

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV

Potomac Basin
Cacapon-Town Subbasin

LOCATION.--Lat 39°34'56", long 78°18'36" referenced to North American Datum of 1927, Morgan County, WV, Hydrologic Unit 02070003, on left bank at Rock Ford, 3.0 mi southwest of Great Cacapon, and at mile 6.1.

DRAINAGE AREA.--675 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1922 to September 1995, and October 1996 to current year (daily discharge and peaks).

REVISED RECORDS.--WSP 800: 1924(M). WSP 921: Drainage area. WSP 951: 1936-37. WSP 1552: 1925-26(M), 1928-1929(M), 1932. WDR WV-97-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 456.60 ft above NAVD 88 (GPS levels). Prior to Nov. 10, 1933, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good except those for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1889 reached a stage of about 24.7 ft, from floodmarks, discharge, 57,500 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,900 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 30	2100	*20,400	*15.05
Jan 17	0030	5,960	8.25
Jan 31	2000	10,400	10.89
May 8	2000	13,600	12.39

Minimum discharge, 83 ft³/s, Oct. 27, 28, gage height, 1.40 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	258	2,600	175	479	5,550	1,030	1,200	499	302	286	174	219
2	206	1,750	165	481	2,730	906	1,260	453	270	267	168	187
3	182	1,390	160	488	1,860	784	1,130	408	247	211	161	166
4	168	1,070	157	468	1,550	687	986	370	228	183	154	165
5	192	833	155	444	1,280	604	863	346	234	168	149	162
6	185	675	152	424	1,130	594	790	328	227	152	148	143
7	152	575	152	424	994	633	711	392	236	149	151	128
8	133	493	150	456	849	705	635	6,660	285	198	223	119
9	126	433	158	474	778	777	586	7,200	402	243	965	113
10	119	380	175	503	704	938	544	3,860	370	294	697	108
11	115	334	271	719	621	1,500	504	3,100	1,110	255	451	104
12	112	303	346	1,050	600	2,270	528	2,830	1,700	208	336	100
13	107	297	317	1,090	570	2,940	1,390	2,010	1,070	736	289	98
14	102	326	285	958	533	2,200	1,580	1,620	2,090	664	398	95
15	96	366	262	874	522	1,710	1,180	1,340	2,000	491	392	91
16	92	328	249	2,700	497	1,420	942	1,130	1,220	350	287	91
17	89	294	241	4,810	466	1,210	836	938	811	268	222	94
18	87	267	238	2,910	433	1,030	829	791	620	214	189	91
19	97	246	232	1,940	381	946	761	666	680	182	174	89
20	97	230	239	1,540	393	1,180	1,030	597	1,420	185	174	87
21	92	219	287	1,260	390	1,400	1,510	544	936	173	170	91
22	93	210	475	1,010	356	1,230	1,210	474	654	207	157	101
23	93	202	546	765	331	1,050	1,020	503	500	1,750	153	105
24	91	192	470	613	331	904	902	812	403	1,480	177	104
25	87	182	429	570	327	844	816	1,040	348	751	482	108
26	86	178	429	553	328	896	731	715	335	499	352	109
27	84	175	469	e550	461	991	620	563	292	373	258	102
28	83	178	478	547	1,030	995	548	483	267	292	219	96
29	159	181	457	531	---	928	522	435	236	249	216	92
30	11,200	181	467	669	---	950	539	389	214	217	262	90
31	7,010	---	491	5,300	---	1,080	---	343	---	190	255	---
Total	21,793	15,088	9,277	35,600	25,995	35,332	26,703	41,839	19,707	11,885	8,603	3,448
Mean	703	503	299	1,148	928	1,140	890	1,350	657	383	278	115
Max	11,200	2,600	546	5,300	5,550	2,940	1,580	7,200	2,090	1,750	965	219
Min	83	175	150	424	327	594	504	328	214	149	148	87
Cfsm	1.04	0.75	0.44	1.70	1.38	1.69	1.32	2.00	0.97	0.57	0.41	0.17
In.	1.20	0.83	0.51	1.96	1.43	1.95	1.47	2.31	1.09	0.65	0.47	0.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	318	385	536	641	854	1,280	1,129	885	437	195	223	200
Max	2,976	2,577	2,121	1,751	3,234	5,708	2,976	3,565	3,525	936	2,791	1,698
(WY)	(1943)	(1986)	(1973)	(1998)	(1998)	(1936)	(1987)	(1924)	(1972)	(1972)	(1955)	(2003)
Min	44.8	51.1	56.5	69.6	89.1	194	242	157	72.5	53.8	39.8	39.4
(WY)	(1931)	(1966)	(1966)	(1956)	(1934)	(2006)	(1947)	(1969)	(1999)	(1999)	(1966)	(1932)

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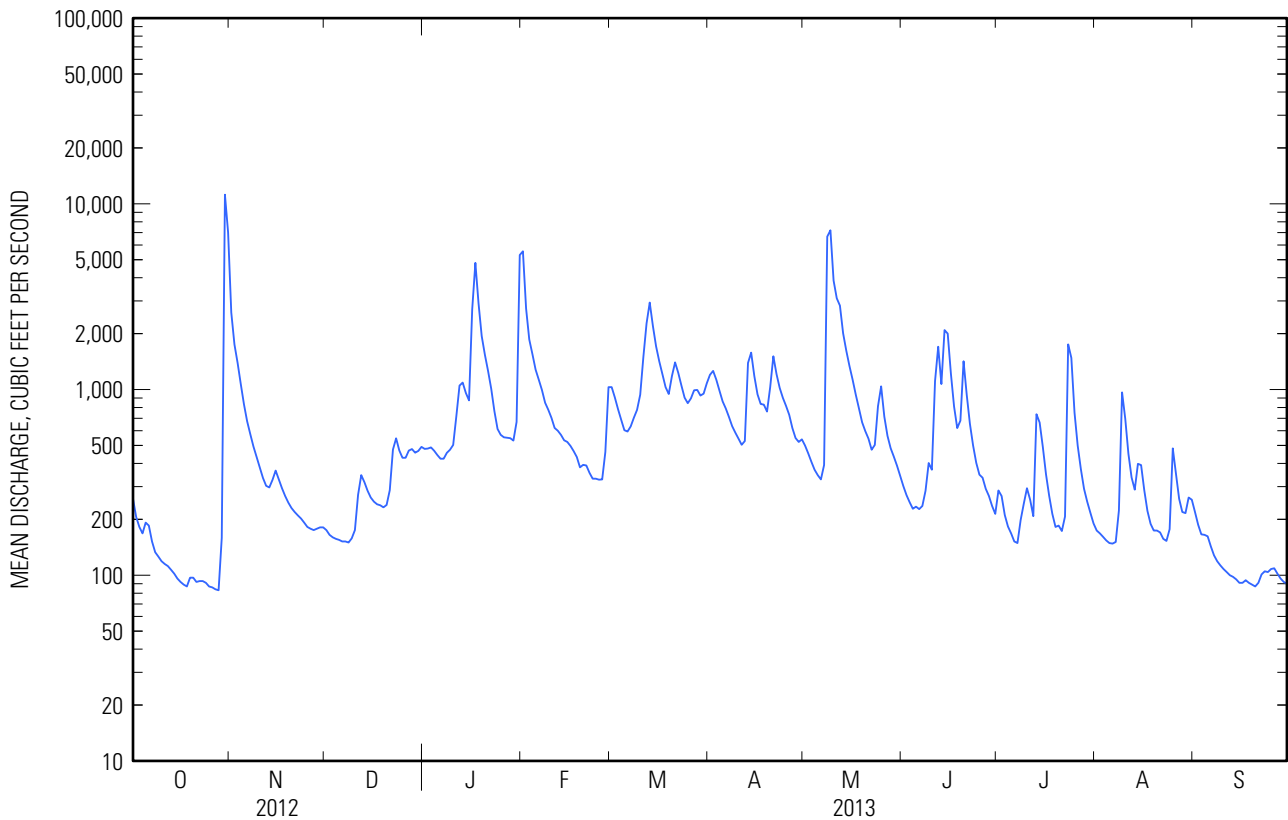
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1923 - 2013	
Annual total	170,093		255,270			
Annual mean	465		699		592	
Highest annual mean					1,192	2003
Lowest annual mean					180	1969
Highest daily mean	11,200	Oct 30	11,200	Oct 30	67,900	Mar 18, 1936
Lowest daily mean	73	Sep 17	83	Oct 28	26	Sep 12, 1966
Annual seven-day minimum	87	Sep 11	88	Oct 22	28	Sep 7, 1966
Maximum peak flow			20,400	Oct 30	^a 87,600 Mar 18, 1936	
Maximum peak stage			15.05	Oct 30	30.10	Mar 18, 1936
Instantaneous low flow			83	Oct 27 ^b	26	Sep 11, 1966 ^c
Annual runoff (cfsm)	0.688		1.04		0.877	
Annual runoff (inches)	9.37		14.07		11.91	
10 percent exceeds	708		1,390		1,350	
50 percent exceeds	317		403		250	
90 percent exceeds	104		109		68	

^a From rating curve extended above 52,000 ft³/s, highest since 1889.

