700	---	---	---	---	---	22.2	7.50	25.5
19...	0831	13	11700	425	8.0	.5	3.0	14.5	---	---	---
19...	0832	10	11700	405	8.0	.5	---	14.4	---	---	---
19...	0833	5.0	11700	400	8.0	.5	---	14.4	---	---	---
19...	0834	3.0	11700	390	8.0	.5	---	14.4	---	---	---
20...	0930	18	2000	1150	8.1	.8	---	14.3	---	---	---
20...	0931	10	2000	1150	8.1	.8	---	14.4	---	---	---
20...	0932	3.0	2000	1100	8.1	.8	---	14.5	---	---	---
20...	0945	11	11700	245	8.1	1.5	---	14.7	---	---	---
20...	0946	7.0	11700	240	8.1	1.5	---	14.8	---	---	---
20...	0947	3.0	11700	240	8.1	1.5	---	14.8	---	---	---
27...	0920	---	50000	---	---	---	---	---	22.8	7.50	26.1
27...	1130	---	50000	---	---	---	---	---	20.4	9.90	24.9
27...	1340	---	2000	---	---	---	---	---	22.8	10.0	27.3
MAR											
04...	1240	1.0	2000	377	7.9	.5	---	14.1	---	---	---
04...	1241	5.0	2000	358	7.9	.5	---	14.1	---	---	---
04...	1242	15	2000	350	7.9	.5	---	14.1	---	---	---
04...	1243	24	2000	351	7.9	.5	---	14.1	---	---	---
04...	1252	---	2000	---	---	---	---	---	43.6	12.9	49.2
06...	1300	1.0	2000	592	8.0	1.9	---	14.4	---	---	---
06...	1301	10	2000	572	8.0	1.9	---	14.5	---	---	---
06...	1302	24	2000	592	8.0	1.8	---	14.5	---	---	---
06...	1315	---	50000	---	---	---	---	---	51.2	14.4	57.5
06...	1316	1.0	11700	332	8.0	2.9	---	14.1	---	---	---
06...	1317	10	11700	312	8.0	2.7	---	14.1	---	---	---
06...	1325	1.0	15300	292	8.1	3.3	---	14.2	---	---	---
06...	1326	9.0	15300	292	8.1	3.1	---	14.2	---	---	---
06...	1630	1.0	2000	507	8.3	2.1	---	14.7	---	---	---
06...	1631	10	2000	507	8.3	1.9	---	14.7	---	---	---
06...	1632	.27	2000	507	8.2	1.8	---	14.6	---	---	---
06...	1638	1.0	11700	407	8.3	2.3	---	14.7	---	---	---
06...	1639	10	11700	407	8.2	2.2	---	14.7	60.6	12.4	65.7
06...	1645	---	50000	---	---	---	---	---	---	---	---
06...	1648	1.0	15300	292	8.3	4.0	---	14.5	---	---	---



APPENDIX D-2  
382640077159900 - POTOMAC RIVER AT DOUGLAS POINT --- Cont.  
WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOCATION CROSS SECTION (FIT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	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										
06...	1649	6.0	15300	292	8.3	3.9	14.5			
11...	1125	1.0	2000	327	8.7	3.9	14.3			
11...	1126	10	2000	327	8.7	3.9	14.3			
11...	1127	17	2000	329	8.7	4.0	14.3			
11...	1135	1.0	11700	310	8.7	4.3	14.3			
11...	1136	10	11700	310	8.7	4.2	14.4			
11...	1137	14	11700	310	8.7	4.3	14.4			
11...	1140	---	50000	---	---	---	---	97.3	15.1	103
11...	1150	1.0	15300	283	9.0	6.2	14.5			
11...	1151	8.0	15300	284	9.0	6.2	14.8			
11...	1410	---	50000	---	---	---	---	102	17.6	109
11...	1411	1.0	2000	372	8.7	4.3	14.2			
11...	1412	10	2000	370	8.7	4.5	14.2			
11...	1413	17	2000	353	8.7	4.6	14.3			
11...	1420	1.0	11700	296	8.9	4.8	14.8			
11...	1421	10	11700	295	8.9	4.8	14.8			
11...	1422	13	11700	295	8.9	4.7	14.8			
11...	1430	1.0	15300	284	9.0	6.8	14.8			
11...	1431	8.0	15300	283	9.0	6.7	15.0			
11...	1725	1.0	2000	333	8.7	4.4	14.3			
11...	1726	10	2000	336	8.8	4.3	14.3			
11...	1727	27	2000	342	8.7	4.3	14.2			
11...	1730	1.0	11700	324	8.6	4.6	14.4			
11...	1731	10	11700	323	8.6	4.6	14.5			
11...	1732	13	11700	323	8.6	4.6	14.5			
11...	1735	---	50000	---	---	---	---	85.2	15.5	91.4
11...	1745	1.0	15300	301	9.0	5.8	15.3			
11...	1746	7.0	15300	301	9.0	5.8	15.4			
17...	1715	15	2000	---	---	---	---	105	43.9	125
17...	1720	3.0	2000	---	---	---	---	93.3	44.8	114
17...	1745	---	11700	---	---	---	---	105	30.2	118
20...	0700	---	50000	---	---	---	---	51.8	24.7	63.0
20...	0921	1.0	2000	275	7.9	8.3	11.5			
20...	0922	10	2000	280	7.9	8.1	11.3			
20...	0923	27	2000	280	7.8	8.1	11.3			
20...	0935	1.0	11700	286	8.2	8.1	12.0			
20...	0936	14	11700	285	8.2	7.9	11.9			
20...	0940	---	50000	---	---	---	---	53.2	24.0	64.1
20...	0941	1.0	15300	282	8.1	8.1	11.8			

## APPENDIX D-2

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

WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	SAMP- DEPTH (FT)	LOC- SECTION (FT FM)	SPE- CIFIC CON- DUCT- ANCE	PH	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC CORR. (UG/L)	CHLORO- PHYLLA FLUORO- METRIC CORR. (UG/L)	CHLORO- PHYLLA FLUORO- METRIC CORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)	(32217)
MAR												
20...	0942	13	15300	278	8.0	7.9	---	11.7	---	---	---	---
20...	1310	1.0	2000	257	8.1	8.9	---	11.5	---	---	---	---
20...	1311	27	2000	256	7.9	8.4	---	11.1	---	---	---	---
20...	1320	---	50000	---	---	---	---	---	50.2	22.4	60.4	---
20...	1321	1.0	11700	275	8.2	8.4	---	11.5	---	---	---	---
20...	1322	14	11700	270	8.1	8.3	---	11.7	---	---	---	---
20...	1331	1.0	15300	274	8.5	8.4	---	12.2	---	---	---	---
20...	1332	12	15300	272	8.5	8.3	---	12.2	---	---	---	---
25...	1005	1.0	2000	---	7.2	9.8	---	7.3	---	---	---	---
25...	1006	26	2000	---	7.2	9.1	---	6.4	---	---	---	---
25...	1021	1.0	11700	---	7.3	8.6	---	6.7	---	---	---	---
25...	1022	14	11700	---	7.3	8.4	---	5.6	---	---	---	---
25...	1025	---	50000	---	---	---	---	---	15.5	7.20	18.8	---
25...	1030	1.0	15300	---	7.4	8.7	---	6.2	---	---	---	---
25...	1031	12	15300	---	7.4	8.6	---	5.7	---	---	---	---
25...	1225	---	50000	---	---	---	---	---	22.3	10.2	26.9	---
26...	1341	1.0	2000	205	7.3	8.5	---	10.0	---	---	---	---
26...	1342	14	2000	204	7.2	8.2	---	9.9	---	---	---	---
26...	1343	27	2000	207	7.2	8.1	---	9.9	---	---	---	---
26...	1351	1.0	11700	192	7.2	8.5	---	10.0	---	---	---	---
26...	1353	15	11700	192	7.1	8.1	---	9.9	---	---	---	---
26...	1358	1.0	15300	204	7.3	8.5	---	10.2	---	---	---	---
26...	1359	13	15300	204	7.3	8.3	---	10.1	---	---	---	---
26...	1400	---	50000	---	---	---	---	---	15.4	10.4	20.2	---
28...	0950	27	2000	172	7.1	8.5	9.0	10.6	---	---	---	---
28...	0951	14	2000	171	6.9	8.5	---	10.6	---	---	---	---
28...	0952	3.0	2000	171	7.1	8.6	---	10.6	---	---	---	---
28...	1000	---	50000	---	---	---	---	---	16.2	16.6	24.0	---
28...	1001	12	11700	177	7.1	8.5	9.0	10.5	---	---	---	---
28...	1002	3.0	11700	179	7.1	8.6	---	10.5	---	---	---	---
28...	1005	11	15300	193	7.1	8.6	9.0	10.5	---	---	---	---
28...	1006	3.0	15300	183	7.1	8.7	---	10.5	---	---	---	---
31...	1155	26	2000	205	7.4	8.5	---	10.5	---	---	---	---
31...	1156	13	2000	200	7.4	8.5	---	10.5	---	---	---	---
31...	1157	3.0	2000	200	7.4	8.5	---	10.5	---	---	---	---
31...	1210	10	11700	205	7.4	8.5	---	10.8	---	---	---	---
31...	1211	3.0	11700	205	7.5	9.0	---	10.8	---	---	---	---
31...	1448	26	2000	200	---	9.0	---	10.4	---	---	---	---
31...	1449	13	2000	200	---	9.0	---	10.4	---	---	---	---

382640077159900 - POTOMAC RIVER AT DOUGLAS POINT -- Cont.

APPENDIX D-2

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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- PHYLLA FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
MAR											
31...	1450	3.0	2000	200	---	9.0	---	10.4	---	---	---
31...	1458	10	11700	200	---	9.0	---	10.6	---	---	---
31...	1459	3.0	11700	200	---	9.0	---	10.7	---	---	---
APR											
03...	0745	25	2000	195	7.5	10.1	12.0	9.7	---	---	---
03...	0746	13	2000	196	7.5	10.1	---	9.7	---	---	---
03...	0747	3.0	2000	196	7.5	10.1	---	9.7	---	---	---
03...	0755	---	50000	---	---	---	---	---	12.8	11.3	18.0
03...	0756	13	11700	195	7.5	10.2	12.0	9.5	---	---	---
03...	0757	3.0	11700	196	7.5	10.3	---	9.7	---	---	---
03...	0800	7.0	15300	190	7.6	10.6	---	9.9	---	---	---
03...	0801	3.0	15300	179	7.6	10.6	---	10.0	---	---	---
10...	0920	23	2000	173	7.0	12.9	19.0	9.4	---	---	---
10...	0921	13	2000	173	7.1	12.9	---	9.4	---	---	---
10...	0922	3.0	2000	173	7.1	13.0	---	9.4	---	---	---
10...	0930	---	50000	---	---	---	---	---	11.9	10.5	16.8
10...	0931	13	11700	173	7.1	13.1	18.0	9.5	---	---	---
10...	0932	3.0	11700	172	7.1	13.2	---	9.6	---	---	---
10...	0940	9.0	15300	174	7.2	13.5	---	9.6	---	---	---
10...	0941	3.0	15300	174	7.3	13.5	---	9.8	---	---	---
23...	1025	27	2000	188	7.6	15.2	27.0	9.4	73.1	10.9	77.3
23...	1026	15	2000	188	7.7	15.1	---	9.4	---	---	---
23...	1027	10	2000	198	7.7	15.1	---	9.4	73.5	6.60	75.6
23...	1028	7.0	2000	187	7.9	15.2	---	9.7	---	---	---
23...	1029	5.0	2000	196	8.2	15.4	---	10.0	74.5	7.60	77.1
23...	1030	3.0	2000	186	8.5	15.8	---	10.5	58.0	4.80	59.5
23...	1031	1.0	2000	196	8.5	16.2	---	10.5	52.3	6.90	54.8
23...	1105	10	11700	186	8.8	16.6	20.0	11.1	135	17.2	142
23...	1106	5.0	11700	185	8.9	16.4	---	11.3	156	14.0	160
23...	1107	3.0	11700	185	9.0	16.5	---	11.4	138	14.0	142
23...	1110	---	11700	---	---	---	---	---	204	4.90	204
MAY											
09...	1005	26	2000	178	7.1	17.0	15.0	8.9	34.6	23.9	45.8
09...	1006	10	2000	179	7.3	17.1	---	9.0	30.5	21.2	40.3
09...	1007	3.0	2000	180	7.1	17.1	---	9.1	38.3	19.5	47.2
09...	1015	11	11700	183	7.2	17.2	18.0	9.2	36.5	19.1	45.3
09...	1016	3.0	11700	183	7.3	17.4	---	9.4	32.3	17.6	40.4
19...	1510	---	2000	---	---	---	---	---	30.0	18.9	38.8
19...	1515	26	2000	177	7.3	20.1	24.0	8.1	58.9	61.3	87.8
19...	1516	10	2000	177	7.4	20.1	---	8.2	28.0	15.5	35.2
19...	1517	5.0	2000	177	7.5	20.3	---	8.4	20.7	7.20	23.9

## APPENDIX D-2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LNG (FT)	SAMP- LOC- TION	SPE- CIFIC CON- DUCT- ANCE	PH	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)		(32213)	(32217)	
MAY												
19...	1518	3.0	2000	177	7.9	20.8	---	9.0	28.8	7.70	32.1	
19...	1520	---	11700	---	---	---	---	---	55.5	25.1	66.6	
19...	1530	5.0	11700	172	8.2	20.9	12.0	9.8	53.1	21.8	62.9	
19...	1531	3.0	11700	171	8.2	20.9	---	9.9	57.6	14.3	63.7	
JUN												
02...	0840	20	2000	200	7.2	22.7	26.0	7.5	33.3	44.8	54.6	
02...	0841	10	2000	200	7.2	22.7	---	7.5	33.3	26.8	45.8	
02...	0842	3.0	2000	200	7.2	22.8	---	7.7	29.6	22.7	40.1	
02...	0843	1.0	2000	201	7.2	22.9	---	7.7	29.6	23.6	40.6	
02...	0855	3.0	7000	---	---	---	---	---	19.6	28.9	33.3	
02...	0856	7.0	7000	---	---	---	---	---	20.7	32.6	36.2	
02...	0857	12	7000	---	---	---	---	---	20.3	37.8	38.3	
02...	0900	12	11700	210	7.3	23.0	36.0	7.6	26.6	30.3	40.9	
02...	0901	7.0	11700	210	7.3	23.0	---	7.6	28.0	28.1	41.2	
02...	0902	3.0	11700	210	7.6	23.0	---	7.4	---	---	---	
02...	0920	7.0	15300	206	7.6	23.8	25.0	8.1	---	---	---	
02...	0921	3.0	15300	206	7.6	23.8	---	8.2	---	---	---	
17...	1020	3.0	2000	481	7.4	22.9	25.0	7.7	46.9	19.8	55.8	
17...	1021	12	2000	499	7.3	23.0	---	7.3	45.4	32.3	60.4	
17...	1022	15	2000	520	7.3	23.0	---	7.2	47.8	44.8	68.9	
17...	1025	---	11700	---	---	---	---	---	46.2	27.7	59.0	
17...	1050	3.0	11700	188	7.9	22.8	---	8.9	56.2	19.3	64.8	
17...	1051	12	11700	189	7.7	22.8	---	8.2	58.9	27.2	71.2	
17...	1055	---	2000	---	---	---	---	---	60.0	22.1	69.8	
JUL												
22...	0730	15	2000	2420	7.2	29.0	24.0	5.4	27.3	26.6	39.8	
22...	0733	9.0	2000	1720	7.8	29.2	---	6.3	30.8	17.6	38.8	
22...	0735	3.0	2000	730	8.2	29.2	---	7.3	38.8	16.6	46.3	
22...	0745	12	11700	313	7.9	28.6	18.0	6.1	33.5	31.4	48.2	
22...	0746	3.0	11700	308	7.9	28.6	---	6.1	34.7	24.5	46.0	
AUG												
18...	1905	3.0	2000	2000	7.9	26.8	---	8.0	46.8	12.2	52.1	
18...	1907	6.0	2000	2100	7.8	26.8	---	7.6	44.4	15.5	51.2	
18...	1909	10	2000	2100	7.7	26.7	---	7.5	42.7	15.5	49.6	
18...	1910	15	2000	2100	7.7	26.5	24.0	7.4	40.5	17.1	48.2	
19...	0840	3.0	2000	1990	7.7	26.5	---	7.2	38.8	12.9	44.5	
19...	0842	6.0	2000	2060	7.6	26.5	---	6.8	36.6	14.1	42.9	
19...	0844	10	2000	2200	7.6	26.5	---	6.8	33.9	14.0	40.2	
19...	0845	15	2000	3110	7.5	26.6	28.0	6.5	26.9	12.4	32.5	
19...	0900	13	11700	1770	7.6	26.0	35.0	7.0	36.6	13.6	42.6	
19...	0901	10	11700	1770	7.6	26.0	---	7.0	36.9	12.7	42.5	
19...	0902	7.0	11700	1770	7.6	26.0	---	7.0	38.9	13.8	45.0	

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
AUG 19...	0903	3.0	11700	1770	7.6	26.0	--	7.2	38.7	13.1	44.5
SEP 17...	1745	3.0	2000	3560	8.5	25.2	--	9.3	54.3	10.4	58.6
17...	1747	7.0	2000	4360	7.9	24.9	--	8.1	25.0	8.50	28.8
17...	1750	20	2000	6800	7.3	24.7	30.0	5.3	15.7	7.50	19.1
17...	1800	11	11700	4750	7.4	24.6	24.0	5.4	15.7	10.3	20.4
17...	1801	6.0	11700	4230	7.7	24.7	--	6.4	23.1	10.8	28.0
17...	1802	3.0	11700	3600	7.9	24.7	--	7.3	28.2	12.8	34.0

APPENDIX D-2  
382124077122700 - POTOMAC RIVER AT MARYLAND POINT

WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	LOC- ATION, CROSS SECTION (FT FW 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)
OCT							
06...	1359	1.0	5900	172	--	19.3	--
06...	1400	3.0	5900	172	--	19.3	--
06...	1401	16	5900	167	--	19.3	--
06...	1410	27	5900	--	--	--	--
06...	1411	30	5900	167	--	19.0	18.0
DEC							
15...	1415	3.0	2700	--	--	--	--
19...	1345	27	5900	1660	8.1	5.1	42.0
19...	1346	20	5900	1640	8.1	5.1	--
19...	1347	10	5900	1470	8.1	5.0	--
19...	1348	5.0	5900	1060	8.1	4.9	--
19...	1350	3.0	5900	--	--	--	--
19...	1351	1.0	5900	723	8.2	4.6	--
MAY							
09...	1045	35	4600	219	7.3	17.2	--
09...	1046	3.0	4600	222	7.3	17.4	--

APPENDIX D-2  
382124077122700 - POTOMAC RIVER AT MARYLAND POINT -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	OXYGEN, DISS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A PHYTO- PLANK- TON, CORR. (UG/L) (32211)	PHEO- PHYTTIN PHYTO- PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYLL A PHYTO- PLANK- TON, UNCORR. (UG/L) (32230)	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)
OCT							
06...	7.8	--	--	--	--	--	--
06...	7.8	11.8	5.60	16.0	--	--	--
06...	7.7	--	--	--	--	--	--
06...	--	22.4	17.9	34.8	--	--	--
06...	7.8	--	--	--	--	--	--
DEC							
15...	--	--	--	--	10.7	2.20	12.6
19...	12.3	--	--	--	9.60	6.00	13.5
19...	12.3	--	--	--	--	--	--
19...	11.7	--	--	--	--	--	--
19...	11.8	--	--	--	--	--	--
19...	--	--	--	--	25.3	5.00	29.7
19...	11.2	--	--	--	--	--	--
MAY							
09...	8.9	--	--	--	44.5	29.0	57.9
09...	9.3	--	--	--	30.0	22.0	40.3

382233077102000 - POTOMAC RIVER AT STUART WHARF  
APPENDIX D-2

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	SAMP- 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)
JAN											
16...	1540	27	3500	8500	8.1	3.8	24.0	12.1	28.8	28.0	42.0
1541		20	3500	8450	8.1	3.8	--	12.1	--	--	--
16...	1542	15	3600	8200	8.2	3.8	--	12.3	--	--	--
16...	1543	13	3500	7900	8.2	3.5	--	12.5	--	--	--
16...	1544	10	3600	6400	8.2	3.5	--	12.7	--	--	--
16...	1545	3.0	3500	5900	8.4	3.8	--	13.5	79.2	13.5	84.6
16...	1546	8.0	3500	6900	8.3	3.8	--	13.1	--	--	--
16...	1547	5.0	3500	6400	8.4	3.8	--	13.3	--	--	--
16...	1548	1.0	3500	5300	8.5	4.0	--	14.1	--	--	--
FEB											
18...	1740	17	3500	3350	8.2	.8	--	14.8	60.5	27.7	73.1
18...	1741	15	3500	3200	8.2	.8	--	14.2	--	--	--
18...	1742	10	3500	2350	8.2	.8	--	14.2	54.3	14.1	60.4
18...	1744	5.0	3500	1850	8.3	.8	--	14.4	60.0	16.2	67.0
18...	1745	3.0	3500	1850	8.3	.8	--	14.4	63.0	14.9	69.3
20...	1105	22	3500	8600	8.3	1.3	--	14.3	60.9	11.8	65.8
20...	1106	15	3500	8200	8.3	1.3	--	14.3	--	--	--
20...	1110	10	3500	7300	8.3	1.0	--	14.3	--	--	--
20...	1115	5.0	3500	6900	8.3	1.0	--	14.3	57.1	9.80	61.1
20...	1120	3.0	3500	6400	8.3	1.3	--	14.7	66.5	10.4	70.6
27...	0750	27	50000	--	--	--	--	--	73.8	11.5	78.3
27...	0759	1.0	5700	1200	8.1	2.7	--	13.4	--	--	--
27...	0800	3.0	50000	--	--	--	--	--	55.8	10.9	60.3
27...	0806	1.0	3000	2900	8.0	2.8	--	13.5	--	--	--
27...	1106	1.0	3000	3980	7.7	3.0	--	13.4	--	--	--
27...	1110	3.0	50000	--	--	--	--	--	62.4	10.5	66.6
27...	1115	27	50000	--	--	--	--	--	96.0	28.8	109
27...	1117	1.0	5700	3540	7.8	3.2	--	13.6	--	--	--
27...	1344	1.0	3000	6280	8.2	3.1	--	14.0	--	--	--
27...	1354	1.0	5700	5820	8.2	3.2	--	14.3	--	--	--
27...	1400	27	50000	--	--	--	--	--	90.6	24.3	101
27...	1410	3.0	50000	--	--	--	--	--	76.8	11.0	81.0
MAR											
07...	0710	1.0	50000	--	--	--	--	--	84.6	12.4	89.4
07...	0711	1.0	3500	4800	8.1	1.9	--	13.8	--	--	--
07...	0713	10	3500	5300	8.0	1.9	--	13.7	--	--	--
07...	0715	28	3500	7300	8.0	2.0	--	13.7	--	--	--
07...	0720	27	50000	--	--	--	--	--	87.6	21.2	96.6
07...	0724	1.0	6150	5300	8.0	1.9	--	13.8	--	--	--
07...	0726	10	6150	5600	8.0	1.9	--	13.8	--	--	--
07...	0729	19	6150	5700	8.0	1.9	--	13.7	--	--	--



382233077102000 - POTOMAC RIVER AT STUART WHARF --- Cont.  
 WATER QUALITY DATA - WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO-	PHEOPHY-	CHLORO-
								PHYLLI A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	-TIN A FLUORO- METRIC METHOD (UG/L) (32213)	PHYLLI A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
MAR	0915	1.0	3600	6500	8.3	2.2	14.4	--	--	--
	0918	10	3600	7500	8.2	2.0	13.9	--	--	--
	0919	28	3600	8600	8.0	1.9	13.6	--	--	--
	0920	1.0	50000	--	--	--	--	103	10.5	107
	0930	27	50000	--	--	--	--	109	25.5	120
	0931	1.0	6150	6100	8.1	2.2	14.2	--	--	--
	0934	10	6150	7400	8.0	2.0	13.6	--	--	--
	0936	20	6150	8600	8.0	1.9	13.5	--	--	--
	1347	1.0	3600	1347	8.5	3.1	14.1	--	--	--
	1348	10	3600	9000	8.3	2.3	13.8	--	--	--
	1349	28	3600	10500	8.2	2.1	13.3	--	--	--
	1350	1.0	50000	--	--	--	--	79.2	13.5	84.6
	1355	12	50000	--	--	--	--	74.4	17.7	81.9
	1357	1.0	6150	6000	8.3	3.0	14.2	--	--	--
	1358	10	6150	7100	8.3	2.8	14.0	--	--	--
	1359	19	6150	8500	8.2	2.4	13.7	--	--	--
	1400	27	50000	--	--	--	--	106	33.5	121
	1737	1.0	3600	3730	8.8	5.2	15.3	--	--	--
	1738	10	3600	6430	8.2	4.2	13.8	--	--	--
	1739	28	3600	11800	7.6	3.1	11.6	--	--	--
	1740	27	50000	--	--	--	--	134	18.5	141
	1745	3.0	50000	--	--	--	--	123	11.9	127
	1746	1.0	6150	3930	8.6	5.2	14.4	--	--	--
	1747	10	6150	6370	8.2	4.3	13.7	--	--	--
	1748	18	6150	6940	8.1	4.0	13.2	--	--	--
	15...	0840	3.0	50000	--	--	--	--	155	31.8
15...	0850	27	50000	--	--	--	--	131	28.6	143
17...	1605	24	3600	--	--	--	--	158	20.2	165
17...	1607	19	3600	--	--	--	--	158	34.0	172
17...	1610	3.0	3600	--	--	--	--	120	20.0	128
21...	0750	1.0	3600	361	7.9	8.3	11.8	--	--	--
21...	0753	15	3600	365	7.9	8.3	11.8	--	--	--
21...	0759	29	3600	413	7.9	8.2	11.6	--	--	--
21...	0800	3.0	50000	--	--	--	--	91.2	43.1	141
21...	0820	27	50000	--	--	--	--	102	72.6	136
21...	0821	1.0	6150	920	8.2	8.5	11.8	--	--	--
21...	0822	10	6150	660	8.2	8.5	11.8	--	--	--
21...	0823	20	6150	580	8.2	8.6	11.7	--	--	--
26...	1517	1.0	3600	718	8.0	9.4	11.1	--	--	--

382233077102000 - POTOMAC RIVER AT STUART WHARF -- Cont.

