Water-Data Report 2011

01594440 PATUXENT RIVER NEAR BOWIE, MD

Upper Chesapeake Basin
Patuxent Subbasin

LOCATION.--Lat 38°57'21.3", long 76°41'37.3" referenced to North American Datum of 1983, Anne Arundel County, MD, Hydrologic Unit 02060006, on left bank 45 ft upstream from bridge on U.S. Highway 50 (John Hanson Highway), 3.0 mi east of Bowie City Hall, 3.1 mi downstream from mouth of Little Patuxent River, 4.2 mi northwest of Davidsonville, and 60 mi upstream from mouth.

DRAINAGE AREA.--348 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1955 to June 1977 (gage heights and discharge measurements only), June 1977 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 13.10 ft above National Geodetic Vertical Datum of 1929. Prior to June 27, 1977, nonrecording gage at same site and datum.

REMARKS.—No estimated daily discharges. Records good. Flow regulated by T. Howard Duckett Reservoir, usable capacity 5,600,000,000 gal, 21 mi upstream from station. U.S. Geological Survey satellite collection platform at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,800 ft^3/s, Sept. 8, gage height 21.10 ft; minimum discharge, 95 ft^3/s, July 24.

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4,600	177	357	173	204	716	320	550	152	108	112	221
2	1,760	170	759	183	674	386	307	294	147	105	110	194
3	372	169	314	190	1,340	293	270	236	139	150	109	190
4	536	439	239	175	571	254	315	402	136	178	110	179
5	601	1,090	216	169	396	241	668	569	137	132	123	208
6	291	398	203	165	590	300	498	295	140	116	108	1,240
7	235	256	192	167	524	1,490	275	228	139	110	319	2,580
8	200	227	181	164	429	896	258	212	135	312	315	13,700
9	183	210	173	148	344	473	409	197	132	624	160	7,000
10	174	198	174	152	284	1,410	474	188	172	187	142	1,960
11	168	188	179	160	245	4,140	401	376	172	141	118	810
12	180	182	328	161	236	1,570	280	278	168	149	111	973
13	157	179	784	159	236	640	466	179	161	144	118	572
14	249	180	361	154	237	459	628	183	137	245	256	382
15	587	178	224	159	332	371	601	410	130	140	756	329
16	241	204	208	160	267	746	776	625	127	117	404	298
17	185	397	205	160	234	697	1,810	699	275	110	171	269
18	172	343	204	195	237	395	1,100	486	184	107	139	258
19	180	224	203	267	227	333	739	425	157	105	279	250
20	230	201	193	238	208	293	654	364	143	119	173	246
21	182	191	189	209	204	325	339	264	148	131	223	249
22	169	187	190	178	231	367	517	213	136	109	1,050	243
23	158	183	185	152	261	296	695	199	131	102	243	655
24	157	180	180	156	232	426	544	312	127	102	154	2,260
25	158	180	179	164	376	490	688	189	123	253	147	644
26	158	179	175	202	786	527	689	179	119	1,280	215	370
27	346	174	174	323	356	455	626	171	117	342	450	317
28	584	169	163	336	410	265	543	167	125	158	4,220	327
29	259	168	174	267	---	242	509	164	144	135	3,680	1,350
30	200	168	171	223	---	237	660	158	117	123	648	617
31	187	---	173	221	---	274	---	156	---	115	293	---
Total	13,859	7,389	7,650	5,930	10,671	20,007	17,059	9,368	4,370	6,249	15,456	38,891
Mean	447	246	247	191	381	645	569	302	146	202	499	1,296
Max	4,600	1,090	784	336	1,340	4,140	1,810	699	275	1,280	4,220	13,700
Min	157	168	163	148	204	237	258	156	117	102	108	179
Cfsm	1.28	0.71	0.71	0.55	1.10	1.85	1.63	0.87	0.42	0.58	1.43	3.73
In.	1.48	0.79	0.82	0.63	1.14	2.14	1.82	1.00	0.47	0.67	1.65	4.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2011, BY WATER YEAR (WY)

