



Water-Data Report 2009

**01409416 HAMMONTON CREEK AT WESCOATVILLE, NJ**

MULLICA RIVER BASIN

LOCATION.--Lat 39°38'02", long 74°43'04" referenced to North American Datum of 1983, Hammonton Town, Atlantic County, NJ, Hydrologic Unit 02040301, at bridge on Chestnut Road, 0.4 mi south of Wescoatville, 1.1 mi southwest of Nesco, 1.7 mi upstream from Norton Branch, and 3.8 mi southwest of Batsto.

DRAINAGE AREA.--9.57 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Miscellaneous measurements, water years 1974, 1978-81, 1983, 1985 to current year.

REVISED RECORDS.--WDR NJ-83-1:Drainage area.

GAGE.--Staff gage.

REMARKS.--Flow may include some sewage effluent.

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Date	Discharge, in ft <sup>3</sup> /s
Oct 8, 2008	6.79
Dec 3, 2008	31.3
Feb 17, 2009	12.3
Mar 25, 2009	7.48
May 26, 2009	8.17
Jun 1, 2009	11.8
Jun 16, 2009	15.3
Jul 21, 2009	33.0
Aug 12, 2009	18.5
Aug 18, 2009	13.8
Sep 3, 2009	13.2
Sep 23, 2009	36.6

**01409416 HAMMONTON CREEK AT WESCOATVILLE, NJ—Continued****WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1974 to current year.

REMARKS.--Cooperative Network Site Descriptor: Mixed Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 14.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of carbonaceous biochemical oxygen demand, dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 2

[Remark codes: &lt;, less than.]

Date	Time	Baro-metric pressure, air, mm Hg (00025)	Temper-ature, deg C (00020)	Instan-taneous dis-charge, ft³/s (00061)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH (00400)	Spec-ific conduc-tance, µS/cm @ 25 degC (00095)	Turbdty white light, 90+/-30 det ang (63676)	Turbdty CBOD, water, 5 day, NTRU (80082)	Dis-solved solids, dried @ 180degC (70300)	Sus-pended solids, water, unfltrd (00530)	
Sep 17...	1230	752	19.0	9.2	8.4	88	6.5	146	17.4	4.0	<1.0	83	8

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 2

[Remark codes: &lt;, less than.]

Date	ANC, wat unf fixed end pt, lab, mg/L as CaCO <sub>3</sub> (90410)	Ammonia + Chloride, water, mg/L as N (00940)	Nitrate + Ammonia, water, mg/L as N (00625)	Phos-phorus, water, mg/L as N (00608)	Phos-phorus, water, mg/L as P (00631)	Total nitro- gen, water, mg/L as P (00666)	Chloro-phyll a, phyto-plank-ton, fluoro-, mg/L (00665)	Phe-o-phytin a, phyto-plank-ton, µg/L (00600)	Iron, water, unfltrd recover, µg/L (70953)	Boron, water, unfltrd recover, µg/L (62360)	Organic carbon, water, unfltrd recover, µg/L (01045)	Boron, water, unfltrd recover, µg/L (01022)	Organic carbon, water, unfltrd (00680)
Sep 17...	13	18.8	.44	.063	1.75	.32	.40	2.2	2.2	2.5	492	57	4.5

**01409416 HAMMONTON CREEK AT WESCOATVILLE, NJ—Continued**
**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 5

[Remark codes: &lt;, less than; E, estimated.]

