

**01445160 BEAR BROOK AT DARK MOON ROAD, NEAR JOHNSONBURG, NJ**

DELAWARE RIVER BASIN

LOCATION.--Lat 40°58'30", long 74°50'56" referenced to North American Datum of 1983, Frelinghuysen Township, Warren County, NJ, Hydrologic Unit 02040105, at bridge on Dark Moon Road, 1.3 mi northeast of Johnsonburg, 1,100 ft upstream from abandoned railroad, and 2.3 mi upstream from mouth.

DRAINAGE AREA.--5.10 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Miscellaneous measurements, water years 2001 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Nov 7, 2011	8.57
Feb 2, 2012	12.8
May 1, 2012	3.19
Aug 7, 2012	3.61

## 01445160 BEAR BROOK AT DARK MOON ROAD, NEAR JOHNSONBURG, NJ—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2001 to current year.

REMARKS.--Cooperative Network Site Descriptor: Agricultural Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 1.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of 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; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/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; E, estimated]

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 <sup>3</sup> /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)
11-07-2011	1130	753	11.5	0.079	0.060	8.6	10.3	86	7.9
02-02-2012	1130	741	8.0	.067	.051	13	12.0	94	7.8
05-01-2012	1120	741	12.0	.047	.035	3.2	9.4	86	7.8
08-07-2012	1300	754	23.0	.127	.096	3.6	11.4	123	8.1

**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 <sub>3</sub> (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)
11-07-2011	1130	387	7.6	1.9	224	218	180	2.0	43.6
02-02-2012	1130	328	4.9	1.9	188	172	133	1.0	33.1
05-01-2012	1120	420	11.0	1.4	237	E 233	198	2.0	46.7
08-07-2012	1300	357	19.1	1.0	198	194	148	1.0	37.3

## 01445160 BEAR BROOK AT DARK MOON ROAD, NEAR JOHNSONBURG, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 3 of 5

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/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; E, estimated]

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, (pH 4.5) laboratory, mg/L as CaCO <sub>3</sub> (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 <sub>2</sub> (00955)
11-07-2011	1130	17.2	1.57	13.3	173	0.29	18.8	0.04	< .03	6.14
02-02-2012	1130	12.3	1.28	13.0	126	.44	18.6	.05	< .03	4.50
05-01-2012	1120	19.9	1.29	11.3	191	.26	16.6	.05	< .03	6.96
08-07-2012	1300	13.4	1.25	15.4	145	.24	20.7	.05	< .03	7.76

**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)
11-07-2011	1130	11.0	0.18	< .010	0.581	0.049	0.011	0.017	0.76	0.81
02-02-2012	1130	10.5	.19	.028	.622	.068	.008	.024	.81	.88
05-01-2012	1120	12.8	.15	E .008	.803	.019	.008	.013	.95	.97
08-07-2012	1300	9.53	.30	< .010	.356	.026	.029	.038	.66	.69

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WATER YEAR OCTOBER 2011 TO SEPTEMBER  
2012**

Part 5 of 5

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<b>Date</b>	<b>Sample start time</b>	<b>Organic carbon, suspended sediment, total, mg/L (00689)</b>	<b>Organic carbon, water, filtered, mg/L (00681)</b>
<b>11-07-2011</b>	<b>1130</b>	0.29	2.50
<b>02-02-2012</b>	<b>1130</b>	.44	2.31
<b>05-01-2012</b>	<b>1120</b>	.26	1.85
<b>08-07-2012</b>	<b>1300</b>	.22	3.76