^b Also Oct. 28.

^c Also Sept. 12, 13, 1966.



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 2005 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 2007 to current year.

pH: April 2007 to current year.

WATER TEMPERATURE: April 2007 to current year.

DISSOLVED OXYGEN: April 2007 to current year.

TURBIDITY: October 2011 to January 2012

INSTRUMENTATION.--Water-quality monitor April 2007 to current year.

REMARKS.--The period of WY 2013 record for Specific Conductance is rated as excellent except for the following: Oct. 19 to Oct. 23, Mar. 21 to Apr. 8, Apr. 21 to Apr. 30, June 15 to June 20, July 15 to July 16, and July 31 to Aug. 16, which are rated good; Apr. 9 to Apr. 15 and May 1 to May 8, which are rated fair; and May 9 to May 15, which are rated poor.

The period of WY 2013 record for Temperature was rated as excellent.

The period of WY 2013 record for pH is rated as excellent except for the following: Oct. 29 to Nov. 5 and July 10 to July 16, which are rated good; and Nov. 6, which is rated fair.

The period of WY 2013 record for Dissolved Oxygen is rated as excellent except for the following: Mar. 8 to Mar. 11, Apr. 11 to Apr. 14, and Apr. 26 to May 5, which are rated good; and May 6 to May 14, which are rated fair; and Apr. 15 and May 15 to May 16, which are rated poor.

COOPERATION.--the continuous water-quality monitor at this site is maintained in cooperation with West Virginia Department of Environmental Protection, Division of Water and Waste Management. Discrete water-quality samples are collected at this site as part of the Chesapeake Bay Program's Non-Tidal Monitoring Network in cooperation with the West Virginia Department of Environmental Protection, Division of Water and Waste Management.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 257 microsiemens/cm, Oct. 19, 2012; minimum recorded, 59 microsiemens/cm, May 9, 2013.

pH: Maximum recorded, 9.6 standard units, Sept. 7, 2012; minimum recorded, 6.3 standard units, Aug. 21, 22, 2012.

WATER TEMPERATURE: Maximum recorded, 32.4°C, July 24, 2010; minimum recorded, -0.1°C, Jan. 25, 2009, Feb. 2, 4, 5, 7, 2009, Feb. 16, 2011, and Jan. 23, 24, 27, 2013.

DISSOLVED OXYGEN: Maximum recorded, 15.9, mg/L, Feb. 16, 2011; minimum recorded, 2.3 mg/L, Aug. 24, 26, 2012.

TURBIDITY: Maximum recorded, 260 FNU, Dec. 8, 2011; minimum recorded, 0.1 FNU, Oct. 22, 28, 29, 2011.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 257 microsiemens/cm, Oct. 19; minimum, 59 microsiemens/cm, May 9.

pH: Maximum, 8.8 standard units, Dec. 6, Aug. 20; minimum, 7.1 standard units, May 8, 9.

WATER TEMPERATURE: Maximum, 32.0°C, July 19; minimum, -0.1°C, Jan. 23, 24, 27.

DISSOLVED OXYGEN: Maximum, 14.3 mg/L, Jan. 27; minimum, 5.7 mg/L, July 7.

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	190	181	186	105	81	96	159	157	158	134	130	132
2	193	184	187	120	104	114	164	158	160	136	134	134
3	211	183	195	117	103	109	161	158	159	137	136	136
4	201	183	192	111	104	107	160	158	159	138	137	137
5	183	172	178	118	104	114	161	158	160	138	137	138
6	180	173	176	124	115	120	163	161	162	138	137	137
7	186	180	183	125	123	124	164	163	163	138	136	137
8	186	179	181	129	125	127	165	164	164	137	135	136
9	200	182	189	132	129	130	165	162	164	137	136	136
10	199	185	192	135	132	134	165	160	163	136	134	135
11	203	189	193	137	135	136	163	160	161	134	130	132
12	202	192	197	140	137	139	167	163	164	130	124	128
13	214	193	201	142	139	140	167	162	164	124	119	121
14	219	198	204	144	142	143	162	156	159	121	110	116
15	236	199	212	147	144	145	156	153	155	111	105	109
16	---	---	---	150	147	149	154	152	153	106	101	104
17	232	207	216	150	149	149	154	153	153	101	86	90
18	245	207	221	149	146	148	154	152	153	87	86	86
19	257	200	227	146	143	145	152	151	151	91	87	89
20	228	201	211	143	140	142	151	147	149	95	91	93
21	235	212	218	143	142	142	147	142	143	100	95	97
22	245	213	224	145	143	144	143	139	140	104	100	102
23	251	208	223	146	145	145	143	138	140	108	104	106
24	236	207	216	148	145	146	138	133	136	113	108	110
25	227	206	215	150	147	148	133	125	128	118	113	116
26	248	207	231	152	149	151	125	120	122	120	117	119
27	239	218	227	153	150	152	124	120	122	124	120	122
28	232	216	222	154	151	152	126	124	125	124	123	123
29	218	178	202	155	153	154	128	126	127	123	121	121
30	178	68	110	157	154	155	129	127	129	121	118	120
31	82	67	73	---	---	---	130	129	130	118	88	106
Month	---	---	---	157	81	137	167	120	149	138	86	118

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	92	77	80	133	123	127	114	111	113	117	115	116
2	84	79	81	133	123	127	111	104	107	119	117	118
3	90	84	86	133	124	130	104	102	103	120	118	119
4	94	90	92	124	118	120	103	101	102	124	119	120
5	98	94	96	118	116	117	101	100	100	125	120	122
6	101	98	100	117	113	115	101	100	100	124	122	123
7	105	101	103	116	115	115	102	101	102	124	114	122
8	108	105	106	116	115	116	105	102	103	114	61	89
9	111	108	109	117	116	116	108	104	105	67	59	63
10	114	111	112	119	117	118	110	107	108	74	67	70
11	115	114	114	121	118	120	112	110	111	77	73	75
12	120	115	117	119	105	112	113	110	111	84	77	79
13	122	120	121	105	95	97	116	110	112	93	83	87
14	123	122	122	96	94	96	114	106	109	101	91	98
15	124	123	124	96	90	94	114	105	110	---	---	---
16	126	124	125	95	91	93	107	99	102	---	---	---
17	128	126	126	98	95	96	107	103	105	116	110	113
18	129	128	129	101	98	100	110	107	109	121	116	118
19	130	129	130	104	101	102	114	110	112	125	121	123
20	132	130	130	109	104	106	114	111	112	131	125	128
21	134	132	133	115	109	112	120	114	117	136	131	133
22	136	134	135	116	112	114	114	106	109	---	---	---
23	135	134	134	112	104	106	107	105	106	141	138	140
24	136	135	136	104	102	103	106	103	105	143	137	139
25	137	136	137	103	102	103	107	105	106	144	134	140
26	139	136	138	105	103	104	109	107	108	137	124	133
27	136	132	134	109	104	106	110	108	109	124	119	121
28	136	132	133	114	109	112	112	110	110	120	118	119
29	---	---	---	115	114	114	114	112	112	126	120	122
30	---	---	---	114	114	114	115	114	114	134	126	129
31	---	---	---	114	113	113	---	---	---	136	130	133
Month	139	77	117	133	90	110	120	99	108	---	---	---

