WATER QUALITY DATA FOR SELECTED STREAMS TRIBUTARY TO THE TIDAL POTOMAC RIVER AND ESTUARY, MARYLAND AND VIRGINIA, 1979-81 WATER YEARS

By R. E. Hickman

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM OF UNITS (SI)

For the convenience of readers who may want to use International System of Units (SI), the data may be converted by using the following factors.

Multiply inch-pound units	By	To obtain SI units
	Area	
square mile (mi^2)	2.590	square kilometer (km^2)
	Flow	
cubic foot per second (ft^3/s)	0.02832	cubic meter per second (m^3/s)

Temperature

Temperature in degrees Celcius (°C) can be converted to degrees Farenheit (°F) as follows:

$$°F = (1.8 \times °C) + 32$$

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ABSTRACT

This report contains observations of the physical, chemical, and biological water quality of five streams draining to the tidal Potomac River and Estuary during the 1979-81 water years. The streams sampled are Rock Creek, the Northwest and Northeast Branches of the Anacostia River, the Occoquan River, and St. Clements Creek. Samples, usually collected during storms, were routinely analyzed for sediment, biochemical oxygen demand, dissolved silica, and the total and dissolved forms of phosphorus and of nitrogen species. Additional analyses for specific conductance, chlorophyll-a, and phytoplankton abundance and generic composition were done on a few samples taken during the 1980 water year. Observations of water temperature were made during the same period. Selected measurements of the turbidity of the raw water intake for the Occoquan Water Treatment Plant also are included.

INTRODUCTION

Samples of the flow of five streams tributary to the tidal Potomac River and Estuary were collected during the 1979-81 water years. The sampled streams are Rock Creek, the Northeast and Northwest Branches of the Anacostia River, Occoquan River, and St. Clements Creek. The purpose of this sampling program was to provide information so that the loads of sediment and nutrients discharged to the tidal Potomac River and Estuary from local tributary watersheds could be calculated. The tidal Potomac River and Estuary is the tidally-affected portion of the Potomac River and extends from Chain Bridge in Washington, D.C. to the Chesapeake Bay (fig. 1). The local watersheds are those directly tributary to this reach. The sampled streams and the sampling stations are shown in figure 1 and listed in table 1. Except for the Occoquan River, the sampling stations are located at U.S. Geological Survey gaging stations.

This sampling program is part of an interdisciplinary study of the tidal Potomac River and Estuary conducted by the U.S. Geological Survey. The effort to calculate the loads from the local tributary watersheds is most closely associated with the parts of the interdisciplinary study dealing with the determination of: 1) the amounts of sediment and nutrients entering the tidal Potomac River and Estuary, and 2) the movement of sediment and nutrients through the tidal river and estuary and their effect upon water quality.

Most stream samples taken during the 1979-81 water years were analyzed for a number of physical and chemical parameters; additional biological analyses were conducted upon samples taken during the 1980 water year. The physical and chemical properties are given in Appendix B and include flow

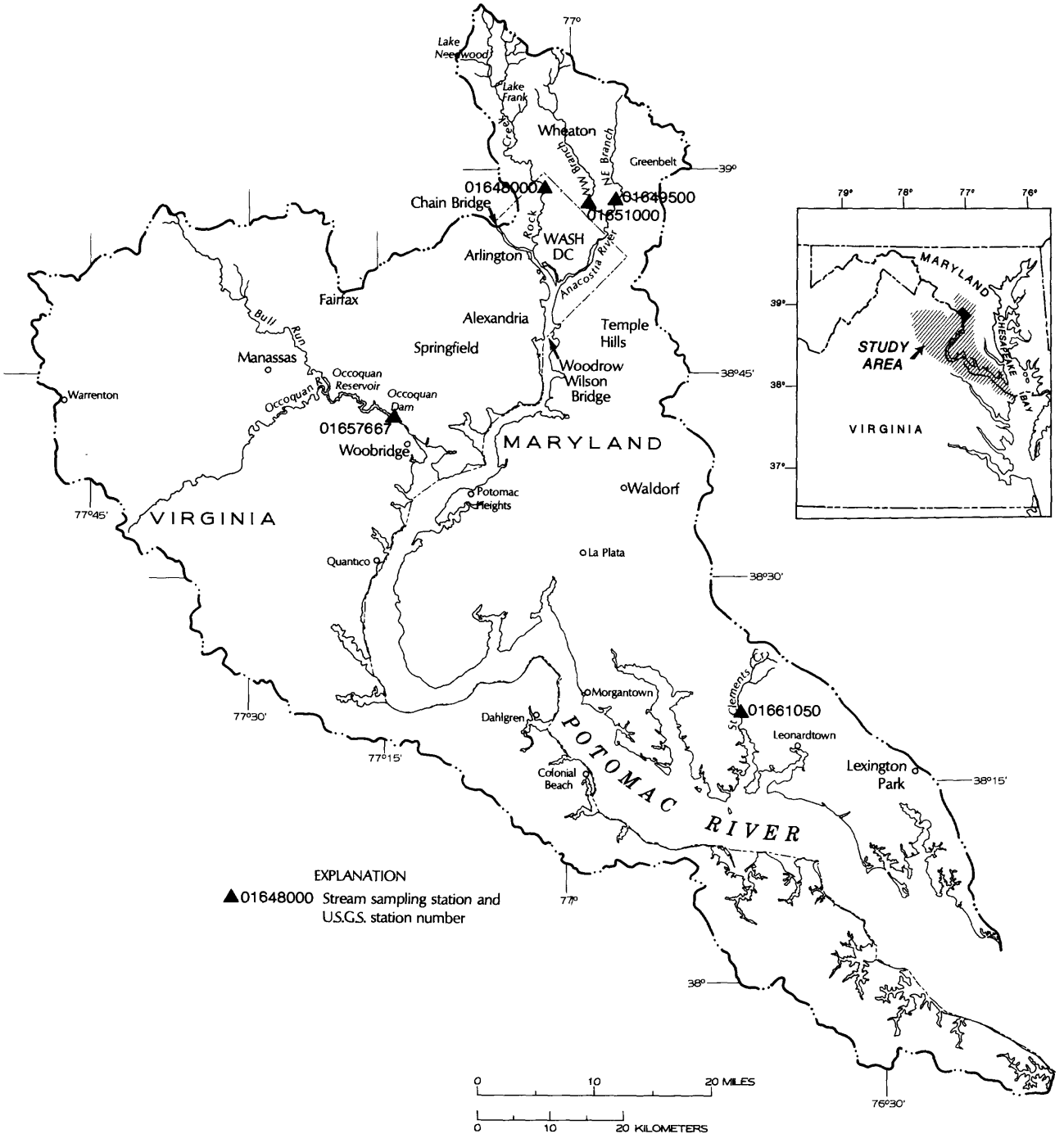

FIGURE 1.--Locations of the local watersheds tributary to the the tidal Potomac River and Estuary, the sampled streams, and the sampling stations.

Table 1.--Sampling stations

Stream	USGS station number	Station name	Drainage area (mi^2)
Rock Creek	01648000	Rock Creek at Sherrill Dr., Washington, D.C.	62.2
Northwest Branch of the Anacostia River	01651000	Northwest Branch of the Anacostia River near Hyattsville, Md.	49.4
Northeast Branch of the Anacostia River	01649500	Northeast Branch of the Anacostia River at Riverdale, Md.	72.8
Occoquan River	01657667	Occoquan River below the Occoquan Dam near Occoquan, Va.	570.
St. Clements Creek	01661050	St. Clements Creek at Clements, Md.	18.5

(other than that of the Occoquan River), water temperature (predominately during the 1980 water year), specific conductance, biochemical oxygen demand (BOD), total and dissolved phosphorus, total and dissolved species of nitrogen, dissolved silica, suspended sediment, and the particle size distribution of the suspended sediment. The biological data are given in Appendix C (chlorophyll-a and pheophytin) and in Appendix D (phytoplankton abundance and generic composition). Information to aid the reader's interpretation of these data tables is given in Appendix A.

Selected observations of turbidity of the raw water intake to the Occoquan Water Treatment Plant are given in Appendix E. These values, measured as part of the operation of the water treatment plant, were obtained from the records of the Fairfax Country Water Authority. The intake withdraws water from the Occoquan River at the Occoquan Dam. Information to aid the reader's interpretation of this data table is also given in Appendix A.

I would like to thank the National Park Service and the Fairfax County Water Authority for permitting the U.S. Geological Survey to install sampling equipment on, respectively, Rock Creek and the Occoquan River. Extra thanks go to the Fairfax County Water Authority for access to their records of operation.

METHODS OF SAMPLING AND ANALYSIS

Samples were collected by hand and with Manning S-4050A automated samplers1/. Samples were taken by hand at all five sampling stations using standard USGS techniques described in Guy and Norman (1970). In addition, samples of the Occoquan River were collected from the water supply intake at the Occoquan Dam and from automated samplers set up on the other streams. Samples taken by hand using standard U.S. Geological Survey techniques were used to verify that the samples taken from the water supply intake and those taken by the automatic samplers were representative of the streamflow. Almost all samples were collected during storm-period flow.

The analyses for nutrients, sediment, and specific conductance were conducted in U.S. Geological Survey laboratories. The analyses for specific conductance, dissolved silica, and the total and dissolved forms of phosphorus and nitrogen species were done by the Central Laboratory in Atlanta, Georgia, using methods described by Skougstad and others (1979). The dissolved fraction of the nutrients is defined as that portion passing through a 0.45 micron filter. The concentrations and the particle size distributions of the suspended sediment were determined by the sediment laboratory in Harrisburg, Pennsylvania, with methods described by Guy (1969).

Analyses for BOD were conducted by members of the U.S. Geological Survey in Reston, Va. (Wayne Webb, U.S. Geological Survey, oral communications, 1979-82). BOD samples were incubated for 20 days and the oxygen demand during this time was monitored. The ultimate demand and exertion rate of a sample

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1/Use of brand names in this report is for identification purposes only and does not constitute endorsement by the U.S. Geological Survey.

were determined using a nonlinear least-squares regression to fit demand values to an exponential curve. In a few cases, the carbonaceous demand (as opposed to the nitrogenous demand) was determined by analyzing duplicate samples. The nitrogenous demand in one duplicate was inhibited with trichloromethyl pyridine.

The biological analyses also were conducted by members of the U.S. Geological Survey staff in Reston. The methods used to determine the chlorophyll concentration (Blanchard and others, 1982) are based upon the spectrophotometric and fluorometric methods developed by Strickland and Parsons (1972) and resulted in values being calculated for chlorophyll-a corrected for pheophytin, chlorophyll-a uncorrected for pheophytin, and pheophytin. During the study there was a change from the spectrophotometric method to the fluorometric method, and the values produced by each method are listed separately in Appendix C. Phytoplankton abundance and generic composition were determined with an inverted microscope at 400 power and settling chambers (Utermohl, 1958; Lund and others, 1958).

The nephelometric turbidity of the raw water intake of the Occoquan water treatment plant was measured using a Hach 2100A ratio turbidimeter which had been calibrated against formazine standards. Results are presented in Formazine Turbidity Units.

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APPENDIX A

Aids for Using the Data

Order of stations.--Data in each of Appendices B, C, and D are listed in the following order of increasing station number: Rock Creek, Northeast Branch of the Anacostia River, Northwest Branch of the Anacostia River, Occoquan River, and St. Clements Creek.

Time.--All values are local time: Eastern Daylight Savings Time from 0200 of the fourth Sunday in April to 0200 of the fourth Sunday in October; Eastern Standard Time, otherwise. The dates of time change are October 29 in 1978, April 29 and October 28 in 1979, April 27 and October 26 in 1980, and April 26 and October 25 in 1981.

Parameter codes.--Each column heading in Appendices B and C has a parameter code used in the USGS National Water Data Storage and Retrieval System (WATSTORE) to reference water quality parameters (Hutchison, 1975).

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

Symbol	Remark
<	Actual value is known to be less than the value shown
#	Dominant organism; equal to or greater than 15 percent (phytoplankton abundance data, only)
*	Observed organism, may not have been counted; less than 0.5 percent (phytoplankton abundance data, only)
--	Not determined

Diversity Index.--A numerical expression of the evenness of distribution of the phytoplankton is given in Appendix D. The formula for diversity index is:

$$\bar{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Appendix B.--Physical and chemical data

[In this appendix, the following abbreviations are used:

CFS is cubic feet per second,
DEG C is degrees Celcius,
ULT is ultimate,
MG/L is milligrams per liter,
SED is sediment,
SUSP is suspended,
DIAM is diameter,
MM is millimeter, and
DIS is dissolved]

APPENDIX B

01648000 - ROCK C AT SHERRILL DR WASH, DC

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TEMPER-ATURE (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-ACEOUS (MG/L) (00320)	DEOXY-GENA-TION CON-STANT K1 TO BASE E (00325)	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
AUG , 1979												
06...	1655	54	--	186	6.4	4.4	--	.19	9.9	.072	.023	--
SEP												
05...	1450	1500	--	89	17	--	.12	--	3.1	1.20	.170	--
05...	1710	1850	--	--	15	--	.13	--	--	--	--	--
05...	1840	2450	--	77	12	--	.16	--	2.8	.580	.090	--
05...	1935	3200	--	--	14	--	.13	--	--	--	--	--
05...	2050	5300	--	--	--	--	--	--	--	--	--	--
05...	2200	6300	--	55	12	--	.12	--	2.3	.680	.070	--
06...	1300	1750	--	154	9.4	--	.11	--	6.1	.390	.040	--
OCT												
03...	1420	263	--	--	9.0	--	.08	--	--	--	--	--
05...	1415	509	--	--	11	--	.12	--	--	--	--	--
05...	1507	701	--	--	20	--	.10	--	--	--	--	--
05...	1720	788	--	--	14	--	.16	--	--	--	--	--
06...	0930	200	--	--	7.0	--	.06	--	--	--	--	--
10...	1120	1260	--	--	10	--	.12	--	3.9	.325	.067	--
10...	1547	1030	--	--	9.2	--	.07	--	--	--	--	--
15...	1435	150	--	--	5.0	--	.05	--	9.8	.060	.030	--
30...	1405	70	--	167	5.5	--	.06	--	12	.060	.040	--
NOV												
02...	1705	64	--	--	3.5	--	.12	--	--	--	--	--
10...	1035	640	--	124	26	--	.11	--	8.2	.690	.080	--
11...	1340	64	--	--	--	--	--	--	--	--	--	--
11...	1855	295	--	164	12	--	.10	--	10	.150	.040	--
26...	0620	90	--	--	18	--	.14	--	11	.060	.070	--
26...	1700	216	--	136	21	--	.15	--	7.3	.060	.080	--
DEC												
06...	1035	50	--	--	--	--	--	--	--	--	--	--
12...	1420	48	--	--	--	--	--	--	--	--	--	--
13...	0900	58	--	--	--	--	--	--	--	--	--	--
21...	1330	45	--	--	--	--	--	--	--	--	--	--
27...	1135	57	--	--	--	--	--	--	--	--	--	--
JAN , 1980												
11...	1040	43	--	468	--	--	--	--	--	--	--	--
14...	1335	67	--	225	--	--	--	--	--	--	--	--
18...	1745	420	--	--	22	--	.11	--	--	--	--	--
MAR												
04...	1610	43	4.0	--	--	--	--	--	--	--	--	--
13...	2005	1060	--	895	14	--	.13	--	5.1	.290	.050	2.4
14...	0100	1440	1.0	308	12	--	.08	--	2.3	.370	.020	2.4