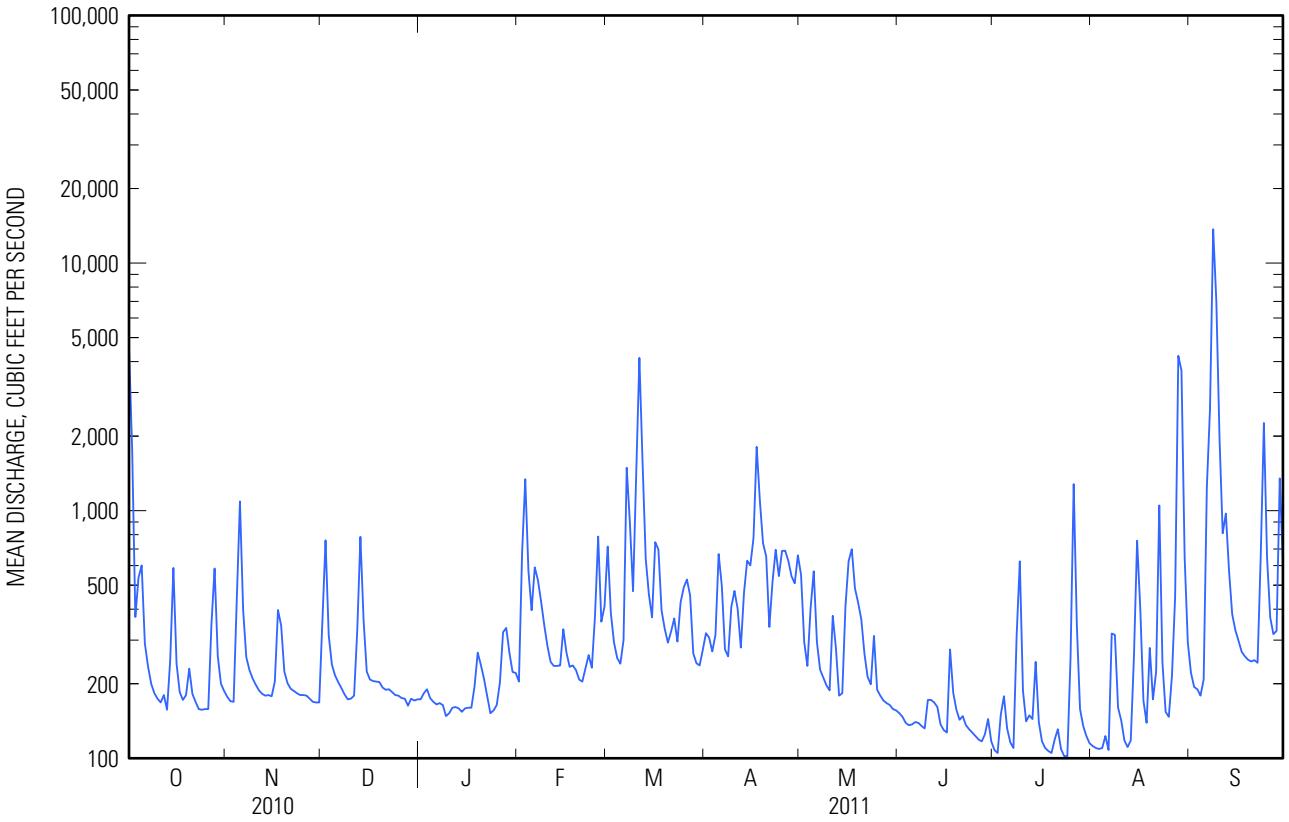
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	276	321	426	452	478	596	515	456	377	234	214	293
Max	1,093	937	1,357	1,316	1,232	1,358	1,247	1,291	1,320	579	532	1,358
(WY)	(1980)	(2004)	(1997)	(1978)	(1979)	(1993)	(1983)	(1989)	(2003)	(1996)	(1979)	(1979)
Min	80.4	108	128	119	142	173	167	154	115	97.3	86.1	65.2
(WY)	(1987)	(1982)	(1999)	(1981)	(2002)	(1981)	(1985)	(1986)	(1991)	(1999)	(1987)	(1986)