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	140	134	137	157	154	155	152	148	150	163	158	160
2	143	140	142	162	156	159	154	149	152	170	161	165
3	148	143	145	163	161	162	157	153	155	175	168	171
4	151	146	148	162	146	152	158	154	156	173	169	171
5	154	150	151	160	150	156	159	156	158	171	163	169
6	156	154	154	170	160	164	161	157	160	170	164	168
7	160	155	156	171	164	169	163	158	161	170	163	167
8	159	156	158	170	166	167	164	161	162	171	165	168
9	164	159	161	171	168	170	167	155	163	172	166	170
10	167	162	164	173	166	171	155	131	141	176	168	172
11	172	159	162	167	162	164	131	123	125	---	---	---
12	166	110	127	166	160	163	126	124	125	---	---	---
13	110	105	107	168	159	164	127	122	124	185	172	179
14	115	105	109	164	151	159	135	126	130	180	170	177
15	116	105	111	151	128	137	138	134	136	181	173	178
16	107	105	105	142	128	132	142	134	138	183	173	179
17	109	105	107	154	142	149	145	142	143	182	174	179
18	113	109	111	162	154	157	148	145	146	182	175	179
19	118	113	115	164	159	162	150	146	148	182	176	179
20	127	118	122	164	159	162	151	148	150	184	176	181
21	134	115	125	164	160	161	155	150	152	187	173	181
22	115	113	114	162	154	159	160	155	157	---	---	---
23	120	115	117	165	133	153	161	158	160	---	---	---
24	124	120	122	133	102	107	160	154	158	---	---	---
25	129	124	127	112	103	108	171	160	164	---	---	---
26	136	129	132	123	112	117	171	159	165	---	---	---
27	139	135	138	130	123	126	159	152	155	186	179	183
28	142	137	139	136	130	133	157	148	153	186	183	185
29	149	141	143	141	136	138	156	151	154	187	182	185
30	154	149	150	146	141	142	156	150	153	188	182	186
31	---	---	---	149	145	147	159	151	153	---	---	---
Month	172	105	133	173	102	150	171	122	150	---	---	---

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	8.0	7.8	7.9	7.5	7.2	7.4	8.6	7.9	8.0	7.9	7.8	7.8
2	8.0	7.6	7.7	7.6	7.4	7.5	8.5	7.9	8.0	8.0	7.7	7.8
3	7.8	7.4	7.6	7.6	7.4	7.5	8.5	7.8	8.0	7.9	7.7	7.8
4	7.8	7.5	7.6	7.5	7.4	7.4	8.6	7.8	8.0	8.0	7.7	7.8
5	---	---	---	7.4	7.4	7.4	8.7	7.8	8.0	8.0	7.8	7.8
6	---	---	---	---	---	---	8.8	7.9	8.1	8.0	7.7	7.8
7	---	---	---	7.7	7.6	7.7	8.3	7.9	8.0	8.0	7.8	7.8
8	---	---	---	7.8	7.7	7.7	8.6	7.9	8.1	8.0	7.7	7.8
9	---	---	---	7.8	7.7	7.7	8.1	7.8	8.0	7.9	7.8	7.8
10	---	---	---	7.9	7.7	7.8	8.3	7.8	8.0	8.0	7.8	7.9
11	---	---	---	7.9	7.7	7.8	8.6	7.9	8.1	7.9	7.8	7.8
12	---	---	---	7.9	7.7	7.8	8.4	8.0	8.2	7.9	7.7	7.8
13	---	---	---	8.0	7.8	7.8	8.4	8.0	8.1	7.8	7.7	7.7
14	---	---	---	8.0	7.8	7.9	8.3	8.0	8.1	7.8	7.6	7.7
15	---	---	---	8.1	7.8	7.9	8.3	8.0	8.1	---	---	---
16	---	---	---	8.1	7.8	7.9	8.3	8.0	8.1	7.7	7.4	7.6
17	---	---	---	8.1	7.8	7.9	8.3	7.9	8.1	7.4	7.3	7.3
18	---	---	---	8.2	7.8	7.9	8.3	7.9	8.1	7.4	7.3	7.4
19	---	---	---	8.2	7.8	7.9	8.3	7.9	8.1	7.5	7.4	7.4
20	---	---	---	8.2	7.8	7.9	8.2	7.9	8.0	7.6	7.4	7.5
21	---	---	---	8.3	7.8	7.9	8.1	7.9	8.0	7.6	7.5	7.6
22	---	---	---	8.4	7.8	7.9	8.1	7.9	8.0	7.7	7.5	7.6
23	---	---	---	8.3	7.8	8.0	8.1	7.9	7.9	7.7	7.6	7.6
24	7.7	7.2	7.4	8.4	7.9	8.0	8.0	7.8	7.9	7.7	7.6	7.6
25	7.7	7.4	7.5	8.5	7.9	8.0	8.0	7.8	7.8	7.7	7.6	7.6
26	7.6	7.3	7.4	8.4	7.8	8.0	7.8	7.7	7.8	7.7	7.6	7.7
27	7.6	7.3	7.4	8.2	7.8	7.9	7.9	7.8	7.8	7.8	7.7	7.7
28	7.8	7.4	7.6	8.5	7.8	8.0	8.0	7.8	7.8	7.8	7.7	7.7
29	8.1	7.7	7.8	8.6	7.9	8.0	8.0	7.8	7.8	7.8	7.7	7.7
30	8.1	7.4	7.7	8.6	7.9	8.1	8.0	7.8	7.8	7.8	7.7	7.7
31	7.4	7.2	7.2	---	---	---	8.0	7.8	7.8	7.7	7.3	7.6
Max	---	---	---	---	---	---	8.8	8.0	8.2	---	---	---
Min	---	---	---	---	---	---	7.8	7.7	7.8	---	---	---

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	7.3	7.2	7.3	7.9	7.7	7.8	7.8	7.6	7.7	8.2	7.7	7.9
2	7.4	7.3	7.3	7.9	7.7	7.8	7.8	7.6	7.6	8.3	7.7	7.9
3	7.5	7.4	7.4	8.0	7.7	7.8	7.8	7.6	7.6	8.3	7.7	7.9
4	7.5	7.4	7.5	8.2	7.6	7.8	7.8	7.6	7.6	8.3	7.7	7.9
5	7.6	7.5	7.6	8.2	7.6	7.8	7.8	7.6	7.7	8.4	7.7	7.9
6	7.6	7.5	7.6	7.9	7.6	7.7	7.9	7.6	7.7	8.1	7.7	7.9
7	7.7	7.6	7.6	8.1	7.6	7.8	7.9	7.6	7.7	7.9	7.7	7.8
8	7.7	7.6	7.7	8.2	7.6	7.8	7.9	7.6	7.7	7.7	7.1	7.4
9	7.8	7.6	7.7	8.2	7.6	7.8	8.0	7.6	7.7	7.3	7.1	7.2
10	7.8	7.7	7.7	8.2	7.6	7.8	8.1	7.6	7.8	7.3	7.3	7.3
11	7.8	7.7	7.8	7.8	7.6	7.7	8.2	7.6	7.8	7.4	7.3	7.3
12	7.9	7.7	7.7	7.6	7.5	7.6	8.1	7.6	7.7	7.4	7.4	7.4
13	7.8	7.6	7.7	7.5	7.4	7.5	7.8	7.6	7.7	7.5	7.4	7.5
14	7.9	7.6	7.7	7.5	7.4	7.4	7.7	7.5	7.6	7.6	7.5	7.6
15	7.8	7.7	7.7	7.7	7.4	7.5	7.7	7.5	7.6	7.8	7.5	7.6
16	7.9	7.7	7.8	7.6	7.5	7.5	8.0	7.5	7.7	7.8	7.6	7.6
17	7.9	7.7	7.8	7.8	7.5	7.6	8.1	7.5	7.7	7.9	7.5	7.7
18	7.9	7.7	7.8	7.7	7.6	7.6	8.1	7.6	7.7	7.9	7.5	7.7
19	7.9	7.7	7.8	8.0	7.6	7.7	7.9	7.6	7.7	7.9	7.6	7.7
20	7.9	7.7	7.8	8.0	7.6	7.7	8.0	7.6	7.7	8.2	7.6	7.8
21	8.0	7.7	7.8	7.9	7.6	7.7	7.9	7.6	7.7	8.4	7.6	7.9
22	7.9	7.7	7.8	7.9	7.6	7.7	8.0	7.6	7.7	---	---	---
23	8.0	7.7	7.8	8.0	7.6	7.7	8.1	7.6	7.7	8.4	7.6	7.8
24	8.0	7.7	7.8	7.9	7.6	7.7	8.1	7.6	7.7	8.0	7.6	7.8
25	8.2	7.8	7.9	7.9	7.6	7.7	8.2	7.6	7.8	8.1	7.7	7.8
26	8.0	7.8	7.8	7.9	7.6	7.7	8.2	7.6	7.8	8.2	7.7	7.8
27	8.0	7.7	7.8	7.9	7.6	7.7	8.2	7.6	7.8	8.1	7.6	7.8
28	8.0	7.8	7.8	7.8	7.6	7.7	7.8	7.6	7.7	8.2	7.6	7.8
29	---	---	---	7.8	7.6	7.7	7.9	7.6	7.7	8.4	7.6	7.8
30	---	---	---	7.9	7.6	7.7	7.9	7.7	7.8	8.4	7.6	7.9
31	---	---	---	7.7	7.6	7.6	---	---	---	8.4	7.6	7.8
Max	8.2	7.8	7.9	8.2	7.7	7.8	8.2	7.7	7.8	---	---	---
Min	7.3	7.2	7.3	7.5	7.4	7.4	7.7	7.5	7.6	---	---	---