Date	Time	Medium name	Sample type	Baro-metric pressure, mm Hg (00025)	Temper-ature, air, deg C (00020)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	UV absorb-ance, 280 nm, wat flt units /cm (61726)	Instan-taneous dis-charge, ft <sup>3</sup> /s (00061)
<b>Oct</b>								
08...	1400	Surface water	Regular	766	19.0	--	--	6.8
<b>Dec</b>								
03...	1150	Surface water	Regular	770	5.0	.179	.139	31
<b>Feb</b>								
17...	1130	Surface water	Regular	--	5.0	.081	.064	12
<b>Mar</b>								
25...	1400	Surface water	Regular	771	9.0	--	--	7.5
<b>May</b>								
26...	1345	Surface water	Regular	763	12.0	--	--	8.2
<b>Jun</b>								
01...	0930	Surface water	Regular	765	19.0	.206	.162	12
16...	1415	Surface water	Regular	--	28.0	--	--	15
<b>Jul</b>								
21...	1515	Surface water	Regular	762	--	--	--	33
<b>Aug</b>								
12...	1500	Surface water	Regular	--	28.0	--	--	18
18...	1120	Surface water	Regular	763	33.0	.211	.164	14
<b>Sep</b>								
03...	1415	Surface water	Replicate	--	22.0	--	--	13
03...	1420	QC sample - Surface water	Concurrent Replicate	--	--	--	--	--
23...	1500	Surface water	Regular	766	26.0	--	--	37

## 01409416 HAMMONTON CREEK AT WESCOATVILLE, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 5

[Remark codes: &lt;, less than; E, estimated.]

Date	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif-ic conduc-tance, $\mu\text{S}/\text{cm}$ @ 25 degC (00095)	Temper-ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd (63676)	Dis-solved CBOD, water, unfltrd 5 day, (80082)	Dis-solved solids dried @ 180degC (70300)	Dis-solved solids, sum of constituents, mg/L (70301)	Sus-pended hardness, water, mg/L as CaCO <sub>3</sub> (00900)	Sus-pended solids, water, unfltrd mg/L (00530)	Calci-um, water, filtrd, mg/L (00915)	Magnes-ium, water, filtrd, mg/L (00925)
Oct 08...	10.5	100	6.6	155	12.8	2.6	<1.0	92	--	--	1	--	--
Dec 03...	11.3	87	6.0	125	5.0	4.5	--	73	E68	22	7	4.90	2.46
Feb 17...	11.7	91	6.1	144	4.6	5.0	--	89	E87	29	2	6.61	2.98
Mar 25...	--	--	6.1	139	8.8	3.1	--	91	--	--	2	--	--
May 26...	8.0	82	6.3	125	16.4	10	<1.0	77	--	--	10	--	--
Jun 01...	7.5	75	6.1	118	15.8	8.7	--	83	E67	24	8	5.43	2.56
16...	7.3	78	6.2	130	18.9	9.9	--	75	--	--	8	--	--
Jul 21...	6.1	69	6.0	95	21.2	170	--	59	--	--	114	--	--
Aug 12...	6.4	71	6.4	118	23.4	8.8	--	83	--	--	9	--	--
18...	6.4	73	5.8	131	21.8	8.4	--	84	E74	25	6	5.52	2.64
Sep 03...	7.8	83	6.2	123	18.9	5.4	--	86	--	--	2	--	--
03...	--	--	--	--	--	--	--	86	--	--	--	--	--
23...	6.3	70	5.8	104	19.9	35	--	77	--	--	19	--	--

## 01409416 HAMMONTON CREEK AT WESCOATVILLE, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 3 of 5

[Remark codes: &lt;, less than; E, estimated.]