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1977 - 2011	
Annual total	150,266		156,899			
Annual mean	412		430		387	
Highest annual mean					648	2003
Lowest annual mean					170	2002
Highest daily mean	5,120	Mar 14	13,700	Sep 8	13,700	Sep 8, 2011
Lowest daily mean	105	Jul 9[a]	102	Jul 23[b]	56	Sep 17, 1986[c]
Annual seven-day minimum	110	Sep 5	111	Jul 18	57	Sep 15, 1986
Maximum peak flow			16,800	Sep 8	[d]31,100	Jun 22, 1972
Maximum peak stage			21.10	Sep 8	[f]27.90	Jun 22, 1972
Instantaneous low flow			95	Jul 24	32	Aug 9, 1966
Annual runoff (cfsm)	1.18		1.24		1.11	
Annual runoff (inches)	16.06		16.77		15.10	
10 percent exceeds	818		688		781	
50 percent exceeds	249		224		233	
90 percent exceeds	124		135		107	

[a] July 9, Aug. 11, Sept. 11.
[b] July 23, 24.
[c] Sept. 17-19, 1986.
[d] From rating curve extended above 9,200 ft³/s on basis of contracted-opening measurement of peak flow.
[f] From floodmarks.



01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978-80, 1985 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1977 to September 1980, October 1984 to September 1991.
WATER TEMPERATURE: December 1977 to September 1980, October 1984 to September 1991.
SUSPENDED SEDIMENT: October 1985 to September 1991.

REMARKS.--Water-quality samples are collected from bridge on Governor Bridge Road located 0.3 mi downstream from U.S. Highway 50 (John Hanson Highway).

EWI, Equal-width increment.

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 7

[%, percent; $CaCO_3$, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; >, greater than; E, estimated; S, most probable value]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Discharge, instantaneous, ft^3/s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)
10-05-2010	**0815**	Surface water	Regular	765	12.0	714	9.2	90
11-04-2010	**1015**	Surface water	Regular	750	11.0	282	9.8	90
12-01-2010	**1515**	Surface water	Regular	756	7.0	438	9.7	90
01-05-2011	**0945**	Surface water	Regular	757	1.0	168	12.0	90
02-02-2011	**1130**	Surface water	Regular	753	3.5	627	E 11.9	E 92
03-07-2011	**0945**	Surface water	Regular	762	3.0	1,400	10.4	88
04-05-2011	**0915**	Surface water	Replicate	748	7.5	619	9.3	89
04-05-2011	***0920***	*QC sample - Surface water*	*Replicate*	--	--	--	--	--
04-05-2011	***0921***	*QC sample - Surface water*	*Other QA*	--	--	--	--	--
04-05-2011	***0922***	*QC sample - Surface water*	*Other QA*	--	--	--	--	--
04-05-2011	***0923***	*QC sample - Surface water*	*Other QA*	--	--	--	--	--
04-05-2011	***0924***	*QC sample - Surface water*	*Other QA*	--	--	--	--	--
05-04-2011	**1100**	Surface water	Regular	764	10.5	431	8.6	88
06-03-2011	**0700**	Surface water	Regular	766	17.0	138	7.7	85
07-05-2011	**0830**	Surface water	Regular	760	29.5	133	7.0	84
07-26-2011	**0900**	Surface water	Regular	763	29.0	1,320	5.5	66
08-02-2011	**0700**	Surface water	Regular	757	23.0	115	7.2	85
08-22-2011	**0930**	Surface water	Replicate	760	25.0	1,390	6.4	73
08-22-2011	***0935***	*QC sample - Surface water*	*Replicate*	--	--	--	--	--
08-28-2011	**1130**	Surface water	Replicate	756	30.0	4,390	6.9	79
08-28-2011	***1135***	*QC sample - Surface water*	*Replicate*	--	--	--	--	--
09-06-2011	**1030**	Surface water	Replicate	762	17.0	1,070	7.4	81
09-06-2011	***1035***	*QC sample - Surface water*	*Replicate*	--	--	--	--	--
09-06-2011	***1036***	*QC sample - Surface water*	*Other QA*	*762*	--	--	*7.3*	*79*
09-06-2011	***1037***	*QC sample - Surface water*	*Other QA*	*762*	--	--	*7.2*	*79*
09-06-2011	***1038***	*QC sample - Surface water*	*Other QA*	*762*	--	--	*8.1*	*88*
09-06-2011	***1039***	*QC sample - Surface water*	*Other QA*	*762*	--	--	*7.4*	*81*
09-06-2011	***1040***	*QC sample - Surface water*	*Other QA*	*762*	--	--	*7.5*	*82*
09-06-2011	***1041***	*QC sample - Surface water*	*Other QA*	*762*	--	--	*7.4*	*80*
09-06-2011	***1042***	*QC sample - Surface water*	*Other QA*	*762*	--	--	*7.2*	*79*
09-06-2011	***1043***	*QC sample - Surface water*	*Other QA*	*762*	--	--	*7.3*	*80*
09-06-2011	***1044***	*QC sample - Surface water*	*Other QA*	*762*	--	--	*7.7*	*83*

