



Water-Data Report 2010

01531490 SUGAR CREEK NEAR TOWANDA, PA

Upper Susquehanna Basin
Upper Susquehanna-Tunkhannock Subbasin

LOCATION.--Lat 41°47'27", long 76°27'45" referenced to North American Datum of 1927, Bradford County, PA, Hydrologic Unit 02050106, on steel-truss bridge on SR 3022 in North Towanda, 0.75 mile above the mouth

DRAINAGE AREA.--188 mi².

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. Some values for filtered parameters exceeded 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 2009 TO SEPTEMBER 2010**

Part 1 of 3

[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; <, 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, unfiltered, field, standard units (00400)	pH, water, unfiltered, 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 105 degrees Celsius, water, filtered, milligrams per liter (00515)	Hardness, water, mg/L as CaCO ₃ (00900)
10-08-2009	1500	--	12.3	8.7	8.5	270	268	13.0	152	99
12-02-2009	1000	265	16.9	8.3	8.1	221	204	2.7	136	81
02-01-2010	1000	317	14.3	7.5	7.7	200	203	-0.2	124	71
04-13-2010	1400	59	13.8	9.3	8.1	181	182	11.6	118	66
06-08-2010	1400	195	10.3	9.1	8.8	233	217	20.4	142	86
08-11-2010	1300	87	10.3	8.5	8.2	322	299	29.0	180	100

01531490 SUGAR CREEK NEAR TOWANDA, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 3

[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; <, less than; M, presence verified but not quantified]

Date	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 titration, (pH 4.5) laboratory, mg/L as CaCO ₃ (00417)	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)	Nitrite, water, unfiltered, mg/L as N (00615)	Orthophosphate, water, unfiltered, mg/L as P (70507)
10-08-2009	< 5	30.4	5.7	89	23.7	12.0	.030	.05	< .040	.02
12-02-2009	< 5	24.9	4.6	71	17.4	13.2	< .020	.32	< .040	.01
02-01-2010	< 5	21.0	4.4	49	15.9	15.1	.030	1.73	< .040	.03
04-13-2010	< 5	20.1	3.9	56	14.0	11.7	< .020	.18	< .040	.01
06-08-2010	< 5	26.6	4.7	75	17.1	11.8	.030	.26	< .040	.02
08-11-2010	< 5	30.5	6.7	101	29.2	15.4	.020	< .04	< .040	.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 3

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M, presence verified but not quantified]

Date	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)	Nickel, water, unfiltered, recoverable, μg/L (01067)	Zinc, water, unfiltered, recoverable, μg/L (01092)
10-08-2009	.018	.28	< 200	< 4	70	< 1.0	10	< 50	< 10
12-02-2009	.016	.54	< 200	< 4	120	< 1.0	10	< 50	< 10
02-01-2010	.032	1.9	< 200	M	280	< 1.0	30	< 50	< 10
04-13-2010	.018	.42	< 200	< 4	120	< 1.0	20	< 50	< 10
06-08-2010	.037	.62	< 200	< 4	230	< 1.0	30	< 50	< 10
08-11-2010	.029	.38	< 200	< 4	110	< 1.0	60	< 50	< 10