



Water-Data Report 2009

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°38'05", long 74°41'12" referenced to North American Datum of 1983, Bedminster Township, Somerset County, NJ, Hydrologic Unit 02030105, on downstream left wingwall of bridge on Walsh Road at Burnt Mills, 0.2 mi upstream from mouth, and 4.4 mi southwest of Far Hills.

DRAINAGE AREA.--100 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1964, 1973, 1975-78, 1981 to current year. Annual maximum, water years 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 74 ft above NAVD of 1988, from topographic map.

REMARKS.--Peak stages at this gage maybe affected by backwater from the North Branch Raritan River. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 16.28 ft, Sep 16, 1999.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height, 90.0 ft (from high-water mark, elevation above NGVD of 1929), Jul 7, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.54 ft, Aug 2 at 1900.

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

Date	Discharge, in ft³/s
Nov 17, 2008	126
May 14, 2009	120
Aug 11, 2009	88.3

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1976 to current year.

REMARKS.--Cooperative Network Site Descriptor: Watershed Integrator, NJ Department of Environmental Protection Watershed Management Area 8.

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: <, less than; E, estimated; M, presence verified but not quantified.]

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 ³ /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 18...	1200	760	8.5	.221	.173	126	13.8	109	7.7	265	5.3	5.9	157
Feb 02...	1010	757	11.0	.076	.060	E120	14.7	101	7.2	472	.1	5.4	258
May 14...	0845	768	26.5	.130	.099	120	9.8	95	7.8	291	14.2	3.8	165
Aug 11...	1315	757	28.5	.163	.126	88	10.3	126	8.4	300	25.1	3.1	179

WATER-QUALITY DATA

WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 3

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Dis- solved solids, sum of consti- tuents, mg/L (70301)	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)
Nov 18...	E147	74	3	18.2	6.88	2.45	20.1	54	.3	36.9	E.05	<.04	13.1
Feb 02...	E243	100	2	25.6	8.83	2.12	46.1	51	.3	93.1	<.08	<.04	12.3
May 14...	E156	83	4	21.0	7.49	1.34	21.8	57	.4	41.6	E.06	M	11.0
Aug 11...	E168	89	3	22.6	8.00	2.01	21.4	66	.2	41.3	E.08	<.04	15.5

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 3

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia	Ammonia	Nitrate	Ortho-	Partic-	Phos-	Phos-	Total	Total	Organic	Organic
		+ org-N, water, fltrd, mg/L as N (00623)	water, fltrd, mg/L as N (00608)	+ nitrite water, fltrd, mg/L as N (00631)	phos- phate, water, fltrd, mg/L as P (00671)	ulate nitro- gen, susp, water, mg/L (49570)	phorus, water, fltrd, mg/L as P (00666)	phorus, water, unfltrd mg/L as P (00665)	nitro- gen, water, fltrd, mg/L (00602)	nitro- gen, water, unfltrd mg/L (00600)	carbon, suspnd sedimnt total, mg/L (00689)	carbon, water, fltrd, mg/L (00681)
Nov 18...	13.8	.32	E.006	.64	.043	.03	.054	.066	.96	.99	.29	5.5
Feb 02...	17.0	.19	.309	1.45	E.003	.04	.031	.046	1.6	1.7	.33	2.8
May 14...	13.7	.22	.012	.82	.025	.03	.031	.042	1.0	1.1	.34	3.5
Aug 11...	12.8	.23	.013	1.00	.064	<.02	.072	.081	1.2	--	.19	3.6