APPENDIX D-2

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING DEPTH (FT)	LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHDS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECHI 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	1518	10	3500	700	7.8	8.8	---	10.7	---	---	---	---
26...	1519	28	3500	604	7.2	7.8	---	8.4	---	---	---	---
26...	1520	3.0	50000	---	---	---	---	---	---	53.0	16.0	60.0
26...	1530	27	50000	---	---	---	---	---	---	64.0	13.2	69.5
26...	1531	1.0	6150	561	8.2	9.3	---	11.5	---	---	---	---
26...	1532	10	6150	722	7.9	8.8	---	10.8	---	---	---	---
26...	1533	19	6150	1900	7.6	8.4	---	10.0	---	---	---	---
28...	1126	18	3500	1950	7.4	8.3	22.0	10.6	---	---	---	---
28...	1128	9.0	3600	1480	7.5	8.3	---	10.8	---	---	---	---
28...	1129	3.0	3600	1100	7.6	8.4	---	11.0	---	---	---	---
28...	1130	27	50000	---	---	---	---	---	---	48.6	11.5	53.5
28...	1135	3.0	50000	---	---	---	---	---	---	38.9	13.7	45.0
28...	1136	26	6150	7380	7.1	7.8	22.0	8.9	---	---	---	---
28...	1137	6.0	6150	1690	7.4	8.3	---	10.6	---	---	---	---
28...	1138	3.0	6150	1500	7.5	8.4	---	10.7	---	---	---	---
APR	1107	1.0	3500	649	7.2	9.8	---	10.4	---	---	---	---
02...	1108	10	3600	1320	7.2	9.8	---	10.1	---	---	---	---
02...	1109	30	3500	4980	6.8	9.2	---	8.3	---	---	---	---
02...	1110	1.0	50000	---	---	---	---	---	---	14.8	12.6	20.7
02...	1120	27	50000	---	---	---	---	---	---	30.0	24.6	41.5
02...	1121	1.0	6150	720	7.2	10.0	---	10.3	---	---	---	---
02...	1122	10	6150	714	7.2	10.0	---	10.3	---	---	---	---
02...	1123	24	6150	708	7.3	9.9	---	10.1	---	---	---	---
02...	1417	1.0	3500	161	7.2	10.1	---	10.3	---	---	---	---
02...	1418	10	3500	162	7.2	10.0	---	10.3	---	---	---	---
02...	1419	30	3500	162	7.2	9.9	---	10.3	---	---	---	---
02...	1430	1.0	50000	---	---	---	---	---	---	5.10	11.8	10.8
02...	1440	27	50000	---	---	---	---	---	---	12.2	12.1	17.9
02...	1441	1.0	6150	166	7.2	10.2	---	10.5	---	---	---	---
02...	1442	10	6150	166	7.2	10.1	---	10.5	---	---	---	---
02...	1443	21	6150	167	7.2	10.0	---	10.6	---	---	---	---
03...	0855	24	3500	256	7.4	10.0	10.0	9.6	---	---	---	---
03...	0856	13	3500	253	7.5	9.9	---	9.7	---	---	---	---
03...	0859	3.0	3500	240	7.7	10.2	---	10.1	---	---	---	---
03...	0900	3.0	50000	---	---	---	---	---	---	23.8	12.3	29.4
03...	0905	27	50000	---	---	---	---	---	---	12.6	14.4	19.4
03...	0906	3.0	6150	210	7.9	10.4	10.0	10.4	---	---	---	---
03...	0907	9.0	6150	198	7.7	10.3	---	10.1	---	---	---	---
10...	1017	30	3500	191	7.1	12.7	15.0	9.2	---	---	---	---

382233077102000 - POTOMAC RIVER AT STUART WHARF -- Cont.

APPENDIX D-2

WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING 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 (SECCI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)
APR												
10...	1018	16	3500	186	186	7.1	12.7	---	9.3	---	---	---
10...	1019	3.0	3500	187	187	7.1	13.0	---	9.3	---	---	---
10...	1020	27	50000	---	---	---	---	---	---	---	---	---
10...	1025	3.0	50000	---	---	---	---	---	---	---	---	---
10...	1026	20	6150	202	202	7.2	12.9	---	---	---	---	---
10...	1027	11	6150	193	193	7.2	13.0	---	---	---	---	---
10...	1028	3.0	6150	193	193	7.2	13.4	---	---	---	---	---
10...	1710	3.0	50000	---	---	---	---	---	---	---	---	---
10...	1715	27	50000	---	---	---	---	---	---	---	---	---
23...	1201	27	3500	4800	4800	7.2	14.7	---	---	---	---	---
23...	1202	15	3500	3140	3140	7.6	15.1	---	---	---	---	---
23...	1203	10	3500	1730	1730	8.0	15.4	---	---	---	---	---
23...	1204	3.0	3500	1450	1450	8.5	16.3	---	---	---	---	---
23...	1230	3.0	6150	---	---	---	---	---	---	---	---	---
23...	1231	10	6150	---	---	---	---	---	---	---	---	---
23...	1233	17	6150	---	---	---	---	---	---	---	---	---
MAY												
09...	1055	27	3500	222	222	7.4	18.0	30.0	8.9	48.4	22.4	58.5
09...	1056	3.0	3500	219	219	7.5	18.2	---	9.2	31.7	16.4	39.2
09...	1105	25	6150	218	218	7.7	17.6	30.0	8.9	45.5	19.5	54.3
09...	1106	3.0	6150	215	215	7.8	18.2	---	9.0	30.9	16.4	38.4
19...	1620	3.0	3500	1140	1140	7.2	20.3	---	7.5	24.6	13.4	30.8
19...	1623	10	3500	1460	1460	7.1	20.0	---	7.1	22.2	18.6	30.9
19...	1625	22	3500	1640	1640	7.1	20.0	12.0	7.0	28.0	66.1	59.7
19...	1700	24	6150	848	848	7.3	20.1	30.0	7.6	24.8	27.5	37.8
19...	1701	10	6150	703	703	7.3	20.1	---	7.8	19.0	14.2	25.7
19...	1702	3.0	6150	639	639	7.3	20.1	---	7.9	22.8	12.8	28.7
JUN												
17...	0930	3.0	3500	5200	5200	7.2	22.9	21.0	5.6	15.6	12.7	21.6
17...	0933	10	3500	5310	5310	7.2	22.9	---	5.4	16.8	21.9	27.1
17...	0935	22	3500	5280	5280	7.1	22.9	---	5.4	17.5	34.3	34.0
JUL												
22...	0825	25	3500	9180	9180	6.8	28.1	26.0	3.3	34.2	39.2	52.7
22...	0827	12	3500	8230	8230	6.9	28.4	---	3.8	12.2	9.40	16.6
22...	0830	3.0	3500	6730	6730	7.1	28.5	---	4.8	17.7	11.6	23.0
AUG												
18...	1755	3.0	3500	7900	7900	7.4	26.8	---	7.0	27.3	4.80	29.2
18...	1757	7.0	3500	11900	11900	6.9	27.2	---	3.7	8.00	5.40	10.5
18...	1758	13	3500	14100	14100	6.9	27.4	---	2.8	5.10	6.80	8.40
18...	1800	23	3500	14300	14300	6.9	27.3	28.0	2.7	7.40	9.20	11.7
SEP												
17...	1835	3.0	3500	10400	10400	8.1	25.3	---	8.1	16.7	6.00	19.3
17...	1837	10	3500	13200	13200	7.4	25.1	---	5.4	24.8	9.10	28.8
17...	1840	24	3500	14700	14700	7.3	25.1	37.0	4.6	22.5	10.5	27.3

## APPENDIX D-2

01660800 - POTOMAC R NR MORGANTOWN, MD  
 WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	LOC- ATION CROSS SECTION (FT FM L BANK)	SPE- CIFIC DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)
		(00003)	(00009)	(00095)	(00010)	(00077)	(00300)
OCT							
06...	1610	59	1500	6932	21.0	22.0	4.1
06...	1611	52	1500	6432	21.0	---	4.2
06...	1612	46	1500	4531	20.8	---	4.9
06...	1613	39	1500	4432	20.8	---	5.1
06...	1614	33	1500	2432	20.5	---	6.2
06...	1615	26	1500	1632	20.3	---	6.6
06...	1616	20	1500	932	20.2	---	7.1
06...	1617	10	1500	832	20.3	---	7.1
06...	1618	7.0	1500	782	20.3	---	7.1
06...	1620	3.0	1500	782	20.3	---	7.1
06...	1621	1.0	1500	782	20.3	---	7.1
12...	1120	69	1500	3100	19.0	---	3.4
12...	1122	49	1500	3500	17.5	---	4.9
12...	1124	33	1500	2200	17.0	---	5.9
12...	1126	16	1500	1600	16.5	---	6.6
12...	1128	7.0	1500	1200	16.5	---	6.8
12...	1130	3.0	1500	1000	16.5	---	6.9
12...	1450	69	1500	3800	17.0	---	4.3
12...	1452	49	1500	2700	17.0	---	5.8
12...	1454	33	1500	1300	17.5	---	6.7
12...	1456	16	1500	700	16.5	---	7.1
12...	1458	7.0	1500	600	16.5	---	7.2
12...	1500	3.0	1500	600	16.5	---	7.3
19...	1253	62	1500	8400	17.5	---	3.9
19...	1255	46	1500	7400	17.5	---	1.8
19...	1257	30	1500	6600	16.5	---	4.7
19...	1259	13	1500	3200	16.5	---	7.0
19...	1302	3.0	1500	1600	16.0	---	7.6
19...	1442	62	1500	9900	17.5	---	3.0
19...	1444	46	1500	9500	17.3	---	3.8
19...	1446	30	1500	4500	17.0	---	4.4
19...	1448	13	1500	4100	15.1	---	6.6
19...	1450	3.0	1500	2200	15.0	---	7.3
26...	1315	69	1500	---	---	---	---
26...	1320	3.0	1500	---	---	---	---
26...	1415	2.0	2000	5800	15.0	---	7.5
26...	1418	7.0	2000	5800	15.0	---	7.2
26...	1419	10	2000	5800	15.2	---	7.1
26...	1420	3.0	2000	5800	15.0	---	7.2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible]

## APPENDIX D-2

01560800 - POTOMAC R NR MORGANTOWN, MD -- Cont.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 (SECHI DISK (IN)	OXYGEN, SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
OCT											
26...	1421	13	2000	6000	--	15.2	--	6.9	--	--	--
26...	1422	16	2000	6400	--	15.5	--	6.6	--	--	--
26...	1423	20	2000	7100	--	16.0	--	6.1	--	--	--
26...	1425	23	2000	7400	--	16.0	--	5.8	--	--	--
26...	1426	26	2000	7500	--	16.0	--	6.1	--	--	--
26...	1427	30	2000	7600	--	16.0	--	6.0	--	--	--
26...	1635	69	1500	--	--	--	--	--	3.20	6.20	6.30
26...	1640	3.0	1500	--	--	--	--	--	4.70	5.00	7.10
NOV											
04...	1035	62	1500	--	--	--	--	--	5.40	6.50	8.60
04...	1045	3.0	1500	--	--	--	--	--	6.50	5.60	9.20
04...	1315	62	1500	--	--	--	--	--	3.50	7.40	7.20
04...	1320	3.0	1500	--	--	--	--	--	3.40	5.20	5.90
DEC											
15...	1020	62	1500	--	--	--	--	--	10.4	4.70	13.6
15...	1030	3.0	1500	--	--	--	--	--	13.5	1.90	15.4
15...	1330	62	1500	--	--	--	--	--	12.1	5.10	15.7
15...	1335	3.0	1500	--	--	--	--	--	71.2	7.50	79.9
19...	1215	59	1500	11000	8.1	6.5	36.0	12.7	11.9	6.70	16.4
19...	1216	50	1500	11000	8.1	6.5	--	12.5	--	--	--
19...	1217	40	1500	11000	8.1	6.4	--	12.3	--	--	--
19...	1218	30	1500	11000	8.1	6.4	--	12.5	--	--	--
19...	1219	20	1500	7000	8.1	6.1	--	11.8	--	--	--
19...	1220	3.0	1500	7000	8.1	5.5	--	10.9	20.7	3.40	23.8
19...	1221	10	1500	7000	8.1	5.5	--	11.4	--	--	--
JAN											
16...	1656	50	1500	11000	8.3	4.0	--	11.6	--	--	--
16...	1657	40	1500	10500	8.4	4.0	--	12.0	--	--	--
16...	1658	30	1500	10500	8.4	4.0	--	12.1	--	--	--
16...	1659	20	1500	9500	8.5	4.0	--	13.3	--	--	--
16...	1700	63	1500	12000	8.3	4.0	--	11.6	58.8	11.8	63.7
16...	1701	15	1500	9000	8.6	4.0	--	13.6	--	--	--
16...	1702	10	1500	9000	8.6	4.3	--	13.9	--	--	--
16...	1703	8.0	1500	9000	8.6	4.3	--	14.2	--	--	--
16...	1704	5.0	1500	9000	8.7	4.3	--	14.5	--	--	--
16...	1705	3.0	1500	8500	8.7	4.5	--	14.9	74.7	12.3	79.6
16...	1706	1.0	1500	8500	8.7	4.5	--	14.9	--	--	--
FEB											
18...	1622	35	1500	--	--	--	--	--	90.8	9.30	94.0
18...	1623	60	1500	5700	8.3	1.0	--	14.1	--	--	--
18...	1624	40	1500	5200	8.5	1.3	--	14.8	--	--	--
18...	1625	72	1500	6200	8.3	1.0	36.0	14.3	87.8	19.4	96.0
18...	1626	30	1500	5200	8.5	1.3	--	15.1	--	--	--

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLLA FLUORO- METRIC CORR. (UG/L) (32209)	PHEOPHY- TINIA FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
FEB										
18...	1627	20	1500	4200	8.5	1.3	15.1			
18...	1628	10	1500	3700	8.5	1.0	15.1			
18...	1629	5.0	1500	3200	8.5	1.0	15.1			
18...	1630	3.0	1500	2700	8.5	1.0	15.1	77.6	16.9	84.6
25...	0610	55	50000					96.6	15.9	103
25...	0615	3.0	50000					93.0	10.2	96.6
25...	0920	3.0	50000					90.6	14.5	96.3
25...	0925	55	50000					104	12.4	108
25...	1220	3.0	50000					93.0	17.0	99.9
MAR										
05...	1215	3.0	50000					67.2	10.7	71.4
05...	1220	55	50000					116	20.2	125
05...	1430	3.0	50000					106	16.1	182
05...	1440	55	50000					123	50.6	146
05...	1810	3.0	50000					85.2	13.7	90.6
05...	1820	55	50000					108	36.0	124
07...	1300	1.0	1500	1700	8.7	3.8	14.2			
07...	1301	30	1500	3000	8.4	2.3	12.5			
07...	1302	55	1500	5100	7.9	1.8	10.4			
07...	1305	3.0	50000					74.4	10.9	78.6
07...	1306	1.0	2500	2100	8.6	3.5	14.5			
07...	1307	30	2500	2800	8.3	2.3	12.7			
07...	1308	44	2500	3000	8.1	2.1	11.9			
07...	1311	1.0	4000	1800	8.4	3.4	14.0			
07...	1312	10	4000	2080	8.3	2.7	13.5			
07...	1313	17	4000	2100	8.3	2.5	13.2			
07...	1315	28	50000					105	12.4	110
07...	1320	55	50000					139	17.8	146
10...	1626	1.0	1500	11150						
10...	1627	15	1500	13900	8.5	5.3	14.7			
10...	1628	30	1500	15700	7.9	4.3	12.1			
10...	1629	56	1500	18400	7.6	3.2	11.6			
10...	1631	1.0	2500	10100	7.4	2.3	10.5			
10...	1632	20	2500	13000	8.6	5.7	15.0			
10...	1633	44	2500	15800	8.1	3.9	13.2			
10...	1637	1.0	4000	10160	7.5	2.9	10.8			
10...	1638	10	4000	10800	8.6	5.5	14.8			
10...	1640	3.0	50000		8.5	5.0	14.7			
10...	1645	55	50000					53.1	3.20	53.8
12...	1200	3.0	50000					247	46.7	266
								135	10.2	138

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- 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 UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
MAR											
12...	1210	55	50000	--	--	--	--	--	261	19.2	267
12...	1400	3.0	50000	--	--	--	--	--	121	12.9	126
12...	1410	55	50000	--	--	--	--	--	251	32.2	263
12...	1840	3.0	50000	--	--	--	--	--	74.0	3.30	74.5
12...	1850	55	50000	--	--	--	--	--	282	24.9	290
17...	1500	57	1500	11900	7.9	5.3	24.0	11.2	275	115	327
17...	1501	46	1500	11900	7.9	5.4	--	11.2	222	30.0	234
17...	1502	33	1500	10800	8.2	5.8	--	12.6	182	31.0	195
17...	1503	23	1500	10200	8.3	6.0	--	12.9	--	--	--
17...	1504	13	1500	10000	8.3	5.9	--	13.0	--	--	--
17...	1505	3.0	1500	8900	8.5	6.0	--	13.6	153	9.50	156
17...	1506	1.0	1500	8800	8.5	6.2	--	14.1	--	--	--
18...	1130	3.0	50000	--	--	--	--	--	210	12.5	213
18...	1131	55	50000	--	--	--	--	--	173	32.1	191
18...	1445	3.0	50000	--	--	--	--	--	167	18.6	173
18...	1446	55	50000	--	--	--	--	--	152	27.2	163
18...	1645	3.0	50000	--	--	--	--	--	174	18.8	181
18...	1646	55	50000	--	--	--	--	--	182	40.5	199
19...	1158	52	1500	10200	7.9	6.4	--	11.9	199	13.7	203
19...	1159	43	1500	9700	7.9	6.5	--	12.0	175	22.4	183
19...	1200	64	1500	10300	7.9	6.4	--	11.9	207	26.8	217
19...	1201	33	1500	9600	7.9	6.5	--	12.0	169	34.8	183
19...	1202	23	1500	8900	8.1	6.5	--	12.5	172	31.1	185
19...	1205	13	1500	7100	8.3	6.6	--	13.6	162	25.5	172
19...	1206	7.0	1500	7100	8.4	6.6	--	14.5	171	18.9	178
19...	1210	3.0	1500	6700	8.6	7.1	--	15.0	268	27.0	277
19...	1211	1.0	1500	7100	8.4	7.0	--	14.2	--	--	--
19...	1212	.5	1500	--	--	--	--	--	178	18.6	184
21...	1406	1.0	4000	6640	8.7	8.4	--	12.5	--	--	--
21...	1407	10	4000	6760	8.6	8.1	--	12.5	--	--	--
21...	1408	15	4000	6980	8.5	8.0	--	12.4	--	--	--
21...	1410	3.0	50000	--	--	--	--	--	159	23.3	168
21...	1430	55	50000	--	--	--	--	--	202	40.6	218
21...	1431	1.0	2500	6550	8.6	8.1	--	12.8	--	--	--
21...	1432	10	2500	6630	8.6	8.0	--	12.7	--	--	--
21...	1433	43	2500	7840	8.4	7.6	--	12.2	--	--	--
21...	1435	1.0	1500	3100	8.6	8.3	--	12.3	--	--	--
21...	1436	10	1500	3200	8.7	8.2	--	12.7	--	--	--
21...	1437	52	1500	3900	8.5	7.5	--	11.9	--	--	--



## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	(00003)	SAMPLE LOC- ATION, CRDSS SECTION (FT FM L BANK)	(00009)	SPE- CIFIC 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)
MAR																					
24...	1011	1.0		1500		5130		7.9		7.6				10.1							
24...	1012	10		1500		8050		7.9		7.1				10.3							
24...	1013	53		1500		11700		7.7		6.6				9.3							
24...	1020	1.0		2500		3200		8.5		7.9				12.0							
24...	1021	10		2500		4400		8.0		7.6				10.5							
24...	1022	44		2500		11800		7.7		6.6				9.2							
24...	1025	1.0		4000		3400		8.4		7.9				11.8							
24...	1026	10		4000		4850		8.0		7.5				10.4							
24...	1027	18		4000		7200		7.9		7.1				10.3							
24...	1030	3.0		50000		--		--		--				--	268			26.2		277	
24...	1040	55		50000		--		--		--				--	194			25.9		203	
24...	1334	1.0		1500		4400		8.6		8.0				13.1							
24...	1335	10		1500		5200		8.2		8.3				11.5							
24...	1336	53		1500		12000		7.8		6.7				9.5							
24...	1340	1.0		2500		3500		8.7		8.1				13.7							
24...	1341	10		2500		5900		8.2		7.6				11.2							
24...	1342	45		2500		11600		7.7		6.6				9.0							
24...	1345	1.0		4000		3250		8.6		8.0				12.5							
24...	1346	10		4000		4300		8.1		7.7				10.6							
24...	1347	30		4000		6850		7.9		7.2				9.8							
24...	1350	55		50000		--		--		--				--	190			25.4		200	
24...	1400	3.0		50000		--		--		--				--	226			.600		223	
26...	1620	1.0		4000		3020		8.5		8.8				11.9							
26...	1621	17		4000		10700		7.5		7.4				8.8							
26...	1622	1.0		2500		2950		8.5		8.8				11.9							
26...	1623	30		2500		14300		7.4		6.9				8.6							
26...	1624	45		2500		16700		7.3		6.5				7.9							
26...	1630	55		50000		--		--		--				--	186			30.7		198	
26...	1640	3.0		50000		--		--		--				--	136			8.20		138	
26...	1641	1.0		1500		3400		8.6		8.9				12.5				10.1		133	
26...	1642	3.0		1500		3490		8.6		8.9				12.5				20.4		144	
26...	1643	7.0		1500		4300		8.3		8.7				12.1				12.8		128	
26...	1644	13		1500		8500		8.1		8.1				10.8				19.2		133	
26...	1645	22		1500		14300		7.5		6.9				8.6				9.10		168	
26...	1646	33		1500		15700		7.4		6.6				8.3				20.6		180	
26...	1647	43		1500		16000		7.3		6.5				9.9				--		--	
28...	1250	55		50000		--		--		--				--	208			93.8		250	
28...	1255	3.0		50000		--		--		--				--	147			16.4		153	
28...	1256	16		4000		9650		7.5		7.9			24.0	9.9				9.80		59.5	

APPENDIX D-2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LOC- TION, CROSS SECTION (FIT FMI L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHDS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLI A FLUORO- METRIC CORR. (UG/L)	PHEOPHY- TINI A FLUORO- METRIC CORR. (UG/L)	CHLORO- PHYLLI A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00300)	(32209)	(32213)	(32217)
MAR										
28...	1257	8.0	4000	5300	8.1	8.3	11.7	55.3	10.4	59.5
28...	1258	3.0	4000	4200	8.4	8.5	12.5	139	12.3	143
28...	1300	45	2500	18400	7.1	6.5	8.5	204	24.7	213
28...	1301	30	2500	15800	7.1	6.8	8.5	---	---	---
28...	1302	20	2500	9900	7.7	8.1	10.8	67.0	11.3	71.5
28...	1303	10	2500	7800	8.3	8.3	12.0	---	---	---
28...	1304	3.0	2500	5600	8.0	8.3	11.3	74.1	14.8	80.2
28...	1309	65	1500	---	---	---	---	184	21.9	192
28...	1310	55	1500	18500	7.1	6.4	8.4	188	34.5	202
28...	1311	40	1500	17700	7.1	6.5	8.9	174	37.0	189
28...	1312	30	1500	18200	7.1	6.5	8.6	175	27.0	185
28...	1313	20	1500	14100	7.4	7.2	9.5	144	13.1	148
28...	1314	10	1500	7700	8.4	8.3	12.2	95.6	12.5	101
28...	1315	5.0	1500	6000	8.4	8.6	12.5	97.2	22.1	107
28...	1316	3.0	1500	6200	8.4	8.6	12.5	105	12.8	110
28...	1750	3.0	1500	7640	8.6	8.6	13.5	88.0	10.9	92.0
28...	1751	25	1500	16400	7.3	6.9	8.5	---	---	---
28...	1752	53	1500	18500	7.1	6.3	7.5	188	25.2	197
APR										
02...	1153	1.0	1500	3280	7.4	10.7	10.7	---	---	---
02...	1155	10	1500	3830	7.4	9.7	10.5	---	---	---
02...	1158	56	1500	13400	6.6	7.9	5.1	---	---	---
02...	1206	1.0	2500	3270	7.4	10.4	11.1	---	---	---
02...	1207	10	2500	4380	7.2	9.7	11.0	---	---	---
02...	1208	43	2500	12800	6.7	8.4	8.4	---	---	---
02...	1210	3.0	50000	---	---	---	---	53.0	12.9	58.5
02...	1220	55	50000	---	---	---	---	108	30.0	121
02...	1221	1.0	4000	4800	7.2	10.1	10.7	---	---	---
02...	1222	10	4000	5620	7.2	9.6	10.4	---	---	---
02...	1223	32	4000	6500	7.1	9.4	10.2	---	---	---
02...	1525	1.0	1500	3360	7.5	10.7	10.1	---	---	---
02...	1526	10	1500	4780	7.2	10.6	9.7	---	---	---
02...	1527	70	1500	13800	6.7	8.7	5.0	---	---	---
02...	1530	55	50000	---	---	---	---	116	13.8	121
02...	1531	1.0	2500	3180	7.5	10.6	10.1	---	---	---
02...	1532	10	2500	4580	7.1	10.2	9.0	---	---	---
02...	1533	33	2500	12500	6.8	8.7	8.3	---	---	---
02...	1540	3.0	50000	---	---	---	---	35.0	8.30	38.5
02...	1541	1.0	4000	3670	7.3	10.4	9.9	---	---	---
02...	1542	10	4000	4650	7.3	10.0	9.8	---	---	---