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	8.4	7.6	7.9	8.4	7.7	8.0	8.6	7.7	8.2	8.6	7.8	8.2
2	8.4	7.6	7.8	8.5	7.8	8.1	8.6	7.7	8.2	8.7	7.7	8.2
3	8.3	7.6	7.9	8.5	7.8	8.1	8.2	7.7	8.0	8.6	7.7	8.1
4	8.4	7.6	7.9	8.3	7.7	8.0	8.5	7.7	8.0	8.6	7.7	8.1
5	8.5	7.7	8.1	8.5	7.7	8.0	8.5	7.7	8.1	8.6	7.7	8.0
6	8.0	7.7	7.9	8.5	7.7	8.0	8.4	7.7	8.0	8.6	7.7	8.0
7	8.1	7.6	7.8	8.3	7.7	7.9	8.4	7.7	7.9	8.6	7.8	7.9
8	8.4	7.7	8.0	8.4	7.7	8.0	8.3	7.6	8.0	8.5	7.6	7.9
9	8.4	7.8	8.0	8.3	7.8	8.0	8.0	7.7	7.8	8.4	7.7	7.9
10	8.2	7.8	7.9	8.3	7.9	8.0	7.9	7.6	7.7	8.6	7.7	8.0
11	8.2	7.6	7.8	8.2	7.8	8.0	8.1	7.5	7.7	8.5	7.8	8.0
12	7.6	7.4	7.5	8.1	7.8	7.9	8.4	7.5	7.8	8.4	7.8	8.0
13	7.5	7.3	7.4	8.2	7.9	7.9	8.3	7.5	7.9	8.4	7.6	8.0
14	7.6	7.4	7.5	8.1	7.8	7.9	8.5	7.6	8.0	8.6	7.8	8.0
15	7.5	7.4	7.4	8.4	7.9	8.0	8.6	7.7	8.1	8.5	7.7	8.0
16	7.5	7.4	7.4	8.5	7.8	8.0	8.7	7.8	8.2	8.3	7.7	7.9
17	7.9	7.4	7.6	8.6	7.7	8.1	8.7	7.8	8.4	8.6	7.7	7.9
18	7.8	7.6	7.7	8.7	7.7	8.2	8.7	7.7	8.2	8.5	7.8	7.9
19	8.1	7.6	7.9	8.7	7.7	8.3	8.7	7.7	8.2	8.5	7.8	8.1
20	7.9	7.7	7.8	8.6	7.7	8.3	8.8	7.8	8.3	8.6	7.7	8.1
21	7.9	7.6	7.7	8.6	7.7	8.3	8.7	7.8	8.3	8.2	7.6	8.0
22	8.1	7.5	7.7	8.6	7.7	8.2	8.7	7.7	8.2	8.4	7.7	7.8
23	8.2	7.5	7.8	8.0	7.4	7.7	8.2	7.7	7.9	8.5	7.8	7.9
24	8.2	7.6	7.8	7.4	7.2	7.2	8.6	7.7	8.2	8.5	7.8	7.9
25	8.5	7.6	8.0	7.4	7.2	7.3	8.4	7.8	8.2	8.4	7.7	8.0
26	8.5	7.8	8.0	7.8	7.4	7.6	8.5	7.9	8.1	8.6	7.8	8.0
27	8.3	7.7	8.0	7.9	7.5	7.6	8.3	7.8	8.0	8.4	7.8	8.0
28	8.3	7.7	7.9	8.1	7.5	7.7	8.0	7.7	7.8	8.2	7.8	8.0
29	8.3	7.7	8.0	8.3	7.6	7.9	8.5	7.6	8.0	8.4	7.8	8.0
30	8.5	7.7	8.0	8.5	7.6	8.1	8.6	7.7	8.2	8.5	7.8	8.0
31	---	---	---	8.6	7.7	8.1	8.5	7.8	8.2	---	---	---
Max	8.5	7.8	8.1	8.7	7.9	8.3	8.8	7.9	8.4	8.7	7.8	8.2
Min	7.5	7.3	7.4	7.4	7.2	7.2	7.9	7.5	7.7	8.2	7.6	7.8

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	17.7	16.1	16.9	9.2	8.9	9.0	4.5	3.0	3.7	2.2	1.5	1.8
2	17.4	16.9	17.2	9.1	8.6	8.8	4.9	3.6	4.1	2.4	1.7	2.0
3	19.0	17.3	18.0	8.6	8.0	8.2	6.0	4.7	5.3	1.8	0.8	1.3
4	20.0	18.7	19.2	8.2	7.6	7.9	7.6	5.8	6.6	1.7	1.0	1.3
5	19.9	17.8	18.9	8.2	7.5	7.8	8.1	6.9	7.5	1.4	0.3	0.9
6	19.1	16.9	18.1	7.7	6.6	7.0	6.9	5.4	6.2	2.2	1.1	1.6
7	16.9	14.6	15.6	6.8	6.1	6.4	5.5	5.2	5.4	2.9	2.1	2.4
8	14.6	12.7	13.4	6.8	5.5	6.2	6.5	5.5	5.9	2.4	1.4	2.0
9	14.0	12.1	12.9	6.9	5.4	6.2	6.8	6.4	6.6	2.1	1.5	1.8
10	14.5	12.7	13.5	7.3	5.8	6.6	7.4	6.8	7.1	3.2	1.9	2.6
11	14.1	11.8	13.0	7.7	6.2	7.1	7.4	6.7	7.1	3.8	3.1	3.4
12	13.2	11.4	12.1	8.9	7.3	7.9	6.7	5.5	6.0	5.2	3.8	4.5
13	12.5	9.8	11.2	9.3	8.0	8.7	5.5	4.3	4.8	6.5	5.2	5.8
14	13.2	11.2	12.0	8.0	7.0	7.6	4.3	3.2	3.8	7.3	6.5	6.9
15	14.4	13.0	13.5	7.0	6.0	6.5	4.0	2.9	3.5	7.2	6.6	7.0
16	---	---	---	6.8	5.5	6.2	4.5	3.9	4.2	6.6	5.5	6.2
17	14.0	11.4	12.7	6.3	5.1	5.8	5.3	4.3	4.7	5.6	5.4	5.5
18	13.6	11.8	12.9	6.0	4.7	5.4	6.0	5.2	5.5	5.5	4.5	5.2
19	14.6	13.3	13.9	6.5	5.3	5.8	5.6	5.0	5.3	4.6	3.8	4.2
20	14.1	12.6	13.3	6.2	5.3	5.8	5.4	5.1	5.2	4.5	3.6	4.0
21	13.4	11.2	12.5	6.4	5.0	5.7	5.2	4.4	5.0	3.8	3.1	3.5
22	13.3	10.5	12.0	6.2	4.8	5.5	4.4	3.4	3.8	3.1	0.6	1.8
23	13.9	11.8	12.8	5.6	4.5	5.2	3.4	2.4	2.9	0.6	-0.1	0.1
24	15.0	13.3	14.0	5.3	4.3	4.8	2.8	1.8	2.2	0.2	-0.1	0.0
25	16.2	13.6	14.8	4.7	3.6	4.1	2.7	1.8	2.2	0.0	0.0	0.0
26	16.3	15.6	15.9	4.6	2.8	3.7	2.5	0.0	1.2	0.3	0.0	0.1
27	16.5	15.6	16.0	4.2	3.8	4.0	0.9	0.0	0.5	0.7	-0.1	0.2
28	16.3	14.5	15.4	4.7	3.8	4.2	1.6	0.7	1.1	0.5	0.0	0.2
29	14.5	11.9	13.1	4.4	3.0	3.7	1.7	1.1	1.4	1.8	0.4	1.1
30	12.4	8.7	10.2	4.2	2.7	3.4	2.1	1.4	1.7	3.3	1.4	2.1
31	9.0	8.7	8.8	---	---	---	1.7	0.9	1.4	6.6	3.3	5.2
Month	---	---	---	9.3	2.7	6.2	8.1	0.0	4.3	7.3	-0.1	2.7

