



2004 Water Year SWATARA CREEK BASIN

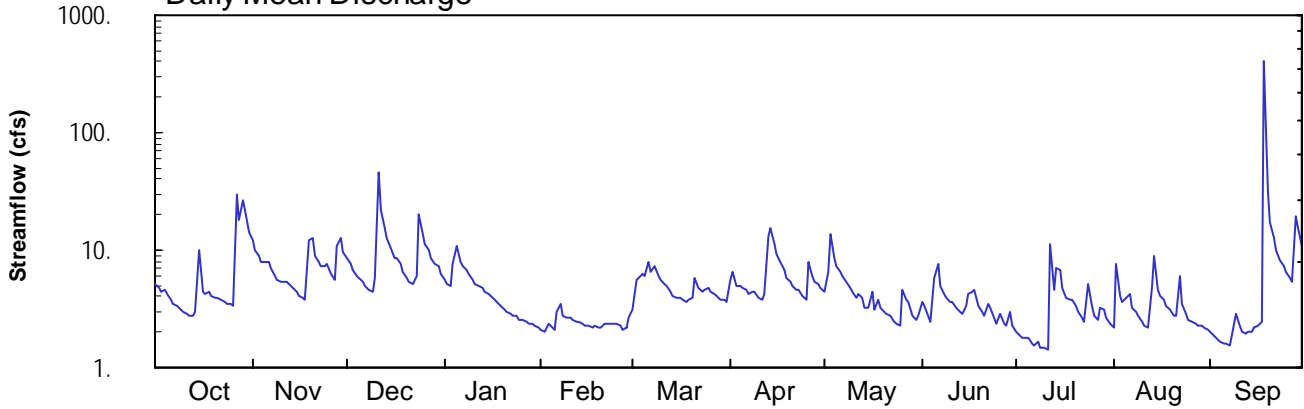
0157155014 Swatara Creek, Site C3, at Newtown, PA

Latitude: 40° 39' 28"
Schuylkill County

Longitude: 076° 20' 43"
Datum: 900. feet

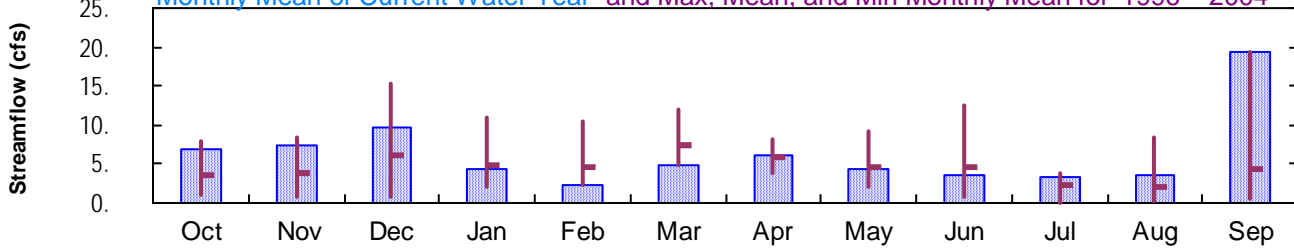
Hydrologic Unit Code: 02050305
Drainage Area: 2.92 mi²