APPENDIX B

01648000 - ROCK C AT SHERRILL DR WASH, DC

WATER QUALITY DATA

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
AUG , 1979												
06...	1.9	.64	.58	.57	.54	.070	.040	--	1.3	.020	.020	1.30
SEP												
05...	2.0	2.70	1.3	--	--	--	--	--	.69	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	1.4	1.60	.78	--	--	--	--	--	.65	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	1.2	1.80	.69	--	--	--	--	--	.53	--	--	--
06...	1.4	1.40	.89	--	--	--	--	--	.53	--	--	--
OCT												
03...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
10...	1.1	1.50	.55	--	--	--	--	--	.51	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
15...	1.4	.78	.40	--	--	--	--	--	1.0	--	--	--
30...	1.5	.82	.31	--	--	--	--	--	1.2	--	--	--
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
10...	1.4	2.30	.61	--	--	--	--	--	.77	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	1.2	.71	.31	--	--	--	--	--	.84	--	--	--
26...	1.7	.62	.61	--	--	--	--	--	1.1	--	--	--
26...	1.2	.49	.80	--	--	--	--	--	.42	--	--	--
DEC												
06...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980												
11...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
13...	2.1	1.50	1.1	1.4	.92	.130	.180	.87	.96	--	--	--
14...	1.2	1.70	.56	1.6	.42	.120	.140	.66	.66	--	--	--

APPENDIX B

01648000 - ROCK C AT SHERRILL DR WASH, DC

WATER QUALITY DATA

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SEDIMENT, SUSPENDED (MG/L) (80154)
AUG , 1979											
06...	--	--	--	--	--	--	--	--	--	--	13
SEP											
05...	--	--	100	97	84	70	59	47	35	25	1850
05...	--	--	--	--	--	--	--	--	--	--	1309
05...	--	100	97	92	85	79	73	65	52	39	905
05...	--	--	--	--	--	--	--	--	--	--	1179
05...	--	--	--	--	--	--	--	--	--	--	2254
05...	--	--	--	100	99	95	90	79	63	48	845
06...	--	--	--	--	--	--	--	--	--	--	449
OCT											
03...	--	--	--	--	--	--	--	--	--	--	178
05...	100	99	96	93	87	78	70	57	43	30	655
05...	--	--	--	--	--	--	--	--	--	--	810
05...	100	97	92	88	83	76	69	57	42	31	872
06...	--	--	--	--	100	99	94	88	78	70	80
10...	100	97	83	71	61	50	41	33	25	18	777
10...	98	94	87	77	64	51	42	34	27	21	450
15...	--	--	--	--	--	--	--	--	--	--	12
30...	--	--	--	--	--	--	--	--	--	--	3
NOV											
02...	--	--	--	--	--	--	--	--	--	--	11
10...	--	--	100	98	92	83	69	56	42	32	866
11...	--	--	--	--	--	--	--	--	--	--	3
11...	--	--	--	--	--	--	--	--	--	--	109
26...	--	--	--	--	--	--	--	--	--	--	24
26...	--	--	--	--	--	--	--	--	--	--	128
DEC											
06...	--	--	--	--	--	--	--	--	--	--	4
12...	--	--	--	--	--	--	--	--	--	--	2
13...	--	--	--	--	--	--	--	--	--	--	8
21...	--	--	--	--	--	--	--	--	--	--	7
27...	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980											
11...	--	--	--	--	--	--	--	--	--	--	10
14...	--	--	--	--	--	--	--	--	--	--	11
18...	--	--	--	--	--	--	--	--	--	--	284
MAR											
04...	--	--	--	--	--	--	--	--	--	--	--
13...	100	99	94	87	78	68	51	47	35	21	2760
14...	--	100	97	90	79	68	59	48	37	27	1348

APPENDIX B

01648000 - ROCK C AT SHERRILL DR WASH, DC

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TEMPER-ATURE (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-ACEOUS (MG/L) (00320)	DEOXY-GENA-TION CON-STANT K1 TO BASE E (00325)	OEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
MAR , 1980												
14...	1155	263	3.0	366	7.6	--	.07	--	6.3	.170	.020	3.0
17...	1230	111	--	214	5.0	--	.07	--	11	.070	.020	1.8
21...	0800	497	11.0	259	13	--	.16	--	7.9	.290	.050	2.1
21...	1330	645	11.0	156	13	--	.11	--	5.0	.270	.040	1.8
29...	1050	572	9.0	140	--	--	--	--	--	--	--	--
30...	1545	129	11.0	184	--	--	--	--	--	--	--	--
APR												
09...	0910	368	13.0	194	14	--	.11	--	8.5	.060	.040	1.9
09...	1230	337	13.0	154	17	--	.14	--	7.2	.060	.030	2.2
26...	1300	130	14.0	211	13	13	--	.22	--	--	--	--
27...	1900	154	15.0	--	8.9	--	.14	--	--	--	--	--
MAY												
18...	0840	479	16.0	160	25	--	.12	--	7.6	.050	.050	3.4
18...	1115	735	--	136	26	--	.13	--	6.6	.170	.050	2.7
18...	1615	263	18.0	96	14	--	.15	--	4.7	.140	.040	1.2
20...	2110	130	18.0	--	--	--	--	--	--	--	--	--
21...	0100	320	18.0	--	16	--	.09	--	--	--	--	--
21...	1035	670	--	124	21	--	.10	--	5.6	.340	.040	2.7
JUN												
16...	1225	122	20.5	152	15	--	.09	--	7.5	.170	.020	2.2
JUL												
03...	0815	130	23.0	175	36	--	.13	--	7.8	.310	.070	--
03...	1400	531	23.0	133	26	--	.15	--	4.5	.600	.040	4.0
08...	1500	260	19.5	--	21	--	.13	--	--	--	--	--
15...	1150	35	26.5	220	4.4	--	--	.09	13	.050	.030	1.7
21...	2220	50	--	--	35	19	--	.20	--	--	--	--
AUG												
01...	1430	24	26.0	280	8.4	5.9	--	.13	14	.050	.030	1.3
05...	1945	26	26.0	--	--	--	--	--	--	--	--	--
NOV												
18...	0820	179	--	--	25	21	--	.30	--	--	--	.87
24...	1610	600	24.0	--	28	20	--	.31	--	--	--	1.5
JAN , 1981												
14...	0840	21	.0	--	5.4	3.6	--	.13	--	--	--	2.2
FEB												
11...	0900	248	6.0	--	20	15	--	.13	--	--	--	3.7
23...	1700	701	10.5	--	18	14	--	.15	--	--	--	2.0
JUN												
02...	1351	205	--	--	--	--	--	--	--	--	--	--
JUL												
04...	1150	1320	--	--	21	--	.11	--	--	.630	--	1.7

APPENDIX B

01648000 - ROCK C AT SHERRILL DR WASH, DC

WATER QUALITY DATA

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
MAR , 1980												
14...	1.8	1.70	.53	1.6	.40	.090	.130	1.3	1.3	--	--	--
17...	1.7	.39	.29	.34	.24	.050	.050	1.4	1.4	--	--	--
21...	1.6	1.00	.50	.96	.47	.040	.030	1.1	1.1	--	--	--
21...	1.5	1.10	.76	1.0	.69	.090	.070	.72	.78	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
09...	1.8	.79	.72	.75	.68	.040	.040	1.1	1.1	--	--	--
09...	1.6	1.30	.69	1.3	.64	.020	.050	.87	.87	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
18...	1.8	2.40	.65	2.3	.60	.060	.050	1.0	1.1	--	--	--
18...	1.5	1.90	.74	1.8	.66	.100	.080	.82	.76	--	--	--
18...	1.8	.o0	1.1	.52	1.1	.080	.000	.62	.71	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	2.5	1.20	1.2	.87	1.2	.330	.040	1.5	1.3	--	--	--
JUN												
16...	2.3	.91	1.1	.84	1.0	.070	.070	1.3	1.2	--	--	--
JUL												
03...	2.8	--	1.3	--	.96	--	.340	--	1.5	--	--	--
03...	1.8	2.90	.64	2.8	.47	.090	.170	1.1	1.2	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
15...	1.8	.43	.57	.36	.53	.070	.040	1.3	1.2	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	1.2	.38	.32	.35	.28	.030	.040	.94	.90	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
18...	--	.36	--	.24	--	.120	--	.51	--	--	--	--
24...	--	.92	--	.86	--	.060	--	.61	--	--	--	--
JAN , 1981												
14...	--	.59	--	.42	--	.170	--	1.6	--	--	--	--
FEB												
11...	--	2.60	--	2.5	--	.150	--	1.1	--	--	--	--
23...	--	1.30	--	1.2	--	.150	--	.66	--	--	--	--
JUN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
04...	--	1.40	--	1.1	--	.310	--	.33	--	--	--	--

APPENDIX B

01648000 - ROCK C AT SHERRILL DR WASH, DC

WATER QUALITY DATA

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SEDIMENT, SUSPENDED (MG/L) (80154)
MAR , 1980											
14...	--	--	--	--	--	--	--	--	--	--	488
17...	--	--	--	--	--	--	--	--	--	--	41
21...	--	--	100	97	86	73	61	46	35	27	833
21...	100	99	99	97	91	83	69	57	45	33	302
29...	--	--	--	--	--	--	--	--	--	--	358
30...	--	--	--	--	--	--	--	--	--	--	28
APR											
09...	--	--	100	97	91	82	71	58	45	36	378
09...	--	--	100	99	95	91	83	67	54	42	382
26...	--	--	--	--	--	--	--	--	--	--	75
27...	--	--	--	--	--	--	--	--	--	--	--
MAY											
18...	--	--	--	--	--	77	--	--	--	--	741
18...	95	86	68	49	46	40	33	26	21	17	1889
18...	--	--	--	--	--	94	--	--	--	--	329
20...	--	--	--	--	--	--	--	--	--	--	58
21...	--	--	--	--	--	--	--	--	--	--	255
21...	98	94	84	67	60	52	42	34	27	21	879
JUN											
16...	--	--	--	--	--	--	--	--	--	--	161
JUL											
03...	--	--	--	--	--	--	--	--	--	--	260
03...	--	--	--	--	--	--	--	--	--	--	1192
08...	--	--	--	--	--	--	--	--	--	--	494
15...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	177
AUG											
01...	--	--	--	--	--	--	--	--	--	--	12
05...	--	--	--	--	--	--	--	--	--	--	8
NOV											
18...	--	--	--	--	--	--	--	--	--	--	324
24...	--	--	--	--	--	--	--	--	--	--	485
JAN , 1981											
14...	--	--	--	--	--	--	--	--	--	--	6
FEB											
11...	--	--	--	--	--	--	--	--	--	--	778
23...	--	--	--	--	--	--	--	--	--	--	1310
JUN											
02...	--	--	--	--	--	96	--	--	--	--	487
JUL											
04...	--	--	100	98	89	71	55	40	28	20	1445

APPENDIX B

01648000 - ROCK C AT SHERRILL DR WASH, DC

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TEMPER-ATURE (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-ACEOUS (MG/L) (00320)	DEOXY-GENA-TION CON-STANT K1 TO BASE E (00325)	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
JUL , 1981												
29...	1010	69	--	--	11	--	.12	--	--	--	--	1.7
AUG												
12...	1100	263	--	--	12	--	.15	--	--	.350	--	--
NOV												
18...	1405	13	9.5	--	--	--	--	--	--	--	--	--
18...	1408	13	9.5	--	--	--	--	--	--	--	--	--
DEC												
16...	1320	66	3.0	--	--	--	--	--	--	--	--	--
16...	1325	66	3.0	--	--	--	--	--	--	--	--	--

APPENDIX B

01648000 - ROCK C AT SHERRILL DR WASH, DC

WATER QUALITY DATA

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
JUL , 1981												
29...	--	.94	--	.82	--	.120	--	--	.71	--	--	--
AUG												
12...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--

APPENDIX B

01648000 - ROCK C AT SHERRILL DR WASH, DC

WATER QUALITY DATA

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SEDIMENT, SUSPENDED (MG/L) (80154)
JUL , 1981											
29...	--	--	--	--	--	--	--	--	--	--	--
AUG											
12...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
DEC											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--