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	6.3	3.2	4.8	4.6	4.2	4.4	8.2	6.8	7.4	17.6	14.4	15.8
2	3.2	1.6	2.2	4.3	3.7	4.0	8.3	6.5	7.4	18.7	15.5	17.1
3	1.8	1.2	1.5	3.7	3.0	3.3	8.3	6.3	7.2	19.0	16.4	17.8
4	1.6	0.8	1.2	4.4	2.5	3.3	7.8	6.3	7.2	19.0	16.5	17.8
5	2.0	1.3	1.6	4.4	2.4	3.5	9.7	6.9	8.2	19.1	16.5	17.9
6	2.5	2.0	2.2	4.2	2.4	2.9	10.5	7.8	9.2	17.9	16.4	16.9
7	2.6	1.9	2.3	4.0	2.7	3.3	11.2	9.2	10.2	16.4	15.8	16.3
8	3.2	2.6	2.9	4.7	3.1	3.8	13.2	10.4	11.8	15.8	13.0	14.3
9	3.6	2.5	3.0	5.7	3.3	4.5	15.6	12.3	13.8	13.9	12.6	13.2
10	3.0	1.6	2.5	6.6	4.4	5.5	17.7	14.5	16.1	14.3	13.3	13.8
11	4.6	3.0	3.7	7.0	6.1	6.5	18.8	16.3	17.6	15.3	14.3	14.9
12	5.7	3.9	4.8	7.4	6.9	7.2	19.1	17.2	18.1	15.7	14.8	15.2
13	5.1	4.2	4.6	7.3	6.7	7.0	18.1	16.2	17.0	14.8	13.8	14.3
14	5.5	4.0	4.8	6.7	5.5	6.0	16.4	14.4	15.5	13.9	12.5	13.3
15	5.0	4.2	4.7	6.2	4.7	5.4	15.5	14.6	15.0	15.6	12.8	14.0
16	4.7	3.9	4.4	6.0	5.6	5.8	17.2	14.5	15.8	17.1	15.3	16.1
17	3.9	2.0	3.0	5.9	5.5	5.7	18.3	16.4	17.3	19.2	16.2	17.6
18	2.7	0.9	1.9	5.7	4.4	5.0	19.3	17.7	18.3	19.4	18.2	18.8
19	2.8	1.5	2.2	6.6	4.4	5.3	18.8	17.8	18.4	18.9	18.3	18.5
20	2.4	1.6	2.0	6.6	4.8	5.7	17.8	15.2	16.3	21.4	18.3	19.7
21	2.5	0.8	1.6	6.2	4.9	5.4	15.3	13.4	14.4	23.3	20.1	21.8
22	1.4	0.9	1.1	4.9	4.0	4.4	14.9	12.8	13.8	---	---	---
23	3.0	1.4	2.2	6.0	3.9	5.0	15.2	12.6	13.9	24.2	22.7	23.4
24	4.0	2.6	3.2	5.7	4.9	5.2	15.8	13.3	14.6	23.2	19.2	21.0
25	5.0	3.1	4.0	5.3	4.4	4.8	16.3	13.9	15.2	19.2	17.4	18.2
26	4.0	3.4	3.5	5.8	4.5	5.1	16.8	14.3	15.6	18.8	16.0	17.5
27	4.9	3.4	4.2	5.8	4.8	5.3	17.4	14.4	16.0	18.1	16.6	17.3
28	4.9	4.4	4.7	5.7	5.0	5.4	16.7	14.8	15.5	19.2	16.5	17.7
29	---	---	---	6.4	5.1	5.8	14.8	14.3	14.6	21.4	18.4	19.8
30	---	---	---	8.3	5.5	6.9	14.7	14.3	14.5	23.7	20.3	22.0
31	---	---	---	7.8	7.0	7.2	---	---	---	25.5	22.2	23.8
Month	6.3	0.8	3.0	8.3	2.4	5.1	19.3	6.3	13.9	---	---	---

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	26.1	23.8	25.0	27.0	25.3	26.2	25.5	23.5	24.4	27.0	25.0	26.0
2	26.1	24.8	25.3	26.9	25.4	26.2	26.4	23.7	25.0	28.0	25.3	26.5
3	25.0	23.5	24.3	27.6	25.7	26.6	25.2	23.7	24.3	27.2	25.4	26.2
4	24.5	21.6	23.2	28.6	25.6	27.1	24.4	22.6	23.5	26.2	23.3	24.8
5	24.0	21.6	22.8	29.3	26.3	27.8	24.8	21.7	23.4	25.1	22.7	23.7
6	23.1	21.3	22.0	30.4	26.8	28.6	24.2	22.6	23.3	24.4	21.1	22.6
7	21.3	20.7	21.0	29.4	27.3	28.1	25.0	22.9	23.8	23.7	20.4	22.0
8	22.9	20.4	21.5	28.7	25.9	27.4	25.5	23.6	24.6	23.9	21.5	22.6
9	23.5	21.4	22.5	27.9	26.7	27.2	25.4	24.4	24.7	23.1	21.7	22.4
10	23.5	22.7	23.1	27.2	26.2	26.7	25.2	23.6	24.3	25.0	21.7	23.2
11	23.8	21.9	22.8	27.3	25.8	26.5	26.0	23.7	24.8	26.7	23.6	25.0
12	22.4	20.4	21.5	26.5	24.8	25.4	26.8	24.6	25.7	27.4	24.8	25.9
13	22.2	21.2	21.6	25.2	24.2	24.7	26.7	25.3	26.0	25.7	22.9	24.7
14	21.5	20.4	20.9	26.2	24.1	25.1	25.7	23.7	24.5	23.1	20.4	21.7
15	21.3	19.7	20.5	27.8	25.0	26.4	24.1	21.9	23.1	21.7	18.6	20.2
16	21.2	20.0	20.6	29.1	26.5	27.7	24.0	21.8	22.9	21.1	19.5	20.1
17	22.6	20.1	21.3	30.1	27.6	28.8	23.8	21.7	22.7	21.7	18.2	19.7
18	22.5	21.8	22.1	31.5	28.3	29.9	23.1	21.9	22.4	20.2	17.1	18.6
19	23.6	21.5	22.4	32.0	29.0	30.4	22.9	21.1	21.9	19.8	17.4	18.5
20	22.7	21.3	22.1	30.4	28.5	29.5	25.3	22.0	23.5	20.9	17.8	19.2
21	23.5	21.0	22.2	29.3	27.8	28.5	26.1	22.9	24.5	20.7	19.5	20.0
22	24.9	21.8	23.4	28.4	26.7	27.5	26.6	23.9	25.1	21.1	18.8	19.6
23	25.8	23.5	24.6	27.2	24.4	26.0	25.2	23.4	24.4	20.0	17.8	18.6
24	26.4	24.7	25.5	24.6	23.2	23.9	25.8	22.5	23.9	19.6	16.3	17.8
25	27.6	24.7	26.1	24.8	22.4	23.6	25.0	23.1	24.0	19.4	16.5	17.7
26	27.1	25.6	26.3	25.2	22.7	24.0	25.0	22.7	23.9	19.4	16.6	17.8
27	26.1	25.4	25.8	24.4	23.4	23.8	24.9	23.8	24.3	18.7	16.6	17.5
28	26.8	24.7	25.6	25.5	23.1	24.1	24.3	23.9	24.1	17.8	16.8	17.2
29	27.2	24.5	25.8	25.6	23.1	24.4	26.1	23.5	24.6	18.9	16.0	17.3
30	27.5	25.0	26.1	25.4	22.7	24.1	26.8	24.1	25.4	19.3	16.2	17.7
31	---	---	---	25.1	23.1	24.0	26.6	25.1	25.9	---	---	---
Month	27.6	19.7	23.3	32.0	22.4	26.5	26.8	21.1	24.2	28.0	16.0	21.2