## APPENDIX D-2

01560800 - POTOMAC R NR MORGANTOWN, MD -- Cont.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
APR	1543	20	4000	5370	7.3	10.0	--	9.9	--	--	--
03...	1045	14	4000	5000	7.3	10.1	11.0	8.1	--	--	--
03...	1046	8.0	4000	3100	7.5	10.1	--	8.5	--	--	--
03...	1047	3.0	4000	2700	7.5	10.4	--	8.8	--	--	--
03...	1050	3.0	50000	--	--	--	--	--	81.0	16.3	87.8
03...	1055	55	50000	--	--	--	--	--	66.8	38.5	84.5
03...	1056	40	2500	7800	7.2	9.3	--	6.7	--	--	--
03...	1057	30	2500	5600	7.3	9.8	--	7.8	--	--	--
03...	1058	20	2500	3500	7.5	10.2	--	8.8	--	--	--
03...	1059	10	2500	2900	7.7	10.5	--	9.3	--	--	--
03...	1100	3.0	2500	2700	7.7	10.6	--	9.5	--	--	--
03...	1110	52	1500	11000	7.1	8.7	--	5.6	111	55.9	137
03...	1111	40	1500	9000	7.0	9.0	--	6.4	--	--	--
03...	1112	30	1500	6600	7.2	9.4	--	7.0	--	--	--
03...	1113	20	1500	5800	7.3	9.7	--	7.8	34.9	14.4	41.4
03...	1114	10	1500	3500	7.6	10.2	--	8.9	--	--	--
03...	1115	3.0	1500	3000	7.6	10.7	--	9.1	50.0	9.70	54.0
08...	1210	1.0	1500	--	8.1	12.4	--	10.2	--	--	--
08...	1212	10	1500	--	8.1	11.9	--	10.1	--	--	--
08...	1215	51	1500	--	6.9	10.0	--	4.8	--	--	--
08...	1336	1.0	2500	--	8.5	12.9	--	10.8	--	--	--
08...	1337	10	2500	--	8.2	11.9	--	10.3	--	--	--
08...	1340	39	2500	--	7.1	10.8	--	6.3	--	--	--
08...	1347	1.0	4000	--	8.0	12.6	--	10.2	--	--	--
08...	1350	10	4000	--	7.9	12.5	--	10.1	--	--	--
08...	1353	14	4000	--	7.3	11.5	--	8.3	--	--	--
08...	1605	1.0	1500	--	8.1	12.6	--	10.2	--	--	--
08...	1607	10	1500	--	7.6	11.8	--	10.4	--	--	--
08...	1609	46	1500	--	6.9	10.6	--	5.6	--	--	--
08...	1621	1.0	2500	--	8.1	12.2	--	10.5	--	--	--
08...	1623	10	2500	--	8.1	12.2	--	10.6	--	--	--
08...	1626	39	2500	--	7.1	10.9	--	6.8	--	--	--
08...	1632	1.0	4000	--	7.6	11.8	--	9.5	--	--	--
08...	1635	10	4000	--	7.4	11.6	--	8.6	--	--	--
08...	1638	15	4000	--	7.4	11.6	--	8.8	--	--	--
10...	1120	3.0	1500	--	--	--	--	--	86.2	10.3	90.0
10...	1121	19	4000	4000	7.3	13.2	25.0	9.0	--	--	--
10...	1122	11	4000	3600	7.2	13.0	--	8.7	--	--	--
10...	1123	3.0	4000	3500	7.2	12.9	--	8.8	--	--	--

APPENDIX D-2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- 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 (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)
APR											
10...	1125	62	1500	--	--	--	--	--	52.2	108	104
10...	1130	3.0	50000	--	--	--	--	--	53.7	12.2	58.8
10...	1131	3.0	50000	--	--	--	--	--	35.2	7.80	38.5
10...	1135	55	50000	--	--	--	--	--	34.5	28.8	48.0
10...	1136	55	50000	--	--	--	--	--	37.8	75.0	73.7
10...	1140	42	2500	6100	6.8	12.0	26.0	6.6	--	--	--
10...	1141	30	2500	4300	7.0	12.4	--	7.9	--	--	--
10...	1142	15	2500	3900	7.0	12.5	--	8.2	--	--	--
10...	1143	3.0	2500	3700	7.3	12.7	--	9.2	--	--	--
10...	1149	60	1500	7800	6.6	11.3	24.0	5.1	--	--	--
10...	1150	45	1500	6500	6.7	11.8	24.0	6.4	--	--	--
10...	1151	35	1500	--	7.1	12.5	--	8.4	--	--	--
10...	1152	30	1500	4900	7.1	12.5	--	8.5	--	--	--
10...	1153	15	1500	4200	7.0	12.5	--	8.2	--	--	--
10...	1154	3.0	1500	3800	7.5	13.2	--	9.7	--	--	--
10...	1450	3.0	1500	--	--	--	--	--	158	2.00	157
10...	1455	62	1500	--	--	--	--	--	35.2	46.4	56.7
10...	1510	3.0	50000	--	--	--	--	--	160	12.2	163
10...	1520	55	50000	--	--	--	--	--	33.6	55.4	60.0
11...	1450	3.0	1500	--	--	--	--	--	22.0	9.80	26.5
11...	1452	30	1500	--	--	--	--	--	21.8	15.3	28.9
11...	1454	59	1500	--	--	--	--	--	24.8	23.6	35.9
15...	1350	3.0	50000	--	--	--	--	--	17.3	14.8	24.2
15...	1410	55	50000	--	--	--	--	--	13.0	24.6	24.8
15...	1600	3.0	50000	--	--	--	--	--	14.5	15.3	21.7
15...	1610	55	50000	--	--	--	--	--	13.8	27.6	27.0
17...	1150	3.0	50000	--	--	--	--	--	23.6	45.0	45.1
17...	1206	55	50000	--	--	--	--	--	27.3	43.6	48.1
17...	1500	3.0	50000	--	--	--	--	--	53.8	6.90	56.4
17...	1510	55	50000	--	--	--	--	--	23.3	41.9	43.3
22...	1000	3.0	50000	--	--	--	--	--	65.2	14.0	71.1
22...	1005	55	50000	--	--	--	--	--	27.0	12.1	32.5
22...	1320	3.0	50000	--	--	--	--	--	48.0	9.50	51.9
22...	1340	55	50000	--	--	--	--	--	18.1	20.5	27.8
23...	1421	57	1500	13400	6.9	12.3	22.0	6.7	15.5	17.5	23.8
23...	1422	30	1500	10500	6.9	13.1	--	7.1	11.1	8.40	15.0
23...	1423	15	1500	6700	7.5	15.4	--	8.5	24.2	11.2	29.4
23...	1424	3.0	1500	3950	8.1	16.4	--	9.3	35.8	10.0	40.1
23...	1501	26	4000	8850	7.1	14.1	23.0	7.6	16.2	15.9	23.6

## APPENDIX D-2

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

## WATER QUALITY DATA: WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING 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 METRIC CORR. (UG/L)	PHEOPHY- TIN A METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
APR											
23...	1502	15	4000	8150	7.2	14.4	---	7.8	19.3	7.20	22.5
23...	1503	3.0	4000	3900	8.1	16.5	---	9.2	26.9	8.80	30.8
24...	0941	62	1500	12100	6.9	12.6	24.0	6.6	18.2	27.2	31.1
24...	0942	3.0	1500	4000	7.8	15.6	---	8.8	27.8	10.8	32.7
MAY											
01...	1745	3.0	50000	---	---	---	---	---	38.2	11.7	43.3
01...	1746	1.0	1500	3290	7.6	17.1	---	8.6	---	---	---
01...	1747	10	1500	3780	7.4	16.0	---	8.1	---	---	---
01...	1748	50	1500	8740	7.0	14.8	---	6.6	---	---	---
01...	1750	1.0	2500	2800	7.5	15.7	---	8.2	---	---	---
01...	1751	10	2500	---	7.3	15.5	---	7.5	---	---	---
01...	1752	39	2500	6560	7.1	15.0	---	6.7	---	---	---
01...	1800	55	50000	---	---	---	---	---	32.7	67.3	64.9
01...	1801	1.0	4000	---	7.7	16.0	---	---	---	---	---
01...	1803	15	4000	3370	7.5	15.8	---	8.0	---	---	---
01...	1900	3.0	50000	---	---	---	---	---	33.5	8.70	37.2
01...	1901	1.0	1500	2790	7.8	15.9	---	8.8	---	---	---
01...	1902	10	1500	5310	7.3	15.5	---	7.4	---	---	---
01...	1903	48	1500	---	7.1	14.6	---	6.1	---	---	---
01...	1910	1.0	2500	3680	7.5	15.4	---	7.6	---	---	---
01...	1911	10	2500	---	7.3	15.1	---	6.9	---	---	---
01...	1912	34	2500	---	7.2	14.8	---	6.8	---	---	---
01...	1915	1.0	4000	2310	7.8	15.8	---	8.4	---	---	---
01...	1916	19	4000	3140	7.6	15.7	---	7.5	---	---	---
01...	1920	55	50000	---	---	---	---	---	32.8	39.3	51.4
06...	1530	3.0	1500	2250	7.8	19.4	---	9.2	---	---	---
06...	1531	10	1500	2550	7.5	18.9	---	8.5	---	---	---
06...	1532	53	1500	9400	6.8	15.5	---	3.7	---	---	---
06...	1535	3.0	2500	1850	8.1	20.3	---	10.0	---	---	---
06...	1536	10	2500	2000	7.9	18.8	---	9.5	---	---	---
06...	1537	39	2500	---	6.8	16.2	---	4.7	---	---	---
06...	1540	55	50000	---	---	---	---	---	27.8	61.1	57.0
06...	1545	3.0	50000	---	---	---	---	---	32.0	4.50	33.8
06...	1546	3.0	4000	---	7.6	19.2	---	8.8	---	---	---
06...	1547	10	4000	---	7.3	17.8	---	7.2	---	---	---
06...	1548	17	4000	---	7.2	17.6	---	7.6	---	---	---
06...	1901	3.0	1500	2490	7.9	19.1	22.0	9.5	---	---	---
06...	1902	10	1500	3640	7.3	18.0	---	7.7	---	---	---
06...	1903	53	1500	10200	6.7	15.3	---	3.2	---	---	---
06...	1905	3.0	50000	---	---	---	---	---	22.8	9.10	26.9

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING 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)		
MAY											
06...	1910	3.0	2500	1660	7.8	18.8	24.0	9.9	--	--	--
06...	1911	10	2500	--	7.6	18.6	--	8.8	--	--	--
06...	1912	39	2500	8090	6.9	16.1	--	4.8	--	--	--
06...	1920	55	50000	--	--	--	--	--	30.0	35.7	46.9
06...	1921	3.0	4000	2120	7.7	18.7	24.0	8.9	--	--	--
06...	1922	10	4000	2820	7.6	18.4	--	8.4	--	--	--
06...	1923	15	4000	3760	7.3	17.9	--	7.5	--	--	--
09...	1200	12	4000	3800	7.1	17.1	24.0	7.4	18.1	13.4	24.3
09...	1201	3.0	4000	3300	7.2	17.4	--	7.6	19.8	10.6	24.7
09...	1205	33	2500	9800	6.7	15.6	24.0	4.0	25.2	37.2	42.9
09...	1206	15	2500	5400	7.0	16.7	--	6.6	--	--	--
09...	1207	3.0	2500	3900	7.3	17.4	--	7.8	28.5	9.30	32.7
09...	1220	64	1500	11500	6.6	14.8	24.0	2.8	32.0	53.5	57.5
09...	1221	50	1500	11200	6.6	15.0	--	2.9	24.2	31.6	39.2
09...	1222	40	1500	11200	6.7	15.1	--	2.9	--	--	--
09...	1223	30	1500	10000	6.7	15.5	--	3.7	24.3	14.0	30.8
09...	1224	20	1500	6400	6.9	16.3	--	5.9	--	--	--
09...	1225	15	1500	5900	7.0	16.4	--	6.1	23.4	11.2	28.5
09...	1226	3.0	1500	4300	7.3	17.2	--	7.6	36.3	10.6	40.9
12...	1057	3.0	1500	5300	7.3	18.3	24.0	6.7	--	--	--
12...	1058	30	1500	6390	7.0	17.7	--	5.9	--	--	--
12...	1059	53	1500	9400	7.0	16.8	--	4.7	--	--	--
12...	1115	3.0	50000	--	--	--	--	--	31.4	14.3	37.8
12...	1118	3.0	2500	5300	7.2	18.1	24.0	6.5	--	--	--
12...	1119	20	2500	5750	7.1	17.8	--	6.3	--	--	--
12...	1120	42	2500	6700	7.1	17.5	--	5.8	--	--	--
12...	1125	55	50000	--	--	--	--	--	20.0	27.0	32.8
12...	1126	3.0	4000	5330	7.3	18.4	22.0	6.8	--	--	--
12...	1127	9.0	4000	5800	7.2	18.2	--	6.6	--	--	--
12...	1130	16	4000	5980	7.2	18.0	--	6.5	--	--	--
19...	2000	3.0	1500	6790	7.3	20.2	--	7.4	33.7	16.9	41.4
19...	2001	52	1500	8910	7.0	18.4	24.0	5.7	34.7	48.4	57.6
19...	2002	30	1500	7490	7.1	18.8	--	6.2	32.3	20.8	41.9
19...	2003	15	1500	6580	7.2	19.7	--	7.1	36.6	16.1	43.8
19...	2006	3.0	4000	5470	7.4	19.5	--	7.7	39.5	23.1	50.1
19...	2007	15	4000	6620	7.4	19.3	--	7.6	38.2	26.4	50.4
19...	0825	3.0	1500	6000	7.4	19.3	--	6.8	48.6	8.30	51.9
20...	0826	15	1500	7100	7.3	19.2	--	6.4	34.2	15.9	41.4
20...	0827	30	1500	8900	7.3	18.6	--	5.9	27.1	13.9	33.5

## 01660800 - POTOMAC R VR MORGANTOWN, MD. -- Cont.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 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...	0830	52	1500	10000	7.3	18.1	24.0	4.5	25.8	28.8	39.4
23...	0800	55	50000	--	--	--	--	--	18.0	20.6	27.8
23...	0810	3.0	50000	--	--	--	--	--	16.6	12.2	22.2
23...	1110	3.0	50000	--	--	--	--	--	23.0	9.40	27.2
23...	1120	55	50000	--	--	--	--	--	15.5	17.5	23.8
27...	0925	3.0	1500	4490	7.4	19.8	--	6.6	16.6	9.90	21.2
27...	0926	28	1500	11700	6.9	18.5	--	2.2	--	--	--
27...	0929	51	1500	12800	6.8	18.2	28.0	1.8	--	--	--
27...	0930	62	1500	--	--	--	--	--	9.30	34.9	26.1
27...	1000	3.0	50000	--	--	--	--	--	14.0	14.3	20.7
27...	1001	3.0	2500	3240	7.5	20.3	30.0	7.2	--	--	--
27...	1002	16	2500	8560	7.0	19.4	--	4.0	--	--	--
27...	1003	32	2500	10900	6.8	18.8	--	2.5	--	--	--
27...	1010	55	50000	--	--	--	--	--	12.5	41.6	32.5
27...	1011	3.0	4000	6000	7.3	20.0	21.0	5.7	--	--	--
27...	1012	9.0	4000	6330	7.2	19.7	--	5.2	--	--	--
27...	1013	14	4000	8200	7.0	19.4	--	3.9	--	--	--
29...	1630	3.0	1500	6770	7.4	21.7	--	4.0	--	--	--
29...	1631	18	1500	13400	7.2	19.7	--	.9	--	--	--
29...	1632	3.0	2500	5930	7.5	21.2	--	4.7	--	--	--
29...	1633	10	2500	8240	7.3	20.9	--	4.0	--	--	--
29...	1635	55	50000	--	--	--	--	--	11.0	11.7	16.5
29...	1645	3.0	50000	--	--	--	--	--	34.6	8.00	38.0
29...	1646	3.0	4000	4490	7.8	21.6	--	6.4	--	--	--
29...	1647	8.0	4000	6770	7.4	21.4	--	5.2	--	--	--
29...	1850	3.0	1500	6570	7.8	21.9	--	5.9	--	--	--
29...	1851	20	1500	12700	7.2	19.5	--	2.3	--	--	--
29...	1852	10	2500	13700	7.1	18.7	--	.7	--	--	--
29...	1853	3.0	2500	5800	7.8	21.7	--	6.6	--	--	--
29...	1854	3.0	4000	5240	8.0	22.4	--	7.4	--	--	--
29...	1900	3.0	50000	--	--	--	--	--	32.1	11.6	37.2
29...	1910	55	50000	--	--	--	--	--	13.8	45.6	35.8
JUN											
03...	1750	3.0	50000	--	--	--	--	--	44.5	16.3	51.8
03...	1800	55	50000	--	--	--	--	--	19.3	80.0	57.8
06...	1100	57	1500	15790	6.9	19.7	34.0	4.6	--	--	--
06...	1101	45	1500	15400	6.9	19.8	--	4.8	--	--	--
06...	1102	30	1500	13700	7.0	20.4	--	5.4	--	--	--
06...	1103	15	1500	11300	7.1	20.9	--	5.9	--	--	--
06...	1104	9.0	1500	11200	7.1	21.0	--	5.9	--	--	--

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- L LOC- ATION CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHDS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLDRO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD CORR. (UG/L) (32213)	CHLDRO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUN	1105	6.0	1500	10900	7.3	21.3	---	6.6	---	---	---
06...	1106	3.0	1500	9550	7.5	21.4	---	7.1	---	---	---
06...	1130	55	50000	---	---	---	---	---	9.70	9.40	14.1
06...	1140	3.0	50000	---	---	---	---	---	54.8	26.2	66.7
06...	1145	3.0	4000	8960	---	---	---	---	---	---	---
06...	1146	10	4000	9850	7.4	21.6	---	7.1	---	---	---
06...	1147	17	4000	10800	7.2	21.4	---	5.4	---	---	---
06...	1148	24	4000	12400	7.1	21.1	---	5.2	---	---	---
06...	1200	41	2500	16300	6.8	20.7	---	3.7	---	---	---
06...	1201	33	2500	15600	6.9	19.4	---	1.0	---	---	---
06...	1202	29	2500	11900	7.0	19.7	---	1.3	---	---	---
06...	1203	23	2500	10800	7.2	20.3	---	3.9	---	---	---
06...	1204	11	2500	10200	7.4	21.0	---	5.4	---	---	---
06...	1205	3.0	2500	9600	7.5	21.3	---	6.4	---	---	---
11...	1050	57	1500	13800	7.2	21.6	---	6.9	---	---	---
11...	1052	50	1500	13800	7.2	21.5	24.0	4.0	10.1	18.1	18.8
11...	1054	40	1500	13000	7.2	20.9	---	3.9	---	---	---
11...	1056	30	1500	12400	7.2	20.9	---	4.2	---	---	---
11...	1058	20	1500	10800	7.3	20.9	---	4.3	---	---	---
11...	1110	10	1500	10500	7.3	21.0	---	5.2	---	---	---
11...	1117	3.0	1500	9700	7.3	21.1	---	5.4	---	---	---
12...	1620	3.0	50000	---	---	21.2	---	5.8	15.9	11.2	21.1
12...	1621	50	1500	13000	---	---	---	---	28.0	8.60	31.8
12...	1622	10	1500	11500	7.1	21.8	---	---	---	---	---
12...	1623	3.0	1500	11400	7.2	22.0	---	3.7	---	---	---
12...	1630	3.0	2500	11300	7.3	22.1	---	4.9	---	---	---
12...	1631	10	2500	11300	7.3	22.0	---	5.0	---	---	---
12...	1632	50	2500	12200	7.4	22.0	---	5.5	---	---	---
12...	1635	55	50000	---	---	21.2	---	5.2	---	---	---
12...	1640	3.0	4000	9300	---	---	---	2.5	14.2	47.3	37.0
12...	1641	10	4000	11200	7.4	22.3	---	---	---	---	---
12...	1642	24	4000	12600	7.3	22.1	---	6.4	---	---	---
12...	1855	3.0	1500	12700	7.1	21.3	---	5.8	---	---	---
12...	1856	10	1500	12900	7.4	23.0	---	5.0	---	---	---
12...	1857	51	1500	13400	7.3	22.6	---	4.6	---	---	---
12...	1900	3.0	50000	---	7.2	21.6	---	3.7	---	---	---
12...	1910	55	50000	---	---	---	---	---	11.0	8.50	15.0
12...	1911	3.0	2500	12100	---	---	---	---	8.30	12.3	14.2
12...	1912	10	2500	12300	7.4	21.8	---	5.2	---	---	---
					7.3	21.5	---	4.1	---	---	---



## APPENDIX D-2

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

## WATER QUALITY DATA: WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 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											
12...	1913	33	2500	13300	7.2	21.2	---	3.7	---	---	---
12...	1915	3.0	4000	11400	7.4	21.9	---	5.8	---	---	---
12...	1916	10	4000	11700	7.3	21.8	---	5.2	---	---	---
12...	1917	19	4000	12500	7.2	21.6	30.0	4.2	---	---	---
16...	1725	3.0	1500	9600	7.3	23.0	---	5.8	17.1	9.10	21.2
16...	1726	10	1500	10300	7.2	23.2	---	4.7	10.7	8.60	14.7
16...	1727	20	1500	10600	7.2	23.0	---	4.3	10.4	9.30	14.8
16...	1728	30	1500	11100	7.2	22.7	---	4.1	10.0	10.2	14.8
16...	1729	40	1500	11800	7.1	22.4	---	3.6	10.4	10.1	15.2
16...	1730	61	1500	---	---	---	---	---	9.80	19.7	19.3
21...	1120	3.0	50000	---	---	---	---	---	13.0	6.00	15.8
21...	1121	23	4000	10700	7.1	22.8	30.0	5.1	---	---	---
21...	1122	13	4000	9500	7.2	22.8	---	5.8	---	---	---
21...	1125	3.0	4000	9430	7.3	22.9	---	6.4	---	---	---
21...	1130	55	50000	---	---	---	---	---	10.5	26.1	23.0
21...	1131	35	2500	12200	7.0	22.8	30.0	4.8	---	---	---
21...	1132	19	2500	10100	7.1	22.5	---	5.6	---	---	---
21...	1133	3.0	2500	9860	7.2	22.8	---	6.2	---	---	---
21...	1140	3.0	1500	10100	7.1	22.8	30.0	6.0	---	---	---
21...	1145	21	1500	11100	7.0	22.7	---	5.3	---	---	---
21...	1150	40	1500	12200	7.0	22.7	---	5.0	---	---	---
21...	1151	56	1500	12500	7.0	22.6	---	5.0	---	---	---
21...	1330	24	4000	11300	6.9	23.0	30.0	5.3	---	---	---
21...	1331	13	4000	10300	7.0	22.8	---	5.5	---	---	---
21...	1332	3.0	4000	10000	7.2	23.6	---	7.0	---	---	---
21...	1340	36	2500	11900	7.0	22.9	30.0	5.6	---	---	---
21...	1341	19	2500	11100	7.0	22.8	---	6.0	---	---	---
21...	1342	3.0	2500	10700	7.1	23.0	---	6.3	---	---	---
21...	1350	3.0	50000	---	---	---	---	---	16.5	6.20	19.2
21...	1356	62	1500	12400	6.9	22.7	---	5.3	---	---	---
21...	1357	40	1500	12000	7.0	22.7	---	5.6	---	---	---
21...	1358	20	1500	11700	7.0	22.7	---	5.8	---	---	---
21...	1359	3.0	1500	10600	7.0	22.9	---	6.0	---	---	---
21...	1400	55	50000	---	---	---	---	---	9.30	9.60	13.8
25...	1340	3.0	2500	9080	7.6	24.5	30.0	7.8	---	---	---
25...	1341	10	2500	9100	7.3	24.3	---	7.2	---	---	---
25...	1342	35	2500	13100	7.0	23.4	---	6.7	---	---	---
25...	1355	55	50000	---	---	---	---	---	11.6	7.90	15.2
25...	1404	3.0	1500	9260	7.2	24.5	---	7.4	---	---	---

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 METHOD CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
(00003)	(00009)	(00005)	(00010)	(00011)	(00012)	(00013)	(00014)	(00015)	(00016)	(00017)	(00018)
JUN											
25...	1405	3.0	5000	9290	7.3	24.4	---	---	47.5	9.60	51.0
25...	1406	6.0	1500	9380	7.2	24.3	---	7.1	---	---	---
25...	1407	10	1500	10000	7.2	24.2	---	6.4	---	---	---
25...	1408	20	1500	10800	7.1	24.1	---	5.8	---	---	---
25...	1409	30	1500	12400	7.0	23.6	---	5.2	---	---	---
25...	1410	40	1500	13000	7.0	23.3	---	4.4	---	---	---
25...	1411	50	1500	13200	7.0	23.3	---	3.8	---	---	---
25...	1412	60	1500	9190	7.6	24.7	32.0	7.1	---	---	---
25...	1420	3.0	4500	9250	7.4	24.4	28.0	6.7	---	---	---
25...	1421	10	4500	9500	7.3	24.4	---	6.9	---	---	---
25...	1422	17	4500	10100	---	---	---	---	21.0	7.30	24.2
27...	1120	3.0	5000	10200	7.0	24.3	20.0	4.7	---	---	---
27...	1121	3.0	4000	10200	6.9	24.1	---	4.6	---	---	---
27...	1122	10	4000	10200	6.9	24.1	---	4.5	---	---	---
27...	1123	16	4000	9580	7.0	24.4	24.0	5.5	---	---	---
27...	1125	3.0	2500	10100	7.0	24.2	---	4.9	---	---	---
27...	1126	10	2500	11600	7.0	24.1	---	4.3	---	---	---
27...	1127	36	2500	---	---	---	---	---	5.80	9.00	10.1
27...	1130	55	5000	9300	7.0	24.6	26.0	5.6	---	---	---
27...	1131	3.0	1500	9590	7.0	24.5	---	5.3	---	---	---
27...	1132	10	1500	9980	6.9	24.4	---	4.9	---	---	---
27...	1133	28	1500	12000	6.9	18.4	---	3.9	---	---	---
27...	1134	57	1500	10800	6.9	27.3	24.0	4.9	---	---	---
27...	1405	3.0	1500	10500	6.8	25.1	---	4.5	---	---	---
27...	1406	28	1500	12000	6.8	24.6	---	3.9	---	---	---
27...	1408	57	1500	9750	6.8	24.9	24.0	5.0	---	---	---
27...	1415	3.0	2500	9780	6.8	24.6	---	4.8	---	---	---
27...	1416	10	2500	11800	6.8	24.2	---	4.4	---	---	---
27...	1417	45	2500	---	---	---	---	---	36.0	8.80	39.8
27...	1420	3.0	5000	---	---	---	---	---	5.80	10.8	10.9
27...	1430	55	5000	---	---	---	---	---	---	---	---
JUL											
10...	1035	3.0	1500	---	---	---	---	---	16.0	4.10	17.8
10...	1037	10	1500	---	---	---	---	---	8.30	4.50	10.4
10...	1038	20	1500	---	---	---	---	---	6.30	4.80	8.60
10...	1039	30	1500	---	---	---	---	---	7.70	5.00	10.0
10...	1041	50	1500	---	---	---	---	---	8.10	6.40	11.1
10...	1043	60	1500	---	---	---	---	---	4.20	2.80	5.50
10...	1045	68	1500	---	---	---	---	---	6.20	6.00	9.00
18...	1613	12	4000	10800	7.0	28.0	26.0	4.2	---	---	---