APPENDIX B

01649500 - NE B ANACOSTIA R AT RIVERDALE, MD

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TEMPER-ATURE (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-ACEOUS (MG/L) (00320)	DEOXY-GENA-TION CON-STANT K1 TO BASE E (00325)	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
JUN , 1979												
30...	1600	46	--	--	5.9	--	.08	--	--	--	--	--
30...	1725	85	--	--	50	--	.12	--	--	--	--	--
30...	1815	137	24.5	--	22	--	.18	--	--	--	--	--
30...	1945	170	23.5	--	28	--	.15	--	--	--	--	--
AUG												
13...	1215	195	--	--	5.6	4.1	--	.15	6.7	.107	.036	--
SEP												
04...	1459	58	--	--	--	--	--	--	--	--	--	--
05...	1445	2340	--	--	15	--	.13	--	--	.560	.120	--
05...	1755	6390	--	--	13	--	.12	--	--	.590	.070	--
05...	1945	5890	--	--	12	--	.12	--	--	.340	.050	--
06...	1550	1410	--	98	9.0	--	.07	--	5.1	.170	.030	--
OCT												
23...	1545	47	--	--	4.9	--	.08	--	--	--	--	--
23...	2050	380	--	--	43	--	.12	--	--	--	--	--
NOV												
02...	1525	66	--	--	4.1	--	.11	--	7.3	.029	.016	--
10...	1248	337	--	171	17	--	.09	--	5.7	.220	.020	--
11...	1745	298	--	139	10	--	.11	--	6.7	.100	.040	--
26...	0115	66	--	--	--	--	--	--	--	--	--	--
DEC												
04...	1500	73	--	--	--	--	--	--	--	--	--	--
JAN , 1980												
02...	1300	66	--	--	--	--	--	--	--	--	--	--
11...	1445	85	--	480	--	--	--	--	--	--	--	--
16...	1045	85	--	254	--	--	--	--	--	--	--	--
17...	1340	81	--	--	3.6	--	.05	--	--	--	--	--
18...	2210	1630	--	--	17	--	.11	--	--	--	--	--
23...	1330	178	--	--	--	--	--	--	--	--	--	--
24...	1130	104	.0	--	--	--	--	--	--	--	--	--
24...	1440	109	1.0	--	--	--	--	--	--	--	--	--
MAR												
04...	1515	90	4.0	62	--	--	--	--	--	--	--	--
13...	2000	2240	2.0	345	12	--	.07	--	2.3	.200	.020	4.2
17...	1155	110	9.0	236	9.6	--	.08	--	7.1	.050	.020	1.6
21...	1300	1640	17.0	170	12	--	.12	--	3.8	.380	.060	2.0
30...	1500	203	11.5	180	--	--	--	--	--	--	--	--
APR												
09...	1045	532	--	166	10	10	--	.19	4.9	.080	.030	1.8
14...	0845	109	--	186	--	--	--	--	--	--	--	--

APPENDIX B

01649500 - NE B ANACOSTIA R AT RIVERDALE, MD

WATER QUALITY DATA

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
JUN , 1979												
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
13...	1.2	.94	.64	--	--	--	--	--	.58	--	--	--
SEP												
04...	--	--	--	--	--	--	--	--	--	--	--	--
05...	1.8	1.50	1.3	--	--	--	--	--	.51	--	--	--
05...	2.0	1.10	1.5	--	--	--	--	--	.51	--	--	--
05...	1.6	1.20	1.1	--	--	--	--	--	.54	--	--	--
06...	1.2	1.40	.68	--	--	--	--	--	.53	--	--	--
OCT												
23...	--	.88	--	--	--	--	--	--	--	--	--	--
23...	--	2.10	--	--	--	--	--	--	--	--	--	--
NOV												
02...	1.1	.41	.41	--	--	--	--	--	.68	--	--	--
10...	1.2	1.20	.50	--	--	--	--	--	.65	--	--	--
11...	1.0	.50	.52	--	--	--	--	--	.52	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
OEC												
04...	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980												
02...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
13...	1.9	3.10	.86	2.9	.61	.240	.250	1.1	1.0	--	--	--
17...	1.5	.45	.36	.44	.28	.010	.080	1.1	1.1	--	--	--
21...	1.8	1.20	.96	.97	.75	.230	.210	.84	.83	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
09...	1.2	1.20	.57	1.1	.47	.120	.100	.61	.61	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--

APPENDIX B

01649500 - NE B ANACOSTIA R AT RIVERDALE, MD

WATER QUALITY DATA

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SEDIMENT, SUSPENDED (MG/L) (80154)
JUN , 1979											
30...	--	--	--	--	--	--	--	--	--	--	10
30...	--	--	--	--	--	--	--	--	--	--	256
30...	--	--	--	--	--	--	--	--	--	--	168
30...	--	--	--	--	--	--	--	--	--	--	192
AUG											
13...	--	--	--	--	--	--	--	--	--	--	23
SEP											
04...	--	--	--	--	--	--	--	--	--	--	13
05...	--	--	--	--	--	--	--	--	--	--	1355
05...	--	--	--	--	--	--	--	--	--	--	1748
05...	--	--	--	--	--	--	--	--	--	--	1448
06...	--	--	--	--	--	--	--	--	--	--	248
OCT											
23...	--	--	--	--	--	--	--	--	--	--	13
23...	--	100	98	95	89	82	75	66	56	48	767
NOV											
02...	--	--	--	--	--	--	--	--	--	--	8
10...	--	--	100	99	97	94	92	90	82	75	250
11...	--	--	--	--	--	--	--	--	--	--	84
26...	--	--	--	--	--	--	--	--	--	--	7
DEC											
04...	--	--	--	--	--	--	--	--	--	--	3
JAN , 1980											
02...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	75
16...	--	--	--	--	--	--	--	--	--	--	8
17...	--	--	--	--	--	--	--	--	--	--	7
18...	--	100	100	96	85	78	68	60	49	38	773
23...	--	--	--	--	--	--	--	--	--	--	28
24...	--	--	--	--	--	--	--	--	--	--	16
24...	--	--	--	--	--	--	--	--	--	--	16
MAR											
04...	--	--	--	--	--	--	--	--	--	--	19
13...	--	--	--	--	--	--	--	--	--	--	2503
17...	--	--	--	--	--	--	--	--	--	--	38
21...	--	100	99	86	74	69	63	54	46	42	520
30...	--	--	--	--	--	--	--	--	--	--	29
APR											
09...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	10

APPENDIX B

01649500 - NE B ANACOSTIA R AT RIVERDALE, MD

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TEMPER-ATURE (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-ACEOUS (MG/L) (00320)	DEOXY-GENA-TION CON-STANT K1 TO BASE E (00325)	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
APR , 1980												
14...	1815	225	14.5	168	--	--	--	--	--	--	--	--
16...	1400	109	13.0	--	--	--	--	--	--	--	--	--
24...	2015	170	17.5	--	--	--	--	--	--	--	--	--
26...	1615	403	12.0	185	10	8.8	--	.17	4.0	.060	.020	4.2
27...	1940	815	13.5	119	37	--	.09	--	3.5	.120	.030	5.2
MAY												
18...	1130	590	16.0	115	20	--	.11	--	3.6	.210	.030	9.4
20...	1330	170	16.0	--	--	--	--	--	--	--	--	--
JUN												
15...	1800	244	23.5	155	26	--	.08	--	6.1	.120	.030	2.2
JUL												
03...	1020	380	23.0	138	24	--	.16	--	3.3	.430	.020	4.0
15...	1335	58	28.5	215	4.5	4.5	--	.11	7.6	.030	.010	1.3
23...	1455	206	23.5	163	7.2	5.8	--	.14	6.3	.182	.009	--
AUG												
01...	1310	28	29.5	225	6.6	5.0	--	.17	3.8	.030	.010	.79
NOV												
17...	2206	530	--	--	--	--	--	--	--	--	--	--
18...	0006	640	--	--	--	--	--	--	--	--	--	--
18...	0206	1100	--	--	--	--	--	--	--	--	--	--
18...	0406	930	--	--	--	--	--	--	--	--	--	--
18...	0606	300	--	--	--	--	--	--	--	--	--	--
18...	0806	230	--	--	--	--	--	--	--	--	--	--
24...	1715	690	--	--	18	--	.15	--	--	--	--	1.6
JAN , 1981												
14...	1020	71	.0	--	2.8	--	2.5	.10	--	--	--	2.0
FEB												
02...	1250	640	5.0	--	25	18	--	.22	3.6	.630	--	--
11...	1130	452	7.5	--	16	13	--	.13	--	--	--	2.3
23...	1445	615	11.0	--	14	11	--	.12	--	.310	--	2.2
APR												
11...	2300	422	--	--	24	--	.08	--	--	.300	--	3.7
MAY												
15...	1700	1270	--	--	33	--	.13	--	--	.740	--	4.6
28...	1900	380	--	--	22	--	.14	--	--	.560	--	2.1
JUN												
10...	1100	228	--	--	9.0	8.0	--	.23	--	.200	--	1.3
14...	1400	499	--	--	19	--	.08	--	--	.280	--	2.2
14...	1600	457	--	--	13	--	.12	--	--	.360	--	2.5
JUL												
04...	1412	1040	--	--	16	--	.10	--	3.9	.750	--	1.6

APPENDIX B

01649500 - NE B ANACOSTIA R AT RIVERDALE, MD

WATER QUALITY DATA

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
APR , 1980												
14...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
26...	1.9	3.30	.78	3.1	.56	.190	.220	.85	1.1	--	--	--
27...	1.4	4.60	.80	4.4	.61	.180	.190	.55	.61	--	--	--
MAY												
18...	1.3	8.80	.65	8.7	.52	.140	.130	.60	.68	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
15...	2.5	.94	1.3	.77	1.1	.170	.200	1.3	1.2	--	--	--
JUL												
03...	2.1	2.80	.88	2.6	.51	.200	.370	1.2	1.2	--	--	--
15...	1.1	.41	.26	.37	.25	.040	.010	.84	.82	--	--	--
23...	1.2	.81	.73	--	.68	--	.050	--	.46	--	.010	.45
AUG												
01...	.55	.22	.05	.22	--	.000	--	.57	.50	--	--	--
NOV												
17...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	.97	--	.91	--	.060	--	.65	--	--	--	--
JAN , 1981												
14...	--	.48	--	.30	--	.180	--	1.5	--	--	--	--
FEB												
02...	--	2.40	--	2.1	--	.350	--	--	--	--	--	--
11...	--	1.40	--	1.1	--	.280	--	.92	--	--	--	--
23...	--	1.30	--	1.1	--	.160	--	.90	--	--	--	--
APR												
11...	--	2.90	--	2.3	--	.600	--	.80	--	--	--	--
MAY												
15...	--	3.80	--	3.2	--	.580	--	.77	--	--	--	--
28...	--	1.50	--	1.3	--	.210	--	.56	--	--	--	--
JUN												
10...	--	.75	--	.63	--	.120	--	.53	--	--	--	--
14...	--	1.60	--	1.3	--	.300	--	.64	--	--	--	--
14...	--	1.90	--	1.6	--	.260	--	.63	--	--	--	--
JUL												
04...	--	1.20	--	.91	--	.290	--	.38	--	--	--	--

APPENDIX B

01649500 - NE B ANACOSTIA R AT RIVERDALE, MD

WATER QUALITY DATA

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SEDIMENT, SUSPENDED (MG/L) (80154)
APR , 1980											
14...	--	--	--	--	--	--	--	--	--	--	95
16...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	100	98	92	87	81	73	63	53	319
27...	--	--	100	92	81	75	72	63	55	46	409
MAY											
18...	--	--	100	97	93	88	84	77	68	58	489
20...	--	100	99	97	96	94	90	89	83	75	110
JUN											
15...	--	--	--	--	--	--	--	--	--	--	297
JUL											
03...	--	--	--	--	--	--	--	--	--	--	1566
15...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	84
AUG											
01...	--	--	--	--	--	--	--	--	--	--	8
NOV											
17...	--	--	--	--	--	--	--	--	--	--	680
18...	--	--	--	--	--	--	--	--	--	--	839
18...	--	--	--	--	--	--	--	--	--	--	544
18...	--	--	--	--	--	--	--	--	--	--	263
18...	--	--	--	--	--	--	--	--	--	--	179
18...	--	--	--	--	--	--	--	--	--	--	113
24...	--	--	--	--	--	--	--	--	--	--	501
JAN , 1981											
14...	--	--	--	--	--	--	--	--	--	--	8
FEB											
02...	--	100	99	96	93	88	82	71	59	46	828
11...	--	--	--	--	--	--	--	--	--	--	549
23...	100	100	99	94	89	83	77	69	57	44	400
APR											
11...	--	--	--	--	--	--	--	--	--	--	--
MAY											
15...	--	--	--	--	--	--	--	--	--	--	2271
28...	--	--	--	--	--	--	--	--	--	--	617
JUN											
10...	--	--	--	--	--	--	--	--	--	--	226
14...	--	--	--	--	--	--	--	--	--	--	1010
14...	--	--	--	--	--	--	--	--	--	--	941
JUL											
04...	--	100	99	93	86	79	72	61	46	35	1530

APPENDIX B

01649500 - NE B ANACOSTIA R AT RIVERDALE, MD

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TEMPER-ATURE (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-ACEOUS (MG/L) (00320)	DEOXY-GENA-TION CON-STANT K1 TO BASE E (00325)	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
AUG , 1981												
12...	1345	261	--	--	15	--	.15	--	--	.400	--	2.0
NOV												
20...	0830	16	10.0	--	--	--	--	--	--	--	--	--

APPENDIX B

01649500 - NE B ANACOSTIA R AT RIVERDALE, MD

WATER QUALITY DATA

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
AUG , 1981												
12...	--	1.30	--	1.1	--	.210	--	.67	--	--	--	--
NOV												
20...	--	--	--	--	--	--	--	--	--	--	--	--

APPENDIX B

01649500 - NE B ANACOSTIA R AT RIVERDALE, MD

WATER QUALITY DATA

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SEDIMENT, SUSPENDED (MG/L) (80154)
AUG , 1981											
12...	--	--	--	--	--	94	--	--	--	--	399
NOV											
20...	--	--	--	--	--	--	--	--	--	--	--

