



Water-Data Report 2009

## 01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ

GREAT EGG HARBOR RIVER BASIN

LOCATION.--Lat 39°28'08", long 74°41'33" referenced to North American Datum of 1983, Hamilton Township, Atlantic County, NJ, Hydrologic Unit 02040302, at bridge on U.S. Route 322 (Black Horse Pike), 1.1 mi east from intersection of State Route 50, 2.2 mi northeast of Mays Landing, and 2.8 mi upstream from Watering Race Branch.

DRAINAGE AREA.--16.3 mi<sup>2</sup>.

### SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

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

Date	Discharge, in ft <sup>3</sup> /s
Nov 19, 2008	6.99
Feb 25, 2009	10.9
May 14, 2009	18.6
Aug 5, 2009	8.69

## 01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965, 1998 to current year.

REMARKS.--Cooperative Network Site Descriptor: Undeveloped Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 15.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of 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 2008 TO SEPTEMBER 2009

Part 1 of 3

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

Date	Time	Baro- metric pres- sure, 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)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm @ 25 degC (00095)	Temper- ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Dis- solved solids dried @ 180degC wat flt mg/L (70300)
Nov 19...	1200	766	1.5	.384	.295	7.0	9.3	74	4.5	74	5.8	1.3	52
Feb 25...	1130	763	3.5	.268	.202	11	12.6	91	4.1	95	2.2	2.3	59
May 14...	1230	768	22.0	.620	.479	19	9.0	87	4.2	84	14.2	13	59
Aug 05...	1130	759	31.0	.586	.460	8.7	6.6	71	4.1	63	18.9	2.0	60

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 3

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

Date	Hard- ness, water, mg/L as CaCO3 (00900)	Sus- pended solids, water, unfltrd mg/L (00530)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Total carbon, suspnd sedimnt total, mg/L (00694)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)
Nov 19...	11	<1	1.94	1.41	.94	5.72	<1.7	.3	11.0	<.08	<.04	8.9	7.31
Feb 25...	9	2	1.69	1.25	.78	8.61	--	.6	14.3	<.08	<.04	7.5	6.92
May 14...	8	26	1.56	1.07	.78	7.67	--	2.1	14.0	<.08	E.1	5.7	5.49
Aug 05...	8	2	1.53	1.07	.87	5.72	<1.7	.6	11.5	<.08	<.04	8.5	3.33

## 01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ—Continued

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

Part 3 of 3

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

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
<b>Nov</b> 19...	.35	.035	.59	E.005	E.02	E.005	.011	.94	E.96	.28	9.0
<b>Feb</b> 25...	.22	.016	.64	E.006	.04	<.008	E.007	.85	.89	.56	6.3
<b>May</b> 14...	.37	.018	.41	E.007	.07	.009	.033	.78	.85	2.01	12.1
<b>Aug</b> 05...	.44	.051	.54	.013	.03	.019	.021	.98	1.0	.59	11.2