



Water-Data Report 2007

01461250 WICKECHEOKE CREEK AT LOCKTOWN, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°29'09", long 74°58'14" referenced to North American Datum of 1983, Hunterdon County, NJ, Hydrologic Unit 02040105, at bridge on unnamed road in Locktown, 1,050 ft northwest of Locktown, 1.9 miles upstream from Plum Brook, and 3.0 miles northwest of Sergeantsville.

DRAINAGE AREA.--9.24 mi².

WATER-QUALITY RECORDS

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.

COOPERATION.--Physical measurements and samples for laboratory analyses on November 21, 2006, and February 07, May 05 and August 22, 2007 were provided by personnel of 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. The sample on July 26 was collected in cooperation with the NJ Water Supply Authority.

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

Part 1 of 5

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

Date	Time	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- ic conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
Nov 21...	0930	4.8	.166	.127	762	12.0	93	7.2	160	5.5	4.8	46	10.9
Feb 07...	1000	.6	.023	.017	758	15.2	105	8.0	241	-2.4	.1	65	15.3
May 09...	0945	2.1	.105	.079	754	8.8	86	7.8	202	20.6	15.6	46	10.8
Aug 22...	1030	48	.401	.315	754	8.5	86	8.7	159	19.3	15.5	34	8.38

01461250 WICKECHEOKE CREEK AT LOCKTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 5

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

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfixed 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)	Ammonia water, fltrd, mg/L as N (00608)
Nov 21...	4.70	2.04	11.3	34	13.7	<.10	10.2	15.0	90	96	2	.24	.023
Feb 07...	6.42	1.76	15.3	39	21.5	<.10	14.2	21.3	131	127	<1	E.09	.022
May 09...	4.65	1.67	15.0	36	20.2	E.08	.8	16.2	91	117	<1	.28	.014
Aug 22...	3.21	2.68	16.3	36	14.9	.10	6.4	12.9	89	103	14	.49	.030

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 5

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

Date	Nitrate + nitrite water fltrd, mg/L as N (00631)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd, mg/L (00600)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd, µg/L (01002)
Nov 21...	.55	<.02	.78	--	.011	.020	.033	<.1	<.1	<.1	4.0	--	--
Feb 07...	2.75	.03	--	--	.014	.014	.015	.2	<.1	.2	1.1	.27	.30
May 09...	<.06	.07	--	--	E.006	.009	.019	.4	<.1	.4	3.6	--	--
Aug 22...	.57	.15	1.1	1.2	.044	.062	.111	.9	<.1	.8	7.7	.71	.99

01461250 WICKECHEOKE CREEK AT LOCKTOWN, NJ—Continued

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

Part 4 of 5

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

Date	Barium, water, unfltrd recover -able, µg/L (01007)	Beryll- ium, water, unfltrd recover -able, µg/L (01012)	Boron, water, fltrd, µg/L (01020)	Boron, water, unfltrd recover -able, µg/L (01022)	Cadmium water, unfltrd µg/L (01027)	Chrom- ium, water, unfltrd recover -able, µg/L (01034)	Copper, water, unfltrd recover -able, µg/L (01042)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, unfltrd recover -able, µg/L (01051)	Mangan- ese, water, unfltrd recover -able, µg/L (01055)	Mercury water, unfltrd recover -able, µg/L (71900)	Nickel, water, unfltrd recover -able, µg/L (01067)	Selen- ium, water, unfltrd µg/L (01147)
Nov 21...	--	--	12	--	--	--	--	--	--	--	--	--	--
Feb 07...	57.2	<.06	12	11	<.02	<.60	E.9	16	<.06	2.7	<.010	.38	.25
May 09...	--	--	12	--	--	--	--	--	--	--	--	--	--
Aug 22...	23.4	.09	20	20	.03	1.9	4.7	1,320	1.65	29.9	E.008	1.9	.15

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

Part 5 of 5

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

Date	Silver, water, unfltrd recover -able, µg/L (01077)	Zinc, water, unfltrd recover -able, µg/L (01092)
Nov 21...	--	--
Feb 07...	<.02	E1
May 09...	--	--
Aug 22...	E.01	14.9

01461250 WICKECHEOKE CREEK AT LOCKTOWN, NJ—Continued

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

Date	Time	Phos- phorus, bed sedimnt total, mg/kg (00668)
Jul		
26...	1400	1,400