APPENDIX B

01651000 - NW B ANACOSTIA R NR HYATTSVILLE, MD

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TEMPER-ATURE (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-ACEOUS (MG/L) (00320)	DEOXY-GENA-TION CON-STANT K1 TO BASE E (00325)	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
JUN , 1979												
30...	1515	17	25.5	--	4.3	--	.07	--	--	--	--	--
AUG												
13...	1245	46	26.0	--	4.7	4.0	--	.19	7.8	.109	.048	--
SEP												
05...	1305	441	--	--	19	--	.09	--	--	.330	.070	--
05...	1655	6390	--	--	16	--	.12	--	--	.970	.060	--
05...	1845	6580	--	--	13	--	.12	--	--	.700	.070	--
06...	1455	312	--	108	12	--	.08	--	6.4	.240	.030	--
OCT												
10...	1220	1100	--	--	8.0	--	.11	--	--	--	--	--
10...	1255	1210	--	--	--	--	--	--	--	--	--	--
NOV												
02...	1715	30	--	--	3.8	--	.11	--	13	.016	.008	--
26...	0255	30	--	--	--	--	--	--	--	--	--	--
JAN , 1980												
11...	1600	110	--	--	--	--	--	--	--	--	--	--
18...	1950	898	--	--	27	--	.10	--	--	--	--	--
MAR												
04...	1645	30	3.0	105	--	--	--	--	--	--	--	--
17...	1055	53	9.0	212	2.3	--	.16	--	12	.030	.030	1.4
21...	1500	503	15.0	119	20	--	.10	--	5.5	.410	.050	2.5
30...	1710	35	--	180	--	--	--	--	--	--	--	--
APR												
09...	1145	208	14.5	123	7.0	7.0	--	.14	4.2	.060	.030	1.4
14...	1000	46	--	206	--	--	--	--	--	--	--	--
14...	1640	208	15.5	186	--	--	--	--	--	--	--	--
24...	1850	112	17.5	--	15	12	--	.20	--	--	--	--
26...	1345	312	13.0	148	19	--	.16	--	5.1	.210	.060	1.7
27...	2120	363	12.5	104	42	--	.10	--	4.4	--	.030	--
MAY												
18...	0940	568	17.0	84	30	--	.10	--	3.8	.150	.070	8.2
20...	1600	64	--	--	--	--	--	--	--	--	--	--
20...	2000	64	--	--	--	--	--	--	--	--	--	--
20...	2320	280	18.0	--	--	--	--	--	--	--	--	--
20...	2400	248	--	--	--	--	--	--	--	--	--	--
21...	0400	263	--	--	--	--	--	--	--	--	--	--
21...	0800	212	--	--	--	--	--	--	--	--	--	--
21...	1245	400	--	125	18	--	.10	--	7.6	.260	.040	2.4
JUN												
15...	1925	417	22.5	169	27	--	.15	--	4.6	.070	.020	1.6

APPENDIX B

01651000 - NW B ANACOSTIA R NR HYATTSVILLE, MD

WATER QUALITY DATA

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
JUN , 1979												
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
13...	1.5	.68	.97	--	--	--	--	--	.49	--	--	--
SEP												
05...	2.4	2.30	1.9	--	--	--	--	--	.50	--	--	--
05...	2.3	3.00	1.6	--	--	--	--	--	.67	--	--	--
05...	1.7	1.40	1.1	--	--	--	--	--	.62	--	--	--
06...	1.9	1.30	1.2	--	--	--	--	--	.69	--	--	--
OCT												
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
02...	1.1	.21	.28	--	--	--	--	--	.77	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980												
11...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
17...	1.4	.28	.32	.26	.30	.020	.020	1.1	1.1	--	--	--
21...	1.4	1.80	.76	1.7	.65	.140	.110	.65	.63	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
09...	1.1	.80	.49	.76	.48	.040	.010	.64	.65	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
26...	1.5	.66	.63	.53	.42	.130	.210	1.0	.84	--	--	--
27...	--	--	--	--	--	--	--	--	.74	--	--	--
MAY												
18...	1.2	7.70	.65	7.6	.52	.100	.130	.52	.55	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	1.9	.92	.60	.74	.58	.180	.020	1.5	1.3	--	--	--
JUN												
15...	1.6	.52	.49	.40	.39	.120	.100	1.1	1.1	--	--	--

APPENDIX B

01651000 - NW B ANACOSTIA R NR HYATTSVILLE, MD

WATER QUALITY DATA

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SEDIMENT, SUSPENDED (MG/L) (80154)
JUN , 1979											
30...	--	--	--	--	--	--	--	--	--	--	6
AUG											
13...	--	--	--	--	--	--	--	--	--	--	41
SEP											
05...	--	--	--	--	--	--	--	--	--	--	235
05...	--	--	--	--	--	--	--	--	--	--	1871
05...	--	--	--	--	--	--	--	--	--	--	1622
06...	--	--	--	--	--	--	--	--	--	--	344
OCT											
10...	--	--	--	--	--	--	--	--	--	--	1043
10...	--	100	93	71	52	44	39	33	27	22	940
NOV											
02...	--	--	--	--	--	--	--	--	--	--	11
26...	--	--	--	--	--	--	--	--	--	--	2
JAN , 1980											
11...	--	--	--	--	--	--	--	--	--	--	337
18...	--	100	99	89	71	58	51	43	35	26	1180
MAR											
04...	--	--	--	--	--	--	--	--	--	--	10
17...	--	--	--	--	--	--	--	--	--	--	10
21...	--	100	99	93	82	76	67	57	46	36	916
30...	--	--	--	--	--	--	--	--	--	--	20
APR											
09...	--	--	--	--	--	--	--	--	--	--	85
14...	--	--	--	--	--	--	--	--	--	--	15
14...	--	--	--	--	--	--	--	--	--	--	144
24...	--	--	--	--	--	--	--	--	--	--	--
26...	--	100	99	93	85	78	71	61	49	38	253
27...	--	--	100	97	88	81	69	57	44	33	938
MAY											
18...	--	100	99	91	78	70	63	54	44	35	411
20...	--	--	--	--	--	--	--	--	--	--	36
20...	--	--	--	--	--	--	--	--	--	--	48
20...	--	--	--	--	--	--	--	--	--	--	264
20...	--	--	--	--	--	--	--	--	--	--	123
21...	--	--	--	--	--	--	--	--	--	--	166
21...	--	--	--	--	--	--	--	--	--	--	136
21...	--	--	--	--	--	--	--	--	--	--	444
JUN											
15...	--	--	--	--	--	--	--	--	--	--	808

APPENDIX B

01651000 - NW B ANACOSTIA R NR HYATTSVILLE, MD

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TEMPER-ATURE (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-ACEOUS (MG/L) (00320)	DEOXY-GENA-TION CON-STANT K1 TO BASE E (00325)	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
JUL , 1980												
03...	0945	380	23.0	112	37	--	.13	--	4.3	.510	.050	4.3
15...	1250	46	27.0	178	4.8	3.5	--	.14	10	.050	.010	1.0
23...	1615	360	--	--	16	13	--	.16	--	--	--	--
23...	1815	459	--	--	--	--	--	--	--	--	--	--
23...	1945	328	--	--	--	--	--	--	--	--	--	--
23...	2100	302	--	--	--	--	--	--	--	--	--	--
AUG												
01...	1345	9.6	31.0	212	7.1	7.1	--	.09	9.5	.020	.050	.50
15...	1945	740	--	--	--	--	--	--	--	--	--	--
15...	2145	589	--	--	--	--	--	--	--	--	--	--
15...	2345	318	--	--	--	--	--	--	--	--	--	--
OCT												
25...	0800	355	--	--	--	--	--	--	--	--	--	--
25...	1000	860	14.0	--	37	23	--	.20	--	.550	.080	2.6
25...	1200	778	--	--	--	--	--	--	--	--	--	--
25...	1400	447	--	--	--	--	--	--	--	--	--	--
25...	1600	328	--	--	--	--	--	--	--	--	--	--
NOV												
17...	2300	503	--	--	--	--	--	--	--	--	--	--
18...	0100	355	--	--	--	--	--	--	--	--	--	--
JAN , 1981												
14...	0945	10	.0	--	4.3	--	4.3	.04	--	--	--	2.0
FEB												
02...	1100	497	5.0	--	37	--	.13	--	--	.800	--	3.9
23...	1600	503	11.0	--	17	13	--	.14	--	.430	--	2.0
APR												
13...	0045	230	--	--	15	--	.11	--	--	.210	--	1.8
MAY												
11...	1530	277	--	--	--	--	--	--	--	.160	--	2.5
JUN												
04...	2015	225	--	--	24	--	.11	--	--	.320	--	2.8
10...	0700	191	--	--	22	--	.15	--	--	.200	--	1.3
10...	0900	297	--	--	27	--	.12	--	--	.330	--	2.0
JUL												
01...	2200	178	--	--	22	--	.09	--	--	.250	--	1.6
04...	1230	1130	--	--	15	--	.10	--	--	.490	--	1.4
20...	2030	555	--	--	--	--	--	--	--	--	--	7.1
23...	2230	287	--	--	17	--	.16	--	--	.400	--	1.6
AUG												
12...	1130	187	--	--	19	--	.12	--	--	.370	--	1.5

APPENDIX B

01651000 - NW B ANACOSTIA R NR HYATTSVILLE, MD

WATER QUALITY DATA

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
JUL , 1980												
03...	2.4	3.10	1.1	2.9	.90	.250	.200	1.2	1.3	--	--	--
15...	1.0	.43	.43	.38	.42	.050	.010	.60	.60	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	.49	.19	.18	.18	.16	.010	.020	.31	.31	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
OCT												
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	.79	2.20	.41	2.1	.31	.140	.100	.39	.38	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
17...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1981												
14...	--	.40	--	.37	--	.030	--	1.6	--	--	--	--
FEB												
02...	--	2.80	--	2.6	--	.210	--	1.1	--	--	--	--
23...	--	1.30	--	--	--	--	--	.71	--	--	--	--
APR												
13...	--	1.20	--	1.0	--	.180	--	.64	--	--	--	--
MAY												
11...	--	2.10	--	2.0	--	.070	--	.37	--	--	--	--
JUN												
04...	--	2.10	--	1.8	--	.260	--	.70	--	--	--	--
10...	--	.85	--	.74	--	.110	--	.45	--	--	--	--
10...	--	1.40	--	1.3	--	.120	--	.55	--	--	--	--
JUL												
01...	--	1.20	--	1.2	--	.030	--	.40	--	--	--	--
04...	--	1.10	--	.96	--	.140	--	.30	--	--	--	--
20...	--	5.30	--	4.5	--	.820	--	1.8	--	--	--	--
23...	--	.93	--	.79	--	.140	--	.62	--	--	--	--
AUG												
12...	--	.90	--	.79	--	.110	--	.61	--	--	--	--

APPENDIX B

01651000 - NW B ANACOSTIA R NR HYATTSVILLE, MD

WATER QUALITY DATA

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SEDIMENT, SUSPENDED (MG/L) (80154)
JUL , 1980											
03...	--	--	--	--	--	--	--	--	--	--	687
15...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	924
23...	--	--	--	--	--	--	--	--	--	--	686
23...	--	--	--	--	--	--	--	--	--	--	730
23...	--	--	--	--	--	--	--	--	--	--	596
AUG											
01...	--	--	--	--	--	--	--	--	--	--	7
15...	--	--	--	--	--	--	--	--	--	--	696
15...	--	--	--	--	--	--	--	--	--	--	1516
15...	--	--	--	--	--	--	--	--	--	--	716
OCT											
25...	--	--	--	--	--	--	--	--	--	--	602
25...	99	98	90	62	47	38	28	27	20	14	1335
25...	--	--	--	--	--	--	--	--	--	--	1058
25...	--	--	--	--	--	--	--	--	--	--	926
25...	--	--	--	--	--	--	--	--	--	--	696
NOV											
17...	--	--	--	--	--	--	--	--	--	--	528
18...	--	--	--	--	--	--	--	--	--	--	346
JAN , 1981											
14...	--	--	--	--	--	--	--	--	--	--	6
FEB											
02...	--	--	--	--	--	--	--	--	--	--	1782
23...	--	100	99	93	84	75	66	54	42	30	682
APR											
13...	--	--	--	--	--	--	--	--	--	--	--
MAY											
11...	--	--	--	--	--	--	--	--	--	--	572
JUN											
04...	--	--	--	--	--	--	--	--	--	--	942
10...	--	--	--	--	--	--	--	--	--	--	274
10...	--	--	--	--	--	--	--	--	--	--	450
JUL											
01...	--	--	--	--	--	--	--	--	--	--	346
04...	--	--	--	--	--	--	--	--	--	--	1234
20...	--	--	--	--	--	--	--	--	--	--	2780
23...	--	--	--	--	--	--	--	--	--	--	650
AUG											
12...	--	--	--	--	--	92	--	--	--	--	265

APPENDIX B

01651000 - NW B ANACOSTIA R NR HYATTSVILLE, MD

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TEMPER-ATURE (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-ACEOUS (MG/L) (00320)	DEOXY-GENA-TION CON-STANT K1 TO BASE E (00325)	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
DEC , 1981												
14...	1050	7.0	1.5	--	--	--	--	--	--	--	--	--

APPENDIX B

01651000 - NW B ANACOSTIA R NR HYATTSVILLE, MD

WATER QUALITY DATA

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
DEC , 1981												
14...	--	--	--	--	--	--	--	--	--	--	--	--

APPENDIX B

01651000 - NW B ANACOSTIA R NR HYATTSVILLE, MD

WATER QUALITY DATA

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SEDIMENT, SUSPENDED (MG/L) (80154)
DEC, 1981											
14...	--	--	--	--	--	--	--	--	--	--	--

APPENDIX B

01657667 - OCCOQUAN RIVER BL OCCOQUAN DAM AT OCCOQUAN,VA.

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TEMPER-ATURE (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-ACEOUS (MG/L) (00320)	DEOXY-GENA-TION CON-STANT K1 TO BASE E (00325)	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
MAY , 1979												
23...	0945	--	--	--	5.2	--	.07	--	--	--	--	--
SEP												
06...	1250	--	--	--	6.9	--	.12	--	--	--	--	--
07...	1546	--	--	--	9.1	--	.08	--	7.6	.142	.058	--
08...	1431	--	--	--	8.0	--	.07	--	8.2	.132	.077	--
26...	1030	--	--	--	--	--	--	--	--	--	--	--
OCT												
04...	1155	--	--	--	5.2	--	.09	--	--	--	--	--
12...	1100	--	--	--	5.3	--	.09	--	9.4	.088	.052	--
NOV												
02...	1700	--	--	--	3.4	--	.11	--	12	.029	.012	--
03...	1009	--	--	--	--	--	--	--	--	--	--	--
20...	1010	--	--	--	5.2	--	.07	--	12	.034	.014	--
23...	1045	--	--	--	6.4	--	.07	--	--	--	--	--
26...	1630	--	--	--	--	--	--	--	--	--	--	--
26...	2240	--	--	--	--	--	--	--	--	--	--	--
27...	1040	--	--	--	7.5	--	.03	--	12	.047	.019	--
DEC												
03...	0936	--	--	--	--	--	--	--	--	--	--	--
13...	1345	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980												
11...	1345	--	--	--	--	--	--	--	--	--	--	--
12...	0935	--	--	--	4.2	4.2	--	.08	--	--	--	--
14...	1105	--	--	--	4.7	2.3	--	.21	--	--	--	--
18...	1500	--	--	--	6.1	--	.05	--	10	.025	.008	--
18...	2325	--	--	--	6.6	--	.06	--	9.7	.047	.015	--
19...	0620	--	--	--	7.0	--	.06	--	9.9	.054	.020	--
19...	1230	--	--	--	7.6	--	.06	--	10	.069	.027	--
19...	1840	--	--	--	6.2	--	.08	--	9.8	.076	.031	--
19...	2305	--	--	--	6.9	--	.05	--	10	.064	.034	--
20...	1000	--	--	--	6.3	--	.05	--	10	.069	.023	--
20...	1820	--	--	--	6.9	--	.06	--	10	.069	.027	--
21...	1710	--	--	--	6.8	--	.07	--	10	.071	.022	--
MAR												
14...	1117	--	--	--	2.2	--	.08	--	11	.030	.010	1.6
15...	1100	--	--	--	4.2	--	.07	--	11	.030	.010	.92
APR												
09...	2315	--	--	--	6.3	--	.04	--	10	.050	.040	1.3
10...	2035	--	--	--	4.2	--	.10	--	10	.040	.020	1.0

APPENDIX B

01657667 - OCCOQUAN RIVER BL OCCOQUAN DAM AT OCCOQUAN,VA.