APPENDIX D-2  
01660800 - POTOMAC R NR MORGANTOWN, MD: -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	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)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC CORR. (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00009)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL												
18...	1614	8.0	4000	10400	7.0	28.0	4.5	---	4.5	---	---	---
18...	1615	3.0	4000	10100	7.0	27.9	4.7	---	4.7	---	---	---
18...	1630	55	50000	---	---	---	---	---	---	3.50	5.10	5.90
18...	1631	38	2500	15500	6.8	26.6	1.2	32.0	1.5	---	---	---
18...	1632	28	2500	15200	6.8	26.6	1.5	---	3.0	---	---	---
18...	1633	18	2500	13600	6.9	27.1	3.0	---	4.5	---	---	---
18...	1634	8.0	2500	10500	7.0	27.9	6.5	---	7.6	---	---	---
18...	1635	5.0	2500	9700	7.4	28.6	---	---	---	---	---	---
18...	1636	3.0	2500	9430	7.6	29.2	---	---	---	---	---	---
18...	1640	3.0	50000	---	---	---	---	---	---	20.0	5.20	22.2
18...	1650	59	1500	15900	6.7	26.3	.9	28.0	---	---	---	---
18...	1651	49	1500	15900	6.7	26.3	.9	---	---	---	---	---
18...	1652	39	1500	15700	6.7	26.4	1.1	---	---	---	---	---
18...	1653	29	1500	15200	6.7	26.4	1.5	---	---	---	---	---
18...	1654	19	1500	13600	7.0	27.0	3.6	---	5.2	---	---	---
18...	1655	9.0	1500	10800	7.1	28.0	---	---	---	---	---	---
18...	1656	3.0	1500	9760	7.4	28.5	6.6	---	---	---	---	---
22...	0930	3.0	1500	10120	7.4	28.9	5.6	---	5.6	19.1	9.10	23.3
22...	0931	8.0	1500	10100	7.4	28.8	5.5	---	5.5	20.5	6.80	23.5
22...	0932	12	1500	10200	7.3	28.9	5.5	---	5.5	15.5	7.40	18.9
22...	0933	20	1500	13700	6.7	27.5	2.2	---	2.2	10.1	5.60	12.7
22...	0934	40	1500	15800	6.6	26.6	1.0	---	1.0	5.40	5.70	8.10
22...	0935	62	1500	18000	6.7	25.7	.8	36.0	.8	4.80	3.50	6.40
25...	0900	59	1500	18400	6.8	26.0	4.3	34.0	4.3	---	---	---
25...	0901	40	1500	17300	6.8	26.3	4.5	---	4.5	---	---	---
25...	0902	20	1500	15000	6.9	26.1	5.4	---	5.4	---	---	---
25...	0903	8.0	1500	13500	6.9	27.0	5.3	---	5.3	---	---	---
25...	0904	2.0	1500	13400	6.9	27.1	5.4	---	5.4	---	---	---
25...	0915	55	50000	---	---	---	---	---	---	7.30	7.40	10.8
25...	0925	3.0	50000	---	---	---	---	---	---	12.6	5.60	15.2
25...	0926	42	2500	16600	6.6	26.6	1.5	34.0	1.5	---	---	---
25...	0927	22	2500	15000	6.8	26.9	2.6	---	2.6	---	---	---
25...	0928	10	2500	13600	6.8	27.0	3.6	---	3.6	---	---	---
25...	0929	2.0	2500	12900	6.9	27.3	4.3	---	4.3	---	---	---
25...	0930	18	4000	15100	6.7	26.9	2.9	30.0	2.9	---	---	---
25...	0931	10	4000	14200	6.8	27.0	3.4	---	3.4	---	---	---
25...	0932	2.0	4000	12600	7.0	27.3	4.5	---	4.5	---	---	---
29...	1014	59	1500	15400	6.9	27.4	5.6	41.0	5.6	---	---	---
29...	1015	40	1500	15300	7.0	27.3	5.6	---	5.6	---	---	---

APPENDIX D-2

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

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	LOC- ATION, CROSS- SECTION, (FT FM L BANK)	SPE- CIFIC CON- DUCT-	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 (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUL											
29...	1016	20	1500	15200	7.0	27.3	---	5.7	---	---	---
29...	1017	10	1500	15100	7.0	27.4	---	5.7	---	---	---
29...	1018	3.0	1500	15100	7.0	27.5	---	5.8	---	---	---
29...	1022	42	2500	15300	7.0	27.3	---	4.1	---	---	---
29...	1023	30	2500	15300	7.0	27.3	---	4.3	---	---	---
29...	1024	15	2500	15200	7.1	27.4	---	4.3	---	---	---
29...	1025	8.0	2500	15200	7.1	27.4	---	4.5	---	---	---
29...	1026	3.0	2500	15200	7.1	27.5	---	4.7	---	---	---
29...	1035	55	50000	---	---	---	---	---	9.50	42.0	29.8
29...	1045	3.0	50000	---	---	---	---	---	24.0	4.30	25.8
29...	1046	17	4000	15000	7.1	27.5	---	4.4	---	---	---
29...	1047	10	4000	15000	7.1	27.5	---	4.6	---	---	---
29...	1048	3.0	4000	15000	7.1	27.4	---	4.6	---	---	---
31...	1300	17	4000	14300	6.9	28.5	18.0	4.4	---	---	---
31...	1301	10	4000	14200	6.9	28.5	---	4.4	---	---	---
31...	1302	3.0	4000	13900	6.9	28.5	---	4.8	---	---	---
31...	1310	37	2500	14700	6.8	28.4	24.0	4.0	---	---	---
31...	1311	27	2500	14600	6.8	28.4	---	4.0	---	---	---
31...	1312	17	2500	14200	6.8	28.4	---	4.1	---	---	---
31...	1313	7.0	2500	13700	6.9	28.6	---	4.7	---	---	---
31...	1314	3.0	2500	13600	7.4	29.1	---	5.6	---	---	---
31...	1320	3.0	50000	---	---	---	---	---	65.3	5.60	67.0
31...	1331	59	1500	14800	6.8	28.5	18.0	3.6	---	---	---
31...	1332	49	1500	14800	6.8	28.5	---	3.6	---	---	---
31...	1333	39	1500	14800	6.8	28.5	---	3.6	---	---	---
31...	1334	29	1500	14800	6.8	28.5	---	3.8	---	---	---
31...	1335	19	1500	14600	6.9	28.5	---	4.4	---	---	---
31...	1336	9.0	1500	13700	6.9	28.7	---	4.6	---	---	---
31...	1337	3.0	1500	13400	7.0	28.8	---	4.9	---	---	---
AUG											
11...	1710	17	4000	15100	7.0	29.7	18.0	3.3	---	---	---
11...	1714	10	4000	15000	7.3	30.2	---	4.8	---	---	---
11...	1717	3.0	4000	14900	7.5	30.6	---	6.0	---	---	---
11...	1720	3.0	50000	---	---	---	---	---	110	14.6	112
11...	1730	55	50000	---	---	---	---	---	3.60	10.1	8.40
11...	1731	42	2500	17400	6.8	28.9	---	1.7	---	---	---
11...	1732	32	2500	16800	7.2	29.4	---	3.1	---	---	---
11...	1733	27	2500	15800	7.5	29.8	---	5.6	---	---	---
11...	1734	22	2500	15800	7.6	29.8	---	5.7	---	---	---
11...	1735	12	2500	15600	7.7	29.9	---	6.5	---	---	---

## APPENDIX D-2

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

## WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LNG (FT)	SAMP- LOC- SECTION (FT)	SAMP- LNG (FT)	SAMP- LOC- SECTION (FT)	SAMP- LOC- SECTION (FT)	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)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)
AUG													
11...	1736	3.0	2500	14700	7.8	30.3	---	---	6.5	---	---	---	---
11...	1740	3.0	1500	15200	7.6	31.0	---	---	6.2	---	---	---	---
11...	1741	7.0	1500	15000	7.7	30.2	---	---	6.3	---	---	---	---
11...	1742	14	1500	15600	7.6	30.0	---	---	5.0	---	---	---	---
11...	1744	24	1500	16500	7.3	29.5	---	---	4.8	---	---	---	---
11...	1746	34	1500	16700	7.1	29.2	---	---	4.5	---	---	---	---
11...	1747	44	1500	14700	7.9	29.3	---	---	6.4	---	---	---	---
11...	1748	54	1500	14700	7.9	28.9	---	---	6.5	---	---	---	---
11...	1750	64	1500	14700	7.9	28.4	---	---	6.4	---	---	---	---
15...	1330	12	4000	15200	6.9	29.0	---	---	3.9	---	---	---	---
15...	1331	8.0	4000	14500	7.0	28.9	---	---	4.5	---	---	---	---
15...	1332	3.0	4000	14500	7.0	28.9	---	---	4.6	---	---	---	---
15...	1341	38	2500	16500	6.9	29.0	---	---	3.3	---	---	---	---
15...	1342	28	2500	16000	6.9	29.2	---	---	3.4	---	---	---	---
15...	1343	18	2500	14800	6.9	29.0	---	---	4.1	---	---	---	---
15...	1344	10	2500	14500	7.0	29.0	---	---	4.5	---	---	---	---
15...	1345	6.0	2500	14300	7.3	29.0	---	---	5.7	---	---	---	---
15...	1346	3.0	2500	14200	7.5	29.0	---	---	7.1	---	---	---	---
15...	1350	3.0	50000	---	---	---	---	---	---	---	---	---	---
15...	1400	55	50000	---	---	---	---	---	---	---	---	---	---
15...	1401	55	1500	19000	6.7	28.4	---	---	7.7	---	---	---	---
15...	1402	45	1500	18100	6.8	28.7	---	---	2.0	---	---	---	---
15...	1403	35	1500	16800	6.9	29.0	---	---	3.2	---	---	---	---
15...	1404	25	1500	15800	6.9	29.1	---	---	3.2	---	---	---	---
15...	1405	15	1500	15700	6.9	29.1	---	---	3.2	---	---	---	---
15...	1406	10	1500	14300	7.1	29.0	---	---	5.0	---	---	---	---
15...	1407	6.0	1500	14300	7.1	29.0	---	---	5.2	---	---	---	---
15...	1408	3.0	1500	14100	7.4	29.1	---	---	6.9	---	---	---	---
18...	1658	7.0	1500	16300	7.7	26.7	---	---	7.7	---	---	---	---
18...	1659	10	1500	16500	7.5	26.7	---	---	7.2	---	---	---	---
18...	1700	3.0	1500	16400	7.7	26.7	---	---	7.8	---	---	---	---
18...	1701	20	1500	16500	7.5	26.5	---	---	6.8	---	---	---	---
18...	1702	30	1500	17500	7.0	27.1	---	---	3.8	---	---	---	---
18...	1703	40	1500	19000	6.9	27.1	---	---	2.5	---	---	---	---
18...	1704	50	1500	19000	6.8	27.0	---	---	1.2	---	---	---	---
18...	1705	63	1500	19900	6.8	27.0	---	---	1.2	---	---	---	---
29...	1420	55	1500	18000	7.6	27.0	---	---	3.4	---	---	---	---
29...	1421	30	1500	15900	7.7	27.0	---	---	4.8	---	---	---	---
29...	1422	20	1500	15500	7.8	27.0	---	---	5.1	---	---	---	---

## APPENDIX D-2

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

## WATER QUALITY DATA. WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING (FT)	SAMP- L (00003)	LOC- TION (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, SOLVED (MG/L) (00300)	CHLDRD- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEDPHY -TIN A FLUOROS METRIC METHOD (UG/L) (32213)	CHLDRD- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG	1423	10	1500	1500	14500	8.2	27.5	---	8.2	54.0	9.60	57.8
29...	1424	7.0	1500	1500	14300	8.3	27.5	---	8.9	69.2	4.40	70.4
29...	1425	5.0	1500	1500	14300	8.3	27.7	---	9.4	63.9	9.90	67.7
29...	1426	2.0	1500	1500	14000	8.7	28.2	---	12.2	256	14.5	267
29...	1427	1.0	1500	1500	14100	8.7	28.2	---	12.3	284	27.1	293
29...	1430	55	50000	50000	---	---	---	---	---	17.5	7.00	20.6
29...	1440	3.0	50000	50000	---	---	---	---	---	126	---	124
29...	1441	37	2500	2500	16400	7.6	26.9	36.0	4.2	---	---	---
29...	1442	20	2500	2500	15300	7.7	26.9	---	4.8	---	---	---
29...	1443	10	2500	2500	14600	7.8	27.0	---	5.8	---	---	---
29...	1444	6.0	2500	2500	14600	8.0	27.3	---	7.4	---	---	---
29...	1445	3.0	2500	2500	14500	8.2	27.6	---	8.1	---	---	---
29...	1446	17	4000	4000	15600	7.7	27.0	---	5.0	---	---	---
29...	1447	10	4000	4000	15400	7.8	27.2	---	5.6	---	---	---
29...	1448	6.0	4000	4000	15200	7.8	27.2	---	5.7	---	---	---
29...	1449	3.0	4000	4000	15100	7.8	27.3	---	6.2	---	---	---
SEP	1705	60	1500	1500	16800	7.2	28.0	---	3.3	---	---	---
02...	1706	30	1500	1500	16200	7.1	28.0	---	3.7	---	---	---
02...	1707	20	1500	1500	15100	7.2	28.4	---	4.5	---	---	---
02...	1708	15	1500	1500	15100	7.3	28.7	---	5.4	---	---	---
02...	1709	10	1500	1500	15200	7.6	29.3	---	6.4	---	---	---
02...	1710	3.0	1500	1500	15200	7.7	29.7	36.0	6.8	---	---	---
02...	1715	55	50000	50000	---	---	---	---	---	2.80	7.60	6.40
02...	1725	3.0	50000	50000	---	---	---	---	---	30.7	7.50	33.9
02...	1726	44	2500	2500	15700	7.1	27.6	---	3.7	---	---	---
02...	1727	25	2500	2500	15000	7.2	28.3	---	4.5	---	---	---
02...	1728	20	2500	2500	14800	7.3	28.4	---	5.2	---	---	---
02...	1729	15	2500	2500	15200	7.2	28.4	---	4.5	---	---	---
02...	1730	10	2500	2500	15200	7.2	28.7	---	5.0	---	---	---
02...	1731	3.0	2500	2500	15100	7.6	29.1	---	6.5	---	---	---
02...	1740	15	4000	4000	14600	7.5	28.2	27.0	6.2	---	---	---
02...	1741	10	4000	4000	14500	7.6	28.7	---	6.4	---	---	---
02...	1742	3.0	4000	4000	15500	7.7	28.7	---	6.7	---	---	---
05...	1355	62	1500	1500	17000	7.1	27.6	39.0	3.8	---	---	---
05...	1356	40	1500	1500	16700	7.1	27.6	---	4.4	---	---	---
05...	1357	25	1500	1500	16500	7.1	27.6	---	4.4	---	---	---
05...	1358	15	1500	1500	16300	7.1	27.6	---	4.3	---	---	---
05...	1359	11	1500	1500	16200	7.0	27.7	---	4.4	---	---	---
05...	1400	8.0	1500	1500	16000	7.1	27.6	---	5.0	---	---	---

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (JMHS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK)	OXYGEN, OIS- 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											
05...	1401	5.0	1500	16200	7.1	27.6	---	4.6	---	---	---
05...	1402	3.0	1500	16100	7.1	27.7	---	4.9	---	---	---
05...	1405	3.0	50000	---	---	---	---	---	22.1	5.00	24.2
05...	1415	55	50000	---	---	---	---	---	3.10	9.10	7.50
05...	1420	50	2500	17100	7.1	27.5	42.0	3.9	---	---	---
05...	1421	40	2500	17100	7.0	27.5	---	3.8	---	---	---
05...	1422	20	2500	16800	7.0	27.5	---	4.4	---	---	---
05...	1423	10	2500	16300	7.1	27.6	---	4.7	---	---	---
05...	1424	3.0	2500	15900	7.2	28.1	---	5.3	---	---	---
05...	1430	20	4000	16700	7.1	27.5	34.0	4.2	---	---	---
05...	1431	15	4000	16100	7.1	27.5	---	4.6	---	---	---
05...	1432	10	4000	16000	7.1	27.6	---	5.0	---	---	---
05...	1433	5.0	4000	16000	7.3	27.9	---	5.5	---	---	---
05...	1434	3.0	4000	15900	7.3	28.1	---	6.1	---	---	---
09...	1400	60	1500	18500	7.1	27.0	36.0	3.3	5.00	4.50	7.10
09...	1401	50	1500	18400	7.1	27.1	---	3.5	---	---	---
09...	1402	40	1500	17400	7.1	27.2	---	3.8	---	---	---
09...	1403	30	1500	16900	7.1	27.4	---	4.2	---	---	---
09...	1404	20	1500	17100	7.2	27.2	---	4.8	---	---	---
09...	1405	15	1500	15900	7.2	27.1	---	5.1	---	---	---
09...	1406	10	1500	15500	7.3	27.2	---	5.6	---	---	---
09...	1407	3.0	1500	15100	7.5	27.2	---	6.7	52.8	4.00	54.0
09...	1415	55	50000	---	---	---	---	---	5.50	6.10	8.40
09...	1425	3.0	50000	---	---	---	---	---	43.2	5.00	45.0
09...	1426	45	2500	16900	7.1	27.1	---	4.5	---	---	---
09...	1427	30	2500	16400	7.1	27.1	36.0	4.8	---	---	---
09...	1428	15	2500	15800	7.2	26.9	---	5.2	---	---	---
09...	1429	10	2500	15800	7.2	26.9	---	5.2	---	---	---
09...	1430	6.0	2500	15800	7.2	26.9	---	5.2	---	---	---
09...	1431	3.0	2500	15200	7.5	27.2	---	6.7	---	---	---
09...	1440	20	4000	15000	7.3	27.1	36.0	5.9	---	---	---
09...	1441	13	4000	15800	7.3	27.1	---	5.9	---	---	---
09...	1442	8.0	4000	15700	7.3	27.2	---	6.2	---	---	---
09...	1443	3.0	4000	15700	7.3	27.1	---	5.9	---	---	---
11...	1435	16	4000	15200	7.2	26.3	30.0	5.1	---	---	---
11...	1436	11	4000	15200	7.3	26.3	---	5.9	---	---	---
11...	1437	7.0	4000	15200	7.3	26.3	---	6.3	---	---	---
11...	1438	3.0	4000	15100	7.4	26.5	---	6.8	---	---	---
11...	1440	3.0	50000	---	---	---	---	---	22.5	4.20	24.2

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	CHLOR- PHYLLA FLUOR- 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)
SEP	1450	55	50000	--	--	--	--	--	5.40	4.60	7.60
11...	1451	40	2500	16500	7.2	26.2	34.0	4.6	--	--	--
11...	1452	30	2500	16100	7.1	26.1	--	4.7	--	--	--
11...	1453	20	2500	15600	7.2	26.0	--	5.2	--	--	--
11...	1454	14	2500	15300	7.2	25.9	--	5.8	--	--	--
11...	1455	8.0	2500	14800	7.4	25.8	--	6.5	--	--	--
11...	1456	3.0	2500	14700	7.5	26.0	--	7.0	--	--	--
11...	1500	62	1500	17300	7.1	25.9	38.0	4.5	--	--	--
11...	1501	50	1500	17100	7.1	25.9	--	4.5	--	--	--
11...	1502	40	1500	16800	7.0	25.9	--	4.6	--	--	--
11...	1503	30	1500	16500	7.0	25.9	--	4.7	--	--	--
11...	1504	20	1500	15800	7.1	25.9	--	4.8	--	--	--
11...	1505	10	1500	14800	7.2	25.9	--	5.5	--	--	--
11...	1506	3.0	1500	14600	7.5	25.9	--	7.3	--	--	--
15...	1325	24	4000	15600	7.4	26.0	30.0	6.1	--	--	--
15...	1326	15	4000	15500	7.3	25.9	--	6.0	--	--	--
15...	1327	8.0	4000	15500	7.3	25.9	--	6.0	--	--	--
15...	1328	3.0	4000	15500	7.3	25.9	--	6.0	--	--	--
15...	1350	55	50000	--	--	--	--	--	3.40	6.90	6.70
15...	1400	3.0	50000	--	--	--	--	--	14.1	3.70	15.7
15...	1401	43	2500	18500	7.1	25.5	--	4.1	--	--	--
15...	1402	30	2500	18000	7.1	25.6	--	4.4	--	--	--
15...	1403	15	2500	15900	7.3	25.8	--	5.7	--	--	--
15...	1405	8.0	2500	15900	7.3	25.8	--	5.7	--	--	--
15...	1406	3.0	2500	15700	7.3	25.8	--	5.9	--	--	--
15...	1410	55	1500	18800	7.1	25.4	--	4.1	--	--	--
15...	1411	40	1500	18600	7.1	25.4	--	4.1	--	--	--
15...	1412	20	1500	16700	7.3	26.0	--	5.3	--	--	--
15...	1413	8.0	1500	15900	7.4	25.9	--	5.9	--	--	--
15...	1414	3.0	1500	15800	7.4	25.9	--	6.0	--	--	--
17...	1920	57	1500	19100	7.3	25.0	49.0	3.7	3.70	4.60	5.90
17...	1921	30	1500	17100	7.4	24.8	--	5.2	7.30	3.50	8.90
17...	1923	20	1500	17000	7.5	24.9	--	5.3	8.10	4.00	9.90
17...	1924	10	1500	16900	7.4	25.0	--	5.6	10.7	3.40	12.2
17...	1925	3.0	1500	16500	7.5	25.2	--	6.1	8.80	4.30	10.8
18...	0825	63	1500	19200	7.2	24.7	37.0	4.1	5.00	2.80	4.80
18...	0826	30	1500	17200	7.2	24.9	--	5.0	7.30	3.90	9.00
18...	0827	20	1500	16800	7.2	24.9	--	5.1	6.10	4.00	8.00
18...	0829	10	1500	16600	7.2	24.9	--	5.3	5.80	3.30	7.30



APPENDIX D-2

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

WATER QUALITY DATA WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

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)
SEP											
18...	0830	3.0	1500	16300	7.3	24.8	---	5.6	8.90	3.50	10.4
25...	1731	55	50000	---	---	---	---	---	3.10	22.5	14.0
25...	1732	3.0	50000	---	---	---	---	---	7.80	4.10	9.60
25...	1733	60	1500	19400	6.8	24.4	59.0	3.4	3.20	9.00	7.50
25...	1734	40	1500	19300	6.9	24.4	---	3.6	---	---	---
25...	1735	20	1500	19200	6.9	24.4	---	3.6	---	---	---
25...	1736	10	1500	19100	6.9	24.4	---	3.8	---	---	---
25...	1737	3.0	1500	18800	6.9	24.3	---	4.0	7.60	2.60	8.80

APPENDIX D-2

381516076503000 - POTOMAC RIVER AT C088 ISLAND

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING SECTION (FT F.W.)	LOC- ATION	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)
		(00003)	(00009)		(00400)	(00010)		(00077)
OCT								
07...	0840	23	6600	13000	---	19.5	40.0	---
07...	0841	20	6600	7500	---	19.5	---	---
07...	0842	16	6600	6500	---	19.5	---	---
07...	0847	10	6600	5600	---	20.0	---	---
07...	0850	3.0	6600	5600	---	20.0	---	---
07...	0920	16	21500	12000	---	21.0	42.0	---
07...	0923	14	21500	10700	---	20.5	---	---
07...	0925	13	21500	9500	---	20.3	---	---
07...	0933	10	21500	7100	---	19.8	---	---
07...	0935	3.0	21500	6500	---	19.8	---	---
26...	1300	28	6600	---	---	---	---	---
26...	1301	14	6600	---	---	---	---	---
26...	1305	1.0	6600	---	---	---	---	---
DEC								
18...	1415	20	6600	13900	8.4	6.3	---	---
18...	1416	14	6600	13300	8.3	6.0	---	---
18...	1417	12	6600	12000	8.4	5.9	---	---
18...	1418	10	6600	11900	8.5	6.0	---	---
18...	1420	3.0	6600	11800	8.6	6.0	---	---
18...	1421	1.0	6600	11700	8.7	6.0	---	---
JAN								
16...	1835	19	20100	15000	8.4	4.5	---	---
16...	1836	15	20100	15000	8.4	4.5	---	---
16...	1837	10	20100	15000	8.6	4.0	---	---
16...	1838	8.0	20100	7500	8.8	3.8	---	---
16...	1839	5.0	20100	7000	8.9	3.5	---	---
16...	1840	3.0	20100	6500	8.9	3.5	---	---
16...	1841	1.0	20100	6500	9.1	3.5	---	---
16...	1854	25	6600	16500	8.4	4.5	---	---
16...	1855	29	6600	---	---	---	---	---
16...	1856	20	6600	15500	8.5	4.5	---	---
16...	1857	15	6600	13000	8.7	4.3	---	---
16...	1858	10	6600	12000	8.8	4.0	---	---
16...	1859	8.0	6600	11000	8.8	4.3	---	---
16...	1900	3.0	6600	9000	8.9	3.8	---	---
16...	1901	5.0	6600	9500	8.9	4.3	---	---
16...	1902	1.0	6600	7500	8.8	3.8	---	---
17...	0910	19	20100	14500	8.4	4.5	30.0	---
17...	0911	15	20100	14500	8.3	4.3	---	---
17...	0912	13	20100	13500	8.4	4.3	---	---
17...	0913	10	20100	8500	8.6	3.8	---	---

381516076503000 - POTOMAC RIVER AT COBB ISLAND -- Cont.

