

**01467005 NORTH BRANCH RANCOCAS CREEK AT IRON WORKS PARK, AT MOUNT HOLLY, NJ**

DELAWARE RIVER BASIN

LOCATION.--Lat 39°59'35", long 74°46'53" referenced to North American Datum of 1983, Mount Holly Township, Burlington County, NJ, Hydrologic Unit 02040202, at Mill Dam in Iron Works and Mill Dam Park, 0.3 mi north of Saint Andrews Cemetery in Mount Holly, and 1.2 mi east of Clermont.

DRAINAGE AREA.--140 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Miscellaneous measurements, water years 1970, and 1998 to current year. Published as "at Pine Street" (station 01467006) 1998-99.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Nov 15, 2005	113
Feb 14, 2006	276
May 23, 2006	74.7
Aug 21, 2006	51.4

## 01467005 NORTH BRANCH RANCOCAS CREEK AT IRON WORKS PARK, AT MOUNT HOLLY, NJ—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to current year. Published as "at Pine Street" (station 01467006) 1998-99.

REMARKS.--Site is at head of tide; all samples collected at low tide. Total nitrogen (00600) equals the sum of filtered ammonia plus organic nitrogen (00623), filtered nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Watershed Integrator and Low-Level Mercury Assessment special study site, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 19. The sample on Sep. 27, 2005 was for the low-level mercury assessment.

COOPERATION.--Samples were collected in cooperation with the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005**

[Remark codes: <, less than.]

Date	Time	Sample type	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	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. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Mercury water fltrd, low level, ng/L (50287)
Sep											
27...	0900	Field Blank	--	--	--	--	--	--	--	--	<.04
27...	0930	Environmental	12	754	6.9	79	6.5	226	20.5	21.3	.86

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 4

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

Date	Time	Instan- taneous dis- charge, cfs (00061)	Turbidity 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. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)
Nov													
15...	1030	113	5.5	.259	.205	771	10.5	95	5.8	136	24.5	11.3	24
Feb													
14...	1120	276	3.7	.318	.248	767	14.2	101	6.1	134	3.0	1.8	20
May													
23...	1010	75	10	.412	.327	755	--	--	6.7	133	12.0	15.5	20
Aug													
21...	1200	51	9.9	.336	.271	759	7.5	89	6.5	183	28.0	24.1	29

## 01467005 NORTH BRANCH RANCOCAS CREEK AT IRON WORKS PARK, AT MOUNT HOLLY, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 2 of 4

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

Date	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)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	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 at 105 deg. C, sus- pended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
<b>Nov</b> <b>15...</b>	6.71	1.70	2.18	14.6	7	15.1	E.06	7.2	24.7	--	93	4	.48
<b>Feb</b> <b>14...</b>	5.61	1.49	1.49	15.1	7	21.9	E.08	5.4	14.9	71	93	3	.47
<b>May</b> <b>23...</b>	5.76	1.28	2.01	14.4	<5	14.2	E.08	5.0	23.6	--	82	13	.60
<b>Aug</b> <b>21...</b>	8.85	1.71	2.83	20.6	12	19.7	E.09	6.3	31.3	102	103	5	.61

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 3 of 4

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

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate 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, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
<b>Nov</b> <b>15...</b>	.293	.15	.13	.63	.76	--	.042	.20	1.7	<.1	1.7	6.3	E1.1
<b>Feb</b> <b>14...</b>	.289	.25	.05	.72	.77	.021	.036	.077	.5	<.1	.5	5.9	<1.0
<b>May</b> <b>23...</b>	.354	.23	.16	.83	.99	.038	.056	.28	2.0	<.1	2.0	6.6	E1.4
<b>Aug</b> <b>21...</b>	.342	.61	.15	1.2	1.4	.036	.034	.27	1.7	<.1	1.7	4.8	<1.0

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**WATER-QUALITY  
DATA  
WATER YEAR  
OCTOBER 2005 TO  
SEPTEMBER 2006**

Part 4 of 4  
[Remark codes:  
<, less than;  
E, estimated.]

<b>Date</b>	<b>Boron, water, fltrd, ug/L (01020)</b>
<b>Nov 15...</b>	26
<b>Feb 14...</b>	16
<b>May 23...</b>	20
<b>Aug 21...</b>	35

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

[Remark codes: <, less than.]

<b>Date</b>	<b>Time</b>	<b>Temper- ature, water, deg C (00010)</b>	<b>Entero- cocci, m-E MF, water, col/ 100 mL (31649)</b>	<b>E coli, m-TEC MF, water, col/ 100 mL (31633)</b>	<b>Fecal coli- form, EChroth water, MPN/ 100 mL (31615)</b>
<b>May</b>					
<b>03...</b>	1043	16.8	90	110	300
<b>10...</b>	1005	14.1	40	320	<20
<b>17...</b>	1050	15.0	520	70	500
<b>24...</b>	1020	17.0	180	20	40
<b>31...</b>	0935	20.2	590	460	2,400