WATER QUALITY DATA

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
MAY , 1979												
23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
06...	--	--	--	--	--	--	--	--	--	--	--	--
07...	1.1	1.10	.76	--	--	--	--	--	.37	--	--	--
08...	1.2	.97	.80	--	--	--	--	--	.37	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
12...	.91	.52	.47	--	--	--	--	--	.44	--	--	--
NOV												
02...	.87	.64	.42	--	--	--	--	--	.45	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--
20...	.79	.62	.39	--	--	--	--	--	.40	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
27...	1.1	.64	.62	--	--	--	--	--	.43	--	--	--
DEC												
03...	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980												
11...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
18...	.95	.39	.26	--	--	--	--	--	.69	--	--	--
18...	2.0	.59	1.2	--	--	--	--	--	.76	--	--	--
19...	2.0	.51	1.1	--	--	--	--	--	.85	--	--	--
19...	1.7	.68	.74	--	--	--	--	--	.93	--	--	--
19...	1.9	.97	.90	--	--	--	--	--	.96	--	--	--
19...	2.1	.75	1.1	--	--	--	--	--	.99	--	--	--
20...	1.6	.65	.65	--	--	--	--	--	.90	--	--	--
20...	1.8	1.00	.86	--	--	--	--	--	.90	--	--	--
21...	1.4	.83	.62	--	--	--	--	--	.82	--	--	--
MAR												
14...	1.6	.90	.83	.90	.82	.000	.010	.66	.73	--	--	--
15...	.86	.26	.19	.26	.19	.000	.000	.66	.67	--	--	--
APR												
09...	1.4	.58	.68	.47	.65	.110	.030	.73	.71	--	--	--
10...	1.3	.15	.42	.04	.38	.110	.040	.86	.83	--	--	--

APPENDIX B

01657667 - OCCOQUAN RIVER BL OCCOQUAN DAM AT OCCOQUAN,VA.

WATER QUALITY DATA

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SEDIMENT, SUSPENDED (MG/L) (80154)
MAY , 1979											
23...	--	--	--	--	--	--	--	--	--	--	4
SEP											
06...	--	--	--	--	--	--	--	--	--	--	43
07...	--	--	--	--	--	--	--	--	--	--	46
08...	--	--	--	--	--	--	--	--	--	--	26
26...	--	--	--	--	--	--	--	--	--	--	14
OCT											
04...	--	--	--	--	--	--	--	--	--	100	54
12...	--	100	98	98	98	97	96	96	96	92	40
NOV											
02...	--	--	--	--	--	--	--	--	--	--	5
03...	--	--	--	--	--	--	--	--	--	--	3
20...	--	--	--	--	--	--	--	--	--	--	3
23...	--	--	--	--	--	--	--	--	--	--	6
26...	--	--	--	--	--	--	--	--	--	--	6
26...	--	--	--	--	--	--	--	--	--	--	5
27...	--	--	--	--	--	--	--	--	--	--	11
DEC											
03...	--	--	--	--	--	--	--	--	--	--	5
13...	--	--	--	--	--	--	--	--	--	--	7
JAN , 1980											
11...	--	--	--	--	--	--	--	--	--	--	4
12...	--	--	--	--	--	--	--	--	--	--	5
14...	--	--	--	--	--	--	--	--	--	--	5
18...	--	--	--	--	--	--	--	--	--	--	10
18...	--	--	--	--	--	--	--	--	--	--	15
19...	--	--	--	--	--	--	--	--	--	--	20
19...	--	--	--	--	--	--	--	--	--	--	20
19...	--	--	--	--	--	--	--	--	--	--	20
19...	--	--	--	--	--	--	--	--	--	--	22
20...	--	--	--	--	--	--	--	--	--	--	27
20...	--	--	--	--	--	--	--	--	--	--	27
21...	--	--	--	--	--	--	--	--	--	--	23
MAR											
14...	--	--	--	--	--	--	--	--	--	--	3
15...	--	--	--	--	--	--	--	--	--	--	6
APR											
09...	--	--	--	--	--	--	--	--	--	--	9
10...	--	--	--	--	--	--	--	--	--	--	6

APPENDIX B

01661050 - ST CLEMENT C NR CLEMENTS, MD

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TEMPER-ATURE (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-ACEOUS (MG/L) (00320)	DEOXY-GENA-TION CON-STANT K1 TO BASE E (00325)	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	SILICA, DIS-SOLVED (MG/L AS SI02) (00955)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
OCT , 1980												
25...	1400	43	14.0	--	13	13	--	.16	--	.550	.050	1.6
25...	1607	43	--	--	--	--	--	--	--	--	--	--
25...	1807	43	--	--	--	--	--	--	--	--	--	--
25...	2007	43	--	--	--	--	--	--	--	--	--	--
25...	2207	43	--	--	--	--	--	--	--	--	--	--
26...	0007	43	--	--	--	--	--	--	--	--	--	--
26...	0207	43	--	--	--	--	--	--	--	--	--	--
NOV												
18...	1245	43	--	--	12	9.0	--	.23	--	.120	.040	.78
JAN , 1981												
14...	1345	2.1	.0	--	4.5	2.8	--	.08	13	.040	.020	.99
FEB												
11...	1400	44	3.0	--	8.0	8.0	--	.11	--	.160	.030	1.5
21...	0500	91	--	--	13	--	.07	--	--	.340	--	1.9
MAR												
30...	2200	79	--	--	--	--	--	--	--	.390	--	2.7
APR												
06...	0001	79	--	--	8.4	--	.14	--	--	.170	--	1.2
13...	0900	54	--	--	7.7	--	.08	--	--	.100	--	.75
13...	1200	48	--	--	--	--	--	--	8.0	--	--	--
MAY												
01...	2400	30	--	--	12	--	.11	--	--	.300	--	1.7
12...	0600	115	--	--	14	--	.07	--	--	.290	--	1.7
28...	2100	146	--	--	11	--	.13	--	--	2.50	--	2.1
JUN												
10...	2300	34	--	--	--	--	--	--	--	--	--	--
14...	0200	44	--	--	8.4	--	.06	--	--	.130	--	1.2
14...	0600	171	--	--	11	--	.10	--	--	2.90	--	4.6
14...	1635	150	--	--	9.3	7.4	--	.11	6.6	.520	.020	1.9
20...	1600	67	--	--	--	--	--	--	--	.170	--	--
20...	2000	241	--	--	--	--	--	--	--	.780	--	--
20...	2400	363	--	--	--	--	--	--	--	.690	--	--
21...	0400	302	--	--	--	--	--	--	--	.530	--	--
21...	0800	171	--	--	--	--	--	--	--	.370	--	--
21...	1200	105	--	--	--	--	--	--	--	.260	--	--
21...	1600	61	--	--	--	--	--	--	--	.230	--	--
21...	2000	39	--	--	--	--	--	--	--	.170	--	--
JUL												
29...	1345	5.3	--	--	3.9	--	.10	--	--	.120	--	.82
SEP												
16...	1200	9.7	--	136	13	--	.09	--	5.0	.104	--	.61

APPENDIX B

01661050 - ST CLEMENT C NR CLEMENTS, MD

WATER QUALITY DATA

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
OCT , 1980												
25...	.94	1.10	.46	.98	.39	.120	.070	.49	.48	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
18...	.64	.46	.33	.42	.26	.040	.070	.32	.31	--	--	--
JAN , 1981												
14...	.86	.51	.37	.24	.10	.270	.270	.48	.49	--	--	--
FEB												
11...	.87	1.10	.47	.94	.34	.160	.130	.42	.40	--	--	--
21...	--	1.40	--	1.1	--	.310	--	.51	--	--	--	--
MAR												
30...	--	2.20	--	2.0	--	.220	--	.48	--	--	--	--
APR												
06...	--	.97	--	.84	--	.130	--	.24	--	--	--	--
13...	--	.50	--	.33	--	.170	--	.25	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
01...	--	1.30	--	.84	--	.460	--	.42	--	--	--	--
12...	--	1.40	--	1.1	--	.310	--	.25	--	--	--	--
28...	--	1.60	--	.98	--	.620	--	.50	--	--	--	--
JUN												
10...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	.73	--	.42	--	.310	--	.43	--	--	--	--
14...	--	2.60	--	--	--	--	--	2.0	--	--	--	--
14...	1.2	1.40	.66	1.2	.58	.250	.080	.50	.50	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
29...	--	.65	--	.62	--	.030	--	.17	--	--	--	--
SEP												
16...	--	.48	--	.40	--	.080	--	.13	--	--	--	--

APPENDIX B

01661050 - ST CLEMENT C NR CLEMENTS, MD

WATER QUALITY DATA

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SEDIMENT, SUSPENDED (MG/L) (80154)
OCT , 1980											
25...	--	--	--	--	--	--	--	--	--	--	408
25...	--	--	--	--	--	--	--	--	--	--	146
25...	--	--	--	--	--	--	--	--	--	--	153
25...	--	--	--	--	--	--	--	--	--	--	92
25...	--	--	--	--	--	--	--	--	--	--	78
26...	--	--	--	--	--	--	--	--	--	--	62
26...	--	--	--	--	--	--	--	--	--	--	51
NOV											
18...	--	--	--	--	--	--	--	--	--	--	37
JAN , 1981											
14...	--	--	--	--	--	--	--	--	--	--	7
FEB											
11...	--	--	--	--	--	--	--	--	--	--	139
21...	--	--	--	--	--	--	--	--	--	--	215
MAR											
30...	--	--	--	--	--	--	--	--	--	--	292
APR											
06...	--	--	--	--	--	--	--	--	--	--	99
13...	--	--	--	--	--	--	--	--	--	--	75
13...	--	--	--	--	--	57	--	--	--	--	102
MAY											
01...	--	--	--	--	--	--	--	--	--	--	226
12...	--	--	--	--	--	--	--	--	--	--	402
28...	--	--	--	--	--	--	--	--	--	--	957
JUN											
10...	--	--	--	--	--	--	--	--	--	--	106
14...	--	--	--	--	--	--	--	--	--	--	59
14...	--	--	--	--	--	--	--	--	--	--	2061
14...	--	--	--	--	--	93	--	--	--	--	403
20...	--	--	--	--	--	--	--	--	--	--	1230
20...	--	--	--	--	--	--	--	--	--	--	666
20...	--	--	--	--	--	--	--	--	--	--	470
21...	--	--	--	--	--	--	--	--	--	--	321
21...	--	--	--	--	--	--	--	--	--	--	192
21...	--	--	--	--	--	--	--	--	--	--	139
21...	--	--	--	--	--	--	--	--	--	--	99
21...	--	--	--	--	--	--	--	--	--	--	97
JUL											
29...	--	--	--	--	--	--	--	--	--	--	32
SEP											
16...	--	--	--	--	--	98	--	--	--	--	41

APPENDIX B

01661050 - ST CLEMENT C NR CLEMENTS, MD

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TEMPER-ATURE (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	OXYGEN DEMAND, BIOCHEM UNINHIB ULT. (MG/L) (00319)	OXYGEN DEMAND, BIOCHEM ULT. CARBON-ACEOUS (MG/L) (00320)	DEOXY-GENA-TION CON-STANT K1 TO BASE E (00325)	DEOXYGE NATION CARBON K1 TO BASE E PER DAY AT 20C (82133)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
OCT , 1981												
26...	1042	12	--	--	16	--	.10	--	--	.070	--	.57
27...	1106	7.7	13.0	120	7.0	--	.07	--	11	.050	.040	.62
27...	2200	30	--	--	--	--	--	--	--	.190	--	--
28...	0400	29	--	--	--	--	--	--	--	.140	--	--
28...	1000	26	--	--	--	--	--	--	--	.100	--	--
NOV												
17...	0945	3.7	9.0	--	--	--	--	--	--	--	--	--
DEC												
15...	1115	15	2.5	--	--	--	--	--	--	--	--	--

APPENDIX B

01661050 - ST CLEMENT C NR CLEMENTS, MD

WATER QUALITY DATA

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
OCT , 1981												
26...	--	.49	--	.32	--	.170	--	.08	--	--	--	--
27...	.64	.52	.57	.43	.52	.090	.050	.10	.07	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
17...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
15...	--	--	--	--	--	--	--	--	--	--	--	--

APPENDIX B

01661050 - ST CLEMENT C NR CLEMENTS, MD

WATER QUALITY DATA

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SEDIMENT, SUSPENDED (MG/L) (80154)
OCT , 1981											
26...	--	--	--	--	--	--	--	--	--	--	14
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	138
28...	--	--	--	--	--	--	--	--	--	--	71
28...	--	--	--	--	--	--	--	--	--	--	15
NOV											
17...	--	--	--	--	--	--	--	--	--	--	--
DEC											
15...	--	--	--	--	--	--	--	--	--	--	--

Appendix C.--Chlorophyll data

[In this appendix, the following abbreviations are used:

CORR is corrected,
ACID M is acid method,
UNCORR is uncorrected, and
UG/L is micrograms per liter]

