



Water-Data Report 2007

01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD, NEAR CECIL, NJ

GREAT EGG HARBOR RIVER BASIN

LOCATION.--Lat 39°38'40", long 74°59'09" referenced to North American Datum of 1983, Monroe Township, Gloucester County, NJ, Hydrologic Unit 02040302, at bridge on Blue Bell Road, 1.2 mi upstream from Timber Lakes, and 2.0 mi west of Cecil.

DRAINAGE AREA.--4.51 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1990-96, 2001 to current year. Miscellaneous measurements 1998 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Date	Discharge, in ft³/s
Oct 16, 2006	2.15
Nov 30, 2006	6.16
Jan 23, 2007	6.00
Feb 22, 2007	5.95
May 2, 2007	7.70
Aug 6, 2007	1.49
Aug 17, 2007	1.64

01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD, NEAR CECIL, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 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: Mixed 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 30...	1100	6.2	2.1	.422	.337	768	8.0	73	5.7	68	21.0	11.7	16
Feb 22...	1100	5.9	1.2	.138	.108	753	10.9	84	5.7	74	7.0	3.9	16
May 21...	1100	7.7	3.6	.442	.355	760	7.8	80	5.8	74	23.0	16.2	17
Aug 06...	1135	1.5	5.3	.165	.134	756	7.3	81	6.0	67	25.0	19.9	15

**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 water, fltrd, sum of constituents mg/L (70301)	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)
Nov 30...	3.48	1.77	2.01	4.80	8	8.43	<.10	7.0	6.03	41	47	2	.34
Feb 22...	3.43	1.84	1.65	5.58	7	9.79	<.10	5.8	6.61	43	49	1	.20
May 21...	3.71	1.93	1.89	6.12	10	9.94	<.10	4.9	4.61	42	53	5	.38
Aug 06...	3.08	1.67	1.63	4.16	11	6.81	<.10	8.1	3.63	39	50	3	.13

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 3

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

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate 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)
Nov 30...	.047	.56	.03	.90	.93	E.008	.011	.022	.4	<.1	.4	7.1	14
Feb 22...	.058	.98	<.02	1.2	--	E.004	E.007	.011	.2	<.1	.2	2.8	10
May 21...	.036	.58	.12	.96	1.1	<.010	.012	.027	1.3	<.1	1.3	6.0	13
Aug 06...	.028	.82	.06	.95	1.0	<.010	E.007	.020	.9	<.1	.9	2.3	10