APPENDIX D-2

WATER QUALITY DATA WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	CHLORO- PHYLL A PLANK- TONA CORR. (UG/L) (32211)	PHEO- PHYTTIN PLANK- TON CORR. (UG/L) (32218)	CHLORO- PHYLL A PHYTO- PLANK- TON UNCORR. (UG/L) (32230)	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 07...	1.4	10.1	.500	11.0	--	--	--
07...	7.3	--	--	--	--	--	--
07...	6.8	--	--	--	--	--	--
07...	6.9	--	--	--	--	--	--
07...	6.9	12.4	2.40	14.6	--	--	--
07...	2.5	4.60	2.60	6.50	--	--	--
07...	9.6	--	--	--	--	--	--
07...	4.9	--	--	--	--	--	--
07...	6.3	--	--	--	--	--	--
07...	7.0	11.2	.000	11.8	--	--	--
26...	--	5.10	4.40	7.30	--	--	--
26...	--	23.0	4.10	25.0	--	--	--
26...	--	25.5	6.20	28.6	--	--	--
DEC 18...	12.5	--	--	--	18.9	3.50	22.0
18...	11.4	--	--	--	--	--	--
18...	12.5	--	--	--	--	--	--
18...	12.9	--	--	--	69.8	4.00	76.5
18...	12.9	--	--	--	--	--	--
18...	12.3	--	--	--	--	--	--
JAN 16...	13.3	--	--	--	46.2	16.1	53.4
16...	12.9	--	--	--	--	--	--
16...	14.1	--	--	--	--	--	--
16...	14.9	--	--	--	--	--	--
16...	15.1	--	--	--	43.0	8.70	46.6
16...	15.5	--	--	--	--	--	--
16...	16.2	--	--	--	--	--	--
16...	11.6	--	--	--	54.1	5.20	55.8
16...	--	--	--	--	--	--	--
16...	12.2	--	--	--	--	--	--
16...	13.5	--	--	--	--	--	--
16...	14.7	--	--	--	--	--	--
16...	14.9	--	--	--	31.8	6.30	34.4
16...	15.4	--	--	--	--	--	--
16...	15.4	--	--	--	--	--	--
17...	10.6	--	--	--	47.5	8.50	50.9
17...	10.6	--	--	--	--	--	--
17...	13.4	--	--	--	--	--	--
17...	13.7	--	--	--	--	--	--

381516076503000 - POTOMAC RIVER AT COBB ISLAND --Cont.

APPENDIX D-2

WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISS- OLVED (MG/L) (00300)	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)
JAN											
17...	0914	8.0	20100	7000	8.6	3.8	---	13.6	---	---	---
17...	0915	3.0	20100	6000	8.8	3.5	---	14.8	60.6	7.40	63.3
17...	0916	5.0	20100	6500	8.7	3.8	---	13.9	---	---	---
17...	0917	1.0	20100	6000	8.8	3.5	---	15.0	---	---	---
FEB											
18...	1500	18	20100	13200	8.5	1.0	24.0	14.0	46.5	4.10	47.8
18...	1501	15	20100	12700	8.5	1.0	---	14.0	63.9	18.2	71.8
18...	1502	10	20100	11700	8.7	1.3	---	15.1	83.4	11.2	87.6
18...	1503	5.0	20100	11700	8.7	1.5	---	15.5	---	---	---
18...	1505	3.0	20100	11700	8.7	1.5	---	15.5	82.3	6.90	84.4
18...	1530	23	6600	8200	8.4	1.0	48.0	13.9	40.8	8.60	44.4
18...	1531	20	6600	7700	8.4	1.0	---	13.9	---	---	---
18...	1532	15	6600	7700	8.4	1.0	---	14.1	55.6	9.40	59.4
18...	1533	10	6600	6700	8.5	1.0	---	14.5	---	---	---
18...	1534	5.0	6600	6200	8.6	1.5	---	15.3	---	---	---
18...	1535	3.0	6600	5700	8.6	1.8	---	15.6	30.0	5.00	32.0
20...	1730	23	6600	15500	8.2	1.3	---	13.0	58.5	11.3	63.1
20...	1731	15	6600	15000	8.3	1.3	---	13.3	---	---	---
20...	1732	10	6600	14000	8.5	1.5	---	14.3	---	---	---
20...	1733	5.0	6600	13500	8.6	1.5	---	14.8	63.6	7.20	66.2
20...	1735	3.0	6600	13500	8.6	1.5	---	14.9	52.3	12.7	57.7
20...	1740	17	6600	---	---	---	---	---	100	13.3	105
20...	1810	19	20100	13500	8.4	1.5	---	13.9	---	---	---
20...	1812	10	20100	13500	8.6	1.4	---	15.5	---	---	---
20...	1813	5.0	20100	13000	8.7	1.4	---	15.9	---	---	---
20...	1815	3.0	20100	13000	8.7	1.4	---	15.9	45.4	4.00	46.7
20...	1820	15	20100	14000	8.5	1.5	---	13.9	67.2	7.40	69.8
MAR											
17...	1320	20	20100	17400	7.6	5.0	36.0	10.8	186	37.5	202
17...	1321	16	20100	17300	7.6	5.0	---	10.5	---	---	---
17...	1322	13	20100	14500	8.2	5.6	---	12.5	---	---	---
17...	1323	10	20100	12500	8.5	6.3	---	13.5	95.2	10.9	99.1
17...	1324	7.0	20100	12100	8.5	6.4	---	13.7	---	---	---
17...	1325	3.0	20100	12100	8.5	6.5	---	13.7	67.5	9.80	71.2
17...	1326	1.0	20100	12100	8.5	6.5	---	13.7	---	---	---
17...	1340	26	6500	17400	7.8	5.0	60.0	11.3	96.0	9.10	99.0
17...	1341	20	6500	17300	7.8	5.1	---	11.3	104	11.0	107
17...	1342	13	6500	13900	8.1	5.4	---	12.7	---	---	---
17...	1343	10	6500	14100	8.4	5.8	---	12.0	33.1	5.70	35.4
17...	1345	3.0	6500	12600	8.4	5.9	---	13.4	30.0	6.30	32.6
28...	1550	19	6500	22500	7.5	5.8	---	10.2	103	15.2	109

## APPENDIX D-2

381516076503000 - POTOMAC RIVER AT COBB ISLAND -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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) (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)
MAR											
28...	1551	15	6500	17500	8.0	7.1	---	11.9	---	---	---
28...	1552	10	6500	9400	8.6	8.0	---	14.4	37.5	6.90	40.3
28...	1553	5.0	6500	8300	8.7	8.2	---	14.6	---	---	---
28...	1555	3.0	6500	8300	8.7	8.2	---	14.7	34.5	6.40	37.1
28...	1615	3.0	20100	7600	8.6	7.9	---	13.8	49.1	7.10	51.8
28...	1616	5.0	20100	7600	8.6	7.8	---	13.6	---	---	---
28...	1618	10	20100	15100	7.6	6.8	---	10.0	---	---	---
28...	1620	16	20100	22400	7.2	5.6	40.0	8.6	184	38.5	200
APR											
03...	1340	3.0	20100	6400	8.7	10.9	---	12.0	70.8	13.2	76.2
03...	1343	9.0	20100	6500	8.6	10.7	---	11.2	---	---	---
03...	1345	18	20100	7100	8.5	10.5	25.0	10.7	41.9	8.70	45.5
03...	1405	3.0	6500	6600	8.8	10.8	---	12.2	75.8	8.80	78.9
03...	1407	10	6600	7400	8.1	10.0	---	10.1	38.2	8.90	42.0
03...	1408	15	6600	9100	7.6	9.5	---	8.4	---	---	---
03...	1410	21	6500	15500	6.8	7.9	29.0	3.7	227	36.0	241
10...	1330	3.0	6500	6600	8.0	13.4	---	10.6	15.9	9.10	20.1
10...	1333	8.0	6500	8100	7.1	12.0	---	8.0	25.0	12.8	30.8
10...	1335	12	6600	9300	8.0	12.6	60.0	9.1	14.5	8.30	18.3
10...	1400	3.0	20100	5900	7.9	13.6	---	10.5	14.0	5.30	16.4
10...	1403	11	20100	7000	7.7	12.5	---	10.0	17.3	7.40	20.7
10...	1405	17	20100	8700	8.0	12.6	---	10.2	17.0	7.20	20.2
16...	1400	3.0	6500	---	---	---	---	---	14.4	10.3	19.2
24...	1020	3.0	6500	4300	8.5	15.6	---	10.2	25.8	4.40	27.6
24...	1023	15	6500	13700	6.9	12.6	---	6.7	32.5	10.8	37.2
24...	1025	25	6500	16800	6.8	12.1	18.0	6.5	29.5	9.10	33.5
24...	1100	8.0	20100	5100	8.6	16.2	48.0	10.7	49.4	8.40	52.7
24...	1105	3.0	20100	5000	8.7	16.6	---	11.2	47.8	9.00	51.4
MAY											
09...	1340	22	6600	17200	6.7	14.0	36.0	2.3	79.3	15.6	85.7
09...	1341	15	6600	10600	7.4	15.6	---	6.0	61.0	16.7	68.3
09...	1342	3.0	6500	6900	8.5	17.0	---	10.5	95.6	13.2	101
09...	1425	17	20100	7700	7.4	15.9	30.0	7.9	37.8	13.7	43.9
09...	1426	3.0	20100	6000	8.0	16.9	---	9.8	54.0	13.0	59.5
20...	1000	3.0	6500	11300	9.2	20.1	---	13.7	123	21.6	132
20...	1002	15	6500	12800	8.6	18.0	---	7.2	122	22.7	132
20...	1004	19	6500	13500	8.2	17.7	---	5.0	---	---	---
20...	1005	23	6500	16000	7.3	17.0	30.0	1.5	131	25.2	142
20...	1045	18	20100	14500	6.9	17.0	42.0	.6	14.5	5.80	17.1
20...	1048	15	20100	10000	7.6	17.9	---	5.7	---	---	---
20...	1049	9.0	20100	9700	8.5	18.9	---	9.9	73.4	18.2	81.2

APPENDIX D-2  
381516076503000 - POTOMAC RIVER AT COBB ISLAND -- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LING DEPTH (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 (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD (UG/L)
					(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
MAY												
20...	1050	3.0	20100	9700	8.5	8.5	18.8	--	10.0	86.8	14.7	92.7
22...	1600	3.0	6500	8900	8.7	8.7	19.4	--	10.2	101	22.5	111
22...	1601	6.0	6500	9500	8.6	8.6	19.1	--	8.8	--	--	--
22...	1602	9.0	6500	9700	8.6	8.6	19.0	--	8.7	55.9	16.6	63.1
22...	1603	15	6500	10300	8.8	8.8	19.0	--	8.4	53.2	13.6	59.0
22...	1604	19	6500	14100	8.0	8.0	18.1	--	2.5	127	24.7	137
22...	1605	22	6500	15100	7.4	7.4	17.0	12.0	.9	85.2	16.9	92.2
JUN												
09...	1030	25	6500	21200	6.9	6.9	18.9	35.0	.6	13.5	12.1	19.2
09...	1031	23	6500	19400	7.0	7.0	19.8	--	1.2	--	--	--
09...	1032	20	6500	18100	7.2	7.2	19.8	--	3.3	--	--	--
09...	1033	15	6500	14500	7.5	7.5	20.5	--	6.1	--	--	--
09...	1034	3.0	6500	13800	7.7	7.7	20.6	--	7.5	41.0	4.50	42.6
09...	1100	21	20100	13500	7.3	7.3	20.3	32.0	5.8	19.4	12.0	24.9
09...	1101	15	20100	13600	7.3	7.3	20.3	--	5.8	--	--	--
09...	1102	3.0	20100	12700	7.5	7.5	20.6	--	6.5	32.0	15.2	38.9
16...	1540	3.0	6500	13700	8.5	8.5	23.4	33.0	9.9	42.7	5.50	44.8
16...	1543	10	6500	14900	7.6	7.6	22.7	--	4.0	11.4	9.20	15.7
16...	1545	24	6500	16700	7.1	7.1	21.1	--	1.2	7.70	6.50	10.7
16...	1615	3.0	20100	13100	8.0	8.0	23.1	36.0	8.4	57.9	4.90	59.5
16...	1618	10	20100	13100	8.1	8.1	23.1	--	8.6	52.9	8.80	56.5
16...	1620	18	20100	13200	8.0	8.0	23.1	--	8.1	51.7	7.20	54.5
JUL												
09...	1055	3.0	6500	--	--	--	--	--	--	97.0	19.4	105
09...	1100	23	6500	--	--	--	--	--	--	10.1	21.2	20.3
22...	1030	3.0	6500	13800	7.6	7.6	28.3	48.0	5.5	25.0	7.20	28.1
22...	1031	10	6500	13800	7.4	7.4	28.0	--	4.9	17.6	8.20	21.4
22...	1033	15	6500	18200	6.8	6.8	27.0	--	1.1	14.0	8.90	18.1
22...	1035	20	6500	20700	6.8	6.8	25.8	--	.9	4.20	7.20	7.60
22...	1055	3.0	20100	14000	7.8	7.8	28.3	--	6.0	79.6	11.9	84.2
22...	1058	10	20100	14300	7.5	7.5	28.0	--	4.6	35.7	11.1	40.6
22...	1100	17	20100	20800	6.7	6.7	24.9	52.0	.8	5.10	4.50	7.20
25...	1115	23	6500	22300	6.7	6.7	25.1	54.0	.1	4.30	4.90	6.60
25...	1116	18	6500	19640	6.7	6.7	25.8	--	.2	--	--	--
25...	1117	15	6500	17600	6.6	6.6	26.4	--	.2	--	--	--
25...	1118	13	6500	15700	7.0	7.0	27.0	--	3.8	--	--	--
25...	1119	10	6500	15300	7.7	7.7	27.2	--	6.8	--	--	--
25...	1120	2.0	6500	15000	7.8	7.8	27.4	--	8.0	15.0	4.60	17.0
AUG												
18...	1520	3.0	20100	17300	8.0	8.0	26.2	--	9.0	77.6	5.50	79.1
18...	1521	7.0	20100	17400	7.9	7.9	26.2	--	8.6	49.8	4.60	51.3
18...	1523	10	20100	17300	7.9	7.9	26.2	--	8.7	56.4	8.20	59.5

APPENDIX D-2  
381516076503000 - POTOMAC RIVER AT COBB ISLAND --- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHDS) (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 CORRL (UG/L) (32209)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
AUG											
18...	1525	17	20100	23700	6.9	26.7	60.0	.2	8.70	3.00	10.0
18...	1540	3.0	6500	17800	7.9	26.4	--	8.0	16.8	3.70	18.3
18...	1542	7.0	6500	17800	7.8	26.4	--	7.9	13.7	4.40	15.6
18...	1544	15	6500	21200	7.1	26.5	--	2.9	4.70	3.50	6.30
18...	1545	23	6500	26100	6.9	26.6	66.0	.2	3.00	1.70	3.80
SEP											
18...	0920	3.0	6600	19700	7.8	24.6	--	7.3	42.3	4.80	44.0
18...	0921	10	6600	21300	7.6	24.6	--	5.7	23.2	6.50	26.0
18...	0923	17	6500	22900	7.3	24.5	--	3.7	9.50	6.30	12.4
18...	0925	24	6500	23000	7.3	24.5	72.0	3.5	12.2	6.40	15.2
18...	0940	3.0	20100	19800	7.8	24.6	--	7.2	24.6	5.00	26.7
18...	0943	10	20100	19800	7.7	24.6	--	7.1	16.6	4.70	18.7
18...	0945	18	20100	20800	7.1	24.8	74.0	3.7	5.30	3.40	6.90

APPENDIX D-2

01661475 -- POTOMAC R AT PINEY POINT, MD

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
OCT							
07...	1100	30	10800	17400	---	21.0	41.0
07...	1101	23	10800	17400	---	21.0	---
07...	1102	16	10800	16400	---	20.8	---
07...	1103	15	10800	11400	---	20.0	---
07...	1104	13	10800	11400	---	20.0	---
07...	1105	3.0	10800	11400	---	20.0	---
07...	1106	10	10800	11400	---	20.0	---
07...	1107	7.0	10800	11400	---	20.0	---
07...	1159	43	500	21900	---	21.5	---
07...	1200	56	500	22900	---	20.5	44.0
07...	1201	33	500	21900	---	21.8	---
07...	1202	23	500	21900	---	21.8	---
07...	1203	16	500	19900	---	21.5	---
07...	1204	13	500	13900	---	20.0	---
07...	1205	3.0	500	12900	---	20.0	---
07...	1206	10	500	13900	---	20.0	---
07...	1207	6.0	500	---	---	---	---
26...	0927	46	4500	19000	---	17.0	---
26...	0928	39	4500	19000	---	17.0	---
26...	0929	33	4500	18900	---	17.0	---
26...	0930	52	4500	19000	---	17.5	---
26...	0931	26	4500	18500	---	16.8	---
26...	0932	20	4500	16500	---	16.0	---
26...	0933	13	4500	16000	---	16.0	---
26...	0934	7.0	4500	16000	---	15.7	---
26...	0935	3.0	4500	16000	---	15.5	---
DEC							
18...	1220	27	10800	18200	8.4	7.5	24.0
18...	1221	20	10800	17800	8.4	7.4	---
18...	1222	10	10800	16400	8.4	7.1	---
18...	1223	5.0	10800	13100	8.7	6.2	---
18...	1225	3.0	10800	12600	8.7	6.1	---
JAN							
17...	1029	30	500	18500	8.4	4.5	---
17...	1030	43	500	19000	8.2	4.5	102
17...	1031	20	500	17000	8.5	4.3	---
17...	1032	15	500	16500	8.6	4.3	---
17...	1033	10	500	16500	8.6	4.3	---
17...	1034	8.0	500	16500	8.6	4.3	---
17...	1035	3.0	500	16500	8.6	4.3	---
17...	1036	5.0	500	16000	8.6	4.3	---



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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	OXYGEN, DISE- SOLVED (MG/L) (00300)	CHLORO- PHYLL-A PHYTO- PLANK- TON, CORR. (UG/L) (32211)	PHEO- PHYTTN PHYTO- PLANK- TON, CORR. (UG/L) (32218)	CHLORO- PHYLL-A PHYTO- PLANK- TON, CORR. (UG/L) (32230)	CHLORO- PHYLL-A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD CORR. (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
OCT							
07...	4.2	11.2	1.10	12.5	--	--	--
07...	4.4	--	--	--	--	--	--
07...	5.3	--	--	--	--	--	--
07...	7.5	--	--	--	--	--	--
07...	7.8	--	--	--	--	--	--
07...	7.9	33.6	2.20	36.9	--	--	--
07...	7.8	--	--	--	--	--	--
07...	7.9	--	--	--	--	--	--
07...	3.8	--	--	--	--	--	--
07...	3.9	3.40	7.00	8.00	--	--	--
07...	3.6	--	--	--	--	--	--
07...	3.5	--	--	--	--	--	--
07...	3.5	--	--	--	--	--	--
07...	7.1	43.3	2.70	47.3	--	--	--
07...	8.7	37.8	1.50	40.8	--	--	--
07...	7.6	--	--	--	--	--	--
07...	--	28.0	2.20	30.9	--	--	--
26...	6.3	--	--	--	--	--	--
26...	6.3	--	--	--	--	--	--
26...	6.4	--	--	--	--	--	--
26...	6.1	--	--	--	--	--	--
26...	6.5	--	--	--	--	--	--
26...	7.5	--	--	--	--	--	--
26...	7.6	--	--	--	--	--	--
26...	7.8	--	--	--	--	--	--
26...	8.2	--	--	--	--	--	--
DEC							
18...	12.0	--	--	--	19.2	4.00	22.6
18...	11.9	--	--	--	--	--	--
18...	11.5	--	--	--	--	--	--
18...	12.0	--	--	--	--	--	--
18...	12.3	--	--	--	58.2	4.20	64.2
JAN							
17...	13.2	--	--	--	--	--	--
17...	14.3	--	--	--	24.6	4.10	26.2
17...	13.4	--	--	--	--	--	--
17...	13.5	--	--	--	--	--	--
17...	13.4	--	--	--	--	--	--
17...	13.2	--	--	--	--	--	--
17...	13.2	--	--	--	24.0	3.80	25.5
17...	13.2	--	--	--	--	--	--

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	SAMPLE LOC- ATION, CDSS 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 CORR. (UG/L) (32209)	PHEOPHY- -TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JAN											
17...	1037	1.0	500	16000	8.6	4.3	--	12.9	--	--	--
17...	1118	30	10900	18000	8.4	4.3	--	11.3	--	--	--
17...	1119	20	10900	15500	8.7	4.5	--	13.3	--	--	--
17...	1120	37	10900	18500	8.3	4.5	108	10.7	25.8	6.90	28.8
17...	1121	15	10900	14500	8.7	4.3	--	13.5	--	--	--
17...	1122	10	10900	13500	8.7	4.3	--	13.8	--	--	--
17...	1123	8.0	10900	13000	8.8	4.3	--	13.9	--	--	--
17...	1124	5.0	10900	12500	8.8	4.3	--	14.0	--	--	--
17...	1125	3.0	10900	12500	8.8	4.3	--	14.2	24.0	4.40	25.8
17...	1126	1.0	10900	12500	8.8	4.3	--	14.2	--	--	--
FEB											
18...	1259	20	--	--	--	--	--	--	26.9	5.40	29.1
18...	1300	32	10900	18700	8.4	1.3	48.0	13.1	29.6	4.40	31.3
18...	1301	25	10900	18200	8.4	1.3	--	13.1	--	--	--
18...	1302	15	10900	17700	8.5	1.0	--	13.5	--	--	--
18...	1303	10	10900	17700	8.5	1.0	--	13.5	--	--	--
18...	1304	5.0	10900	16700	8.5	1.3	--	13.5	--	--	--
18...	1305	3.0	10900	16700	8.4	1.5	--	13.5	16.1	4.00	17.8
18...	1345	35	500	19200	8.4	1.3	54.0	13.3	31.7	6.20	34.3
18...	1346	25	500	19200	8.4	1.3	--	13.1	--	--	--
18...	1347	15	500	19200	8.4	1.3	--	13.3	27.1	3.80	28.5
18...	1348	10	500	19200	8.4	1.3	--	13.3	--	--	--
18...	1349	5.0	500	19200	8.4	1.5	--	13.3	--	--	--
18...	1350	3.0	500	18700	8.4	1.8	--	13.4	29.3	3.60	30.6
MAR											
17...	1120	34	10900	22600	7.8	4.0	48.0	11.7	32.4	5.80	34.7
17...	1121	26	10900	22000	7.8	4.2	--	11.9	--	--	--
17...	1122	16	10900	19600	8.0	5.2	--	12.3	16.9	1.80	17.5
17...	1123	10	10900	19500	8.0	5.3	--	12.3	--	--	--
17...	1125	3.0	10900	19600	8.0	5.3	--	12.4	15.6	3.60	17.1
17...	1205	30	500	22600	7.8	4.0	60.0	11.7	35.3	5.90	37.7
17...	1206	24	500	22600	7.8	3.9	--	11.6	36.7	8.80	40.5
17...	1207	16	500	22600	7.8	3.9	--	11.6	--	--	--
17...	1208	10	500	22500	7.8	4.0	--	11.7	17.3	3.70	18.8
17...	1210	3.0	500	20000	8.0	5.0	--	12.0	--	--	--
17...	1211	1.0	500	19700	8.0	5.2	--	12.4	16.0	3.50	17.0
20...	0845	3.0	500	--	--	--	--	--	16.9	3.10	18.1
20...	0846	6.0	500	--	--	--	--	--	15.2	3.50	16.8
20...	0847	10	500	--	--	--	--	--	18.9	3.10	20.2
20...	0848	13	500	--	--	--	--	--	20.3	3.90	21.9
20...	0849	19	500	--	--	--	--	--	18.0	3.30	19.4

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LINE (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) (IN)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLL A METRIC METHOD COAR. (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)
MAR	0850	29		500	--	--	--	--	--	26.2	7.90	29.7
	0851	39		500	--	--	--	--	--	31.2	4.60	33.0
	0852	50		500	--	--	--	--	--	38.5	7.00	41.3
APR	1655	3.0		500	11900	8.6	10.5	--	11.3	11.0	4.00	--
	1657	20		500	18400	8.4	8.4	--	11.0	--	--	--
	1659	40		500	21200	7.8	6.6	--	9.7	--	--	--
	1700	52		500	23600	7.6	6.2	78.0	9.0	38.0	5.00	39.8
	1720	3.0		10900	12400	8.7	10.3	--	12.2	37.6	4.40	39.2
	1723	20		10900	18100	8.3	8.1	--	10.9	--	--	--
	1725	37		10900	20200	7.9	7.0	66.0	9.6	15.4	1.80	16.1
	1505	3.0		10900	13900	8.2	13.6	72.0	11.2	33.4	6.70	36.2
	1507	12		10900	15400	7.9	11.2	--	10.3	--	--	--
	1510	24		10900	16400	7.9	10.9	--	9.9	20.2	2.50	21.1
	1540	3.0		500	14800	8.3	13.3	--	11.3	18.3	1.50	18.8
	1541	9.0		500	15000	8.2	13.0	--	11.2	--	--	--
	1542	15		500	16300	8.2	11.3	--	10.6	--	--	--
	1543	25		500	20200	7.3	8.2	--	8.1	--	--	--
	1544	40		500	21000	7.2	7.8	--	7.9	--	--	--
	1545	57		500	21600	7.2	7.7	78.0	7.8	29.0	4.80	31.0
	1215	60		500	19800	7.0	11.6	36.0	7.0	119	28.9	130
	1216	30		500	19300	7.6	12.2	--	8.2	62.9	4.90	64.4
	1219	15		500	16200	8.3	13.5	--	9.4	41.2	6.20	43.7
	1220	3.0		500	10800	9.2	16.8	--	12.1	75.0	10.0	78.8
	1240	32		10900	19200	7.2	11.8	37.0	7.3	67.6	12.1	72.5
	1242	8.0		10900	14700	8.3	13.9	--	9.7	54.0	7.80	57.0
	1244	10		10900	11200	9.0	15.1	--	11.5	43.3	7.00	46.1
	1245	3.0		10900	11000	9.2	16.9	--	12.3	70.0	5.00	71.4
MAY	1550	3.0		500	12300	8.7	16.4	--	10.1	107	7.00	109
	1552	15		500	17300	7.6	15.1	--	5.8	97.5	22.8	107
	1554	30		500	17300	7.6	14.8	--	5.2	80.4	13.4	85.7
	1555	60		500	20600	7.0	14.1	--	3.5	75.4	10.7	79.5
	1635	3.0		10900	8300	8.8	17.0	--	10.8	65.3	10.1	69.3
	1637	10		10900	8600	8.8	16.9	--	10.4	62.6	8.20	65.7
	1639	15		10900	10900	8.5	16.1	--	8.5	53.6	10.0	57.7
	1640	29		10900	23400	6.9	13.8	30.0	2.7	187	36.5	202
	1310	33		10900	24300	7.2	15.3	--	3.4	108	32.1	122
	1314	25		10900	15760	8.2	16.6	--	6.6	--	--	--
	1318	15		10900	17390	8.5	17.1	--	8.1	--	--	--
	1320	3.0		10900	10800	9.1	18.0	46.0	11.3	101	16.3	108