Date	Potas-	ANC,	Total		Inor-			Ammonia		Ammonia		Nitrate	
	sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	wat unf fixed end pt, mg/L as CaCO <sub>3</sub>	carbon, suspnd total, mg/L (00694)	Chlor- ide, water, total, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	carbon, suspnd sedimnt total, mg/L (00688)	Silica, water, fltrd, mg/L as SiO <sub>2</sub> (00955)	Sulfate water, fltrd, mg/L (00945)	org-N, water, fltrd, mg/L as N (00623)	org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	+ nitrite water, mg/L (00631)
Oct 08...	--	--	15	--	20.8	--	--	--	--	--	.30	E.039	1.80
Dec 03...	3.47	12.6	E7	2.0	20.6	<.08	<.04	3.8	10.1	.40	--	.032	1.31
Feb 17...	4.81	12.2	E8	.8	17.5	E.08	<.04	8.0	17.5	.29	--	.041	2.77
Mar 25...	--	--	9	--	17.9	--	--	--	--	--	.26	<.020	2.40
May 26...	--	--	11	--	17.8	--	--	--	--	--	.58	.055	1.52
Jun 01...	3.44	8.96	9	2.0	15.5	E.08	<.04	6.5	11.4	.43	--	.140	1.45
16...	--	--	10	--	16.6	--	--	--	--	--	.57	.088	1.94
Jul 21...	--	--	E6	--	8.48	--	--	--	--	--	1.8	.113	1.28
Aug 12...	--	--	11	--	15.9	--	--	--	--	--	.58	.061	1.16
18...	4.27	10.2	12	2.0	17.9	E.05	<.04	6.8	12.3	.37	--	.068	1.57
Sep 03...	--	--	11	--	16.0	--	--	--	--	--	.41	.033	1.66
03...	--	--	11	--	16.0	--	--	--	--	--	.41	.033	1.66
23...	--	--	E7	--	11.1	--	--	--	--	--	.73	.022	1.63

## 01409416 HAMMONTON CREEK AT WESCOATVILLE, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 4 of 5

[Remark codes: &lt;, less than; E, estimated.]

Date	Ortho-phosphate, water, filtrd, mg/L (as P (00671)	Partic- ulate nitro- gen, water, susp, filtrd, mg/L (49570)	Phos- phorus, water, filtrd, mg/L (as P (00666)	Phos- phorus, water, unfiltrd, mg/L (as P (00665)	Total nitro- gen, water, filtrd, mg/L (00602)	Total nitro- gen, water, unfiltrd, mg/L (00600)	Chloro- phyll a phyto- plank- ton, fluoro, μg/L (70953)	Pheo- phytin a, phyto- plank- ton, fluoro, μg/L (62360)	Iron, water, unfiltrd, recover- able, μg/L (01045)	Boron, water, unfiltrd, recover- able, μg/L (01022)	Organic carbon, suspdn sedimnt, mg/L (00689)	Organic carbon, water, filtrd, mg/L (00681)	Organic carbon, water, unfiltrd, mg/L (00680)
<b>Oct</b>													
08...	--	--	.29	.33	--	2.1	.4	.7	228	65	--	--	3.1
<b>Dec</b>													
03...	.058	.20	.080	.123	1.7	1.9	--	--	--	--	2.04	4.7	--
<b>Feb</b>													
17...	.028	.07	.07	.12	3.1	3.1	--	--	--	--	.80	2.5	--
<b>Mar</b>													
25...	--	--	.04	.08	--	2.7	1.1	1.3	146	39	--	--	3.3
<b>May</b>													
26...	--	--	.12	.26	--	2.1	3.8	<.1	834	26	--	--	10.7
<b>Jun</b>													
01...	.110	.14	.14	.24	1.9	2.0	--	--	--	--	1.99	4.5	--
16...	--	--	.23	.34	--	2.5	.7	2.4	818	33	--	--	7.2
<b>Jul</b>													
21...	--	--	.14	.79	--	3.1	9.9	17.9	2,290	24	--	--	18.7
<b>Aug</b>													
12...	--	--	.15	.23	--	1.7	1.2	2.0	1,010	32	--	--	8.8
18...	.104	.16	.13	.21	1.9	2.1	--	--	--	--	1.96	4.7	--
<b>Sep</b>													
03...	--	--	.17	.22	--	2.1	.5	1.3	654	35	--	--	6.7
03...	--	--	.17	.22	--	2.1	.6	1.4	654	35	--	--	6.7
23...	--	--	.08	.24	--	2.4	2.5	5.0	979	23	--	--	10.6