APPENDIX C

01648000 - ROCK C AT SHERRILL DR WASH, DC

WATER QUALITY DATA

DATE	TIME	CHLOROHPYLL A PHYTOPLANKTON ACID M. (UG/L) (32211)	CHLOROPHYLL A PHYTOPLANKTON, UNCORR. (UG/L) (32230)	PHEOPHYTIN PHYTOPLANKTON, ACID M. (UG/L) (32218)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	CHLOROPHYLL A FLOURO-METRIC METHOD UNCORR. (UG/L) (32217)	PHEOPHYTIN A FLUOROMETRIC METHOD (UG/L) (32213)
AUG , 1979							
06...	1655	33.0	35.7	1.30	--	--	--
SEP							
05...	1450	16.2	22.6	9.20	--	--	--
05...	1710	12.0	12.2	<.000	--	--	--
05...	1840	8.00	10.4	3.20	--	--	--
05...	1935	.000	.000	.000	--	--	--
05...	2200	8.00	7.00	<.000	--	--	--
OCT							
03...	1420	<4.10	<7.10	4.50	--	--	--
10...	1120	--	--	--	5.20	7.80	5.30
NOV							
10...	1035	--	--	--	16.5	19.8	6.80
MAR , 1980							
13...	2005	--	--	--	178	190	28.7
14...	1155	--	--	--	13.8	18.0	9.10
17...	1230	--	--	--	7.70	8.70	2.30
21...	0800	--	--	--	19.7	24.5	10.6
21...	1330	--	--	--	13.9	16.4	5.40

APPENDIX C

01649500 - NE B ANACOSTIA R AT RIVERDALE, MD

WATER QUALITY DATA

DATE	TIME	CHLOROHPYLL A PHYTOPLANKTON ACID M. (UG/L) (32211)	CHLOROPHYLL A PHYTOPLANKTON, UNCORR. (UG/L) (32230)	PHEOPHYTIN PHYTOPLANKTON, ACID M. (UG/L) (32218)	CHLOROPHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	CHLOROPHYLL A FLOURO-METRIC METHOD UNCORR. (UG/L) (32217)	PHEOPHY-TIN A FLUORO-METRIC METHOD (UG/L) (32213)
JUN , 1979							
30...	1600	5.83	6.76	.970	--	--	--
30...	1725	76.1	96.1	25.4	--	--	--
30...	1815	76.1	102	34.4	--	--	--
30...	1945	21.4	28.4	9.48	--	--	--
AUG							
13...	1215	4.80	6.60	2.50	--	--	--
SEP							
05...	1445	16.0	15.0	3.00	--	--	--
05...	1755	24.0	28.0	4.00	--	--	--
NOV							
02...	1525	--	--	--	5.00	5.70	1.40
10...	1248	--	--	--	43.7	58.7	31.1
MAR , 1980							
13...	2000	--	--	--	70.8	92.1	46.0
17...	1155	--	--	--	5.70	6.40	1.70
21...	1300	--	--	--	12.0	16.2	9.00

APPENDIX C

01651000 - NW B ANACOSTIA R NR HYATTSVILLE, MD

WATER QUALITY DATA

DATE	TIME	CHLORO-HPYLL A PHYTO-PLANK-TON ACID M. (UG/L) (32211)	CHLORO-PHYLL A PHYTO-PLANK-TON, UNCORR. (UG/L) (32230)	PHEO-PHYTIN PHYTO-PLANK-TON, ACID M. (UG/L) (32218)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	CHLORO-PHYLL A FLOURO-METRIC METHOD UNCORR. (UG/L) (32217)	PHEOPHY-TIN A FLUORO-METRIC METHOD (UG/L) (32213)
JUN , 1979							
30...	1515	2.70	3.20	.600	--	--	--
SEP							
05...	1305	27.0	35.0	11.0	--	--	--
06...	1455	.000	.000	.000	--	--	--
NOV							
02...	1715	--	--	--	2.50	3.20	1.30
MAR , 1980							
17...	1055	--	--	--	1.50	2.10	1.20
21...	1500	--	--	--	17.4	23.4	12.9

APPENDIX C

01657667 - OCCOQUAN RIVER BL OCCOQUAN DAM AT OCCOQUAN,VA.

WATER QUALITY DATA

DATE	TIME	CHLOROHPYLL A PHYTOPLANKTON ACID M. (UG/L) (32211)	CHLOROPHYLL A PHYTOPLANKTON, UNCORR. (UG/L) (32230)	PHEOPHYTIN PHYTOPLANKTON, ACID M. (UG/L) (32218)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	CHLOROPHYLL A FLOUROMETRIC METHOD UNCORR. (UG/L) (32217)	PHEOPHY-TIN A FLUOROMETRIC METHOD (UG/L) (32213)
OCT , 1979							
04...	1155	<4.00	<4.40	.200	--	--	--
12...	1100	--	--	--	2.50	3.40	1.80
NOV							
02...	1700	--	--	--	5.10	8.10	6.10
03...	1009	--	--	--	9.20	12.7	7.00
MAR , 1980							
14...	1117	--	--	--	10.8	12.6	4.00
15...	1100	--	--	--	11.0	12.3	2.90

Appendix D.--Abundance and generic composition of phytoplankton

[In this appendix, the abbreviation, ML, is milliliter]

APPENDIX D

01648000 ROCK C AT SHERRILL DR WASH, DC

PHYTOPLANKTON ANALYSES, DECEMBER 1979 TO MAY 1980

DATE	DEC 6,79	DEC 12,79	DEC 21,79	DEC 27,79	JAN 7,80	JAN 8,80
TIME	1035	1130	1330	1135	1150	1450
TOTAL CELLS/ML	2700	200	390	790	590	980
DIVERSITY: DIVISION	1.3	0.0	1.0	0.0	0.9	1.5
.CLASS	0.0	0.0	0.0	0.0	0.9	1.5
..ORDER	0.0	0.0	0.0	0.8	0.9	1.5
...FAMILY	0.0	0.0	0.0	0.8	0.9	0.0
....GENUS	0.0	0.0	0.0	0.8	0.0	0.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
BACILLARIOPHYTA (DIATOMS)												
.BACILLARIOPHYCEAE												
..ACHNANTHALES												
...ACHNANTHACEAE												
....ACHNANTHES	--	-	--	-	--	-	--	-	--	-	--	-
..BACILLARIALES												
...NITZSCHIACEAE												
....NITZSCHIA	--	-	200#	100	--	-	--	-	--	-	--	-
..EUPODISCALES												
...COSCINODISCACEAE												
....CYCLOTELLA	--	-	--	-	--	-	--	-	--	-	--	-
....MELOSIRA	--	-	--	-	--	-	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-	--	-
..FRAGILARIALES												
...FRAGILARIACEAE												
....DIATOMA	--	-	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	590#	75	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	--	-	--	-	--	-
..NAVICULALES												
...CYMBELLACEAE												
....CYMBELLA	--	-	--	-	--	-	--	-	--	-	--	-
...GOMPHONEMACEAE												
....GOMPHONEMA	--	-	--	-	--	-	--	-	--	-	200#	20
...NAVICULACEAE												
....FRUSTULIA	--	-	--	-	--	-	--	-	--	-	--	-
....NAVICULA	--	-	--	-	--	-	200#	25	--	-	200#	20
..SURIRELLALES												
...SURIRELLACEAE												
....SURIRELLA	--	-	--	-	--	-	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE	--	-	--	-	--	-	--	-	--	-	--	-
..CHLOROCOCCALES	200	7	--	-	--	-	--	-	--	-	390#	40
...CHLOROCOCCACEAE												
....CHARACIUM	--	-	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	200#	50	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
..ULOTRICHALES												
...ULOTRICHACEAE												
....ULOTHRIX	--	-	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.CHRYSOPHYCEAE												
..CHROMULINALES												
...CHRYSOCOCCACEAE												
....CHRYSOCOCCUS	--	-	--	-	--	-	--	-	--	-	--	-
..OCHROMONADALES												
...DINOBRYACEAE												
....DINOBRYON	--	-	--	-	--	-	--	-	--	-	--	-
.XANTHOPHYCEAE	--	-	--	-	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CRYPTOMONADALES												
...CRYPTOCHRYSIDACEAE												
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE												
....CRYPTOMONAS	--	-	--	-	--	-	--	-	390#	67	200#	20

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

CONTINUED ...

APPENDIX D

01648000 ROCK C AT SHERRILL DR WASH, DC

PHYTOPLANKTON ANALYSES, DECEMBER 1979 TO MAY 1980

DATE TIME	DEC 6,79 1035		DEC 12,79 1130		DEC 21,79 1330		DEC 27,79 1135		JAN 7,80 1150		JAN 8,80 1450	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE	200	7	--	-	--	-	--	-	200#	33	--	-
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
..NOSTOCALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	--	-	--	-	--	-
..OSCILLATORIALES												
...OSCILLATORIACEAE												
....OSCILLATORIA	1400#	50	--	-	--	-	--	-	--	-	--	-
....SPIRULINA	--	-	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
UNKNOWN 20000000D000D0D	980#	36	--	-	200#	50	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

APPENDIX D

01648000 ROCK C AT SHERRILL DR WASH, DC

PHYTOPLANKTON ANALYSES, DECEMBER 1979 TO MAY 1980

DATE	JAN 9,80		JAN 11,80		JAN 11,80		MAR 4,80		MAR 17,80		MAR 21,80	
TIME	1540		0415		1130		1610		1230		1330	
TOTAL CELLS/ML	1600		4300		1400		2200		6000		1700	
DIVERSITY: DIVISION	1.8		0.8		1.1		2.1		2.3		0.7	
.CLASS	1.8		0.8		1.1		0.0		0.0		0.7	
..ORDER	0.0		1.6		2.5		0.0		0.0		1.9	
...FAMILY	0.0		2.0		2.5		0.0		0.0		2.2	
....GENUS	0.0		2.0		2.5		0.0		0.0		2.5	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
BACILLARIOPHYTA (DIATOMS)												
.BACILLARIOPHYCEAE												
..ACHNANTHALES												
...ACHNANTHACEAE												
....ACHNANTHES	--	-	--	-	--	-	--	-	160	3	--	-
..BACILLARIALES												
...NITZSCHIACEAE												
....NITZSCHIA	--	-	590	14	200	14	140	7	160	3	310#	18
..EUPODISCALES												
...COSCINODISCACEAE												
....CYCLOTELLA	--	-	--	-	--	-	--	-	--	-	--	-
....MELOSIRA	--	-	--	-	--	-	140	7	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	140	7	940#	16	--	-
..FRAGILARIALES												
...FRAGILARIACEAE												
....DIATOMA	--	-	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	--	-	--	-	310#	18
....SYNEDRA	--	-	--	-	390#	29	140	7	310	5	310#	18
..NAVICULALES												
...CYMBELLACEAE												
....CYMBELLA	--	-	--	-	--	-	--	-	--	-	--	
...GOMPHONEMACEAE												
....GOMPHONEMA	--	-	--	-	--	-	--	-	160	3	160	9
...NAVICULACEAE												
....FRUSTULIA	--	-	--	-	--	-	--	-	--	-	--	-
....NAVICULA	310#	20	590	14	200	14	290	13	470	8	310#	18
..SURIRELLALES												
...SURIRELLACEAE												
....SURIRELLA	--	-	2000#	45	200	14	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE	470#	30	--	-	--	-	--	-	--	-	--	-
..CHLOROCOCCALES	--	-	--	-	--	-	--	-	--	-	--	-
...CHLOROCOCCACEAE												
....CHARACIUM	--	-	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	310#	20	--	-	200	14	--	-	160	3	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
..ULOTRICHALES												
...ULOTRICHACEAE												
....ULOTHRIX	--	-	--	-	--	-	--	-	160			
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	--	-	290	13	470	8	--	-
CHRYSOPHYTA												
.CHRYSOPHYCEAE												
..CHROMULINALES												
...CHRYSOCOCCACEAE												
....CHRYSOCOCCUS	--	-	--	-	--	-	--	-	--	-	310#	18
..OCHROMONADALES												
...DINOBRYACEAE												
....DINOBRYON	--	-	--	-	--	-	140	7	160	3	--	-
.XANTHOPHYCEAE	--	-	--	-	--	-	--	-	1100#	18	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CRYPTOMONADALES												
...CRYPTOCHRYSIDACEAE												
....CHROOMONAS	--	-	200	5	--	-	140	7	--	-	--	-
...CRYPTOMONADACEAE												
....CRYPTOMONAS	160	10	980#	23	200	14	430#	20	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED LESS THAN 1/2%

CONTINUED ...