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
MAY											
12...	1350	59	500	29400	7.1	15.0	46.0	3.4	39.8	11.2	44.6
12...	1352	40	500	25800	7.0	14.9	--	2.9	--	--	--
12...	1355	30	500	19600	7.6	15.7	--	4.7	--	--	--
12...	1359	15	500	14600	8.3	16.7	--	7.0	--	--	--
12...	1400	3.0	500	11280	9.1	19.6	--	10.7	65.3	11.9	70.1
22...	1430	3.0	500	19700	8.8	18.6	--	--	43.9	9.00	47.7
22...	1431	9.0	500	15800	8.5	18.4	--	5.6	54.4	10.80	58.9
22...	1432	15	500	17500	8.2	17.6	--	3.7	41.1	9.80	45.3
22...	1433	30	500	21000	7.4	16.4	--	1.1	57.1	9.70	61.0
22...	1434	40	500	23100	7.1	15.6	--	.1	56.9	10.2	61.0
22...	1435	51	500	23900	7.1	15.3	48.0	.0	98.0	16.9	105
22...	1500	23	10900	15200	8.6	18.7	42.0	6.1	65.8	18.9	74.0
22...	1504	15	10900	14400	8.8	18.8	--	7.6	42.1	8.70	45.7
22...	1508	10	10800	14300	8.9	19.0	--	8.2	38.0	7.80	41.2
22...	1510	3.0	10900	13900	9.0	20.6	--	10.0	104	26.0	116
27...	1125	3.0	10800	9410	8.7	20.6	--	9.0	38.6	12.7	44.2
27...	1130	13	10900	12200	8.4	19.6	--	6.6	--	--	--
27...	1135	24	10800	18750	7.7	18.0	48.0	3.5	10.9	6.20	13.7
27...	1220	3.0	500	11860	8.4	20.0	--	7.5	9.80	5.60	12.4
27...	1225	25	500	19610	8.0	17.7	--	4.5	--	--	--
27...	1230	47	500	21700	7.0	16.3	--	1.3	61.0	8.00	64.0
JUN											
09...	1155	23	15900	19300	7.3	19.7	36.0	3.8	13.5	8.40	17.4
09...	1156	15	15900	16800	7.6	20.4	--	5.6	--	--	--
09...	1157	8.0	15900	15500	7.7	20.7	--	5.9	--	--	--
09...	1158	3.0	15900	14500	8.1	21.0	--	8.0	43.0	11.1	47.8
09...	1215	42	10800	24300	7.2	19.3	44.0	1.4	8.00	5.50	10.5
09...	1216	30	10900	21200	7.3	19.7	--	2.8	--	--	--
09...	1217	20	10900	20700	7.3	19.7	--	3.2	--	--	--
09...	1218	15	10900	19300	7.4	19.9	--	4.5	--	--	--
09...	1219	8.0	10900	18400	7.6	20.2	--	6.3	--	--	--
09...	1220	3.0	10800	18400	7.6	20.3	--	6.4	21.5	7.30	24.8
09...	1240	64	4500	27700	7.2	19.2	38.0	1.6	8.50	5.70	11.2
09...	1241	40	4500	24600	7.3	19.9	--	2.6	--	--	--
09...	1242	30	4500	20000	7.4	20.2	--	5.8	--	--	--
09...	1243	20	4500	18200	7.6	20.4	--	6.3	--	--	--
09...	1244	15	4500	17600	7.7	20.8	--	8.0	--	--	--
09...	1245	3.0	4500	15000	8.1	21.1	--	7.6	13.0	4.00	14.8
09...	1246	8.0	4500	15500	7.0	20.8	--	6.0	--	--	--
10...	1313	10	4500	16900	7.8	20.6	--	6.0	16.0	7.70	19.5

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMP- LOC- ATION, CRDSS SECTION (FT FM BANK)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCI DISK)	OXYGEN, DISSOLVED (MG/L)	CHLORO- PHYLLA FLUORO- METRIC CORREL (UG/L)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD (UG/L)
(00003)	(00009)	(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
JUN											
10...	1314	20	4500	18300	7.7	21.2	---	5.6	11.0	7.10	14.3
10...	1315	3.0	4500	16600	8.0	21.2	---	7.3	37.5	10.3	42.0
10...	1316	30	4500	20900	7.5	20.7	---	4.5	9.50	5.90	12.3
10...	1317	40	4500	22000	7.4	20.6	---	3.7	---	---	---
10...	1318	50	4500	23900	7.3	20.0	---	2.2	6.40	3.90	8.20
10...	1319	60	4500	25600	7.3	19.6	---	1.4	---	---	---
10...	1320	66	4500	26500	7.3	19.4	44.0	1.3	13.8	6.10	16.5
10...	1355	44	10800	22300	7.4	20.1	32.0	3.0	---	---	---
10...	1356	40	10800	22400	7.4	20.1	---	3.0	---	---	---
10...	1357	30	10800	19800	7.4	20.3	---	3.8	---	---	---
10...	1358	20	10800	18600	7.4	20.5	---	4.3	---	---	---
10...	1359	10	10800	17100	7.8	21.0	---	6.2	---	---	---
10...	1400	3.0	10800	16500	8.0	21.2	---	7.5	---	---	---
16...	1315	3.0	10800	17000	8.5	23.5	42.0	9.2	36.6	4.70	38.4
16...	1317	10	10800	17200	8.3	23.0	---	8.1	31.2	6.90	34.2
16...	1319	20	10800	17500	8.1	22.6	---	6.7	27.6	7.70	31.0
16...	1320	26	10800	20300	7.2	21.3	---	1.5	17.9	6.00	20.6
16...	1355	3.0	4500	17300	8.6	23.6	39.0	9.9	51.9	7.40	54.7
16...	1356	10	4500	17400	8.4	23.1	---	9.0	36.6	8.30	40.1
16...	1357	20	4500	19500	7.6	22.1	---	4.4	17.7	4.70	19.8
16...	1358	30	4500	20800	7.1	21.5	---	1.7	5.80	4.80	8.10
16...	1359	40	4500	22900	7.1	20.7	---	.3	---	---	---
16...	1400	72	4500	23500	7.1	20.3	---	.0	7.20	8.50	11.3
16...	1401	60	4500	23300	7.1	20.4	---	.0	---	---	---
JUL											
01...	0520	3.0	15900	17760	7.7	23.7	---	6.7	41.5	5.90	43.8
01...	0522	6.0	15900	17690	7.7	23.8	---	6.7	---	---	---
01...	0523	10	15900	17740	7.7	23.8	---	6.7	---	---	---
01...	0524	14	15900	17730	7.7	23.8	---	6.6	---	---	---
01...	0525	17	15900	18110	7.5	23.9	---	6.2	---	---	---
01...	0540	3.0	10800	18070	7.7	23.8	---	6.6	32.0	3.50	33.2
01...	0542	7.0	10800	18010	7.7	23.8	---	6.5	---	---	---
01...	0543	14	10800	18020	7.7	23.8	---	6.2	---	---	---
01...	0544	20	10800	---	7.6	24.0	---	5.8	---	---	---
01...	0545	25	10800	19320	7.5	23.8	---	5.2	16.0	4.10	17.8
01...	0620	3.0	4500	18600	7.7	23.5	---	6.2	27.5	3.40	28.8
01...	0625	43	4500	24000	6.7	21.9	---	.9	2.10	2.80	3.40
09...	1105	3.0	4500	---	---	---	---	---	11.0	7.80	14.7
09...	1110	55	4500	---	---	---	---	---	2.80	10.0	7.60
09...	1245	3.0	10800	---	---	---	---	---	15.5	7.70	19.0

## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	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											
09...	1250	26	10900	17800	8.3	28.8	---	7.2	4.60	9.40	9.10
22...	1250	3.0	10900	18600	8.2	28.2	---	5.9	15.7	4.50	17.7
22...	1252	10	10900	23100	6.9	25.4	---	4.3	11.2	4.70	13.3
22...	1254	20	10900	26300	6.9	24.5	66.0	.9	15.0	9.00	19.1
22...	1255	35	10900	19100	8.3	28.7	---	6.8	.900	1.50	1.60
22...	1320	3.0	4500	18100	8.3	28.5	---	6.6	11.1	3.50	12.6
22...	1321	10	4500	23200	7.0	25.8	---	1.3	10.9	3.00	12.2
22...	1322	20	4500	24300	6.9	24.8	---	.6	4.00	4.90	6.30
22...	1323	30	4500	26200	6.9	24.6	66.0	.9	1.30	3.00	2.80
22...	1325	63	4500	18600	7.9	27.8	---	6.9	.600	1.40	1.30
25...	1220	3.0	4500	19000	7.8	27.6	---	6.8	10.1	3.20	11.5
25...	1221	4.0	4500	20800	7.7	27.1	---	5.9	---	---	---
25...	1222	8.0	4500	20900	7.5	27.0	---	5.2	---	---	---
25...	1223	10	4500	21100	7.4	27.0	---	4.5	---	---	---
25...	1224	12	4500	21400	7.3	26.9	---	3.6	---	---	---
25...	1225	15	4500	22600	7.0	26.5	---	2.4	---	---	---
25...	1226	20	4500	24000	6.7	25.6	---	.9	---	---	---
25...	1227	23	4500	25200	6.6	25.0	---	.1	---	---	---
25...	1228	29	4500	27200	6.7	24.2	55.0	.1	2.90	3.10	4.40
25...	1230	54	4500	26600	6.7	24.4	---	.2	1.70	2.50	2.90
25...	1310	35	10900	24000	6.7	25.5	---	.1	---	---	---
25...	1311	20	10900	23100	6.7	25.9	---	.3	---	---	---
25...	1312	18	10900	19200	7.2	26.9	---	3.9	---	---	---
25...	1314	16	10900	18600	7.8	27.0	---	6.5	---	---	---
25...	1316	14	10900	18500	7.8	27.1	---	6.6	---	---	---
25...	1317	12	10900	18400	7.8	27.1	---	6.7	---	---	---
25...	1318	10	10900	18300	8.0	28.0	---	7.5	---	---	---
25...	1319	6.0	10900	17900	8.0	28.7	---	8.0	---	---	---
25...	1320	3.0	10900	19500	8.4	29.2	---	8.7	53.2	-.400	52.2
31...	1640	3.0	10900	19500	8.1	28.5	---	7.9	---	---	---
31...	1641	5.0	10900	19300	7.8	28.5	---	7.1	---	---	---
31...	1642	8.0	10900	19100	7.8	28.4	---	6.4	---	---	---
31...	1645	13	10900	19700	7.8	28.4	---	6.2	---	---	---
31...	1647	19	10900	21600	6.9	27.4	30.0	4.6	11.3	4.80	13.5
31...	1650	22	10900	20100	8.1	28.1	---	7.3	17.5	3.60	19.0
31...	1700	3.0	4500	20100	7.9	27.8	---	7.1	---	---	---
31...	1702	12	4500	20100	7.7	27.8	---	7.1	---	---	---
31...	1703	15	4500	20100	7.7	27.8	---	7.1	---	---	---
31...	1704	17	4500	20100	7.7	27.8	---	7.1	---	---	---

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCTI- 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. (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	1705	22	4500	21000	7.3	27.5	---	6.4	---	---	---
31...	1706	32	4500	22700	7.0	27.0	---	6.1	---	---	---
31...	1707	42	4500	23700	6.8	26.5	---	5.2	---	---	---
31...	1708	52	4500	23800	6.8	26.4	---	5.7	---	---	---
31...	1709	62	4500	24500	6.8	26.2	---	5.7	---	---	---
31...	1710	72	4500	24600	6.8	26.2	30.0	4.9	2.70	3.60	4.40
AUG	0820	29	10800	---	---	---	---	---	1.40	2.40	2.50
12...	0830	3.0	10800	---	---	---	---	---	13.4	5.00	15.6
12...	0840	57	4500	---	---	---	---	---	1.70	2.60	3.00
12...	0850	3.0	4500	---	---	---	---	---	12.0	4.50	14.0
14...	1500	41	10800	28100	6.9	26.7	---	.5	1.10	3.00	2.60
14...	1501	31	10800	26200	6.9	27.1	---	.5	---	---	---
14...	1502	21	10800	24600	6.9	28.0	---	.7	---	---	---
14...	1503	15	10800	22500	7.4	28.5	---	4.0	---	---	---
14...	1504	11	10800	21100	7.9	28.3	---	6.4	---	---	---
14...	1505	7.0	10800	20600	8.0	28.4	---	7.6	---	---	---
14...	1510	3.0	10800	20300	8.3	29.1	---	8.9	40.0	6.90	42.8
14...	1550	55	4500	28900	7.0	26.5	54.0	.6	4.30	14.3	11.2
14...	1551	45	4500	28800	6.9	26.5	---	.5	---	---	---
14...	1552	35	4500	27800	6.9	26.8	---	.5	---	---	---
14...	1553	25	4500	25700	6.9	27.4	---	.6	---	---	---
14...	1554	20	4500	23900	7.1	28.1	---	2.2	---	---	---
14...	1555	15	4500	23600	7.1	28.2	---	2.2	---	---	---
14...	1556	10	4500	23200	7.3	28.3	---	2.8	---	---	---
14...	1557	6.0	4500	22100	7.8	28.3	---	6.0	---	---	---
14...	1600	3.0	4500	21700	8.0	28.6	---	6.7	12.3	4.60	14.3
18...	1325	3.0	10900	22400	7.8	26.4	---	7.1	39.7	7.70	42.8
18...	1326	7.0	10800	22400	7.8	26.5	---	7.1	36.6	8.40	40.1
18...	1327	10	10900	22500	7.8	26.4	---	6.5	15.0	5.30	17.3
18...	1328	20	10800	24300	7.3	26.9	---	3.8	5.60	5.30	8.10
18...	1330	29	10900	25600	7.0	26.7	58.0	1.5	3.30	4.10	5.30
18...	1350	58	4500	30700	6.9	26.4	42.0	.0	1.10	1.40	1.80
18...	1351	40	4500	30300	6.9	26.4	---	.0	---	---	---
18...	1352	30	4500	26100	6.8	26.6	---	.5	5.70	3.60	7.40
18...	1353	20	4500	22300	7.9	26.4	---	7.4	12.6	6.80	15.7
18...	1354	10	4500	22200	7.9	26.4	---	7.6	19.4	5.60	21.8
18...	1355	3.0	4500	22200	8.0	26.5	---	7.8	24.0	8.40	27.8
18...	1356	7.0	4500	22200	7.9	26.5	---	7.7	20.0	4.80	22.0
29...	1030	3.0	4500	---	---	---	---	---	7.20	4.80	9.40

## APPENDIX D-2

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

## WATER QUALITY DATA- WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 (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											
29...	1040	52	4500	--	--	--	--	--	1.20	3.50	2.90
29...	1210	29	10800	--	--	--	--	--	5.70	5.40	8.30
29...	1220	3.0	10800	--	--	--	--	--	15.8	3.20	17.1
SEP											
02...	1330	3.0	4500	23600	8.2	27.5	--	7.7	4.80	3.00	6.20
02...	1332	10	4500	23600	8.3	27.1	--	7.5	--	--	--
02...	1333	20	4500	23600	8.2	27.0	--	6.8	--	--	--
02...	1334	25	4500	25000	7.8	26.5	--	4.1	--	--	--
02...	1336	30	4500	30800	7.2	25.2	--	.2	--	--	--
02...	1340	38	4500	31300	7.2	25.2	--	.1	--	--	--
02...	1425	34	10800	29600	7.1	25.6	78.0	.0	.800	2.30	1.90
02...	1426	25	10800	27800	7.1	25.5	--	.0	.800	2.60	2.00
02...	1427	22	10800	27100	7.1	26.0	--	.5	--	--	--
02...	1428	20	10800	23500	7.9	26.8	--	5.7	--	--	--
02...	1429	18	10800	23400	7.9	26.7	--	5.8	--	--	--
02...	1430	10	10800	23300	8.1	26.8	--	6.9	--	--	--
02...	1435	3.0	10800	23300	8.2	27.7	--	7.8	10.5	3.30	11.9
05...	1110	3.0	4500	24300	7.9	27.0	--	6.9	10.7	4.20	12.5
05...	1111	9.0	4500	24300	7.8	26.7	--	6.6	--	--	--
05...	1112	15	4500	24800	7.8	26.6	--	6.2	--	--	--
05...	1113	20	4500	24800	7.8	26.6	--	6.2	--	--	--
05...	1114	25	4500	24900	7.8	26.6	--	6.1	--	--	--
05...	1115	30	4500	25800	7.6	26.3	--	4.0	--	--	--
05...	1116	35	4500	27400	7.2	25.9	--	2.3	--	--	--
05...	1117	39	4500	30200	7.0	25.3	--	.7	--	--	--
05...	1118	43	4500	30500	6.9	25.2	--	.3	--	--	--
05...	1120	45	4500	30500	7.0	25.2	70.0	.4	2.80	3.20	4.20
05...	1135	35	10800	27200	7.0	26.0	58.0	.8	3.70	3.40	5.30
05...	1136	32	10800	27000	7.0	26.1	--	1.1	--	--	--
05...	1139	29	10800	25600	7.4	26.5	--	3.3	--	--	--
05...	1141	25	10800	24500	7.7	26.7	--	5.7	--	--	--
05...	1142	20	10800	24300	7.8	26.6	--	6.3	--	--	--
05...	1143	10	10800	24300	7.9	26.7	--	6.8	--	--	--
05...	1144	6.0	10800	24300	8.0	26.7	--	7.6	--	--	--
05...	1145	3.0	10800	24300	8.1	27.1	--	9.7	22.5	2.10	23.2
09...	1125	35	10800	29700	6.9	25.4	60.0	.2	1.20	3.40	2.80
09...	1126	28	10800	27700	7.2	26.2	--	1.8	--	--	--
09...	1127	24	10800	26400	7.4	26.4	--	2.8	--	--	--
09...	1128	20	10800	24900	7.7	26.3	--	5.6	--	--	--
09...	1130	15	10800	24200	7.8	26.5	--	6.7	--	--	--



## APPENDIX D-2

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- DEPTH (FT)	SAMP- LOC- TION, CROSS SECTION LING (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)
SEP											
09...	1133	10	10900	23900	7.9	26.5	---	7.2	---	---	---
09...	1135	3.0	10800	23400	7.9	26.5	---	7.3	15.2	4.00	16.9
09...	1145	3.0	4300	24200	7.9	26.6	---	7.1	3.40	2.40	4.60
09...	1146	10	4300	24400	7.9	26.4	---	7.0	---	---	---
09...	1147	15	4300	25700	7.5	26.2	---	4.0	---	---	---
09...	1148	20	4300	26200	7.4	26.2	---	3.4	---	---	---
09...	1149	25	4300	26400	7.3	26.2	---	2.9	---	---	---
09...	1150	30	4300	26900	7.1	26.1	---	1.7	---	---	---
09...	1151	35	4300	27900	7.0	25.9	---	.6	---	---	---
09...	1152	40	4300	29400	6.9	25.5	---	.2	---	---	---
09...	1153	45	4300	29600	6.9	25.5	---	.2	---	---	---
09...	1155	50	4300	31100	6.9	25.0	86.0	.2	1.00	1.60	1.80
11...	1145	3.0	10900	24300	7.7	25.3	---	6.6	9.10	2.90	10.4
11...	1147	8.0	10900	24500	7.7	25.2	---	6.2	---	---	---
11...	1149	15	10900	24700	7.6	25.2	---	5.8	---	---	---
11...	1151	22	10900	24800	7.5	25.3	---	5.4	---	---	---
11...	1153	25	10900	25300	7.3	25.5	---	3.7	---	---	---
11...	1155	28	10900	27300	7.0	25.5	72.0	1.9	1.90	2.70	3.20
11...	1215	58	4300	31100	6.9	25.2	96.0	.2	.800	2.10	1.80
11...	1216	50	4300	30700	6.8	25.2	---	.2	---	---	---
11...	1217	40	4300	29000	6.9	25.6	---	.2	---	---	---
11...	1218	30	4300	27000	7.1	25.6	---	1.9	---	---	---
11...	1219	25	4300	26400	7.3	25.5	---	3.1	---	---	---
11...	1220	20	4300	25900	7.3	25.4	---	3.7	---	---	---
11...	1221	15	4300	24900	7.5	25.3	---	4.9	---	---	---
11...	1222	10	4300	24800	7.6	25.4	---	5.3	---	---	---
11...	1225	3.0	4300	24400	7.7	25.5	---	6.4	6.50	2.50	7.60
15...	0850	3.0	4300	25300	7.9	25.4	---	7.1	11.0	2.60	12.1
15...	0851	8.0	4300	25300	7.9	25.4	---	7.0	---	---	---
15...	0852	15	4300	25400	7.8	25.4	---	6.1	---	---	---
15...	0853	20	4300	26700	7.2	25.2	---	2.0	---	---	---
15...	0854	25	4300	27400	6.9	25.2	---	.2	---	---	---
15...	0855	30	4300	28300	6.9	25.2	---	.1	---	---	---
15...	0856	40	4300	29500	6.9	25.1	---	.1	---	---	---
15...	0857	50	4300	30600	6.9	25.0	---	.1	---	---	---
15...	0858	60	4300	30600	6.9	25.0	---	.2	---	---	---
15...	0900	72	4300	30900	6.9	25.0	114	.3	.900	1.60	1.70
15...	0920	3.0	10900	25100	7.8	25.2	---	6.7	11.4	2.80	12.6
15...	0921	8.0	10800	25100	7.8	25.2	---	6.6	---	---	---

APPENDIX D-2

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

WATER QUALITY DATA. WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
SEP											
15...	0922	15	10900	25100	7.7	25.2	---	6.1	---	---	---
15...	0923	25	10900	25100	7.7	25.2	---	6.1	---	---	---
15...	0924	28	10800	26100	7.0	25.2	---	1.8	---	---	---
15...	0925	30	10900	26200	7.0	25.2	---	1.4	---	---	---
15...	0930	37	10800	27200	6.9	25.2	102	.5	2.40	2.90	3.70
18...	1030	3.0	4500	25400	7.8	25.0	---	7.1	14.1	4.90	16.3
18...	1031	10	4500	25900	7.7	24.8	---	5.6	14.2	4.00	15.9
18...	1032	20	4500	26800	7.6	24.8	---	5.9	15.7	4.40	17.6
18...	1033	35	4500	27800	7.3	24.9	---	3.1	5.70	2.40	6.80
18...	1034	45	4500	29100	6.9	25.0	---	.2	---	---	---
18...	1035	57	4500	30000	7.0	25.0	77.0	.1	1.20	1.50	1.90
18...	1105	3.0	10800	25000	7.8	25.0	---	6.6	11.8	3.80	13.5
18...	1107	10	10800	25100	7.7	24.9	---	6.3	10.3	3.80	11.9
18...	1109	20	10800	25200	7.7	24.9	---	6.2	8.00	3.10	9.30
18...	1110	29	10900	25500	7.6	24.8	84.0	5.2	4.40	5.70	7.20
25...	1334	66	4500	30000	6.8	24.6	74.0	1.3	---	---	---
25...	1335	50	4500	28800	6.8	24.5	---	1.3	---	---	---
25...	1336	40	4500	28600	6.8	24.5	---	1.5	---	---	---
25...	1337	30	4500	25800	7.3	24.2	---	5.5	---	---	---
25...	1338	20	4500	25600	7.4	24.3	---	5.7	---	---	---
25...	1339	10	4500	25600	7.4	24.3	---	6.0	---	---	---
25...	1342	3.0	4500	25600	7.5	24.5	---	6.4	20.0	3.90	21.6
25...	1400	36	10800	28600	6.9	24.5	63.0	2.0	6.80	3.00	8.20
25...	1401	30	10900	28500	6.9	24.5	---	2.2	---	---	---
25...	1402	25	10800	26500	7.2	24.3	---	4.7	---	---	---
25...	1403	20	10800	26500	7.2	24.3	---	4.7	---	---	---
25...	1404	10	10900	26300	7.1	24.2	---	4.2	---	---	---
25...	1405	3.0	10900	25600	7.5	24.4	---	6.6	28.9	8.00	32.4
25...	1406	5.0	10800	25500	7.4	24.3	---	5.9	---	---	---