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	13.7	12.5	13.0	13.6	13.0	13.3
2	---	---	---	---	---	---	13.5	12.4	12.8	13.7	12.9	13.2
3	---	---	---	---	---	---	13.2	12.0	12.5	13.9	13.2	13.5
4	---	---	---	---	---	---	13.2	11.6	12.3	13.9	13.3	13.6
5	---	---	---	---	---	---	12.8	11.2	11.8	14.1	13.4	13.7
6	---	---	---	---	---	---	13.2	11.3	12.1	13.8	13.2	13.5
7	---	---	---	12.0	11.7	11.8	12.7	11.6	12.1	13.7	13.0	13.3
8	---	---	---	12.1	11.8	11.9	13.1	11.6	12.2	13.9	13.1	13.4
9	---	---	---	12.3	11.8	12.0	12.1	11.4	11.7	13.8	13.2	13.4
10	---	---	---	12.2	11.8	12.0	12.3	11.2	11.6	13.8	13.0	13.3
11	---	---	---	12.2	11.6	11.9	12.6	11.2	11.8	13.1	12.6	12.9
12	---	---	---	12.0	11.2	11.6	13.0	11.7	12.2	12.8	12.2	12.5
13	---	---	---	11.8	11.1	11.4	13.3	12.1	12.6	12.4	11.8	12.1
14	---	---	---	12.2	11.3	11.7	13.5	12.4	12.9	12.1	11.6	11.8
15	---	---	---	12.5	11.7	12.0	13.7	12.6	13.1	12.0	11.5	11.7
16	---	---	---	12.6	11.9	12.1	13.2	12.4	12.8	11.8	11.7	11.8
17	---	---	---	12.8	11.9	12.3	13.0	12.2	12.5	12.0	11.8	11.9
18	---	---	---	13.0	12.1	12.5	12.8	11.8	12.2	12.3	11.9	12.1
19	---	---	---	12.9	12.1	12.4	12.8	11.8	12.2	12.7	12.3	12.5
20	---	---	---	12.8	11.9	12.3	12.8	11.9	12.3	12.7	12.5	12.6
21	---	---	---	12.8	11.9	12.2	12.4	11.7	12.1	12.9	12.6	12.7
22	---	---	---	12.9	11.9	12.3	13.0	12.0	12.5	13.5	12.7	13.2
23	---	---	---	12.9	11.9	12.3	13.3	12.5	12.8	14.1	13.5	13.9
24	---	---	---	12.9	11.9	12.3	13.3	12.8	13.0	14.2	13.9	14.0
25	---	---	---	13.3	12.1	12.6	13.6	12.9	13.2	14.2	13.9	14.1
26	---	---	---	13.5	12.3	12.8	13.3	12.8	13.1	14.1	13.9	14.0
27	---	---	---	13.1	12.3	12.6	13.8	13.2	13.4	14.3	13.9	14.1
28	---	---	---	13.4	12.2	12.7	14.0	13.4	13.6	14.1	13.8	13.9
29	---	---	---	13.7	12.4	12.9	13.6	13.1	13.3	13.9	13.4	13.7
30	---	---	---	13.8	12.6	13.0	13.7	13.0	13.3	13.5	12.7	13.3
31	---	---	---	---	---	---	13.9	13.2	13.5	12.7	11.3	11.8
Month	---	---	---	---	---	---	14.0	11.2	12.6	14.3	11.3	13.1

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	12.6	11.4	12.0	12.6	12.0	12.3	11.4	11.0	11.2	10.5	8.0	9.5
2	13.2	12.6	13.0	12.8	12.2	12.5	11.6	11.0	11.3	10.5	7.9	9.2
3	13.3	13.2	13.3	13.2	12.4	12.8	11.7	11.1	11.4	10.0	7.0	8.5
4	13.5	13.2	13.4	13.5	12.6	13.0	11.8	11.1	11.4	10.5	7.2	8.8
5	13.4	13.1	13.3	13.7	12.8	13.2	11.6	10.6	11.2	10.1	7.2	8.6
6	13.2	13.0	13.1	13.6	12.6	13.0	11.4	10.4	10.9	9.9	8.1	9.0
7	13.4	13.0	13.2	14.0	13.1	13.5	11.0	10.1	10.6	10.0	8.5	9.2
8	13.1	12.7	12.9	14.1	13.3	13.6	10.6	9.8	10.3	---	---	---
9	13.2	12.6	12.9	14.1	13.1	13.6	10.3	9.2	9.8	10.7	10.2	10.6
10	13.4	12.9	13.2	14.0	13.0	13.3	9.9	8.6	9.3	10.6	10.4	10.6
11	13.0	12.4	12.8	13.4	12.6	12.9	9.8	8.4	9.0	10.4	10.2	10.3
12	12.8	12.0	12.4	12.6	11.1	12.0	9.6	8.2	8.8	10.4	10.3	10.3
13	12.5	12.0	12.2	---	---	---	9.2	8.2	8.6	10.8	10.0	10.4
14	12.6	12.0	12.2	---	---	---	9.5	8.2	8.9	11.2	10.1	10.6
15	12.7	12.0	12.3	---	---	---	---	---	---	11.1	9.5	10.4
16	12.8	12.1	12.4	12.1	11.8	12.0	---	---	---	10.6	9.0	9.6
17	13.1	12.2	12.7	12.5	11.8	12.1	9.9	8.7	9.2	9.8	8.8	9.3
18	13.7	12.8	13.2	12.3	11.9	12.1	9.6	8.5	8.9	9.4	7.8	8.9
19	13.4	12.8	13.1	12.7	12.0	12.3	9.2	8.2	8.7	9.1	7.8	8.7
20	13.6	12.8	13.1	12.5	11.8	12.1	10.0	8.5	9.3	9.8	8.4	9.0
21	13.8	13.1	13.4	12.3	11.7	12.0	10.3	9.4	9.8	9.7	8.0	8.7
22	13.8	13.2	13.5	12.8	12.0	12.3	10.8	9.6	10.1	---	---	---
23	13.7	12.8	13.3	12.8	11.9	12.4	10.8	9.5	10.2	9.5	7.4	8.2
24	13.3	12.6	12.9	13.2	11.8	12.1	10.7	9.2	9.9	9.0	7.6	8.2
25	13.4	12.4	12.8	12.4	11.7	12.0	10.5	9.1	9.7	9.9	8.5	9.1
26	12.9	12.3	12.6	12.4	11.8	12.1	10.2	8.6	9.4	10.2	8.4	9.3
27	12.9	12.1	12.5	12.3	11.8	12.0	10.3	8.6	9.5	10.1	8.6	9.3
28	12.5	12.0	12.2	12.2	11.7	12.0	9.8	8.5	9.2	10.3	8.7	9.3
29	---	---	---	12.2	11.6	11.9	10.3	8.8	9.5	10.1	8.0	9.0
30	---	---	---	12.1	11.2	11.7	10.2	7.8	9.4	9.9	8.0	8.7
31	---	---	---	11.4	11.0	11.2	---	---	---	9.6	7.4	8.3
Month	13.8	11.4	12.9	---	---	---	---	---	---	---	---	---

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued**DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	9.1	7.0	8.0	8.8	6.8	7.7	10.0	7.0	8.2	9.7	6.9	8.0
2	9.1	6.7	7.8	9.0	7.1	8.0	10.9	6.7	8.2	10.1	6.5	7.9
3	9.0	7.0	8.0	9.2	6.9	7.8	8.8	6.7	7.7	9.4	6.2	7.6
4	9.4	7.3	8.2	8.7	6.6	7.5	10.3	7.1	8.3	9.7	6.6	7.9
5	9.6	7.4	8.4	8.8	6.2	7.3	10.4	7.3	8.5	10.3	6.8	8.0
6	8.5	7.3	8.0	9.4	6.2	7.3	9.8	7.1	8.1	10.8	6.8	8.3
7	8.9	7.6	8.2	9.6	5.7	6.9	9.6	6.8	7.8	11.2	7.1	8.5
8	9.6	7.8	8.6	9.0	6.0	7.4	9.0	6.4	7.8	10.7	5.9	8.1
9	9.6	7.8	8.5	8.6	6.7	7.5	8.5	7.4	7.8	10.7	6.3	8.0
10	9.1	7.5	8.1	8.7	7.0	7.6	8.3	7.3	7.7	11.1	6.9	8.4
11	9.0	7.3	7.9	9.1	7.0	7.9	8.9	7.4	8.0	---	---	---
12	8.0	7.3	7.7	8.5	6.7	7.6	9.2	7.3	8.1	9.7	6.2	7.1
13	8.1	7.5	7.8	8.6	7.3	7.8	9.0	6.9	7.9	9.2	6.2	7.5
14	8.3	7.4	7.8	8.7	7.3	7.9	9.4	7.2	8.2	11.6	7.0	8.4
15	8.2	7.2	7.7	8.9	7.3	7.9	10.1	7.8	8.7	11.3	6.8	8.8
16	8.4	7.2	8.0	9.0	7.0	7.8	9.9	7.8	8.7	10.0	6.4	8.1
17	8.6	7.6	8.1	9.3	6.8	7.8	10.2	7.7	8.8	11.2	6.8	8.7
18	8.5	7.4	7.9	9.5	6.5	7.7	10.0	7.5	8.5	11.4	7.6	9.1
19	9.1	7.7	8.3	10.0	6.2	7.5	10.7	7.6	8.8	10.8	6.9	8.9
20	8.8	7.7	8.2	9.3	6.2	7.5	10.5	7.6	8.8	11.4	6.7	8.6
21	8.9	8.1	8.5	9.6	6.2	7.5	10.2	7.3	8.3	9.3	6.1	7.8
22	9.1	7.9	8.4	9.5	6.4	7.5	10.5	6.7	8.2	10.3	6.6	8.2
23	9.0	7.4	8.1	7.5	6.8	7.0	9.0	6.7	7.6	11.2	7.3	8.8
24	8.8	7.2	7.9	7.2	6.9	7.1	10.1	7.4	8.4	11.5	7.9	9.2
25	9.2	7.2	8.0	8.1	7.2	7.7	9.5	7.8	8.5	11.0	7.4	9.1
26	9.0	7.1	7.9	8.8	7.6	8.0	9.7	7.8	8.5	11.1	7.8	9.1
27	8.7	7.0	7.8	8.7	7.6	8.0	9.1	7.4	8.1	11.2	7.6	9.1
28	9.0	7.0	7.8	9.3	7.6	8.3	8.1	7.2	7.6	9.8	7.6	8.7
29	8.9	7.0	7.8	9.5	7.5	8.3	9.7	7.0	8.1	10.9	7.5	9.2
30	8.9	6.8	7.7	9.9	7.4	8.5	9.4	7.1	8.1	11.4	7.7	9.2
31	---	---	---	10.3	7.3	8.4	9.3	6.9	7.9	---	---	---
Month	9.6	6.7	8.0	10.3	5.7	7.7	10.9	6.4	8.2	---	---	---