APPENDIX D

01648000 ROCK C AT SHERRILL DR WASH, DC

PHYTOPLANKTON ANALYSES, DECEMBER 1979 TO MAY 1980

DATE	JAN 9,80		JAN 11,80		JAN 11,80		MAR 4,80		MAR 17,80		MAR 21,80	
TIME	1540		0415		1130		1610		1230		1330	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE	310#	20	--	-	--	-	--	-	--	-	--	-
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
..NOSTOCALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	--	-	--	-	--	-
..OSCILLATORIALES												
...OSCILLATORIACEAE												
....OSCILLATORIA	--	-	--	-	--	-	--	-	310	5	--	-
....SPIRULINA	--	-	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	--	-	310	5	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
UNKNOWN 200000000000000	--	-	--	-	--	-	290	13	1100#	18	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

APPENDIX D

01648000 ROCK C AT SHERRILL DR WASH, DC

PHYTOPLANKTON ANALYSES, DECEMBER 1979 TO MAY 1980

DATE	MAR 30,80	APR 9,80	APR 9,80	APR 26,80	APR 27,80
TIME	1545	0910	1230	1300	1900
TOTAL CELLS/ML	6600	7700	6800	8600	4100
DIVERSITY: DIVISION	2.0	1.2	0.8	1.6	1.9
.CLASS	2.0	0.0	0.8	0.0	0.0
..ORDER	0.0	0.0	2.1	0.0	0.0
...FAMILY	0.0	0.0	0.0	0.0	0.0
....GENUS	0.0	0.0	0.0	0.0	0.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
BACILLARIOPHYTA (DIATOMS)										
.BACILLARIOPHYCEAE										
..ACHNANTHALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	--	-	--	-	--	-
..BACILLARIALES										
...NITZSCHIACEAE										
....NITZSCHIA	--	-	940	12	160	2	1700#	20	790#	19
..EUPODISCALES										
...COSCINODISCACEAE										
....CYCLOTELLA	--	-	--	-	--	-	--	-	--	-
....MELOSIRA	250	4	160	2	--	-	470	5	--	-
....STEPHANODISCUS	--	-	310	4	470	7	160	2	160	4
..FRAGILARIALES										
...FRAGILARIACEAE										
....DIATOMA	--	-	--	-	160	2	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	630	7	--	-
....SYNEDRA	--	-	1300#	16	940	14	310	4	--	-
..NAVICULALES										
...CYMBELLACEAE										
....CYMBELLA	--	-	--	-	--	-	160	2	--	-
...GOMPHONEMACEAE										
....GOMPHONEMA	--	-	--	-	160	2	160	2	160	4
...NAVICULACEAE										
....FRUSTULIA	--	-	--	-	160	2	--	-	--	-
....NAVICULA	250	4	2800#	37	3500#	51	1900#	22	1100#	27
..SURIRELLALES										
...SURIRELLACEAE										
....SURIRELLA	250	4	470	6	310	5	160	2	--	-
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE	--	-	--	-	--	-	--	-	--	-
..CHLOROCOCCALES	--	-	630	8	470	7	160	2	--	-
...CHLOROCOCCACEAE										
....CHARACIUM	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	980	15	--	-	--	-	--	-	160	4
....OOCYSTIS	250	4	--	-	--	-	--	-	--	-
..ULOTRICHALES										
...ULOTRICHACEAE										
....ULOTHRIX	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	2000#	30	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.CHRYSOPHYCEAE										
..CHROMULINALES										
...CHRYSOCOCCACEAE										
....CHRYSOCOCCUS	--	-	470	6	--	-	160	2	--	-
..OCHROMONADALES										
...DINOBRYACEAE										
....DINOBRYON	--	-	--	-	--	-	--	-	--	-
.XANTHOPHYCEAE	740	11	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
....CHRODOMONAS	250	4	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE										
....CRYPTOMONAS	980	15	310	4	310	5	470	5	470	12

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

CONTINUED ...

APPENDIX D

01646000 ROCK C AT SHERRILL DR WASH, DC

PHYTOPLANKTON ANALYSES, DECEMBER 1979 TO MAY 1980

DATE TIME	MAR 30,80 1545		APR 9,80 0910		APR 9,80 1233		APR 26,80 1300		APR 27,80 1900	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE	--	-	--	-	--	-	310	4	470	12
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	490	7	--	-	--	-	--	-	--	-
..NOSTOCALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	--	-	310	8
..OSCILLATORIALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	250	4	160	2	--	-	630	7	160	4
....SPIRULINA	--	-	--	-	--	-	160	2	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	160	2	--	-	160	4
UNKNOWN 200000000000000	--	-	160	2	--	-	1100	13	160	4

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

APPENDIX D

01648000 ROCK C AT SHERRILL DR WASH, DC

PHYTOPLANKTON ANALYSES, DECEMBER 1979 TO MAY 1980

DATE	MAY 18,80		MAY 18,80		MAY 20,80		MAY 21,80		MAY 21,80	
TIME	1115		1615		2110		0100		1035	
TOTAL CELLS/ML	5200		2200		2400		3500		1300	
DIVERSITY: DIVISION	1.2		1.1		2.1		2.1		2.0	
.CLASS	1.2		1.1		0.0		0.0		0.0	
..ORDER	2.3		2.5		0.0		0.0		0.0	
...FAMILY	2.3		0.0		0.0		0.0		0.0	
....GENUS	2.4		0.0		0.0		0.0		0.0	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
BACILLARIOPHYTA (DIATOMS)										
.BACILLARIOPHYCEAE										
..ACHNANTHALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	310	13	--	-	--	-
..BACILLARIALES										
...NITZSCHIACEAE										
....NITZSCHIA	470	9	310	14	--	-	160	5	160	13
..EUPODISCALES										
...COSCINODISCACEAE										
....CYCLOTELLA	310	6	--	-	--	-	--	-	--	-
....MELOSIRA	--	-	160	7	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	310	9	160	13
..FRAGILARIALES										
...FRAGILARIACEAE										
....DIATOMA	160	3	160	7	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	160	3	--	-	--	-	--	-	--	-
..NAVICULALES										
...CYMBELLACEAE										
....CYMBELLA	--	-	--	-	--	-	--	-	--	-
...GOMPHONEMACEAE										
....GOMPHONEMA	--	-	160	7	--	-	--	-	160	13
...NAVICULACEAE										
....FRUSTULIA	--	-	--	-	--	-	--	-	--	-
....NAVICULA	1600#	30	630#	29	310	13	310	9	160	13
..SURIRELLALES										
...SURIRELLACEAE										
....SURIRELLA	310	6	160	7	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE	--	-	--	-	--	-	--	-	--	-
..CHLOROCOCCALES	--	-	160	7	--	-	630#	18	--	-
...CHLOROCOCCACEAE										
....CHARACIUM	--	-	--	-	--	-	790#	23	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	310	14	310	13	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	--	-
..ULOTRICHALES										
...ULOTRICHACEAE										
....ULOTHRIX	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.CHRYSOPHYCEAE										
..CHROMULINALES										
...CHRYSOCOCCACEAE										
....CHRYSOCOCCUS	--	-	--	-	160	7	--	-	160	13
..OCHROMONADALES										
...DINOBRYACEAE										
....DINOBRYON	--	-	--	-	--	-	--	-	--	-
.XANTHOPHYCEAE	--	-	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE										
....CRYPTOMONAS	310	6	160	7	--	-	310	9	160	13

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

CONTINUED ...

APPENDIX D

01648000 ROCK C AT SHERRILL DR WASH, DC

PHYTOPLANKTON ANALYSES, DECEMBER 1979 TO MAY 1980

DATE TIME	MAY 18,80 1115		MAY 18,80 1615		MAY 20,80 2110		MAY 21,80 0100		MAY 21,80 1035	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE	--	-	--	-	470#	20	160	5	--	-
....AGMENELLUM	--	-	--	-	160	7	--	-	--	-
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-
..NOSTOCALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	--	-	--	-
..OSCILLATORIALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	1900#	36	--	-	160	7	160	5	160	13
....SPIRULINA	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-
UNKNOWN 200000000000000	--	-	--	-	470#	20	630#	18	160	13

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

APPENDIX D

01649500 NE B ANACOSTIA R AT RIVERDALE, MD

PHYTOPLANKTON ANALYSES, JANUARY 1980 TO JULY 1980

DATE TIME	JAN 2,80 1300		JAN 11,80 1440		JAN 16,80 1045		JAN 17,80 1145		MAR 17,80 1155	
TOTAL CELLS/ML	200		2900		8600		11000		1500	
DIVERSITY: DIVISION	0.0		1.2		1.3		1.3		1.3	
.CLASS	0.0		1.2		0.0		0.0		0.0	
..ORDER	0.0		1.7		0.0		0.0		0.0	
...FAMILY	0.0		0.0		0.0		0.0		0.0	
....GENUS	0.0		0.0		0.0		0.0		0.0	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
BACILLARIOPHYTA (DIATOMS)										
.BACILLARIOPHYCEAE										
..ACHNANTHALES										
...ACHNANTHACEAE										
....ACHNANTHES	200#	100	--	-	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-	--	-
..BACILLARIALES										
...NITZSCHIACEAE										
....NITZSCHIA	--	-	--	-	--	-	--	-	--	-
..EUPODISCALES										
...COSCINODISCACEAE										
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-
..FRAGILARIALES										
...FRAGILARIACEAE										
....DIATOMA	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	310	3	--	-
....SYNEDRA	--	-	--	-	310	4	--	-	--	-
..NAVICULALES										
...CYMBELLACEAE										
....CYMBELLA	--	-	--	-	160	2	--	-	--	-
...GOMPHONEMACEAE										
....GOMPHONEMA	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....NAVICULA	--	-	--	-	--	-	160	1	--	-
..SURIRELLALES										
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE	--	-	--	-	--	-	--	-	--	-
..CHLOROCOCCALES	--	-	200	7	2000#	24	1600	14	--	-
...CHLOROCOCCACEAE										
....TETRAEDRON	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	1600#	53	790	9	310	3	--	-
..ULOTRICHALES										
...ULOTRICHACEAE										
....ULOTHRIX	--	-	200	7	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	980#	67
..ZYGNEMATALES										
...DESMIDIACEAE										
....COSMARIUM	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.CHRYSOPHYCEAE										
..CHROMULINALES										
...CHRYSOCOCCACEAE										
....CHRYSOCOCCUS	--	-	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	160	2	--	-	--	-
....RHODOMONAS	--	-	--	-	--	-	160	1	--	-
...CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	390	13	--	-	470	4	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)	--	-	--	-	160	2	--	-	--	-
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE	--	-	390	13	5000#	58	8300#	73	--	-
..OSCILLATORIALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	200	7	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE	--	-	--	-	--	-	--	-	250#	17
UNKNOWN 2000D000D000D000	--	-	--	-	--	-	150	1	250#	17

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

APPENDIX D

01649500 NE B ANACOSTIA R AT RIVERDALE, MD

PHYTOPLANKTON ANALYSES, JANUARY 1980 TO JULY 1980

DATE	MAR 30,80	APR 14,80	APR 14,80	APR 16,80	APR 24,80
TIME	1500	0845	1315	1400	2015
TOTAL CELLS/ML	3700	5000	13000	2200	32000
DIVERSITY: DIVISION	1.5	1.5	1.3	0.7	1.7
.CLASS	1.5	0.0	0.0	0.7	0.0
..ORDER	2.0	0.0	0.0	1.1	0.0
...FAMILY	2.0	0.0	0.0	0.0	0.0
....GENUS	2.0	0.0	0.0	0.0	0.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
BACILLARIOPHYTA (DIATOMS)										
.BACILLARIOPHYCEAE										
..ACHNANTHALES										
...ACHNANTHACEAE										
....ACHNANTHES	180	5	160	3	310	2	160	7	310	1
....COCCONEIS	--	-	160	3	--	-	--	-	--	-
..BACILLARIALES										
...NITZSCHIACEAE										
....NITZSCHIA	--	-	310	6	790	6	--	-	940	3
..EUPODISCALES										
...COSCINODISCACEAE										
....STEPHANODISCUS	700#	19	310	6	470	4	160	7	630	2
..FRAGILARIALES										
...FRAGILARIACEAE										
....DIATOMA	--	-	--	-	790	6	--	-	--	-
....FRAGILARIA	--	-	310	6	--	-	--	-	310	1
....SYNEDRA	--	-	470	9	310	2	160	7	2500	8
..NAVICULALES										
...CYMBELLACEAE										
....CYMBELLA	--	-	--	-	--	-	--	-	630	2
...GOMPHONEMACEAE										
....GOMPHONEMA	--	-	310	6	160	1	--	-	630	2
...NAVICULACEAE										
....NAVICULA	180	5	470	9	6000#	47	--	-	3500	11
..SURIRELLALES										
...SURIRELLACEAE										
....SURIRELLA	--	-	310	6	470	4	--	-	10000#	32
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE	--	-	--	-	--	-	--	-	--	-
..CHLOROCOCCALES	--	-	940#	19	1600	12	1700#	79	3600	11
...CHLOROCOCCACEAE										
....TETRAEDRON	--	-	--	-	--	-	--	-	*	0
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	470	9	310	2	--	-	*	0
..ULOTRICHALES										
...ULOTRICHACEAE										
....ULOTHRIX	180	5	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	1800#	48	--	-	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....COSMARIUM	--	-	--	-	--	-	--	-	470	1
CHRYSOPHYTA										
.CHRYSOPHYCEAE										
..CHROMULINALES										
...CHRYSOCOCCACEAE										
....CHRYSOCOCCUS	--	-	--	-	160	1	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	310	2	--	-	*	0
....RHODOMONAS	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE										
....CRYPTOMONAS	700#	19	--	-	160	1	--	-	4600	14
CYANOPHYTA (BLUE-GREEN ALGAE)	--	-	--	-	--	-	--	-	--	-
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE	--	-	--	-	--	-	--	-	*	0
..OSCILLATORIALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	630	13	470	4	--	-	2700	8
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE	--	-	--	-	--	-	--	-	--	-
UNKNOWN 200000000000000	--	-	160	3	470	4	--	-	630	2

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

APPENDIX D

01649500 NE B ANACOSTIA R AT RIVERDALE, MD

PHYTOPLANKTON ANALYSES, JANUARY 1980 TO JULY 1980

DATE	APR 26,80		APR 27,80		MAY 20,80		JUL 23,80	
TIME	1615		1940		1330		1455	
TOTAL CELLS/ML	12000		1100		1900		6500	
DIVERSITY: DIVISION	1.1		0.6		2.0		0.9	
.CLASS	0.0		0.6		2.0		0.9	
..ORDER	0.0		1.1		2.7		1.6	
...FAMILY	0.0		2.1		0.0		0.0	
....GENUS	0.0		2.1		0.0		0.0	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
BACILLARIOPHYTA (DIATOMS)								
.BACILLARIOPHYCEAE								
..ACHNANTHALES								
...ACHNANTHACEAE								
....ACHNANTHES	310	3	--	-	160	8	--	-
....COCCONEIS	--	-	--	-	--	-	--	-
..BACILLARIALES								
...NITZSCHIACEAE								
....NITZSCHIA	310	3	--	-	--	-	260	4
..EUPODISCALES								
...COSCINODISCACEAE								
....STEPHANODISCUS	--	-	--	-	--	-	--	-
..FRAGILARIALES								
...FRAGILARIACEAE								
....DIATOMA	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	--	-
....SYNEDRA	2200#	18	150	14	--	-	--	-
..NAVICULALES								
...CYMBELLACEAE								
....CYMBELLA	160	1	470#	43	--	-	--	-
...GOMPHONEMACEAE								
....GOMPHONEMA	310	3	150	14	--	-	--	-
...NAVICULACEAE								
....NAVICULA	3500#	29	150	14	310#	17	260	4
..SURIRELLALES								
...SURIRELLACEAE								
....SURIRELLA	2500#	21	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE	160	1	--	-	--	-	--	-
..CHLOROCOCCALES	--	-	--	-	160	8	260	4
...CHLOROCOCCACEAE								
....TETRAEDRON	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	150	14	160	8	520	8
..ULOTRICHALES								
...ULOTRICHACEAE								
....ULOTHRIX	--	-	--	-	160	8	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.CHRYSOPHYCEAE								
..CHROMULINALES								
...CHRYSOCOCCACEAE								
....CHRYSOCOCCUS	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	--	-
....RHODOMONAS	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE								
....CRYPTOMONAS	470	4	--	-	470#	25	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)	--	-	--	-	--	-	--	-
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE	160	1	--	-	310#	17	1000#	16
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	160	8	4200#	64
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE	--	-	--	-	--	-	--	-
UNKNOWN 200000000000000	1900#	16	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