Daily Mean Discharge

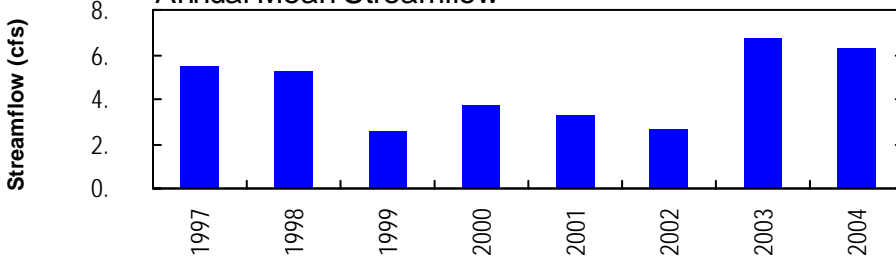


Monthly Statistics

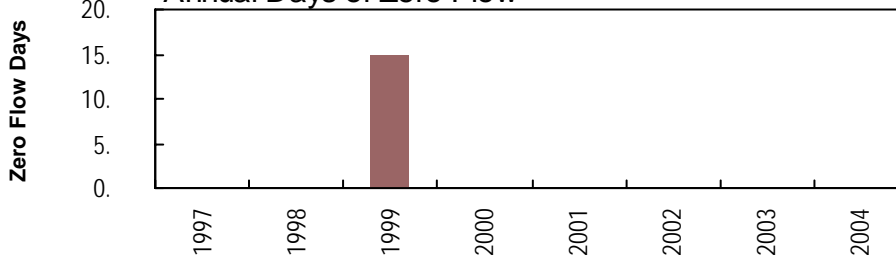
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1996 – 2004



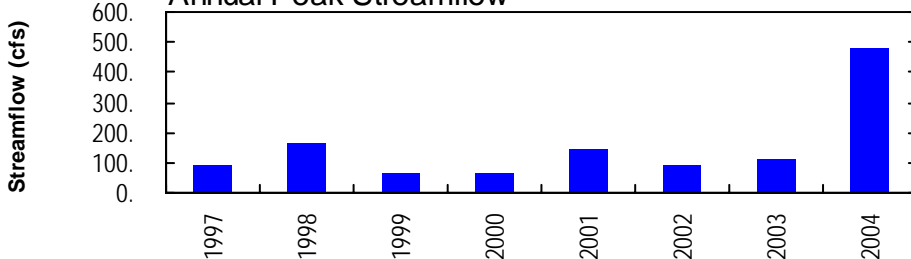
Annual Mean Streamflow



Annual Days of Zero Flow



Annual Peak Streamflow



NO PHOTOS AVAILABLE FOR THIS SITE

SWATARA CREEK BASIN

**0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA
(Swatara Creek Project)**

LOCATION.--Lat 40°39'28", long 76°20'43", Schuylkill County, Hydrologic Unit 02050305, on left bank 500 ft downstream from bridge on U.S. Highway 209. Located on Swatara Coal Company property.

DRAINAGE AREA.--2.92 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 900 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except those above 44 ft³/s and those for estimated daily discharges, which are poor. Diversion upstream from station by limestone treatment system used to aid in the remediation efforts of acid mine drainage.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Oct. 27	1345	69	2.14	Sept. 18	0600	*483	*a3.60
Dec. 11	1030	91	2.29				

