



Water-Data Report 2011

400106079201001 Local number FA 321

Mississippian aquifers
Burgoon Member of Pocono Formation

Fayette County, PA

LOCATION.--Lat 40°01'05", long 79°20'11" referenced to North American Datum of 1983, Fayette County, PA, Hydrologic Unit 05020006.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 2010 to November 2010.

REMARKS.--Samples collected as part of the Back Creek Watershed Assessment Project.

COOPERATION.--Station established by the U.S. Geological Survey in cooperation with the Somerset County Conservation District.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 1 of 3

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than]

Date	Sample start time	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, μS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Oxidation reduction potential, reference electrode not specified, millivolts (00090)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, field, mg/L as CaCO ₃ (00410)	Acidity, water, unfiltered, heated, milligrams per liter as calcium carbonate (70508)
11-02-2010	1020	9.0	7.4	287	10.8	349	51.3	3.37	124	-120

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 2 of 3

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than]

Date	Sample start time	Bromide, water, filtered, mg/L (71870)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Aluminum, water, filtered, μg/L (01106)	Barium, water, filtered, μg/L (01005)	Iron, water, filtered, μg/L (01046)
11-02-2010	1020	<.010	9.69	8.82	<.030	.14	<.001	7.6	131	12.1

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WATER-QUALITY DATA**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 3 of 3

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

Date	Sample start time	Manganese, water, filtered, µg/L (01056)	Strontium, water, filtered, µg/L (01080)	Arsenic, water, filtered, µg/L (01000)
11-02-2010	1020	.63	287	.06

WATER-QUALITY DATA**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 1 of 3

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Date	Sample start time	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Oxidation reduction potential, reference electrode not specified, millivolts (00090)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	ANC, water, unfiltered, fixed endpoint titration, mg/L as CaCO ₃ (00410)	Acidity, water, unfiltered, heated, milligrams per liter as calcium carbonate (70508)
06-14-2010	1045	6.7	6.4	348	15.2	483	47.0	3.91	101	-100

WATER-QUALITY DATA**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 2 of 3

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

Date	Sample start time	Bromide, water, filtered, mg/L (71870)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Barium, water, filtered, µg/L (01005)	Iron, water, filtered, µg/L (01046)	Manganese, water, filtered, µg/L (01056)
06-14-2010	1045	.021	35.0	9.99	< .020	.50	< .002	137	7.7	1.28

400106079201001 Local number FA 321—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER
2010

Part 3 of 3

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Date	Sample start time	Strontium, water, filtered, µg/L (01080)	Arsenic, water, filtered, µg/L (01000)
06-14-2010	1045	254	.11