

Water-Data Report 2012

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°14'49", long 74°41'12" 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 mouth, 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 2011 TO SEPTEMBER 2012

Date	Discharge, in ft³/s
Nov 15, 2011	5.04
Feb 6, 2012	7.44
Jun 19, 2012	1.46
Aug 2, 2012	3.36

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to 2012.

REMARKS.--Cooperative Network Site Descriptor: Urban Land Use Indicator, New Jersey 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 and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 1 of 5

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; cm, centimeter; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; <, less than]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units per cm (50624)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, units per cm (61726)	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)
11-15-2011	1100	756	17.5	0.175	0.137	5.0	8.3	79	6.8
02-06-2012	1200	759	11.0	.148	.117	7.4	11.6	92	6.7
06-19-2012	1030	765	26.0	.123	.098	1.5	6.5	68	6.5
08-02-2012	0850	759	28.0	.095	.073	3.4	6.1	72	7.0

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 2 of 5

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Date	Sample start time	Specific conductance, water, unfiltered, μS/cm at 25°C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, sum of constituents, mg/L (70301)	Hardness, water, mg/L as CaCO ₃ (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)
11-15-2011	1100	256	12.7	6.0	145	134	54.3	7.0	13.2
02-06-2012	1200	262	5.5	9.7	136	136	51.7	5.0	12.5
06-19-2012	1030	218	17.7	11	125	116	51.8	4.0	12.7
08-02-2012	0850	246	23.8	3.4	151	127	73.3	1.0	20.1

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 3 of 5

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Date	Sample start time	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint titration, laboratory, mg/L as CaCO ₃ (90410)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Silica, water, filtered, mg/L as SiO ₂ (00955)
11-15-2011	1100	5.15	3.23	23.7	26.7	0.33	44.0	0.05	< .03	6.49
02-06-2012	1200	4.95	2.51	24.4	20.8	.88	48.3	.06	< .03	6.28
06-19-2012	1030	4.85	2.59	18.0	23.6	.91	34.7	.15	< .03	5.41
08-02-2012	0850	5.59	2.12	16.1	37.1	.40	37.4	.60	< .03	4.17

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 4 of 5

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Date	Sample start time	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Particulate nitrogen, suspended in water, mg/L (49570)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, mg/L (00602)	Total nitrogen, water, unfiltered, mg/L (00600)
11-15-2011	1100	15.7	0.49	0.075	1.34	0.036	0.010	0.030	1.8	1.9
02-06-2012	1200	17.0	.33	.116	1.70	.099	.012	.036	2.0	2.1
06-19-2012	1030	14.1	.34	.100	2.04	.084	.018	.048	2.4	2.5
08-02-2012	0850	14.0	.34	.084	.947	.036	.019	.034	1.3	1.3

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WATER YEAR OCTOBER 2011 TO SEPTEMBER
2012**

Part 5 of 5

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Date	Sample start time	Organic carbon, suspended sediment, total, mg/L (00689)	Organic carbon, water, filtered, mg/L (00681)
11-15-2011	1100	0.33	4.73
02-06-2012	1200	.88	3.45
06-19-2012	1030	.90	2.69
08-02-2012	0850	.40	2.51