

Water-Data Report 2007

01460870 LOCKATONG CREEK AT KINGWOOD, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°28'16", long 75°01'16" referenced to North American Datum of 1983, Kingwood Township, Hunterdon County, NJ, Hydrologic Unit 02040105, at bridge on County Route 519, 850 ft north of Gessner Road, 1 mi south of Barbertown, and 0.75 mi south of Muddy Run mouth.

DRAINAGE AREA.--14.95 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2006 to August 2007.

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: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 11. The sample on Jul 26 was for a phosphorus-in-bed-sediment assessment.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. The sample on Jul 26 was collected in cooperation with the NJ Water Supply Authority. 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 5

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

Date	Time	Sample type	Turbdty white light, det ang 90+/-30 corrctd	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg	Dis- solved oxygen, mg/L	Dis- solved oxygen, percent of sat- uration	Dis- solved oxygen, percent of sat- uration	pH, water, unfltrd field, std units	Specif- ic conduc- tance, μS/cm	Temper- ature, air, deg C	Temper- ature, water, deg C
		NTRU (63676)	/cm (50624)	/cm (61726)		(00025)	(00300)	(00301)		(00400)	25 degC (00095)	(00020)	(00010)
Nov 20...	0930	Environmental	4.8	.181	.140	753	11.7	96	7.7	162	6.0	6.5	
Feb 22...	1030	Environmental	11	.236	.184	753	14.2	97	7.3	319	5.0	.0	
May 01...	0945	Environmental	17	.149	.115	751	10.3	98	7.6	156	13.0	13.0	
Jul 26...	1215	Bed material	--	--	--	--	--	--	--	--	--	--	
Aug 15...	0930	Field Blank	--	--	--	--	--	--	--	--	--	--	
15...	1000	Environmental	2.9	.112	.085	747	8.3	91	7.8	195	24.0	20.1	

01460870 LOCKATONG CREEK AT KINGWOOD, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 5

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

Date	Hardness, water, mg/L as CaCO ₃ (00900)	ANC, wat unf						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 non- filter- able, mg/L (00530)	
		Calcium water, mg/L (00915)	Magnes- ium, water, mg/L (00925)	Potas- sium, water, mg/L (00935)	Sodium, water, mg/L (00930)	Chlor- end pt, lab, mg/L as CaCO ₃ (90410)	Fluor- ide, water, fltrd, mg/L (00950)						
Nov 20...	54	12.3	5.53	2.17	8.73	33	10.8	<.10	12.4	17.0	97	106	3
Feb 22...	58	13.6	5.90	3.71	33.4	22	63.6	E.08	5.5	16.4	164	191	5
May 01...	46	10.7	4.80	1.47	9.72	31	12.3	E.07	5.4	17.0	86	98	4
Jul 26...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	59	13.3	6.23	2.50	11.8	46	13.0	E.09	7.8	21.4	110	114	6

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 5

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

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Nitrate Ammonia water, fltrd, mg/L as N (00608)	Partic- ulate nitrite water, fltrd, mg/L as N (00631)	Total nitro- gen, water, fltrd, mg/L (49570)	Total nitro- gen, water, unfiltrd, mg/L (00602)	Ortho- phosphate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfiltrd, mg/L as P (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)	
Nov 20...	.32	.011	1.76	<.02	2.1	--	.019	.040	.046	.1	<.1	.1	4.2
Feb 22...	1.2	.219	1.71	.11	2.9	3.0	.056	.082	.115	.7	<.1	.6	10.3
May 01...	.30	<.010	1.41	.04	1.7	1.8	E.006	.012	.033	.3	<.1	.3	3.8
Jul 26...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	.42	.026	1.36	.03	1.8	1.8	.033	.045	.054	.2	<.1	.2	3.2

01460870 LOCKATONG CREEK AT KINGWOOD, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 5

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

Date	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd µg/L (01002)	Arsenic recoverable, µg/L (01007)	Barium, water, unfltrd	Beryllium, water, unfltrd	Boron, water, unfltrd	Boron, water, recoverable, µg/L (01020)	Cadmium water, unfltrd µg/L (01022)	Chromium, water, unfltrd µg/L (01027)	Copper, water, unfltrd µg/L (01034)	Copper, water, recoverable, µg/L (01040)	Iron, water, unfltrd recoverable, µg/L (01042)	Lead, water, unfltrd recoverable, µg/L (01045)	Lead, water, unfltrd recoverable, µg/L (01049)	Lead, water, unfltrd recoverable, µg/L (01051)
Nov 20...	--	--	--	--	31	--	--	--	--	--	--	--	--	--	--
Feb 22...	.53	.67	47.8	<.06	26	27	.04	E.51	--	3.7	293	--	.37		
May 01...	--	--	--	--	30	--	--	--	--	--	--	--	--	--	--
Jul 26...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 15...	<.12	--	--	--	--	--	--	--	--	.63	--	--	<.12	--	
15...	1.0	1.0	34.1	<.06	116	112	.04	<.60	--	E1.5	135	--	.37		

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 5

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

Date	Manganese, water, unfltrd recoverable, µg/L (01055)	Mercury water, unfltrd recoverable, µg/L (71890)	Mercury water, unfltrd recoverable, µg/L (71900)	Nickel, water, unfltrd recoverable, µg/L (01065)	Nickel, water, unfltrd recoverable, µg/L (01067)	Selenium, water, unfltrd recoverable, µg/L (01147)	Silver, water, unfltrd recoverable, µg/L (01077)	Zinc, water, unfltrd recoverable, µg/L (01090)	Zinc, water, unfltrd recoverable, µg/L (01092)	Phosphorus, bed sediment, mg/kg (00668)
Nov 20...	--	--	--	--	--	--	--	--	--	--
Feb 22...	52.7	--	E.007	--	1.44	.18	E.01	--	5	--
May 01...	--	--	--	--	--	--	--	--	--	--
Jul 26...	--	--	--	--	--	--	--	--	--	990
Aug 15...	--	<.010	--	<.06	--	--	--	<.60	--	--
15...	20.6	--	.014	--	.83	.22	<.02	--	2.5	--