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 7

[%, percent; $CaCO_3$, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; >, greater than; E, estimated; S, most probable value]

Date	Sample start time	pH, water, unfiltered, field, standard units (00400)	pH, water, unfiltered, laboratory, standard units (00403)	Specific conductance, water, unfiltered, laboratory, µS/cm at 25 °C (90095)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Sampler type (84164)	Sampling method (82398)
10-05-2010	**0815**	8.7	--	247	240	14.7	Weighted-bottle	EWI non-isokinetic
11-04-2010	**1015**	6.8	--	--	333	11.2	Weighted-bottle	EWI non-isokinetic
12-01-2010	**1515**	7.6	7.4	294	297	11.7	Weighted-bottle	EWI non-isokinetic
01-05-2011	**0945**	7.4	--	--	406	3.0	Weighted-bottle	EWI non-isokinetic
02-02-2011	**1130**	E 7.2	7.4	795	E 821	4.0	Weighted-bottle	EWI non-isokinetic
03-07-2011	**0945**	7.2	7.4	513	522	8.1	US DH-95 Teflon	EWI non-isokinetic
04-05-2011	**0915**	7.3	--	--	284	12.6	US DH-95 plastic	EWI
04-05-2011	***0920***	--	--	--	--	--	*US D-95 plastic*	*EWI*
04-05-2011	***0921***	--	--	--	--	--	*US DH-95 plastic*	*Single vertical*
04-05-2011	***0922***	--	--	--	--	--	*US DH-95 plastic*	*Single vertical*
04-05-2011	***0923***	--	--	--	--	--	*US DH-95 plastic*	*Single vertical*
04-05-2011	***0924***	--	--	--	--	--	*US DH-95 plastic*	*EWI*
05-04-2011	**1100**	7.4	--	--	311	16.3	Weighted-bottle	EWI non-isokinetic
06-03-2011	**0700**	7.5	--	--	383	20.2	Weighted-bottle	EWI non-isokinetic
07-05-2011	**0830**	7.2	--	--	374	24.5	Weighted-bottle	EWI non-isokinetic
07-26-2011	**0900**	6.8	7.3	191	191	24.8	US DH-95 Teflon	EWI
08-02-2011	**0700**	7.5	--	--	373	23.6	Weighted-bottle	EWI non-isokinetic
08-22-2011	**0930**	7.2	--	--	182	21.6	US DH-95 Teflon	EWI
08-22-2011	***0935***	--	--	--	--	--	*US DH-95 plastic*	*EWI*
08-28-2011	**1130**	7.0	7.3	116	115	21.5	US D-95 Teflon	EWI
08-28-2011	***1135***	--	--	--	--	--	*US D-95 Teflon*	*EWI*
09-06-2011	**1030**	7.0	--	--	218	19.6	US D-95 Teflon	EWI
09-06-2011	***1035***	--	--	--	--	--	*US D-95 Teflon*	*EWI*
09-06-2011	***1036***	*7.0*	--	--	*214*	*19.6*	*US D-95 Teflon*	*Single vertical*
09-06-2011	***1037***	*7.0*	--	--	*215*	*19.6*	*US D-95 Teflon*	*Single vertical*
09-06-2011	***1038***	*7.0*	--	--	*218*	*19.6*	*US D-95 Teflon*	*Single vertical*
09-06-2011	***1039***	*7.0*	--	--	*218*	*19.6*	*US D-95 Teflon*	*Single vertical*
09-06-2011	***1040***	*7.0*	--	--	*218*	*19.6*	*US D-95 Teflon*	*Single vertical*
09-06-2011	***1041***	*7.0*	--	--	*217*	*19.6*	*US D-95 Teflon*	*Single vertical*
09-06-2011	***1042***	*7.0*	--	--	*216*	*19.6*	*US D-95 Teflon*	*Single vertical*
09-06-2011	***1043***	*7.0*	--	--	*215*	*19.6*	*US D-95 Teflon*	*Single vertical*
09-06-2011	***1044***	*7.0*	--	--	*214*	*19.5*	*US D-95 Teflon*	*Single vertical*