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 8

[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than]

Date	Sample start time	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)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)
10-19-2012	1210	Regular	742	16.0	97	10.2	102	8.2	193	14.1
10-19-2012	1218	Other QA	--	--	--	10.3	--	8.2	193	14.1
10-19-2012	1221	Other QA	--	--	--	10.3	--	8.2	193	14.0
10-19-2012	1222	Other QA	--	--	--	10.2	--	8.2	193	14.0
10-19-2012	1224	Other QA	--	--	--	10.2	--	8.2	193	14.1
10-19-2012	1225	Other QA	--	--	--	10.2	--	8.2	193	14.1
10-19-2012	1226	Other QA	--	--	--	10.3	--	8.2	193	14.1
10-19-2012	1227	Other QA	--	--	--	10.2	--	8.2	194	14.2
10-31-2012	1410	Regular	736	10.0	5,420	11.1	97	7.3	85	8.2
11-06-2012	1325	Regular	750	9.0	671	11.9	100	7.8	121	7.2
11-06-2012	1329	Other QA	--	--	--	11.9	--	7.8	121	7.2
11-06-2012	1330	Other QA	--	--	--	11.9	--	7.8	121	7.2
11-06-2012	1331	Other QA	--	--	--	11.9	--	7.8	121	7.2
11-06-2012	1332	Other QA	--	--	--	11.9	--	7.8	121	7.2
11-06-2012	1333	Other QA	--	--	--	11.9	--	7.8	121	7.2
11-06-2012	1334	Other QA	--	--	--	11.9	--	7.8	121	7.2
11-06-2012	1335	Other QA	--	--	--	11.9	--	7.8	121	7.2
11-06-2012	1336	Other QA	--	--	--	11.9	--	7.8	121	7.2
11-06-2012	1337	Other QA	--	--	--	11.9	--	7.8	121	7.3
11-06-2012	1338	Other QA	--	--	--	11.9	--	7.8	121	7.3
12-11-2012	1420	Regular	749	17.0	281	12.6	106	8.1	162	7.4
01-15-2013	1415	Regular	755	5.5	849	12.1	100	7.6	107	7.1
01-17-2013	1830	Regular	749	3.5	4,160	11.9	95	7.7	85	5.4
02-12-2013	1405	Regular	746	14.5	600	12.5	100	7.8	119	5.3
02-12-2013	1412	Other QA	--	--	--	12.3	--	7.8	119	5.3
02-12-2013	1413	Other QA	--	--	--	12.4	--	7.8	119	5.3
02-12-2013	1414	Other QA	--	--	--	12.5	--	7.8	119	5.3
02-12-2013	1415	Other QA	--	--	--	12.5	--	7.8	119	5.3
02-12-2013	1416	Other QA	--	--	--	12.5	--	7.8	119	5.3
02-12-2013	1417	Other QA	--	--	--	12.5	--	7.8	119	5.3
02-12-2013	1418	Other QA	--	--	--	12.5	--	7.8	119	5.3
02-12-2013	1419	Other QA	--	--	--	12.5	--	7.8	119	5.3
02-12-2013	1420	Other QA	--	--	--	12.5	--	7.8	119	5.4
02-12-2013	1421	Other QA	--	--	--	12.5	--	7.8	120	5.4
03-12-2013	1820	Regular	746	7.5	2,330	11.7	99	7.5	110	7.5
04-16-2013	1510	Regular	751	30.0	916	10.4	108	7.8	103	16.8
05-14-2013	1505	Regular	748	--	1,580	10.5	103	7.5	99	13.8
05-14-2013	1506	Replicate	--	--	--	--	--	--	--	--
06-11-2013	1405	Regular	745	26.0	390	9.2	110	8.1	159	23.4
06-12-2013	0910	Regular	746	26.5	1,800	8.1	92	7.3	116	20.6

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 2 of 8

[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than]

Date	Sample start time	Turbidity, water, unfiltered, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU (63680)	Gage height, ft (00065)	Suspended solids, water, unfiltered, mg/L (00530)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Ammonia, water, filtered, mg/L as NH4 (71846)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrate, water, filtered, mg/L (71851)
10-19-2012	1210	--	1.46	< 15	--	< .013	< .010	< .040	< .177
10-19-2012	1218	--	--	--	--	--	--	--	--
10-19-2012	1221	--	--	--	--	--	--	--	--
10-19-2012	1222	--	--	--	--	--	--	--	--
10-19-2012	1224	--	--	--	--	--	--	--	--
10-19-2012	1225	--	--	--	--	--	--	--	--
10-19-2012	1226	--	--	--	--	--	--	--	--
10-19-2012	1227	--	--	--	--	--	--	--	--
10-31-2012	1410	--	8.96	80	--	.025	.020	1.24	5.45
11-06-2012	1325	--	2.82	< 15	--	< .013	< .010	1.28	5.67
11-06-2012	1329	--	--	--	--	--	--	--	--
11-06-2012	1330	--	--	--	--	--	--	--	--
11-06-2012	1331	--	--	--	--	--	--	--	--
11-06-2012	1332	--	--	--	--	--	--	--	--
11-06-2012	1333	--	--	--	--	--	--	--	--
11-06-2012	1334	--	--	--	--	--	--	--	--
11-06-2012	1335	--	--	--	--	--	--	--	--
11-06-2012	1336	--	--	--	--	--	--	--	--
11-06-2012	1337	--	--	--	--	--	--	--	--
11-06-2012	1338	--	--	--	--	--	--	--	--
12-11-2012	1420	< 1.0	1.91	< 15	.18	< .013	< .010	.073	.318
01-15-2013	1415	--	3.05	< 15	.29	< .013	< .010	.550	2.42
01-17-2013	1830	--	6.86	53	2.48	.021	.016	.975	4.30
02-12-2013	1405	2.0	2.64	< 15	.21	< .013	< .010	.719	3.17
02-12-2013	1412	1.9	--	--	--	--	--	--	--
02-12-2013	1413	1.9	--	--	--	--	--	--	--
02-12-2013	1414	1.9	--	--	--	--	--	--	--
02-12-2013	1415	2.0	--	--	--	--	--	--	--
02-12-2013	1416	1.9	--	--	--	--	--	--	--
02-12-2013	1417	2.0	--	--	--	--	--	--	--
02-12-2013	1418	2.1	--	--	--	--	--	--	--
02-12-2013	1419	2.1	--	--	--	--	--	--	--
02-12-2013	1420	2.1	--	--	--	--	--	--	--
02-12-2013	1421	2.1	--	--	--	--	--	--	--
03-12-2013	1820	25	5.16	16	1.33	< .013	< .010	.515	2.27
04-16-2013	1510	4.8	3.15	< 15	.45	< .013	< .010	.487	2.14
05-14-2013	1505	12	4.08	< 15	.79	< .013	< .010	.501	2.21
05-14-2013	1506	--	--	< 15	.81	< .013	< .010	.491	2.17
06-11-2013	1405	1.3	2.22	< 15	.44	< .013	< .010	.135	.589
06-12-2013	0910	46	4.41	65	2.99	.037	.028	.348	1.53

