

Water-Data Report 2013

01575900 CHICKIES CREEK NEAR MARIETTA, PA

Lower Susquehanna Basin
Lower Susquehanna Subbasin

LOCATION.--Lat 40°03'46", long 76°30'57" referenced to North American Datum of 1927, Lancaster County, PA, Hydrologic Unit 02050306, at double-span concrete bridge on SR 23, 400 ft downstream from Little Chickies Creek, and 1.2 mi east of Marietta.

DRAINAGE AREA.--108 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--1989 to current year.

GAGE.--Non-recording gage. Datum of gage is 250 ft above National Geodetic Vertical Datum of 1929, from topographic map.

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the Pennsylvania Department of Environmental Protection.

DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Date	Discharge, in ft³/s
Oct 15, 2012	96.1
Jan 9, 2013	127
Feb 27, 2013	232
Apr 25, 2013	93.9
Jul 9, 2013	51.1
Aug 23, 2013	62.3
Sep 24, 2013	34.4

01575900 CHICKIES CREEK NEAR MARIETTA, PA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Analyses for pH, water temperature, specific conductance, and dissolved oxygen were performed on site. All other sample analyses were performed at the Pennsylvania Department of Environmental Protection laboratory in Harrisburg, Pa. Occasionally, values for filtered parameters may exceed values for the corresponding unfiltered parameter. These results are within the limits of analytical precision and methods.

COOPERATION.--Water-quality samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 4

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; M, presence verified but not quantified]

Date	Sample start time	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, field, standard units (00400)	pH, water, laboratory, standard units (00403)	Specific conductance, water, unfiltered, laboratory, μS/cm at 25°C (90095)	Specific conductance, water, unfiltered, μS/cm at 25°C (00095)	Temperature, water, °C (00010)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)	Hardness, water, mg/L as CaCO ₃ (00900)
11-06-2012	1200	220	12.4	--	8.1	464	466	8.5	286	190
01-31-2013	1030	3,030	11.7	7.4	7.6	249	218	5.9	184	94
03-12-2013	1500	354	11.1	8.0	8.2	482	478	9.9	296	200
05-08-2013	1530	77	10.9	8.2	8.4	540	514	17.8	316	210
07-16-2013	1345	46	9.6	8.0	8.4	493	506	25.1	352	190
09-23-2013	1400	42	11.2	8.2	8.3	582	581	15.9	356	210

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 2 of 4

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; M, presence verified but not quantified]

Date	Sample start time	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, unfiltered, recoverable, mg/L (00916)	Magnesium, water, unfiltered, recoverable, mg/L (00927)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃ (00417)	Bromide, water, filtered, mg/L (71870)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, unfiltered, mg/L as N (00610)	Nitrate, water, unfiltered, mg/L as N (00620)
11-06-2012	1200	< 5	53.9	14.1	141	--	24.9	27.1	0.030	9.51
01-31-2013	1030	484	24.5	8.0	59	--	21.9	11.9	.360	3.00
03-12-2013	1500	40	53.5	15.7	143	--	36.8	24.6	.100	7.70
05-08-2013	1530	12	57.8	15.7	163	--	46.8	26.6	.050	6.92
07-16-2013	1345	8	50.8	15.5	160	< 0.025	41.1	22.5	.030	5.43
09-23-2013	1400	< 5	59.8	14.2	166	M	53.6	26.2	< .020	6.36

01575900 CHICKIES CREEK NEAR MARIETTA, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 3 of 4

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; M, presence verified but not quantified]

Date	Sample start time	Nitrite, water, unfiltered, mg/L as N (00615)	Orthophosphate, water, unfiltered, mg/L as P (70507)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, mg/L (00600)	Aluminum, water, unfiltered, recoverable, µg/L (01105)	Copper, water, unfiltered, recoverable, µg/L (01042)	Iron, water, unfiltered, recoverable, µg/L (01045)	Lead, water, unfiltered, recoverable, µg/L (01051)	Manganese, water, unfiltered, recoverable, µg/L (01055)
11-06-2012	1200	< .040	0.05	0.056	9.9	< 200	< 4	110	< 1.0	20
01-31-2013	1030	< .040	.34	.970	5.1	9,600	30	14,600	M	570
03-12-2013	1500	< .040	.04	.139	8.6	1,000	< 4	1,440	< 1.0	60
05-08-2013	1530	< .040	.05	.065	7.5	< 200	< 4	160	< 1.0	30
07-16-2013	1345	< .040	.09	.107	5.9	< 200	M	140	< 1.0	20
09-23-2013	1400	< .040	.07	.088	6.4	< 200	< 4	60	< 1.0	< 10

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 4 of 4

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Date	Sample start time	Nickel, water, unfiltered, recoverable, µg/L (01067)	Zinc, water, unfiltered, recoverable, µg/L (01092)
11-06-2012	1200	< 50	< 10
01-31-2013	1030	< 50	70
03-12-2013	1500	< 50	10
05-08-2013	1530	< 50	< 10
07-16-2013	1345	< 50	< 10
09-23-2013	1400	< 50	< 10