APPENDIX D

01651000 NW B ANACOSTIA R NR HYATTSVILLE, MD

PHYTOPLANKTON ANALYSES, JANUARY 1980 TO MAY 1980

DATE	JAN 11,80		MAR 4,80		MAR 30,80		APR 14,80	
TIME	1600		1645		1710		1000	
TOTAL CELLS/ML	2700		1500		2700		1900	
DIVERSITY: DIVISION	1.1		1.8		2.2		2.2	
.CLASS	1.1		1.8		2.2		0.0	
..ORDER	2.1		2.4		0.0		0.0	
...FAMILY	0.0		2.4		0.0		0.0	
....GENUS	0.0		2.4		0.0		0.0	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
BACILLARIOPHYTA (DIATOMS)								
.BACILLARIOPHYCEAE								
..ACHNANTHALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	--	-
..BACILLARIALES								
...NITZSCHIACEAE								
....NITZSCHIA	200	7	150	10	--	-	--	-
..EUPODISCALES								
...COSCINODISCACEAE								
....MELOSIRA	--	-	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	250	9	--	-
..FRAGILARIALES								
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	--	-
....DIATOMA	390	14	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	250	9	--	-
..NAVICULALES								
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	--	-	--	-
...GOMPHONEMACEAE								
....GOMPHONEMA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	1400#	50	150	10	250	9	310#	17
..SURIRELLALES								
...SURIRELLACEAE								
....SURIRELLA	--	-	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHAETOPHORALES								
...CHAETOPHORACEAE								
....DESMOCOCCUS	200	7	--	-	--	-	--	-
..CHLOROCOCCALES	200	7	--	-	--	-	630#	33
...DOCYSTACEAE								
....ANKISTRODESMUS	200	7	310#	20	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	450#	30	740#	27	--	-
...VOLVOCACEAE								
....PANDORINA	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.XANTHOPHYCEAE	--	-	--	-	250	9	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	310#	20	250	9	160	8
...CRYPTOMONADACEAE								
....CRYPTOMONAS	200	7	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE	--	-	--	-	--	-	310#	17
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE	--	-	--	-	740#	27	--	-
..DINOKONTAE								
...GYMNODINIACEAE								
....MASSARTIA	--	-	150	10	--	-	--	-
UNKNOWN 200000000000000	--	-	--	-	--	-	470#	25

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

APPENDIX D

01651000 NW B ANACOSTIA R NR HYATTSVILLE, MD

PHYTOPLANKTON ANALYSES, JANUARY 1980 TO MAY 1980

DATE	APR 24,80		APR 26,80		APR 27,80		MAY 20,80	
TIME	1850		1345		2120		2320	
TOTAL CELLS/ML	20000		24000		6800		5200	
DIVERSITY: DIVISION	1.6		0.7		1.3		1.5	
.CLASS	0.0		0.7		0.0		0.0	
..ORDER	0.0		2.2		0.0		0.0	
...FAMILY	0.0		0.0		0.0		0.0	
....GENUS	0.0		0.0		0.0		0.0	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
BACILLARIOPHYTA (DIATOMS)								
.BACILLARIOPHYCEAE								
..ACHNANTHALES								
...ACHNANTHACEAE								
....ACHNANTHES	470	2	940	4	--	-	470	9
....COCCONEIS	--	-	--	-	160	2	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	160	3
..BACILLARIALES								
...NITZSCHIACEAE								
....NITZSCHIA	2000	10	1400	6	310	5	--	-
..EUPODISCALES								
...COSCINODISCACEAE								
....MELOSIRA	--	-	310	1	--	-	--	-
....STEPHANODISCUS	630	3	470	2	160	2	160	3
..FRAGILARIALES								
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	1300#	24
....DIATOMA	160	1	1100	5	--	-	--	-
....FRAGILARIA	--	-	940	4	160	2	--	-
....SYNEDRA	2000	10	3000	13	790	12	160	3
..NAVICULALES								
...CYMBELLACEAE								
....CYMBELLA	160	1	1100	5	310	5	--	-
...GOMPHONEMACEAE								
....GOMPHONEMA	--	-	1300	5	310	5	160	3
...NAVICULACEAE								
....NAVICULA	5500#	28	9900#	42	2700#	40	1100#	21
..SURIRELLALES								
...SURIRELLACEAE								
....SURIRELLA	310	2	470	2	160	2	--	-
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHAETOPHORALES								
...CHAETOPHORACEAE								
....DESMOCOCCUS	--	-	--	-	--	-	--	-
..CHLOROCOCCALES	630	3	310	1	--	-	160	3
...OOCYSTACEAE								
....ANKISTRODESMUS	1600	8	--	-	160	2	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	--	-	--	-	--	-	160	3
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-
...VOLVOCACEAE								
....PANDORINA	--	-	--	-	160	2	--	-
CHRYSOPHYTA								
.XANTHOPHYCEAE	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	160	1	160	1	--	-	310	6
...CRYPTOMONADACEAE								
....CRYPTOMONAS	1100	6	940	4	160	2	470	9
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE	630	3	--	-	160	2	310	6
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	3000#	15	1400	6	470	7	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE	--	-	--	-	--	-	--	-
..DINOKONTAE								
...GYMNODINIACEAE								
....MASSARTIA	--	-	--	-	--	-	--	-
UNKNOWN 2000000000000000	1400	7	--	-	630	9	310	6

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

APPENDIX D

01657667 OCCOQUAN RIVER BL OCCOQUAN DAM AT OCCOQUAN,VA.

PHYTOPLANKTON ANALYSES, DECEMBER 1979 TO MARCH 1980

DATE	DEC 13,79		JAN 11,80		JAN 12,80		JAN 14,80		MAR 15,80	
TIME	1345		1345		0935		1105		1100	
TOTAL CELLS/ML	6900		13000		13000		14000		13000	
DIVERSITY: DIVISION	2.0		1.7		1.5		1.7		2.0	
.CLASS	2.0		1.7		0.0		1.7		0.0	
..ORDER	2.3		1.7		0.0		2.1		0.0	
...FAMILY	0.0		0.0		0.0		0.0		0.0	
....GENUS	0.0		0.0		0.0		0.0		0.0	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
BACILLARIOPHYTA (DIATOMS)										
.BACILLARIOPHYCEAE										
..EUPODISCALES										
...COSCINODISCACEAE										
....CYCLOTELLA	--	-	590	5	160	1	790	6	--	-
....MELOSIRA	1400#	20	--	-	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	160	1	1500	11
..FRAGILARIALES										
...FRAGILARIACEAE										
....ASTERIONELLA	200	3	--	-	160	1	--	-	740	5
..NAVICULALES										
...NAVICULACEAE										
....NAVICULA	--	-	--	-	--	-	--	-	490	4
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES	980	14	1600	13	160	1	2700#	20	--	-
...CHLOROCOCCACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	250	2
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	200	2	470	4	--	-	490	4
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	4700#	35
CHRYSOPHYTA										
.XANTHOPHYCEAE	--	-	--	-	--	-	--	-	3400#	25
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	2700#	22	--	-	--	-	--	-
...CRYPTOMONADACEAE										
....CRYPTOMONAS	790	11	980	8	940	7	1600	12	740	5
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE	200	3	--	-	160	1	1400	10	--	-
..NOSTOCALES										
...NOSTOCACEAE										
....ANABAENA	2900#	43	--	-	--	-	--	-	--	-
..OSCILLATORIALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	6300#	50	9000#	73	6600#	49	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....TRACHELOMONAS	390	6	200	2	310	2	310	2	--	-
UNKNOWN 200000000000000	--	-	--	-	1600	12	--	-	1200	9

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

Appendix E.--The turbidity of the raw water intake of the Occoquan Water Treatment Plant.

APPENDIX E. THE TURBIDITY OF THE RAW WATER INTAKE OF THE OCCOQUAN WATER TREATMENT PLANT.

[TURBIDITY IS IN FORMAZINE TURBIDITY UNITS]

DATE	TIME	TURBIDITY
JANUARY 10, 1979	1300	52.0
JANUARY 17, 1979	1450	25.0
JANUARY 31, 1979	1355	105.0
FEBRUARY 24, 1979	1530	20.0
FEBRUARY 25, 1979	50	18.0
FEBRUARY 25, 1979	305	22.0
FEBRUARY 25, 1979	810	20.0
FEBRUARY 25, 1979	1835	18.0
FEBRUARY 26, 1979	200	62.0
FEBRUARY 26, 1979	2200	100.0
FEBRUARY 27, 1979	350	90.0
FEBRUARY 27, 1979	945	90.0
FEBRUARY 27, 1979	1210	90.0
MARCH 14, 1979	1445	32.0
MARCH 21, 1979	1105	18.0
MARCH 25, 1979	150	22.0
MARCH 25, 1979	555	19.0
MARCH 25, 1979	1130	19.0
MARCH 25, 1979	2300	17.0
MARCH 26, 1979	1130	17.0
MARCH 27, 1979	2200	34.0
MARCH 29, 1979	955	34.0
APRIL 11, 1979	1315	15.0
APRIL 18, 1979	1150	11.0
APRIL 25, 1979	1430	6.0
MAY 2, 1979	1500	5.0
MAY 9, 1979	1305	4.0
MAY 13, 1979	1600	3.0
MAY 13, 1979	1850	3.5
MAY 13, 1979	2020	3.0
MAY 14, 1979	1155	3.5
MAY 15, 1979	130	4.0
MAY 16, 1979	1420	5.0
MAY 23, 1979	925	3.0
MAY 23, 1979	945	3.0
MAY 24, 1979	800	3.0
MAY 24, 1979	810	3.0
MAY 25, 1979	1730	4.0
MAY 26, 1979	145	3.5
MAY 26, 1979	545	3.5
MAY 26, 1979	2310	3.5
MAY 27, 1979	1030	4.0
MAY 28, 1979	600	4.5
MAY 30, 1979	130	5.0
MAY 30, 1979	1050	5.5
JUNE 1, 1979	510	5.5
JUNE 1, 1979	1035	7.0
JUNE 1, 1979	1600	7.0
JUNE 2, 1979	135	9.0
JUNE 2, 1979	1630	65.0
JUNE 3, 1979	305	65.0
JUNE 3, 1979	1900	53.0
JUNE 4, 1979	450	40.0
JUNE 4, 1979	1100	53.0
JUNE 4, 1979	1800	50.0
JUNE 5, 1979	120	50.0
JUNE 5, 1979	1210	47.0
JUNE 13, 1979	1150	14.0
JUNE 20, 1979	1510	7.0
JUNE 27, 1979	1120	4.0
JULY 11, 1979	1455	4.5
JULY 18, 1979	1445	5.0
JULY 25, 1979	1540	5.0
AUGUST 1, 1979	1630	4.5
AUGUST 3, 1979	215	4.5
AUGUST 3, 1979	330	5.0
AUGUST 3, 1979	500	5.0
AUGUST 3, 1979	1030	4.5
AUGUST 8, 1979	1430	6.5
AUGUST 15, 1979	1325	4.5
AUGUST 26, 1979	110	4.0
AUGUST 26, 1979	415	4.0
AUGUST 26, 1979	1400	3.0
AUGUST 27, 1979	30	2.5
AUGUST 27, 1979	350	4.0
AUGUST 29, 1979	1140	9.0
AUGUST 29, 1979	1200	9.0
SEPTEMBER 6, 1979	1250	30.0
SEPTEMBER 7, 1979	1546	63.0
SEPTEMBER 8, 1979	1431	38.0
SEPTEMBER 12, 1979	1415	18.0
SEPTEMBER 19, 1979	1425	6.0
SEPTEMBER 26, 1979	1030	29.0
SEPTEMBER 26, 1979	1445	32.0
OCTOBER 1, 1979	455	17.0
OCTOBER 1, 1979	925	18.0
OCTOBER 1, 1979	1355	19.0
OCTOBER 1, 1979	1440	19.0
OCTOBER 1, 1979	1905	27.0
OCTOBER 1, 1979	2100	25.0
OCTOBER 4, 1979	1155	40.0
OCTOBER 12, 1979	1100	34.0
OCTOBER 17, 1979	1215	19.0
OCTOBER 31, 1979	1315	6.0
NOVEMBER 2, 1979	1700	5.5
NOVEMBER 3, 1979	1009	4.0
NOVEMBER 7, 1979	1200	5.5
NOVEMBER 20, 1979	1010	5.5
NOVEMBER 21, 1979	1140	5.5
NOVEMBER 23, 1979	1045	8.5
NOVEMBER 26, 1979	1630	7.5
NOVEMBER 26, 1979	2240	9.0
NOVEMBER 27, 1979	1040	6.5
NOVEMBER 28, 1979	1745	7.0
DECEMBER 3, 1979	936	4.5
DECEMBER 5, 1979	1230	4.0
DECEMBER 12, 1979	940	4.0
DECEMBER 13, 1979	1345	4.0
DECEMBER 19, 1979	1025	4.5
JANUARY 11, 1980	1345	4.0
JANUARY 12, 1980	935	3.5
JANUARY 14, 1980	1105	3.5
JANUARY 18, 1980	1500	8.5
JANUARY 18, 1980	2325	20.0
JANUARY 19, 1980	620	22.0
JANUARY 19, 1980	1230	26.0
JANUARY 19, 1980	1840	32.0
JANUARY 19, 1980	2305	28.0
JANUARY 20, 1980	1000	30.0
JANUARY 20, 1980	1820	40.0
JANUARY 21, 1980	1710	35.0
MARCH 14, 1980	1117	3.5
MARCH 15, 1980	1100	8.5
APRIL 9, 1980	2315	15.0
APRIL 10, 1980	2035	12.0