380212076195000 - POTOMAC RIVER AT POINT LOOKOUT  
APPENDIX D-2

WATER QUALITY DATA YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING 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 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											
26...	0731	3.0	10500	15500	--	15.5	--	8.3	--	--	--
26...	0732	7.0	10500	15500	--	16.0	--	8.1	--	--	--
26...	0733	13	10500	16000	--	16.0	--	8.1	--	--	--
26...	0734	20	10500	17000	--	16.5	--	7.9	--	--	--
26...	0735	26	10500	20000	--	16.5	--	7.8	--	--	--
26...	0736	33	10500	20000	--	16.5	--	7.9	--	--	--
26...	0737	39	10500	20000	--	16.5	--	7.9	--	--	--
26...	0738	46	10500	21000	--	16.5	--	7.3	--	--	--
26...	0739	52	10500	21000	--	16.7	--	7.2	--	--	--
DEC											
18...	1055	30	24300	--	--	--	--	--	14.8	4.80	18.4
18...	1057	17	24300	14800	8.4	6.7	48.0	11.9	--	--	--
18...	1059	10	24300	15000	8.6	6.4	--	12.8	--	--	--
18...	1100	3.0	24300	15000	8.6	6.3	--	12.8	27.6	4.90	32.1
JAN											
17...	1400	45	4500	22000	8.3	4.5	78.0	12.6	28.2	3.90	29.7
17...	1401	30	4500	20000	8.4	4.3	--	12.8	--	--	--
17...	1402	20	4500	18000	8.5	4.3	--	13.4	--	--	--
17...	1403	15	4500	18000	8.5	4.3	--	13.4	--	--	--
17...	1404	10	4500	18000	8.5	4.3	--	13.4	--	--	--
17...	1405	3.0	4500	18500	8.5	4.3	--	13.6	28.2	5.20	30.3
17...	1406	1.0	4500	18000	8.5	4.3	--	13.7	--	--	--
17...	1407	5.0	4500	18000	8.5	4.3	--	13.6	--	--	--
17...	1408	8.0	4500	18000	8.5	4.3	--	13.4	--	--	--
17...	1500	27	24300	18500	8.4	4.5	78.0	13.4	24.6	6.00	27.2
17...	1501	20	24300	16000	8.6	4.3	--	14.0	--	--	--
17...	1502	15	24300	15000	8.7	4.0	--	14.2	--	--	--
17...	1503	10	24300	14000	8.8	4.0	--	14.2	--	--	--
17...	1504	8.0	24300	14000	8.8	4.0	--	14.2	--	--	--
17...	1505	3.0	24300	13500	8.8	4.3	--	14.4	23.1	2.20	23.8
17...	1506	5.0	24300	13500	8.8	4.3	--	14.4	--	--	--
17...	1507	1.0	24300	13500	8.8	4.5	--	14.2	--	--	--
FEB											
18...	1050	27	24300	18200	8.3	.8	48.0	13.3	31.6	5.90	34.0
18...	1051	20	24300	18200	8.4	.8	--	13.3	--	--	--
18...	1052	15	24300	18200	8.4	.8	--	13.3	--	--	--
18...	1053	10	24300	18200	8.5	1.0	--	13.5	--	--	--
18...	1054	5.0	24300	18200	8.5	1.3	--	13.6	--	--	--
18...	1055	3.0	24300	18200	8.5	1.3	--	13.6	31.2	5.50	33.4
18...	1150	40	4500	20300	8.4	1.0	--	13.5	30.5	8.50	34.2
18...	1151	30	4500	20300	8.4	1.0	--	13.2	--	--	--
18...	1152	20	4500	19700	8.4	1.0	--	13.1	31.9	3.30	33.1

## APPENDIX D-2

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

## WATER QUALITY DATA: WATER YEAR YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	CHLOR- PHYLL A FLUORO- METRIC CORR, (JG/L)	PHEOPHY -TIN A FLUORO- METRIC METHOD (UG/L)	CHLOR- PHYLL A FLUORO- METRIC METHOD UNCORR, (UG/L)
		(00003)	(00009)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
FEB											
18...	1153	15	4500	19700	8.4	1.0	--	13.1	21.5	4.20	23.2
18...	1154	10	4500	19700	8.4	1.0	--	13.1	30.8	4.90	32.7
18...	1155	3.0	4500	19200	8.5	1.0	--	13.3	32.4	4.70	34.2
18...	1156	5.0	4500	19700	8.5	1.0	--	13.3	--	--	--
MAR											
17...	0935	23	24300	23300	7.7	4.0	72.0	11.9	21.5	4.20	23.2
17...	0937	16	24300	22900	7.7	4.1	--	12.0	30.8	4.90	32.7
17...	0939	10	24300	22300	7.8	4.5	--	12.1	--	--	--
17...	0940	3.0	24300	21200	7.9	5.0	--	12.2	30.5	-1.30	29.4
17...	1010	30	4500	23500	7.8	4.3	72.0	11.5	22.7	1.40	23.0
17...	1011	16	4500	23000	7.8	4.5	--	12.4	--	--	--
17...	1012	10	4500	22700	7.8	4.4	--	12.4	22.8	2.90	23.9
17...	1015	3.0	4500	21600	7.9	4.7	--	12.4	16.1	1.90	16.6
APR											
24...	1415	3.0	4500	17800	8.6	14.6	--	10.5	31.8	6.50	34.5
24...	1416	15	4500	18200	8.4	13.6	--	10.3	33.4	3.00	34.3
24...	1419	30	4500	18500	8.4	13.4	--	9.8	31.9	4.10	33.4
24...	1420	50	4500	19800	7.7	12.5	84.0	8.3	86.9	6.90	89.0
24...	1435	26	24300	19800	8.1	13.0	60.0	9.0	54.8	3.80	55.9
24...	1437	15	24300	17900	8.5	14.5	--	10.1	24.3	2.50	28.1
24...	1440	3.0	24300	12700	9.0	15.9	--	11.2	39.6	2.40	40.2
MAY											
22...	1045	26	24300	17500	8.7	18.8	96.0	7.1	28.8	3.40	30.0
22...	1047	15	24300	16300	8.7	18.6	--	7.2	31.0	3.40	32.2
22...	1050	3.0	24300	16300	8.7	19.2	--	7.3	23.5	3.60	24.9
22...	1145	3.0	4500	18100	8.6	18.9	--	8.2	30.0	4.80	31.9
22...	1146	15	4500	18900	8.7	18.5	--	8.6	--	--	--
22...	1147	30	4500	19100	8.4	17.8	--	6.1	--	--	--
22...	1148	40	4500	20200	8.2	17.4	--	5.3	--	--	--
22...	1150	51	4500	23000	7.3	16.3	96.0	.6	98.6	10.7	102
JUN											
09...	1530	54	4500	24300	7.5	20.6	53.0	3.1	18.8	13.6	25.0
09...	1531	48	4500	23600	7.5	20.9	--	3.8	--	--	--
09...	1532	40	4500	21600	7.7	21.0	--	5.7	--	--	--
09...	1533	30	4500	19200	8.1	21.8	--	7.5	--	--	--
09...	1534	20	4500	18600	8.1	21.9	--	7.7	--	--	--
09...	1535	15	4500	18000	8.1	22.0	--	7.6	--	--	--
09...	1536	8.0	4500	17700	8.1	22.1	--	7.6	--	--	--
09...	1537	3.0	4500	17500	8.1	22.0	--	6.8	30.0	8.90	33.9
09...	1645	42	9600	22200	7.6	20.9	60.0	4.3	33.9	16.7	42.0
09...	1646	36	9600	19800	7.9	21.4	--	6.5	--	--	--
09...	1647	30	9600	19200	8.0	21.4	--	6.6	--	--	--
09...	1648	20	9600	16800	8.0	21.5	--	6.9	--	--	--

380212076195000 - POTOMAC RIVER AT POINT LOOKOUT -- Cont.

APPENDIX D-2

WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE 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) (00300)	CHLORO- PHYLLA FLUORO- METRIC CORR. (UG/L) (32209)	PHEOPHY- TIN A FLUORO- METRIC METHOD (UG/L) (32213)	CHLORO- PHYLLA FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)
JUN											
09...	1649	10	9600	16700	8.0	21.7	---	7.2	---	---	---
09...	1650	3.0	9500	16700	8.0	21.7	---	7.3	24.7	5.60	27.1
09...	1725	35	16900	20300	7.7	21.4	60.0	5.6	33.6	8.50	37.3
09...	1726	30	16900	20000	7.8	21.5	---	5.8	---	---	---
09...	1727	20	16800	17900	7.9	21.5	---	6.3	---	---	---
09...	1728	10	16800	17000	8.0	21.9	---	7.1	---	---	---
09...	1729	3.0	16800	17000	8.0	21.8	---	7.1	27.0	7.40	30.2
09...	1755	24	24300	19300	7.8	21.3	54.0	5.6	33.1	12.4	38.6
09...	1756	20	24300	17600	8.0	21.6	---	6.6	---	---	---
09...	1757	10	24300	17100	8.0	21.6	---	7.2	---	---	---
09...	1758	3.0	24300	17100	8.1	21.7	---	7.2	24.2	6.30	26.9
10...	1215	60	4500	25800	7.6	20.7	58.0	3.8	22.3	7.80	25.8
10...	1216	50	4500	25700	7.7	20.7	---	4.1	---	---	---
10...	1217	40	4500	23800	7.7	21.0	---	4.7	18.1	8.10	21.7
10...	1218	30	4500	20400	7.7	21.3	---	6.3	22.0	6.80	24.9
10...	1219	20	4500	19700	7.8	21.5	---	6.2	23.2	5.70	25.7
10...	1220	10	4500	18300	8.0	21.9	---	6.9	29.2	9.00	33.2
10...	1221	3.0	4500	17600	8.2	21.6	---	8.2	45.8	4.50	47.2
16...	1045	3.0	24300	18300	8.3	23.2	63.0	9.1	11.7	4.00	13.4
16...	1047	15	24300	18300	8.2	22.9	---	8.5	15.0	3.50	16.5
16...	1050	20	24300	18600	8.1	22.7	---	7.7	16.2	2.20	17.0
16...	1130	3.0	4500	20000	8.1	23.1	61.0	8.2	18.6	3.80	20.2
16...	1131	10	4500	20600	7.9	22.6	---	7.1	16.4	4.20	18.2
16...	1132	20	4500	21400	7.5	22.0	---	5.0	11.2	3.90	12.9
16...	1133	30	4500	21600	7.5	21.8	---	4.3	9.70	3.50	11.3
16...	1135	50	4500	23600	7.1	21.2	---	.7	5.80	3.90	7.60
JUL											
22...	1430	3.0	4500	20700	8.4	28.5	---	7.7	11.0	3.20	12.3
22...	1433	10	4500	21800	8.1	27.7	---	6.0	9.90	3.90	11.6
22...	1434	20	4500	25400	7.0	24.8	---	1.3	2.90	2.10	3.90
22...	1435	39	4500	27200	6.9	24.8	66.0	1.2	4.60	1.80	5.40
22...	1445	3.0	24300	20900	8.3	28.3	---	7.3	17.0	4.10	18.8
22...	1448	15	24300	21000	8.2	27.9	---	6.8	12.5	4.00	14.2
22...	1450	25	24300	25000	7.0	25.1	66.0	1.5	---	---	---
AUG											
18...	1045	3.0	24300	22400	7.9	26.4	---	6.8	14.1	5.60	16.7
18...	1046	7.0	24300	22400	7.9	26.4	---	6.7	13.6	5.60	16.1
18...	1048	10	24300	22500	7.9	26.4	---	6.6	16.4	4.80	18.5
18...	1049	15	24300	23200	7.7	26.8	---	5.0	7.30	4.50	9.40
18...	1050	23	24300	24200	7.6	26.7	72.0	4.7	4.40	3.80	6.10
18...	1125	3.0	4500	23400	7.9	26.6	---	7.0	17.8	3.40	19.2

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

APPENDIX D-2

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
AUG											
18...	1126	10	4500	23500	7.9	26.7	---	6.8	9.20	4.50	11.3
18...	1127	20	4500	27400	7.6	26.9	---	4.7	3.60	3.10	5.00
18...	1128	30	4500	28000	7.5	26.8	---	3.7	2.90	3.10	4.40
18...	1129	37	4500	28800	7.3	26.8	---	2.7	---	---	---
18...	1130	45	4500	31900	7.1	26.4	96.0	.2	1.30	2.00	2.30
SEP											
18...	1200	3.0	4500	28400	8.0	25.0	84.0	7.2	20.2	4.60	22.2
18...	1202	10	4500	28500	7.9	24.9	---	6.5	21.4	1.90	22.0
18...	1204	20	4500	29100	7.6	24.9	---	4.6	18.4	3.70	19.9
18...	1205	41	4500	31200	7.7	24.8	---	4.2	9.90	3.40	11.4
18...	1210	3.0	24300	29300	7.7	25.1	90.0	5.2	21.5	2.70	22.5
18...	1213	10	24300	28300	7.7	25.0	---	5.0	21.3	5.70	23.7
18...	1215	22	24300	28400	7.7	25.0	---	5.0	18.1	3.70	19.6

380200076153000 - CHESAPEAKEBAY NR POTOMAC RIVER OFF PT LOOKOUT  
 APPENDIX D-2  
 WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (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- PHYLLA FLUORO- METRIC CORR. (UG/L)	PHEOPHY- TINIA FLUORO- METRIC METHOD (UG/L)	CHLORO- PHYLLA FLUORO- METRIC METHOD (UG/L)
JAN										
17...	1703	30	22000	8.5	4.5	--	12.5	--	--	--
17...	1705	43	26000	9.3	4.8	57.0	11.6	37.8	6.10	40.2
17...	1706	20	20500	8.5	4.5	--	12.9	--	--	--
17...	1707	10	20000	8.6	4.5	--	13.6	--	--	--
17...	1708	8.0	19500	8.6	4.3	--	13.6	--	--	--
17...	1709	5.0	19500	8.6	4.3	--	13.7	--	--	--
17...	1710	3.0	19500	8.6	4.3	--	14.0	28.5	4.90	30.4
17...	1711	1.0	19500	8.6	4.5	--	14.2	--	--	--
FEB										
18...	0830	38	24700	8.4	1.3	60.0	13.2	33.3	4.80	35.1
18...	0831	30	20700	8.5	1.0	--	13.2	--	--	--
18...	0832	20	20200	8.5	1.0	--	13.3	--	--	--
18...	0833	15	20200	8.5	.8	--	13.5	--	--	--
18...	0834	10	20200	8.5	.8	--	13.5	--	--	--
18...	0835	3.0	20200	8.5	.8	--	13.1	31.8	3.70	33.2
18...	0836	5.0	20200	8.5	.8	--	13.6	--	--	--
MAR										
17...	0735	39	25400	7.7	3.4	72.0	12.1	26.2	4.10	27.8
17...	0736	33	25000	7.7	3.5	--	12.3	--	--	--
17...	0737	23	24300	7.7	3.7	--	12.6	26.0	3.60	27.4
17...	0738	10	23300	7.8	4.2	--	12.6	--	--	--
17...	0740	3.0	23300	7.8	4.2	--	12.6	19.3	1.60	19.8
APR										
25...	0645	37	23800	7.1	11.2	96.0	6.0	98.6	12.9	103
25...	0646	30	21300	7.9	12.3	--	8.6	59.0	4.90	60.5
25...	0647	20	19300	8.5	14.1	--	10.4	32.1	4.00	33.5
25...	0649	10	19300	8.5	14.6	--	10.2	28.6	2.70	29.5
25...	0650	3.0	17400	8.5	14.4	--	10.5	23.1	2.50	23.9
MAY										
22...	1215	3.0	19100	8.7	18.4	--	8.9	28.4	5.60	30.8
22...	1216	10	19200	8.7	18.0	--	8.8	--	--	--
22...	1217	20	19300	8.7	18.0	--	8.6	--	--	--
22...	1218	30	19400	8.6	18.1	--	8.4	--	--	--
22...	1220	39	22600	7.3	16.6	108	.9	35.7	4.70	37.5
JUN										
10...	1145	42	22900	7.6	20.5	58.0	4.9	24.2	9.70	28.5
10...	1146	30	21600	7.7	20.8	--	5.4	--	--	--
10...	1147	20	20100	8.1	21.4	--	7.1	31.6	8.50	35.3
10...	1148	10	19700	8.1	21.4	--	7.5	--	--	--
10...	1149	3.0	19600	8.2	21.4	--	8.2	32.9	6.30	35.5
16...	0845	3.0	20400	8.0	23.1	--	7.7	10.9	2.30	11.9
16...	0847	10	20400	7.9	22.8	--	7.5	--	--	--
16...	0848	20	21200	7.7	22.3	--	5.7	10.3	2.60	11.4
16...	0849	30	22500	7.6	21.8	--	4.2	--	--	--

APPENDIX D-2

380200076153000 - CHESAPEAKEBAY NR POTOMAC RIVER OFF PT LOOKOUT --- Cont.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SPEL CIFIC CON- DUCT- ANCE (UMHDS)	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. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)
JUN 16...	0850	37	24100	7.3	21.5	--	2.4	3.10	2.50	4.20
JUL 22...	1645	3.0	23100	7.9	27.4	--	7.1	12.9	3.90	14.6
22...	1647	10	23100	7.9	27.3	--	7.1	11.7	5.30	14.1
22...	1649	20	23100	7.8	26.9	--	5.9	11.0	3.60	12.6
22...	1650	37	26400	7.0	24.0	--	1.1	3.20	1.80	4.00
AUG 18...	0845	3.0	25300	7.9	26.6	--	7.0	4.80	3.30	6.40
18...	0847	10	25300	7.9	26.6	--	7.0	4.40	3.50	6.00
18...	0849	20	25800	7.9	26.7	--	6.9	6.60	3.20	8.00
18...	0850	36	28000	7.6	26.6	102	4.8	3.50	2.90	4.90
SEP 18...	1340	3.0	28700	8.2	25.1	--	8.5	25.2	1.40	25.5
18...	1342	10	28700	8.1	25.0	--	8.4	25.9	2.20	26.6
18...	1344	20	28800	8.1	24.9	--	7.6	18.3	2.80	19.4
18...	1345	33	31400	7.6	24.8	114	3.4	10.6	2.80	11.8



APPENDIX D-2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SPEL- CIFIC DUCT-- ANCEI (UMHOS)	PH	TEMPER- ATURE (DEG C)	TRANS- PAR- ENCY (SECCHI DISK)	OXYGEN, DIS- SOLVED (MG/L)	CHLORO- PHYLLI A FLUORO- METRIC METHOD CORR. (UG/L)	PHEOPHY- -TIN A FLUORO- METRIC METHOD UNCORR. (UG/L)	CHLORO- PHYLLI A FLUORO- METRIC METHOD UNCORR. (UG/L)
		(00003)	(00095)	(00400)	(00010)	(00077)	(00300)	(32209)	(32213)	(32217)
SEP	1410	3.0	29000	8.1	25.1	--	7.6	15.4	2.30	16.2
18...	1411	10	29100	8.0	24.9	--	7.2	12.4	2.60	13.5
18...	1412	20	29600	7.9	24.7	--	5.9	14.5	2.60	15.5
18...	1413	30	33300	7.3	24.9	--	1.3	3.30	1.80	4.20
18...	1414	50	36400	7.4	24.9	--	1.9	--	--	--
18...	1415	67	36800	7.5	25.0	113	2.7	1.30	1.30	1.90

APPENDIX D-2

375248076094200 - CHESAPEAKE BAY NR POTOMAC RIVER OFF/ SMITH POINT

WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	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										
18...	0914	59	--	8.3	8.5	40.0	11.1	--	--	--
18...	0915	79	--	--	--	--	--	9.00	14.8	17.7
18...	0916	43	--	8.3	7.6	--	12.1	--	--	--
18...	0917	33	--	8.3	7.6	--	12.3	--	--	--
18...	0918	16	--	8.4	7.3	--	12.5	--	--	--
18...	0919	10	--	8.3	7.2	--	12.1	--	--	--
18...	0920	3.0	17000	8.4	6.9	--	12.1	27.4	10.0	34.6
JAN										
17...	1603	55	30000	8.2	5.0	--	11.6	--	--	--
17...	1604	40	30000	8.2	5.0	--	11.6	--	--	--
17...	1606	30	27000	8.3	4.8	--	11.8	--	--	--
17...	1607	20	20000	8.6	4.5	--	13.3	--	--	--
17...	1608	10	19500	8.6	4.5	--	13.7	--	--	--
17...	1609	5.0	18000	8.7	4.5	--	13.8	--	--	--
17...	1610	3.0	18000	8.7	4.5	--	13.8	--	--	--
17...	1611	1.0	17500	8.7	4.5	--	13.8	--	--	--
FEB										
18...	0946	99	30700	8.3	1.3	60.0	11.2	--	--	--
18...	0947	80	30200	8.3	1.3	--	11.3	--	--	--
18...	0948	60	27200	8.4	1.3	--	11.9	--	--	--
18...	0949	50	26700	8.4	1.3	--	12.0	--	--	--
18...	0950	114	--	--	--	--	--	31.6	7.50	34.8
18...	0951	40	25700	8.4	1.0	--	12.2	--	--	--
18...	0952	30	24200	8.4	1.0	--	12.7	--	--	--
18...	0953	20	20700	8.5	.8	--	12.9	--	--	--
18...	0954	15	20700	8.5	.8	--	13.3	--	--	--
18...	0955	3.0	19200	8.5	.8	--	13.3	28.8	3.70	30.2
18...	0956	10	20200	8.5	.8	--	13.3	--	--	--
18...	0957	5.0	19700	8.5	.8	--	13.3	--	--	--
MAR										
17...	0835	101	33700	7.6	3.1	84.0	10.7	30.0	4.70	31.8
17...	0836	79	32700	7.6	3.2	--	10.8	--	--	--
17...	0837	49	25400	7.8	3.8	--	12.0	30.0	3.60	31.3
17...	0838	30	24200	7.8	4.3	--	12.3	--	--	--
17...	0839	16	23200	7.8	4.5	--	12.6	--	--	--
17...	0840	3.0	23900	7.8	4.5	--	12.6	20.9	2.80	22.0
17...	0841	10	23400	7.8	4.5	--	12.6	--	--	--
APR										
25...	0845	118	28600	8.1	12.3	78.0	8.3	62.5	13.0	67.9
25...	0846	74	27900	9.1	12.3	--	8.3	78.2	13.4	83.6
25...	0847	40	27100	8.0	12.2	--	8.1	62.2	12.3	67.3
25...	0848	20	19000	8.4	13.0	--	10.2	33.6	2.90	34.5
25...	0849	10	17700	8.6	13.8	--	10.4	29.5	3.60	30.8

## APPENDIX D-2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT) (00003)	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)
APR 25...	0850	3.0	17600	8.5	14.8	--	9.9	27.6	2.80	28.5
MAY 22...	0930	3.0	19400	8.6	18.6	--	7.5	24.9	2.60	25.8
22...	0931	10	19900	8.5	18.4	--	7.5	30.0	3.90	31.4
22...	0932	20	20500	8.5	18.3	--	7.3	30.6	5.40	32.8
22...	0933	40	23400	7.8	17.1	--	5.8	42.5	6.30	45.0
22...	0934	75	27400	7.4	16.5	--	5.1	12.4	11.0	17.6
22...	0935	100	28600	7.3	16.1	96.0	5.1	10.8	16.0	18.4
JUN 10...	1000	105	29200	7.6	20.2	68.0	2.8	7.00	4.50	9.00
10...	1001	80	27800	7.7	20.4	--	3.4	--	--	--
10...	1002	50	23600	7.9	21.0	--	5.4	--	--	--
10...	1003	40	22900	8.0	20.9	--	6.0	--	--	--
10...	1004	30	22300	8.1	20.9	--	6.5	--	--	--
10...	1005	20	21900	8.1	21.1	--	6.5	--	--	--
10...	1006	10	21000	8.1	21.2	--	6.9	--	--	--
10...	1007	3.0	19900	8.2	21.6	--	7.4	28.6	7.50	31.9
16...	0930	3.0	21600	8.0	23.1	75.0	7.4	13.8	2.40	14.8
16...	0931	10	21700	7.9	22.7	--	6.7	13.7	2.70	14.8
16...	0932	20	25500	7.6	21.9	--	3.5	7.40	3.50	8.90
16...	0933	30	25900	7.6	21.8	--	3.2	8.00	3.40	9.50
16...	0934	40	26300	7.6	21.8	--	2.9	--	--	--
16...	0935	90	27100	7.7	21.9	--	3.6	4.80	3.40	6.40
16...	0936	50	26500	7.5	21.7	--	2.6	3.70	3.20	5.20
16...	0937	80	27100	7.7	21.8	--	3.6	6.30	4.20	8.20
AUG 18...	0940	3.0	26400	7.8	26.5	--	6.4	10.7	3.90	12.4
18...	0941	10	26900	7.8	26.5	--	6.3	9.30	3.60	10.9
18...	0942	20	27300	7.8	26.6	--	6.1	7.70	3.70	9.40
18...	0943	30	28500	7.7	27.0	--	5.8	4.80	3.70	6.50
18...	0944	50	33600	7.3	26.9	--	1.8	1.20	1.50	1.90
18...	0945	107	35500	7.2	26.6	108	1.0	.900	1.00	1.40
18...	0946	75	35400	7.2	26.6	--	.9	--	--	--
SEP 18...	1300	3.0	29700	8.2	25.0	--	8.0	9.30	2.50	10.4
18...	1301	10	29700	8.2	24.9	--	7.9	10.4	2.40	11.4
18...	1302	20	31300	7.9	24.9	--	6.1	13.1	2.40	14.1
18...	1303	30	35400	7.6	25.0	--	3.6	3.80	2.30	4.90
18...	1304	50	36600	7.5	25.0	--	3.1	2.20	1.40	2.90
18...	1305	115	39600	7.6	25.1	108	3.1	1.60	1.90	2.50

**APPENDIX D-3.- Major cation and anion data**

APPENDIX D-3

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

WATER QUALITY DATA, WATER YEAR: OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC-	ATION, CROSS SECTION (FT FM L-BANK) (00009)	CALCIUM DIS- SOLVED AS CA (00915)	MAGNE- SIUM, DIS- SOLVED AS MG (00925)	SODIUM, DIS- SOLVED AS NA (00930)	POTAS- SIUM, DIS- SOLVED AS K (00935)	ALKA- LITY FIELD AS CAC03 (00410)	SULFATE DIS- SOLVED AS SO4 (00945)	CHLO- RIDE, DIS- SOLVED AS CL (00940)
JUN 02...	2000	1350	28	6.5	8.2	1.5	70	27	7.4	
SEP 29...	1100	1350	46	13	27	3.1	--	76	26	

DATE	TIME	SAMPLE LOC-	ATION, CROSS SECTION (FT FM L-BANK) (00009)	CALCIUM DIS- SOLVED AS CA (00915)	MAGNE- SIUM, DIS- SOLVED AS MG (00925)	SODIUM, DIS- SOLVED AS NA (00930)	POTAS- SIUM, DIS- SOLVED AS K (00935)	ALKA- LITY FIELD AS CAC03 (00410)	SULFATE DIS- SOLVED AS SO4 (00945)	CHLO- RIDE, DIS- SOLVED AS CL (00940)
JUN 02...	2000	1350	28	6.5	8.2	1.5	70	27	7.4	
SEP 29...	1100	1350	46	13	27	3.1	--	76	26	