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 3 of 7

[%, percent; $CaCO_3$, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; >, greater than; E, estimated; S, most probable value]

Date	Sample start time	Type of replicate (99105)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Hardness, water, mg/L as $CaCO_3$ (00900)	Suspended solids remaining after ignition, water, unfiltered, mg/L (00540)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)	Magne-sium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)
10-05-2010	0815	--	--	--	< 31	31	--	--	--	--
11-04-2010	1015	--	--	--	< 15	15	--	--	--	--
12-01-2010	1515	--	171	71.9	< 25	25	19.6	5.58	4.94	25.5
01-05-2011	0945	--	--	--	< 15	< 15	--	--	--	--
02-02-2011	1130	--	420	74.7	56	67	20.9	5.46	3.82	119
03-07-2011	0945	--	287	66.9	152	178	18.9	4.81	3.03	70.3
04-05-2011	0915	--	--	--	< 38	38	--	--	--	--
04-05-2011	*0920*	*Concurrent*	--	--	*42*	*72*	--	--	--	--
04-05-2011	*0921*	*Concurrent*	--	--	--	--	--	--	--	--
04-05-2011	*0922*	*Concurrent*	--	--	--	--	--	--	--	--
04-05-2011	*0923*	*Concurrent*	--	--	--	--	--	--	--	--
04-05-2011	*0924*	*Concurrent*	--	--	--	--	--	--	--	--
05-04-2011	1100	--	--	--	< 30	< 30	--	--	--	--
06-03-2011	0700	--	--	--	< 17	17	--	--	--	--
07-05-2011	0830	--	--	--	< 15	< 15	--	--	--	--
07-26-2011	0900	--	108	43.3	276	328	12.0	3.25	3.83	16.5
08-02-2011	0700	--	--	--	< 16	16	--	--	--	--
08-22-2011	0930	--	--	--	132	154	--	--	--	--
08-22-2011	*0935*	*Sequential*	--	--	--	--	--	--	--	--
08-28-2011	1130	--	73	26.5	74	94	7.47	1.91	2.85	9.13
08-28-2011	*1135*	*Concurrent*	--	--	--	--	--	--	--	--
09-06-2011	1030	--	--	--	< 98	98	--	--	--	--
09-06-2011	*1035*	*Concurrent*	--	--	--	--	--	--	--	--
09-06-2011	*1036*	--	--	--	--	--	--	--	--	--
09-06-2011	*1037*	--	--	--	--	--	--	--	--	--
09-06-2011	*1038*	--	--	--	--	--	--	--	--	--
09-06-2011	*1039*	--	--	--	--	--	--	--	--	--
09-06-2011	*1040*	--	--	--	--	--	--	--	--	--
09-06-2011	*1041*	--	--	--	--	--	--	--	--	--
09-06-2011	*1042*	--	--	--	--	--	--	--	--	--
09-06-2011	*1043*	--	--	--	--	--	--	--	--	--
09-06-2011	*1044*	--	--	--	--	--	--	--	--	--

