



Water-Data Report 2007

01464515 DOCTORS CREEK AT ALLENTOWN, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°10'37", long 74°35'56" referenced to North American Datum of 1983, Allentown Borough, Monmouth County, NJ, Hydrologic Unit 02040201, at bridge on Breza Road in Allentown, and 0.8 mi downstream from Conines Mill Pond dam.

DRAINAGE AREA.--17.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Annual maximum and occasional low-flow measurements, water years 1968-95. Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

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

Date	Discharge, in ft³/s
Nov 16, 2006	69.6
Feb 5, 2007	13.8
May 16, 2007	19.5
Aug 9, 2007	2.31

01464515 DOCTORS CREEK AT ALLENTOWN, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 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: Agricultural Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 20.

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 μ S/cm (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)
Nov 16...	0850	70	11	.209	.166	757	8.9	88	6.8	173	22.0	14.7	50
Feb 05...	0900	14	11	.064	.057	764	13.8	95	7.0	251	-12.0	.2	58
May 16...	1050	20	5.1	.122	.094	756	8.2	91	6.9	210	25.5	20.2	52
Aug 09...	1210	2.3	5.1	.142	.109	758	2.7	34	6.9	274	24.5	25.7	67

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 CaCO ₃ (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 16...	12.7	4.54	5.00	10.6	24	22.1	.15	8.6	15.3	97	105	4	.41
Feb 05...	13.8	5.77	3.38	17.6	22	35.9	.16	9.5	23.0	131	133	7	1.0
May 16...	12.0	5.30	2.93	13.8	27	29.9	.17	4.8	18.0	107	105	1	.84
Aug 09...	16.8	6.07	4.54	17.8	29	37.5	.23	10.1	17.0	134	152	4	2.6

01464515 DOCTORS CREEK AT ALLENTOWN, NJ—Continued

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)	Particulate 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 16...	.198	.79	.07	1.2	1.3	E.007	.012	.088	.8	<.1	.8	4.5	27
Feb 05...	.636	1.84	.09	2.9	2.9	E.003	E.006	.063	1.0	<.1	.9	2.1	20
May 16...	.453	.81	.06	1.6	1.7	E.006	.012	.043	.4	<.1	.4	3.6	24
Aug 09...	2.31	.74	.09	3.4	3.4	E.006	.025	.060	.6	<.1	.6	4.3	51