



Water-Data Report 2007

01464020 ASSUNPINK CREEK AT PEACE STREET, AT TRENTON, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°13'02", long 74°46'07" referenced to North American Datum of 1983, Trenton City, Mercer County, NJ, Hydrologic Unit 02040105, at bridge on Peace Street in Trenton, 900 ft upstream of mouth, 0.3 mi northwest of Trent House, and 0.7 mi southeast of Trenton Filtration Plant.

DRAINAGE AREA.--91.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1963, 1967, 1998 to current year.

GAGE.--Staff gage.

REMARKS.--Flow includes some sewage effluent.

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

Date	Discharge, in ft³/s
Nov 27, 2006	235
Feb 21, 2007	76.0
May 23, 2007	71.8
Aug 29, 2007	46.4

01464020 ASSUNPINK CREEK AT PEACE STREET, AT TRENTON, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963, 1976-78, 1998 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: Watershed Integrator, NJ Department of Environmental Protection Watershed Management Area 11.

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.]

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 μS/cm (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Nov 27...	1330	235	7.9	.249	.195	769	11.1	97	6.9	237	14.5	9.5	65
Feb 21...	1210	76	10	.092	.068	757	12.9	104	7.2	916	6.5	5.7	110
May 23...	1010	72	5.5	.136	.103	775	8.7	89	7.1	381	19.0	17.2	100
Aug 29...	1230	46	3.2	.097	.072	764	8.5	98	7.2	439	27.0	22.3	110

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

Part 2 of 3

[Remark codes: <, less than.]

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 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)
Nov 27...	17.0	5.50	3.70	16.7	34	31.4	.11	9.6	18.8	131	143	7	.54
Feb 21...	28.6	8.24	4.66	113	45	201	.18	7.5	27.5	437	453	2	.80
May 23...	26.7	7.99	3.85	28.8	51	52.6	.20	7.1	25.2	204	222	5	.47
Aug 29...	30.6	8.72	5.05	35.8	63	59.9	.33	9.4	28.0	247	261	3	.61

01464020 ASSUNPINK CREEK AT PEACE STREET, AT TRENTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 3

[Remark codes: <, less than.]

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite 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)	Boron, water, fltrd, µg/L (01020)
Nov 27...	.101	1.70	.07	2.2	2.3	.127	.14	.22	.5	<.1	.6	5.2	43
Feb 21...	.171	4.03	.21	4.8	5.0	.278	.31	.37	1.9	<.1	1.9	3.7	46
May 23...	.059	4.49	.08	5.0	5.0	.376	.37	.48	.7	<.1	.7	3.8	56
Aug 29...	.056	6.53	.06	7.1	7.2	.767	.76	.82	.4	<.1	.4	3.5	80