

**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, 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 2006 TO SEPTEMBER 2007**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Nov 2, 2006	14.9
Feb 20, 2007	20.9
May 16, 2007	18.4
Aug 27, 2007	5.77

01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ—Continued

**WATER-QUALITY RECORDS**

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

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia-plus-organic nitrogen (00623), filtered nitrite-plus-nitrate nitrogen (00631), and total particulate nitrogen (49570). 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 2006 TO SEPTEMBER 2007**

Part 1 of 3

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

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC μS/cm (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Nov 02...	0940	15	1.5	.707	.550	760	7.1	66	3.9	83	9.5	12.1	8
Feb 20...	0930	21	1.6	.280	.213	753	11.7	89	4.0	104	9.5	3.4	9
May 16...	1040	18	1.2	.407	.319	756	7.7	78	4.0	92	26.5	15.5	8
Aug 27...	1100	5.8	1.3	.184	.145	764	7.5	78	4.6	64	18.5	17.8	9

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 3

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

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
Nov 02...	1.45	.968	.79	6.20	--	12.1	<.10	7.6	4.65	67	2	.39	.035
Feb 20...	1.78	1.19	.81	9.98	--	17.1	<.10	7.1	5.84	62	1	.23	.024
May 16...	1.59	1.07	.97	8.04	<5	14.3	<.10	5.7	4.09	50	2	.32	.017
Aug 27...	1.68	1.27	.92	5.43	<1.7	9.60	<.10	9.1	3.90	53	1	.19	.094

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

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 3 of 3

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

Date	Nitrate + nitrite water fltrd, mg/L as N (00631)	Particulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)	Iron, water, fltrd, µg/L (01046)
<b>Nov</b> <b>02...</b>	.34	.03	.73	.76	E.003	E.004	.011	.4	<.1	.4	14.5	13	--
<b>Feb</b> <b>20...</b>	.59	<.02	.82	--	E.002	<.008	E.006	.6	<.1	.6	5.8	9.7	--
<b>May</b> <b>16...</b>	.42	.03	.74	.77	E.002	E.005	.008	.3	<.1	.3	7.6	13	259
<b>Aug</b> <b>27...</b>	.72	.03	.91	.94	<.010	.009	.013	.3	<.1	.3	3.5	10	--