DATE	TIME	SAMPLE LOC-	ATION, CROSS SECTION (FT FM L-BANK) (00009)	CALCIUM DIS- SOLVED AS CA (00915)	MAGNE- SIUM, DIS- SOLVED AS MG (00925)	SODIUM, DIS- SOLVED AS NA (00930)	POTAS- SIUM, DIS- SOLVED AS K (00935)	ALKA- LITY FIELD AS CAC03 (00410)	SULFATE DIS- SOLVED AS SO4 (00945)	CHLO- RIDE, DIS- SOLVED AS CL (00940)
JUN 02...	2000	1350	28	6.5	8.2	1.5	70	27	7.4	
SEP 29...	1100	1350	46	13	27	3.1	--	76	26	

DATE	TIME	SAMPLE LOC-	ATION, CROSS SECTION (FT FM L-BANK) (00009)	CALCIUM DIS- SOLVED AS CA (00915)	MAGNE- SIUM, DIS- SOLVED AS MG (00925)	SODIUM, DIS- SOLVED AS NA (00930)	POTAS- SIUM, DIS- SOLVED AS K (00935)	ALKA- LITY FIELD AS CAC03 (00410)	SULFATE DIS- SOLVED AS SO4 (00945)	CHLO- RIDE, DIS- SOLVED AS CL (00940)
JUN 02...	2000	1350	28	6.5	8.2	1.5	70	27	7.4	
SEP 29...	1100	1350	46	13	27	3.1	--	76	26	

385315077031800 - POTOMAC RIVER AT MEMORIAL BRIDGE

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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385039077012600 - POTOMAC RIVER AT GEISBORO POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE	LOC- ATION, CROSS SECTION, (FT FM LI BANK)	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- LINEITY FIELD (MG/L) AS CAC03) (00410)	SULFATE DIS- SOLVED (MG/L) AS S04) (00945)	CHLD- RIDE, DIS- SOLVED (MG/L) AS CLO) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)
AUG	05...	0700	50000	30	9.6	18	3.2	84	48	18	.3
07...	0800	50000	34	9.7	17	3.2	83	44	18	.3	
DATE	TIME	SILICA, DIS- SOLVED (MG/L) AS S102) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L) AS N) (00613)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N) (00613)	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 TOTAL (MG/L) AS N) (00623)	PHOS- PHORUS, TOTAL (MG/L) AS P) (00665)	
AUG	05...	5.8	186	.44	.100	.54	.310	.99	.75	1.3	.124
07...	0800	5.6	184	.45	.140	.59	.210	.41	.41	.62	.104
DATE	TIME	PHOS- PHORUS, DIS- SOLVED (MG/L) AS P) (00666)	IRON, DIS- SOLVED (JG/L) AS FE) (01046)	WANGA- NESE, DIS- SOLVED (UG/L) AS MN) (01055)	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 PHEOPHY- TIN A FLURO- METRIC METHOD UNCORR. (UG/L) (32213)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L) (32217)	ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	
AUG	05...	.042	10	6	4.8	2.9	19.1	21.3	29.2	.5	
07...	07...	.018	10	8	4.8	3.1	22.1	19.1	31.0	3.2	

APPENDIX D-3

01652590 - POTOMAC R. AT ALEXANDRIA, VA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC- TION, 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 FIELD AS CACO3 (00410)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F (00950)
JUN										
02...	1506	500	28	5.6	12	2.7	68	28	16	.2
02...	1512	3400	26	5.6	6.7	1.6	62	25	9.6	.1
AUG										
07...	0630	30000	31	9.3	19	3.8	73	54	25	.3
07...	0650	40000	25	9.1	18	3.7	58	52	23	.3
DATE										
JUN										
02...	7.5	172	145	.86	.030	.89	2.30	.70	3.30	3.0
02...	6.3	147	124	1.20	.020	1.2	.490	.14	.81	.63
AUG										
07...	5.6	--	197	.84	.260	1.1	.630	.24	.50	.87
07...	5.3	--	176	.72	.230	.95	.710	.25	.94	.96
DATE										
JUN										
02...										
02...										
AUG										
07...										
07...										
DATE										
JUN										
02...	.269	.183	10	--	--	--	27.5	7.50	30.8	--
02...	.140	.062	20	--	--	--	38.0	7.80	41.2	--
AUG										
07...	.125	.041	20	8	5.8	3.2	45.7	11.5	50.6	4.8
07...	.119	.039	20	70	5.2	3.1	16.8	10.2	21.6	1.6



APPENDIX D-3

384605077015800 - POTOMAC RIVER AT ROSIER BLUFF

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 FIELD (MG/L) AS CACO3) (00410)	SULFATE DIS- SOLVED (MG/L) AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	
AUG											
05...	0600	50000	27	9.2	19	3.7	71	48	20	.3	
07...	0640	50000	20	9.1	19	3.8	45	43	21	.3	

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) AS SiO2) (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)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- TOTAL (MG/L AS N) (00623)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)
AUG										
05...	5.5	179	.67	.150	.82	.740	.66	1.20	1.4	.162
07...	5.3	153	.71	.200	.91	.820	.18	1.10	1.0	.099

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L) AS P) (00666)		IRON, DIS- SOLVED (JG/L) AS FE) (01046)		MANGA- NESE, DIS- SOLVED (UG/L) AS MN) (01056)		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)		CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32213)		CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L) (32217)		ADE- NOSINE TRI- PHOS- PHATE (ATP) (UG/L) (70998)	
AUG																		
05...	.054	10	20	5.5	3.2	19.8	12.3	25.5'	1.7									
07...	.042	20	140	4.7	3.3	10.3	10.4	15.2	1.0									

APPENDIX D-3

384318077020300 - POTOMAC RIVER AT HATTON POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE		MAGNE-		POTAS-		ALKA-		SULFATE		CHLD-		FLUO-	
		LOC-	ATION,	CALCIUM	DIS-	SODIUM,	DIS-	SIUM,	LINEITY	FIELD	DIS-	RIDE,	DIS-	RIDE,	DIS-
		CROSS		SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L)	(MG/L)	SOLVED	SOLVED	SOLVED	(MG/L)	(MG/L)
		SECTION	(FT FM	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	AS	CAC03	AS S04	AS CL0	AS F)	(00950)	(00950)
		LI BANK)	AS CA)	AS MG)	AS NA)	AS K)	AS K)	AS K)	(00410)	(00945)	(00940)	(00940)	(00940)	(00940)	(00940)
		(00009)	(00915)	(00925)	(00930)	(00935)	(00935)	(00935)	(00410)	(00945)	(00940)	(00940)	(00940)	(00940)	(00940)
AUG	0645	5000	16	8.5	18	3.7	3.7	3.7	34	44	20	20	20	20	20
05...	0700	5000	14	8.5	17	3.6	3.6	3.6	27	43	21	21	21	21	21
07...															

DATE	TIME	SILICA,		NITRO-		NITRO-		NITRO-		NITRO-		NITRO-		NITRO-	
		DIS-	SOLVED	GEN,	NITRATE	GEN,	NITRITE	GEN,	NITRO-	GEN,	NITRO-	GEN,	NITRO-	GEN,	NITRO-
		(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)
		AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
		(00955)	(70301)	(00618)	(00613)	(00631)	(00608)	(00607)	(00625)	(00623)	(00665)	(00665)	(00665)	(00665)	(00665)
AUG	4.7	140	.78	.160	.94	.810	.49	1.20	1.3	1.3	.092	.092	.092	.092	.092
05...	4.7	134	1.10	.180	1.3	.760	.64	1.40	1.4	1.4	.125	.125	.125	.125	.125
07...															

DATE	TIME	PHOS-		IRON,		MANGA-		CARBON,		CHLORO-		CHLORO-		ADE-	
		PHOSUS,	DIS-	DIS-	SOLVED	DIS-	DIS-	ORGANIC	DIS-	PHYLL A	PHYLL A	PHYLL A	PHYLL A	PHYLL A	PHYLL A
		(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)
		AS P)	AS P)	AS P)	AS P)	AS P)	AS P)	AS P)	AS P)	AS P)	AS P)	AS P)	AS P)	AS P)	AS P)
		(00666)	(01046)	(01056)	(00680)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)
AUG	05...	.026	20	160	3.9	3.6	17.0	11.6	22.4	22.4	22.4	22.4	22.4	22.4	22.4
07...	07...	.035	20	200	5.0	3.5	11.9	12.2	17.6	17.6	17.6	17.6	17.6	17.6	17.6

APPENDIX D-3

384136077054600 - POTDMAC RIVER AT MARSHALL HALL

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE LOC-	SECTION (FIT FM L BANK)	CALCIUM DIS-	MAGNE- SIUM, DIS-	SODIUM, DIS-	POTAS- SIUM, DIS-	ALKA- LITY FIELD	SULFATE DIS-	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-
				SOLVED (MG/L) AS CA	SOLVED (MG/L) AS MG	SOLVED (MG/L) AS NA	SOLVED (MG/L) AS K	(MG/L) AS CAC03	SOLVED (MG/L) AS S04	SOLVED (MG/L) AS CL	SOLVED (MG/L) AS F
				(00915)	(00925)	(00930)	(00935)	(00410)	(00945)	(00940)	(00950)
AUG											
05...	0740	50000	13	13	9.3	17	3.6	26	43	20	.3
07...	0720	50000	13	13	8.3	17	3.5	24	41	20	.3

DATE	SILICA, DIS-	SOLIDS, SUM OF CONSTI-	NITRO- GEN, DIS-	NITRO- GEN, DIS-	NITRO- GEN, DIS-	NITRO- GEN, DIS-	NITRO- GEN, DIS-	NITRO- GEN, DIS-	NITRO- GEN, DIS-	NITRO- GEN, DIS-	PHOS- PHORUS, TOTAL
			NITRATE DIS-	NITRO- GEN, DIS-	NITRO- GEN, DIS-	NITRO- GEN, DIS-	NITRO- GEN, DIS-	NITRO- GEN, DIS-	NITRO- GEN, DIS-	NITRO- GEN, DIS-	PHOS- PHORUS, TOTAL
			SOLVED (MG/L) AS N	SOLVED (MG/L) AS N	SOLVED (MG/L) AS N	SOLVED (MG/L) AS N	SOLVED (MG/L) AS N	SOLVED (MG/L) AS N	SOLVED (MG/L) AS N	SOLVED (MG/L) AS N	PHOS- PHORUS, TOTAL
			(00518)	(00613)	(00631)	(00608)	(00607)	(00625)	(00623)	(00665)	
AUG											
05...	3.8	129	.91	.190	1.0	.540	.46	.78	1.0	.116	
07...	3.4	125	.75	.190	.94	.330	.36	1.00	.69	.123	

DATE	PHOS- PHORUS, DIS-	IRON, DIS-	MANGA- NESE, DIS-	CARBON, ORGANIC, DIS-	CARBON, ORGANIC, DIS-	CHLORO- PHYLL A FLUORO- METRIC	CHLORO- PHYLL A PHEOPHY -TIN A FLUORO- METRIC	CHLORO- PHYLL A FLUORO- METRIC	CHLORO- PHYLL A FLUORO- METRIC	CHLORO- PHYLL A FLUORO- METRIC	CHLORO- PHYLL A FLUORO- METRIC
			SOLVED (MG/L) AS FE	SOLVED (MG/L) AS C	SOLVED (MG/L) AS C	SOLVED (MG/L) AS C	SOLVED (MG/L) AS C	SOLVED (MG/L) AS C	SOLVED (MG/L) AS C	SOLVED (MG/L) AS C	SOLVED (MG/L) AS C
			(01046)	(01056)	(00680)	(00681)	(00681)	(00681)	(00681)	(00681)	(00681)
AUG											
05...	.016	20	150	6.2	3.9	3.7	14.2	49.8	1.8	4.1	
07...	.018	20	150	4.8	3.7	3.7	14.2	49.8	1.8	4.1	

APPENDIX D-3

383818077072800 - POTOMAC RIVER AT HALLOWING POINT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLE									
		LOC- ATION, CROSS SECTION/ (FT FM LI BANK) (00009)	CALCIUM DIS- SOLVED (MG/LI AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/LI AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY FIELD (MG/LI AS CACO3) (00410)	SULFATE/ DIS- SOLVED (MG/L AS SO4) (00945)	CHLD- RIDE, DIS- SOLVED (MG/LI AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	
AUG	0820	50000	17	8.0	17	3.4	32	43	20	.3	
05...	0800	50000	18	7.9	16	3.3	33	40	20	.4	
07...											

DATE	TIME	SAMPLE									
		SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L AS SiO2) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/LI 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)	VITRO- 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)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)
AUG	1.7	133	.56	.150	.71	.100	.44	.62	.54	.136	
05...	1.3	130	.50	.150	.65	.170	.61	1.50	.78	.191	
07...											

DATE	PHOS- PHORUS		IRON		MANGA- NESE		CARBON		CHLORO		CHLORO		ADE- NOSINE TRI- PHOS- PHATE (ATP)	
	SOLVED (MG/LI AS P)	SOLVED (UG/L AS FE)	SOLVED (UG/LI AS FE)	SOLVED (UG/LI AS MN)	SOLVED (UG/LI AS MN)	SOLVED (UG/LI AS MN)	TOTAL (MG/L AS C)	DIS- SOLVED (MG/L AS C)	PHYLL A FLUORO- METRIC METHOD (UG/L)	PHYLL A FLUORO- METRIC METHOD (UG/L)	PHYLL A FLUORO- METRIC METHOD (UG/L)	PHYLL A FLUORO- METRIC METHOD (UG/L)	PHYLL A FLUORO- METRIC METHOD (UG/L)	
	(00666)	(01046)		(01056)		(00680)		(00681)	(32209)	(32213)	(32217)	(70998)		

## APPENDIX D-3

## 01658710 - POTOMAC RIVER AT QUANTICO, VA.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SAMPLE		MAGNE-		SODIUM,		POTAS-		ALKA-		SULFATE		CHLO-
LOC-		SIUM,		DIS-		SIUM,		LITY		DIS-		RIDE,
CROSS		DIS-		SOLVED		DIS-		FIELD		SOLVED		DIS-
SECTION		SOLVED		(MG/L)		SOLVED		(MG/L)		(MG/L)		SOLVED
(FT FM		(MG/L)		AS MG)		AS NA)		AS K)		AS S04)		(MG/L)
L-BANK)		(00915)		(00925)		(00930)		(00935)		(00945)		(00940)
(00009)												
DATE	TIME	CALCIUM	MAGNE-	SODIUM,	POTAS-	ALKA-	SULFATE	CHLO-				
		DIS-	SIUM,	DIS-	SIUM,	LITY	DIS-	RIDE,				
		SOLVED	SOLVED	SOLVED	SOLVED	(MG/L)	SOLVED	DIS-				
		(MG/L)	(MG/L)	(MG/L)	(MG/L)	AS	(MG/L)	DIS-				
		AS CA)	AS MG)	AS NA)	AS K)	CAC03)	AS S04)	DIS-				
		(00915)	(00925)	(00930)	(00935)	(00410)	(00945)	DIS-				
								DIS-				
JUN	1700	22	5.1	6.1	1.8	47	23	DIS-				
05...								DIS-				
JUL	0650	26	8.4	23	3.1	67	41	DIS-				
22...								DIS-				
								DIS-				
DATE		SOLIDS,	SOLIDS,	NITRO-	NITRO-	NITRO-	NITRO-	NITRO-				
		RESIDUE	SUM OF	GEN,	GEN,	GEN,	GEN,	GEN,				
		AT 180	CONSTITUENTS,	NITRATE	NITRATE	NO2+NO3	AMMONIA	ORGANIC				
		DEG. C	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-				
		SOLVED	(MG/L)	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED				
		(MG/L)	AS	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)				
		AS F)	SI02)	AS N)	AS N)	AS N)	AS N)	AS N)				
		(00950)	(00955)	(00618)	(00613)	(00631)	(00608)	(00607)				
JUN	.1	130	108	1.90	.050	1.9	.180	.33				
05...												
JUL	.2	202	176	.42	.150	.57	.070	.25				
22...												
DATE		PHOS-	PHOS-	IRON,	CARBON,	CHLORO-	PHENOPLY	CHLORO-				
		PHORUS,	PHORUS,	DIS-	ORGANIC,	PHYLL A	-TIN A	PHYLL A				
		SOLVED	SOLVED	SOLVED	TOTAL	FLUORO-	FLUORO-	FLUORO-				
		(MG/L)	(MG/L)	(UG/L)	(MG/L)	METRIC	METRIC	METRIC				
		AS P)	AS P)	AS FE)	AS C)	METHOD	METHOD	METHOD				
		(00665)	(00666)	(01046)	(00680)	(32209)	(32213)	(32217)				
JUN	.50	.108	.171	40	---	39.0	23.8	50.0				
05...												
JUL	.32	.030	.138	0	8.5	47.1	43.8	67.7				
22...												

APPENDIX D-3

382233077102000 - POTOMAC RIVER AT STUART WHARF

WATER QUALITY DATA. WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE		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- LITY FIELD AS CAC03 (00410)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)
			LOC- ATION, CROSS SECTION (FT F4) LI BANK	TIME						
AUG 18...	1755	3.0	3600		76	170	1500	60	65	410
18...	1800	23	3600		100	290	2500	100	70	670
DATE		CHLO- RIDE, DIS- SOLVED (MG/L) AS CL	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) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	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
AUG 18...	2500		.3		5400	4760	.26	.020	.28	.050
18...	4000		.4		8670	7710	.15	.020	.17	.190
DATE		NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) AS N	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N	VITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N	PHOS- PHORUS, TOTAL (MG/L) AS P	PHOS- PHORUS, DIS- SOLVED (MG/L) AS P	IRON, DIS- SOLVED (MG/L) AS FE	CHLORO- PHYLL A FLURO- METRIC CORR. (UG/L)	PHEOPHY- -TIN A FLURO- METRIC METHOD (UG/L)	CHLORO- PHYLL A FLURO- METRIC METHOD UNCORR. (UG/L)
AUG 18...	.28		.47		.123	.061	30	27.3	4.80	29.2
18...	.30		.48		.137	.064	30	7.40	9.20	11.7

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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## APPENDIX D-3

## 01561475 - POTOMAC R AT PINEY POINT, MD

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOC-		MAGNE-		SODIUM,		POTAS-		ALKA-		SULFATE		CHLO-	
			ATION,	CALCIUM	SIUM,	DIS-	DIS-	DIS-	SIUM,	SIUM,	LINITY	FIELD	DIS-	DIS-	RIDE,	RIDE,
DATE	TIME	SAMP- LING DEPTH (FT)	CROSS SECTION (FIT FM)	(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)
			(L BANK)	AS CA)	AS MG)	AS NA)	AS K)	CAC03)	(00935)	(00410)	(00945)	(00940)	(00940)	(00940)	(00940)	(00940)
JUL																
22...	1320	3.0	4500	150	520	4800	190	71	930	8900						
22...	1325	63	4500	140	470	4700	180	70	890	8300						
AUG																
18...	1350	58	4500	200	610	5600	230	82	1400	9800						
18...	1355	3.0	4500	150	430	4000	160	75	950	7000						
DATE	TIME	SAMP- LING DEPTH (FT)	SOLIDS,		NITRO-		NITRO-		NITRO-		NITRO-		NITRO-		NITRO-	
			RESIDUE	SUM OF	GEN,	GEN,	GEN,	GEN,	GEN,	GEN,	GEN,	GEN,	GEN,	GEN,	GEN,	GEN,
DATE	TIME	SAMP- LING DEPTH (FT)	AT 180	CONSTITUENTS,	NITRATE	NITRITE	NITROGEN	NITROGEN	NITROGEN	NITROGEN	NITROGEN	NITROGEN	NITROGEN	NITROGEN	NITROGEN	NITROGEN
			DEG. C	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-
DATE	TIME	SAMP- LING DEPTH (FT)	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED
			(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)
JUL																
22...	18...	5	1.2	16600	15500	0.4	0.00	0.04	0.00	0.04	0.260	0.13	0.13	0.27	0.15	0.25
22...	18...	4	1.4	11700	12700	0.12	0.010	0.13	0.010	0.13	0.180	0.27	0.27	0.27	0.27	0.27
AUG																
18...	18...	6	2.9	20400	17900	0.17	0.020	0.19	0.020	0.19	0.450	0.15	0.15	0.25	0.15	0.25
18...	18...	5	2.8	14200	12700	0.05	0.000	0.05	0.000	0.05	0.060	0.25	0.25	0.25	0.25	0.25
DATE	TIME	SAMP- LING DEPTH (FT)	SOLIDS,		NITRO-		NITRO-		NITRO-		NITRO-		NITRO-		NITRO-	
			RESIDUE	SUM OF	GEN,	GEN,	GEN,	GEN,	GEN,	GEN,	GEN,	GEN,	GEN,	GEN,	GEN,	GEN,
DATE	TIME	SAMP- LING DEPTH (FT)	AT 180	CONSTITUENTS,	NITRATE	NITRITE	NITROGEN	NITROGEN	NITROGEN	NITROGEN	NITROGEN	NITROGEN	NITROGEN	NITROGEN	NITROGEN	NITROGEN
			DEG. C	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-
DATE	TIME	SAMP- LING DEPTH (FT)	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED
			(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)
JUL																
22...	22...	53	0.39	0.46	0.025	0	5.7	11.1	3.50	12.6	1.30	1.30	1.30	1.30	1.30	1.30
22...	22...	48	0.45	0.12	0.050	0	13	6.00	1.40	1.30	1.30	1.30	1.30	1.30	1.30	1.30
AUG																
18...	18...	46	0.60	0.97	0.066	130	---	1.10	1.40	1.80	1.80	1.80	1.80	1.80	1.80	1.80
18...	18...	40	0.31	0.50	0.022	40	---	24.0	9.40	27.8	27.8	27.8	27.8	27.8	27.8	27.8



APPENDIX D-3

380212076195000 - POTOMAC RIVER AT POINT LOOKOUT

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMP- LING DEPTH (FT)	SAMPLE LOCATION									
			LOC- ATION	CALCIUM DIS- SOLVED (MG/L)	MAGNE- SIUM, DIS- SOLVED (MG/L)	SODIUM, DIS- SOLVED (MG/L)	POTAS- SIUM, DIS- SOLVED (MG/L)	ALKA- LITY FIELD (MG/L)	SULFATE DIS- SOLVED (MG/L)	CHLO- RIDE, DIS- SOLVED (MG/L)		
			SECTION (FT FM L BANK)	AS CA)	AS MG)	AS NA)	AS K)	CAC03)	AS S04)	AS CL)		
		(00003)	(00009)	(00915)	(00925)	(00930)	(00935)	(00410)	(00945)	(00940)		

JUL		3.0	4500	120	360	3700	150	68	850	7100
22...	1430									
22...	1435	39	4500	130	440	1000	170	73	910	5400
AUG										
18...	1125	3.0	4500	160	480	4200	170	75	1100	7500
18...	1130	45	4500	180	630	5000	200	79	1300	8800

DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L)	SILICA, DIS- SOLVED (MG/L)	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)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L)
		AS F)	AS I02)	(MG/L)	(70300)	(70301)	(00618)	(00613)	(00607)
		(00950)	(00955)	(00955)	(00955)	(00955)	(00955)	(00955)	(00955)

JUL		1.0	13000	12300	.05	.010	.06	.050	.24
22...	1430								
22...	1435	.9	14200	8100	.04	.010	.05	.130	.00
AUG									
18...	1125	2.1	15100	13700	.02	.000	.02	.000	.29
18...	1130	1.7	18000	16200	.01	.010	.02	.100	.24

DATE	TIME	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L)	PHOS- PHORUS, TOTAL (MG/L)	PHOS- PHORUS, DIS- SOLVED (MG/L)	IRON, DIS- SOLVED (MG/L)	CARBON, ORGANIC TOTAL (MG/L)	CHLORO- PHYLL A FLUORO- METRIC CORR. (UG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD UNCORR. (UG/L)
		AS N)	AS N)	AS P)	AS P)	AS FE)	AS C)	(32213)	(32217)
		(00625)	(00623)	(00665)	(00666)	(01046)	(00680)	(32209)	(32217)

JUL		.52	.29	.011	.034	0	5.2	11.0	3.20	12.3
22...	1430									
22...	1435	.34	.12	.002	.047	0	6.1	4.60	1.80	5.40
AUG										
18...	1125	.17	.29	.039	.006	60	---	17.8	3.40	19.2
18...	1130	.14	.34	.037	.017	50	---	1.30	2.00	2.30

#### APPENDIX D-4.- Solar radiation data

01652590 - POTOMAC R AT ALEXANDRIA, VA.  
 APPENDIX D-4  
 WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LIGHT INCID. 400- 700NM TOTAL (CALV SQ CM) (00201)	DATE	LIGHT INCID. 400- 700NM TOTAL (CALV SQ CM) (00201)
JUN 19...	598	AUG 28...	440
20...	682	29...	402
21...	638	30...	500
22...	666	31...	443
23...	638	SEP 01...	465
JUL 31...	484	02...	476
AUG 01...	374	03...	468
02...	517	04...	377
03...	514	05...	352
04...	509	06...	432
05...	432	07...	487
06...	522	08...	492
07...	564	09...	451
08...	580	10...	407
09...	377	11...	522
10...	404	12...	487
11...	520	13...	473
12...	341	14...	344
13...	490	15...	360
14...	542	17...	346
15...	148	18...	212
16...	586	19...	390
17...	456	20...	289
18...	182	21...	349
19...	209	22...	390
20...	289	23...	198
21...	187	24...	140
22...	258	25...	58
23...	319	26...	451
24...	484	27...	432
25...	481	28...	382
26...	434	29...	374
27...	492	30...	126

01655480 - POTOMAC R AT INDIAN HEAD, MD  
 APPENDIX D-4  
 WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LIGHT INCID. 400- 700NM TOTAL (CALV SQ CM) (00201)	DATE	LIGHT INCID. 400- 700NM TOTAL (CALV SQ CM) (00201)
JUN		JUL	
17...	746	19...	500
18...	536	20...	514
19...	679	21...	484
20...	740	22...	412
21...	575	23...	157
27...	470	24...	495
28...	530	25...	533
29...	443	26...	473
30...	451	27...	456
JUL		28...	360
01...	613	29...	162
02...	602	30...	459
03...	176	31...	432
04...	539	AUG	
05...	443	01...	333
06...	654	02...	465
07...	644	03...	459
09...	551	SEP	
10...	205	24...	91
11...	544	25...	44
12...	366	26...	448
13...	591	27...	468
14...	578	28...	380
15...	594	29...	434
16...	517	30...	132
17...	327		
18...	525		