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 4 of 7

[%, percent; $CaCO_3$, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; >, greater than; E, estimated; S, most probable value]

Date	Sample start time	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as $CaCO_3$ (29801)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as $CaCO_3$ (39086)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Silica, water, filtered, mg/L as SiO_2 (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)
10-05-2010	**0815**	--	--	1.31	--	--	< .03	7.99	--	.031
11-04-2010	**1015**	--	--	.78	--	--	< .03	8.98	--	--
12-01-2010	**1515**	43.9	40	1.52	48.5	.18	< .03	6.83	16.2	< .010
01-05-2011	**0945**	--	--	.34	--	--	< .03	7.74	--	.093
02-02-2011	**1130**	38.1	36	3.51	214	.14	< .03	5.85	16.0	.133
03-07-2011	**0945**	40.6	--	6.16	131	.10	< .03	6.21	13.0	.099
04-05-2011	**0915**	--	--	2.20	--	--	.09	5.05	--	.027
04-05-2011	***0920***	--	--	*3.33*	--	--	*.05*	*5.05*	--	*.026*
04-05-2011	***0921***	--	--	--	--	--	--	--	--	--
04-05-2011	***0922***	--	--	--	--	--	--	--	--	--
04-05-2011	***0923***	--	--	--	--	--	--	--	--	--
04-05-2011	***0924***	--	--	--	--	--	--	--	--	--
05-04-2011	**1100**	--	--	1.94	--	--	.13	7.04	--	.100
06-03-2011	**0700**	--	--	.79	--	--	< .03	8.29	--	.070
07-05-2011	**0830**	--	--	.62	--	--	< .03	8.09	--	.066
07-26-2011	**0900**	30.2	26	--	29.9	.09	.20	5.03	8.78	.084
08-02-2011	**0700**	--	--	.73	--	--	< .03	8.44	--	.075
08-22-2011	**0930**	--	--	6.13	--	--	.22	5.27	--	.016
08-22-2011	***0935***	--	--	--	--	--	--	--	--	--
08-28-2011	**1130**	22.8	S 20	3.03	14.9	.08	< .03	4.52	6.17	.035
08-28-2011	***1135***	--	--	--	--	--	--	--	--	--
09-06-2011	**1030**	--	--	3.76	--	--	< .03	5.88	--	.014
09-06-2011	***1035***	--	--	--	--	--	--	--	--	--
09-06-2011	***1036***	--	--	--	--	--	--	--	--	--
09-06-2011	***1037***	--	--	--	--	--	--	--	--	--
09-06-2011	***1038***	--	--	--	--	--	--	--	--	--
09-06-2011	***1039***	--	--	--	--	--	--	--	--	--
09-06-2011	***1040***	--	--	--	--	--	--	--	--	--
09-06-2011	***1041***	--	--	--	--	--	--	--	--	--
09-06-2011	***1042***	--	--	--	--	--	--	--	--	--
09-06-2011	***1043***	--	--	--	--	--	--	--	--	--
09-06-2011	***1044***	--	--	--	--	--	--	--	--	--

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; $CaCO_3$, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; >, greater than; E, estimated; S, most probable value]

