



Water-Data Report 2006

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°14'50", long 74°41'13" referenced to North American Datum of 1983, Hamilton Township, Mercer County, NJ, Hydrologic Unit 02040105, at bridge on County Route 533 (Quaker Bridge Road), 0.7 mi north of Mercerville, 2.1 mi upstream of Assumpink Creek, and 3.8 mi northwest of Robbinsville.

DRAINAGE AREA.--10.7 mi².

SURFACE-WATER RECORDS

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

GAGE.--Staff gage.

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

Date	Discharge, in ft ³ /s
Nov 2, 2005	3.80
Feb 14, 2006	8.98
May 18, 2006	17.8
Aug 8, 2006	1.00

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 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). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Urban Land Use Indicator, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 11.

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. Analysis of the split and concurrent replicate samples was performed by the Laboratory Branch of the U.S. EPA, Region II, Division of Environmental Science and Assessment.

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

Part 1 of 4

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

Date	Time	Sample type	Turbdty	UV	UV	Baro-	Dis-	Dis-	pH,	Specif.	conduc-	Temper-
			white light, det ang 90+/-30 dis- charge, corrctd cfs (00061)	absorb- ance, 254 nm, wat flt units	absorb- ance, 280 nm, wat flt units				water, unfiltrd field, std units (00400)			
Nov												
02...	0900	Environmental	3.8	4.6	.233	.182	759	8.1	74	5.9	187	12.5
02...	0900	<i>Split Replicate</i>	--	--	--	--	--	--	--	--	--	--
02...	0910	<i>Concurrent Replicate</i>	--	--	--	--	--	--	--	--	--	--
Feb												
14...	0820	Environmental	9.0	8.6	.155	.120	764	12.5	90	6.4	462	-1.0
May												
18...	1030	Environmental	18	49	.364	.293	750	7.3	77	6.1	165	22.5
Aug												
08...	0820	Environmental	1.0	8.2	.256	.204	763	3.2	36	5.9	203	24.0

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 4

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

Date	Temperature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, filtrd, mg/L (00915)	Magnes- ium, water, filtrd, mg/L (00925)	Potas- sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	ANC, wat unf			Chlor- ide, lab, mg/L as CaCO ₃ (90410)	Fluor- ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L (00955)	Sulfate water, filtrd, mg/L (00945)	Residue water, filtrd, sum of consti- tuents mg/L (70301)	Residue on evap. 180degC wat flt mg/L (70300)
							fixed end pt,	Chlor- ide, lab, mg/L as CaCO ₃ (90410)	Fluor- ide, water, filtrd, mg/L (00950)						
Nov															
02...	11.3	45	11.1	4.14	3.39	14.6	21	25.6	E.07	7.3	17.8	103	120		
02...	--	45	11.0	4.30	3.90	14.0	21	27.0	.08	--	16.0	95	120		
02...	--	45	11.0	4.30	3.80	14.0	20	27.0	.12	--	16.0	94	120		
Feb															
14...	1.7	59	15.4	4.93	2.76	60.7	21	106	E.08	6.2	18.1	234	255		
May															
18...	17.4	38	9.53	3.56	2.48	13.4	20	24.6	.11	4.2	12.0	85	102		
Aug															
08...	21.2	47	12.0	4.21	3.45	15.6	33	29.5	E.07	6.7	10.1	107	120		

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 4

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

Date	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia			Nitrite			Partic- ulate			Total nitro- gen, water, filtrd, mg/L (00602)	Total nitro- gen, water, unfiltrd mg/L (00600)	Ortho- phosphate, water, unfiltrd mg/L (00671)	Ortho- phosphate, water, filtrd, mg/L (70507)
		Ammonia org-N, water, filtrd, mg/L (00623)	Ammonia org-N, water, unfiltrd mg/L (00625)	Ammonia water, filtrd, mg/L (00608)	Ammonia water, unfiltrd mg/L (00610)	Nitrate water, filtrd, mg/L (00631)	Nitrite water, filtrd, mg/L (00613)	Nitrite water, susp, mg/L (49570)						
Nov														
02...	2	.51	--	.032	--	1.40	--	.09	1.9	2.0	E.005	--	.013	
02...	<10	.42	.48	<.050	<.050	1.40	<.050	--	1.8	1.9	.019	.02	<.050	
02...	<10	.46	.56	<.050	<.050	1.40	<.050	--	1.9	2.0	.019	<.01	<.050	
Feb														
14...	8	.37	--	.123	--	1.50	--	.12	1.9	2.0	E.006	--	.010	
May														
18...	20	.69	--	.201	--	.57	--	.15	1.3	1.4	.010	--	.017	
Aug														
08...	10	.77	--	.383	--	1.16	--	.16	1.9	2.1	E.004	--	.008	

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 4

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

Date	Inor-		Organic		BOD,		Boron, ug/L (01020)
	Total Phos- phorus, water, unfiltrd mg/L (00665)	ganic carbon, suspnd total, mg/L (00694)	Total carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, filtrd, mg/L (00681)	water, unfiltrd 5 day, 20 degC mg/L (00310)	
Nov							
02...	.050	.7	<.1	.7	5.3	E1.7	27
02...	<.050	--	--	--	7.4	--	30
02...	<.050	--	--	--	7.4	--	30
Feb							
14...	.043	1.0	<.1	1.0	3.3	E1.7	19
May							
18...	.117	1.3	<.1	1.3	6.3	2.0	20
Aug							
08...	.082	1.1	<.1	1.1	4.5	E2.1	26

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Date	Time	Enter- occi, m-E Temper- ature, water, deg C (00010)		Enter- occi, m-E MF, water, col/ 100 mL (31649)	Enter- occi, m-E MF, water, col/ 100 mL (31633)	Fecal coli- form, ECbroth water, MPN/ 100 mL (31615)
		Time	deg C (00010)	100 mL (31649)	100 mL (31633)	100 mL (31615)
May						
03...	0830	12.0	170	270	210	
10...	0930	13.8	80	490	20	
17...	1200	17.3	480	470	2,200	
24...	0828	14.3	400	260	500	
30...	0915	20.5	490	60	1,300	