



Water-Data Report 2006

01467359 NORTH BRANCH BIG TIMBER CREEK AT GLENDORA, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°50'04", long 75°04'01" referenced to North American Datum of 1983, Gloucester Township, Camden County, NJ, Hydrologic Unit 02040202, at bridge on Chews Landing-Clementon Road (County Route 683), 0.7 mi south of Glendora, 1.8 mi upstream of South Branch Big Timber Creek, and 2.5 mi north of Blackwood.

DRAINAGE AREA.--18.8 mi².

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WDR US-2006:2002-05.

GAGE.--Staff gage.

REVISIONS.--The discharge measurements for the following water years have been revised. These figures supersede those published in the reports for 2002-05.

Water Year	Date	Discharge (ft ³ /s)
2002	Dec 17, 2001	16.5
	Jun 13, 2002	39.3
	Aug 7, 2002	38.6
2003	Mar 5, 2003	92.7
	May 15, 2003	45.3
	Sep 8, 2003	67.0
2004	Feb 24, 2004	32.9
	Jun 3, 2004	80.0
	Aug 31, 2004	180
2005	Aug 30, 2005	77.6

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Date	Discharge, in ft ³ /s
Nov 21, 2005	23.3
Feb 28, 2006	27.1
May 25, 2006 at 0915	30.0
May 25, 2006 at 0945	29.2
Aug 7, 2006	47.2

01467359 NORTH BRANCH BIG TIMBER CREEK AT GLENDORA, NJ—Continued

WATER-QUALITY RECORDS

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

REMARKS.--Site is tide-affected; all samples collected at low tide. Total nitrogen (00600) equals the sum of filtered ammonia plus organic nitrogen (00623), filtered nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Urban Land Use Indicator, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 18.

COOPERATION.--Samples were collected in cooperation with the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 4

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

Date	Time	Instan- taneous dis- charge, cfs (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)
Nov 21...	1230	23	13	.146	.119	758	10.2	86	7.0	198	12.0	7.8	56
Feb 28...	1000	27	15	.096	.080	756	13.0	95	6.5	264	-1.0	2.2	57
May 25...	1010	29	8.7	.159	.129	762	8.0	81	6.8	188	22.0	16.1	53
Aug 07...	0925	47	13	.248	.207	763	3.8	46	6.6	195	28.0	24.9	54

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 2 of 4

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

Date	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)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 21...	16.5	3.56	3.40	13.4	29	23.0	.13	10.2	19.7	110	113	23	.31
Feb 28...	17.2	3.30	2.97	24.3	26	40.8	.14	9.2	22.9	141	145	9	.23
May 25...	16.1	3.04	2.90	12.0	30	23.5	.18	8.2	17.8	104	115	7	.31
Aug 07...	16.0	3.31	3.50	13.4	35	24.6	.17	9.3	15.9	109	118	11	.34

01467359 NORTH BRANCH BIG TIMBER CREEK AT GLENDORA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 4

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

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate 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)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
Nov 21...	.109	.58	.18	.89	1.1	E.014	.005	.22	2.4	<.1	2.4	2.6	<1.0
Feb 28...	.117	1.01	.11	1.2	1.4	E.004	.010	.152	1.3	<.1	1.3	1.7	<1.0
May 25...	.126	.55	.10	.86	.96	.044	.022	.135	.8	<.1	.7	2.8	2.1
Aug 07...	.029	.35	.10	.69	.79	E.009	.018	.20	.9	<.1	.9	3.5	E1.6

**WATER-QUALITY
DATA**

**WATER YEAR
OCTOBER 2005 TO
SEPTEMBER 2006**

Part 4 of 4

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

Date	Boron, water, fltrd, ug/L (01020)
Nov 21...	194
Feb 28...	176
May 25...	152
Aug 07...	245

01467359 NORTH BRANCH BIG TIMBER CREEK AT GLENDORA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

[Remark codes: <, less than.]

Date	Time	Temper- ature, water, deg C (00010)	Entero- cocci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, ECbroth MPN/ 100 mL (31615)
May					
17...	0915	17.7	460	130	300
24...	0925	15.2	180	200	500
31...	0910	24.8	260	350	800
Jun					
07...	0910	19.1	740	<10	800
14...	0910	21.4	640	90	230