Date	Sample start time	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrate, water, filtered, mg/L as N (00618)	Nitrite, water, filtered, mg/L as N (00613)	Organic nitrogen, water, filtered, mg/L (00607)	Orthophosphate, water, filtered, mg/L (00660)	Orthophosphate, water, filtered, mg/L as P (00671)	Particulate nitrogen, suspended in water, mg/L (49570)	Phosphorus, water, filtered, mg/L as P (00666)
10-05-2010	**0815**	.59	.586	.004	.24	.059	.019	.127	.027
11-04-2010	**1015**	--	--	--	--	--	--	.045	--
12-01-2010	**1515**	1.21	1.21	.007	< .29	.034	.011	.117	.019
01-05-2011	**0945**	1.91	1.89	.023	.15	.028	.009	.039	.010
02-02-2011	**1130**	1.14	1.12	.013	.28	.025	.008	.294	.013
03-07-2011	**0945**	.83	.811	.021	.30	.038	.012	.553	.017
04-05-2011	**0915**	1.28	1.28	.007	.27	.016	.005	.235	.025
04-05-2011	***0920***	*1.27*	*1.26*	*.007*	*.25*	*.015*	*.005*	*.311*	*.009*
04-05-2011	***0921***	--	--	--	--	--	--	--	--
04-05-2011	***0922***	--	--	--	--	--	--	--	--
04-05-2011	***0923***	--	--	--	--	--	--	--	--
04-05-2011	***0924***	--	--	--	--	--	--	--	--
05-04-2011	**1100**	1.03	1.01	.015	.36	.054	.018	.202	.025
06-03-2011	**0700**	1.19	1.18	.012	.27	.065	.021	.066	.030
07-05-2011	**0830**	1.03	1.02	.011	.36	.141	.046	.062	.054
07-26-2011	**0900**	.81	.792	.018	.44	.065	.021	1.19	.031
08-02-2011	**0700**	.98	.965	.013	.38	.083	.027	.071	.032
08-22-2011	**0930**	.64	.633	.010	.36	.080	.026	.720	.034
08-22-2011	***0935***	--	--	--	--	--	--	--	--
08-28-2011	**1130**	.33	.327	.005	.36	.131	.043	.212	.053
08-28-2011	***1135***	--	--	--	--	--	--	--	--
09-06-2011	**1030**	.59	.584	.006	.32	.118	.038	.455	.047
09-06-2011	***1035***	--	--	--	--	--	--	--	--
09-06-2011	***1036***	--	--	--	--	--	--	--	--
09-06-2011	***1037***	--	--	--	--	--	--	--	--
09-06-2011	***1038***	--	--	--	--	--	--	--	--
09-06-2011	***1039***	--	--	--	--	--	--	--	--
09-06-2011	***1040***	--	--	--	--	--	--	--	--
09-06-2011	***1041***	--	--	--	--	--	--	--	--
09-06-2011	***1042***	--	--	--	--	--	--	--	--
09-06-2011	***1043***	--	--	--	--	--	--	--	--
09-06-2011	***1044***	--	--	--	--	--	--	--	--

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
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[%, percent; $CaCO_3$, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; >, greater than; E, estimated; S, most probable value]