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued

WATER-QUALITY DATA
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[% , percent; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; --, no data; <, less than]

Date	Sample start time	Nitrate, water, filtered, mg/L as N (00618)	Nitrite, water, filtered, mg/L (71856)	Nitrite, water, filtered, mg/L as N (00613)	Organic nitrogen, water, filtered, mg/L (00607)	Organic nitrogen, water, unfiltered, mg/L (00605)	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)
10-19-2012	1210	< .040	< .003	< .001	--	< .11	< .012	< .004	--	--
10-19-2012	1218	--	--	--	--	--	--	--	--	--
10-19-2012	1221	--	--	--	--	--	--	--	--	--
10-19-2012	1222	--	--	--	--	--	--	--	--	--
10-19-2012	1224	--	--	--	--	--	--	--	--	--
10-19-2012	1225	--	--	--	--	--	--	--	--	--
10-19-2012	1226	--	--	--	--	--	--	--	--	--
10-19-2012	1227	--	--	--	--	--	--	--	--	--
10-31-2012	1410	1.23	.021	.006	--	.80	.143	.047	--	--
11-06-2012	1325	1.28	.008	.003	--	< .17	.023	.008	--	--
11-06-2012	1329	--	--	--	--	--	--	--	--	--
11-06-2012	1330	--	--	--	--	--	--	--	--	--
11-06-2012	1331	--	--	--	--	--	--	--	--	--
11-06-2012	1332	--	--	--	--	--	--	--	--	--
11-06-2012	1333	--	--	--	--	--	--	--	--	--
11-06-2012	1334	--	--	--	--	--	--	--	--	--
11-06-2012	1335	--	--	--	--	--	--	--	--	--
11-06-2012	1336	--	--	--	--	--	--	--	--	--
11-06-2012	1337	--	--	--	--	--	--	--	--	--
11-06-2012	1338	--	--	--	--	--	--	--	--	--
12-11-2012	1420	.072	.004	.001	< .06	< .06	< .012	< .004	.030	< .003
01-15-2013	1415	.547	.008	.002	< .16	< .12	< .012	< .004	.041	.003
01-17-2013	1830	.971	.011	.003	.31	.55	.032	.010	.278	.019
02-12-2013	1405	.717	.008	.002	< .11	< .08	< .012	< .004	.022	.003
02-12-2013	1412	--	--	--	--	--	--	--	--	--
02-12-2013	1413	--	--	--	--	--	--	--	--	--
02-12-2013	1414	--	--	--	--	--	--	--	--	--
02-12-2013	1415	--	--	--	--	--	--	--	--	--
02-12-2013	1416	--	--	--	--	--	--	--	--	--
02-12-2013	1417	--	--	--	--	--	--	--	--	--
02-12-2013	1418	--	--	--	--	--	--	--	--	--
02-12-2013	1419	--	--	--	--	--	--	--	--	--
02-12-2013	1420	--	--	--	--	--	--	--	--	--
02-12-2013	1421	--	--	--	--	--	--	--	--	--
03-12-2013	1820	.513	.005	.002	< .20	< .20	< .012	< .004	.171	.006
04-16-2013	1510	.484	.011	.003	< .21	< .23	< .012	< .004	.061	.005
05-14-2013	1505	.499	.008	.002	< .26	< .19	.021	.007	.098	.009
05-14-2013	1506	.489	.006	.002	< .26	< .24	.020	.006	.080	.009
06-11-2013	1405	.133	.005	.002	< .15	< .19	< .012	< .004	.046	.005
06-12-2013	0910	.345	.011	.003	.29	.58	.019	.006	.340	.015

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued

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[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than]

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, analytically determined, mg/L (62855)	Total nitrogen, water, unfiltered, mg/L (00600)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concentration, mg/L (80154)
10-19-2012	1210	0.005	--	0.11	--	--	< .5
10-19-2012	1218	--	--	--	--	--	--
10-19-2012	1221	--	--	--	--	--	--
10-19-2012	1222	--	--	--	--	--	--
10-19-2012	1224	--	--	--	--	--	--
10-19-2012	1225	--	--	--	--	--	--
10-19-2012	1226	--	--	--	--	--	--
10-19-2012	1227	--	--	--	--	--	--
10-31-2012	1410	.169	--	2.06	--	92	90
11-06-2012	1325	.018	--	1.45	--	--	4
11-06-2012	1329	--	--	--	--	--	--
11-06-2012	1330	--	--	--	--	--	--
11-06-2012	1331	--	--	--	--	--	--
11-06-2012	1332	--	--	--	--	--	--
11-06-2012	1333	--	--	--	--	--	--
11-06-2012	1334	--	--	--	--	--	--
11-06-2012	1335	--	--	--	--	--	--
11-06-2012	1336	--	--	--	--	--	--
11-06-2012	1337	--	--	--	--	--	--
11-06-2012	1338	--	--	--	--	--	--
12-11-2012	1420	< .01	.14	.14	.17	--	< .5
01-15-2013	1415	< .01	.71	.67	.75	--	2
01-17-2013	1830	.08	1.30	1.54	1.6	85	63
02-12-2013	1405	< .01	.83	.80	.85	--	2
02-12-2013	1412	--	--	--	--	--	--
02-12-2013	1413	--	--	--	--	--	--
02-12-2013	1414	--	--	--	--	--	--
02-12-2013	1415	--	--	--	--	--	--
02-12-2013	1416	--	--	--	--	--	--
02-12-2013	1417	--	--	--	--	--	--
02-12-2013	1418	--	--	--	--	--	--
02-12-2013	1419	--	--	--	--	--	--
02-12-2013	1420	--	--	--	--	--	--
02-12-2013	1421	--	--	--	--	--	--
03-12-2013	1820	.02	.71	.72	.88	--	23
04-16-2013	1510	.01	.70	.72	.76	--	5
05-14-2013	1505	.02	.76	.69	.86	--	13
05-14-2013	1506	.03	.76	.73	.83	--	14
06-11-2013	1405	< .01	.28	.32	.33	--	2
06-12-2013	0910	.07	.67	.96	1.0	96	55

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued

WATER-QUALITY DATA

WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

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[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than]

Date	Sample start time	Sample type	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, unfiltered, mg/L (00300)	Dissolved oxygen, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)
06-14-2013	1240	Regular	746	25.5	2,990	8.2	94	7.2	111	21.1
07-16-2013	1315	Regular	756	34.0	339	8.6	110	8.1	131	28.0
08-13-2013	1140	Regular	746	25.0	294	8.4	106	8.0	123	26.0
09-11-2013	1030	Regular	755	28.0	103	8.4	101	8.2	173	24.6

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WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

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[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than]

Date	Sample start time	Turbidity, water, unfiltered, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU (63680)	Gage height, ft (00065)	Suspended solids, unfiltered, water, mg/L (00530)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Ammonia, water, filtered, mg/L as NH4 (71846)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrate, water, filtered, mg/L (71851)
06-14-2013	1240	42	5.75	66	4.17	0.023	0.018	0.457	2.01
07-16-2013	1315	--	2.10	< 15	.28	< .013	< .010	.314	1.37
08-13-2013	1140	4.8	2.01	< 15	.35	< .013	< .010	.319	1.39
09-11-2013	1030	.3	1.43	< 15	.22	< .013	< .010	< .040	< .177

WATER-QUALITY DATA

WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

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[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than]

Date	Sample start time	Nitrate, water, filtered, mg/L as N (00618)	Nitrite, water, filtered, mg/L (71856)	Nitrite, water, filtered, mg/L as N (00613)	Organic nitrogen, water, filtered, mg/L (00607)	Organic nitrogen, water, unfiltered, mg/L (00605)	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)
06-14-2013	1240	0.453	0.011	0.003	0.15	0.47	0.030	0.010	0.424	0.015
07-16-2013	1315	.310	.014	.004	< 0.002	< .28	.015	.005	.044	.009
08-13-2013	1140	.315	.016	.005	< .31	< .32	.019	.006	.046	.015
09-11-2013	1030	< .040	< .003	< .001	< .19	< .10	< .012	< .004	.028	.004

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

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[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than]

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, analytically determined, mg/L (62855)	Total nitrogen, water, unfiltered, mg/L (00600)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concentration, mg/L (80154)
06-14-2013	1240	0.07	0.62	0.94	1.0	86	68
07-16-2013	1315	.02	.32	.59	.36	--	2
08-13-2013	1140	.02	.62	.64	.67	--	4
09-11-2013	1030	< .01	.19	.10	.21	--	< .5