Date	Sample start time	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)	Total nitrogen, water, unfiltered, mg/L (00600)	Escherichia coli, Defined Substrate Technology, water, MPN/100 mL (50468)	Total coliform, Defined Substrate Technology, water, MPN/100 mL (50569)	Iron, water, filtered, µg/L (01046)	Manganese, water, filtered, µg/L (01056)	Organic carbon, suspended sediment, total, mg/L (00689)
10-05-2010	**0815**	.098	.86	.99	--	--	--	--	1.31
11-04-2010	**1015**	--	--	--	--	--	--	--	.78
12-01-2010	**1515**	.121	1.50	1.6	--	--	250	125	1.52
01-05-2011	**0945**	.032	2.15	2.2	--	--	--	--	.34
02-02-2011	**1130**	.154	1.55	1.8	--	--	202	184	3.51
03-07-2011	**0945**	.365	1.23	1.8	--	--	270	150	6.16
04-05-2011	**0915**	.093	1.58	1.8	--	--	--	--	2.12
04-05-2011	***0920***	*.147*	*1.55*	*1.9*	--	--	--	--	*3.28*
04-05-2011	***0921***	--	--	--	--	--	--	--	--
04-05-2011	***0922***	--	--	--	--	--	--	--	--
04-05-2011	***0923***	--	--	--	--	--	--	--	--
04-05-2011	***0924***	--	--	--	--	--	--	--	--
05-04-2011	**1100**	.122	1.49	1.7	--	--	--	--	1.81
06-03-2011	**0700**	.082	1.53	1.6	--	--	--	--	.77
07-05-2011	**0830**	.104	1.46	1.5	--	--	--	--	.60
07-26-2011	**0900**	.553	1.34	2.5	--	--	268	182	12.2
08-02-2011	**0700**	.097	1.44	1.5	--	--	--	--	.73
08-22-2011	**0930**	.26	1.02	1.7	--	--	--	--	5.91
08-22-2011	***0935***	--	--	--	--	--	--	--	--
08-28-2011	**1130**	.268	.73	.94	87,000	> 240,000	406	104	3.03
08-28-2011	***1135***	--	--	--	--	--	--	--	--
09-06-2011	**1030**	.233	.92	1.4	--	--	--	--	3.76
09-06-2011	***1035***	--	--	--	--	--	--	--	--
09-06-2011	***1036***	--	--	--	--	--	--	--	--
09-06-2011	***1037***	--	--	--	--	--	--	--	--
09-06-2011	***1038***	--	--	--	--	--	--	--	--
09-06-2011	***1039***	--	--	--	--	--	--	--	--
09-06-2011	***1040***	--	--	--	--	--	--	--	--
09-06-2011	***1041***	--	--	--	--	--	--	--	--
09-06-2011	***1042***	--	--	--	--	--	--	--	--
09-06-2011	***1043***	--	--	--	--	--	--	--	--
09-06-2011	***1044***	--	--	--	--	--	--	--	--

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

WATER-QUALITY DATA
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[%, percent; $CaCO_3$, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; >, greater than; E, estimated; S, most probable value]

Date	Sample start time	Organic carbon, water, filtered, mg/L (00681)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concen-tration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)
10-05-2010	**0815**	4.38	93	38	73
11-04-2010	**1015**	3.95	--	12	9.1
12-01-2010	**1515**	4.08	--	27	32
01-05-2011	**0945**	2.73	--	3	1.4
02-02-2011	**1130**	3.35	94	73	124
03-07-2011	**0945**	4.60	90	290	1,100
04-05-2011	**0915**	3.01	--	45	75
04-05-2011	***0920***	*3.06*	--	*81*	--
04-05-2011	***0921***	--	--	*38*	--
04-05-2011	***0922***	--	--	*44*	--
04-05-2011	***0923***	--	--	*31*	--
04-05-2011	***0924***	--	--	*83*	--
05-04-2011	**1100**	4.25	--	43	50
06-03-2011	**0700**	3.17	--	20	7.5
07-05-2011	**0830**	3.42	--	16	5.7
07-26-2011	**0900**	5.36	85	463	1,650
08-02-2011	**0700**	3.48	--	20	6.2
08-22-2011	**0930**	5.45	86	221	829
08-22-2011	***0935***	--	*88*	*203*	--
08-28-2011	**1130**	6.97	64	171	2,030
08-28-2011	***1135***	--	*45*	*290*	--
09-06-2011	**1030**	5.94	97	121	350
09-06-2011	***1035***	--	*98*	*153*	--
09-06-2011	***1036***	--	--	--	--
09-06-2011	***1037***	--	--	--	--
09-06-2011	***1038***	--	--	--	--
09-06-2011	***1039***	--	--	--	--
09-06-2011	***1040***	--	--	--	--
09-06-2011	***1041***	--	--	--	--
09-06-2011	***1042***	--	--	--	--
09-06-2011	***1043***	--	--	--	--
09-06-2011	***1044***	--	--	--	--