a From crest-stage gage.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	12	8.6	5.6	2.1	3.1	5.5	4.4	3.6	2.0	2.2	2.0
2	4.7	10	7.7	5.2	2.0	5.5	6.6	6.5	3.4	1.9	7.6	1.9
3	4.3	8.8	6.8	5.0	2.4	5.7	5.0	14	2.7	1.8	4.1	1.7
4	4.5	7.9	6.1	7.6	2.3	6.2	5.0	8.6	2.5	1.8	3.7	1.7
5	4.2	8.0	5.8	11	2.1	6.0	4.8	7.4	5.7	1.8	3.9	1.6
6	3.8	7.8	5.4	8.0	3.0	7.9	4.5	6.5	7.5	1.6	4.3	1.6
7	3.5	7.0	5.0	7.2	3.5	6.5	4.3	6.0	4.9	1.5	3.2	1.5
8	3.4	6.1	4.7	6.7	2.8	7.4	4.4	5.3	4.3	1.7	2.9	1.9
9	3.2	5.7	4.3	6.3	2.7	6.1	4.4	4.8	3.8	1.5	2.7	2.9
10	3.0	5.4	5.7	5.6	2.6	5.6	3.9	4.5	3.7	1.5	2.5	2.2
11	2.9	5.3	45	5.2	2.6	5.2	3.7	4.0	3.6	1.4	2.3	2.0
12	2.8	5.3	22	5.0	2.5	4.9	4.2	4.2	3.3	11	2.2	2.0
13	2.8	5.0	15	4.7	2.4	4.5	13	4.0	3.0	4.6	4.9	2.0
14	3.0	4.7	13	4.4	2.4	4.1	15	3.3	2.8	7.1	9.0	2.0
15	10	4.4	10	4.2	2.3	3.9	11	3.2	3.3	6.7	4.5	2.2
16	4.4	4.1	8.4	4.0	e2.3	4.0	9.3	4.3	4.3	4.7	4.1	2.3
17	4.2	3.9	8.7	3.7	2.2	3.8	7.9	3.1	4.4	3.9	3.7	2.5
18	4.4	3.8	7.6	3.6	2.2	3.7	6.7	3.7	4.6	3.7	3.4	e400
19	4.1	12	6.5	3.3	2.2	3.7	5.9	3.2	3.3	3.8	3.1	31
20	3.9	13	5.8	3.1	2.2	3.9	5.3	3.0	2.9	3.4	2.8	17
21	3.9	9.0	5.4	3.0	2.3	5.8	4.9	2.9	2.7	3.0	2.8	13
22	3.8	8.0	5.1	2.9	2.4	4.7	4.5	2.7	3.5	2.6	6.1	e10
23	3.7	7.2	5.9	2.8	2.4	4.4	4.5	2.5	3.2	2.4	3.4	8.3
24	3.5	7.4	20	2.7	2.4	4.5	4.1	2.4	2.6	5.2	2.9	7.3
25	3.4	7.7	14	2.6	2.3	4.8	3.8	2.3	2.4	3.4	2.6	6.5
26	3.3	6.2	11	2.5	2.2	4.4	8.0	4.7	2.9	2.7	2.4	5.9
27	30	5.7	9.8	2.5	2.1	4.3	6.1	3.8	2.3	2.6	2.3	5.4
28	18	11	8.6	2.4	2.2	4.0	5.4	3.6	2.3	3.2	2.3	19
29	27	13	7.6	2.3	2.7	3.8	5.1	2.7	2.9	3.1	2.2	15
30	18	9.5	7.3	2.2	---	3.7	4.8	2.5	2.2	2.6	2.2	11
31	14	---	6.2	2.2	---	3.7	---	2.8	---	2.4	2.1	---
TOTAL	210.9	224.9	303.0	137.5	69.8	149.8	181.6	136.9	104.6	100.6	108.4	583.4
MEAN	6.80	7.50	9.77	4.44	2.41	4.83	6.05	4.42	3.49	3.25	3.50	19.4
MAX	30	13	45	11	3.5	7.9	15	14	7.5	11	9.0	400
MIN	2.8	3.8	4.3	2.2	2.0	3.1	3.7	2.3	2.2	1.4	2.1	1.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	3.58	3.90	6.08	4.85	4.51	7.37	5.83	4.51	4.59	2.20	2.15	4.41
MAX	7.81	8.40	15.3	10.9	10.4	11.9	8.09	9.19	12.5	3.87	8.50	19.4
(WY)	1997	1997	1997	1998	1998	2003	1998	1998	2003	2003	2003	2004
MIN	1.10	0.86	0.71	1.94	2.41	4.83	3.95	2.05	0.89	0.10	0.26	0.42
(WY)	1999	1999	1999	2002	2004	2004	1999	1999	1999	1999	1999	1998

e Estimated.

SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004	
ANNUAL TOTAL	2675.3		2311.4			
ANNUAL MEAN	7.33		6.32		4.51	
HIGHEST ANNUAL MEAN					6.77	
LOWEST ANNUAL MEAN					2.61	
HIGHEST DAILY MEAN	45	Dec 11	e400	Sep 18	e400	Sep 18 2004
LOWEST DAILY MEAN	e1.7	Feb 14,15	1.4	Jul 11	0.00	Jul 27 1999d
ANNUAL SEVEN-DAY MINIMUM	b1.8	Feb 10	1.6	Jul 5	0.00	Jul 29 1999
MAXIMUM PEAK FLOW			c483	Sep 18	c483	Sep 18 2004
MAXIMUM PEAK STAGE			a3.60	Sep 18	a3.60	Sep 18 2004
INSTANTANEOUS LOW FLOW			1.4	Jul 6f	0.00	Jul 27 1999d
10 PERCENT EXCEEDS	14		9.4		8.9	
50 PERCENT EXCEEDS	5.2		4.1		3.0	
90 PERCENT EXCEEDS	2.8		2.2		0.73	

a From crest-stage gage.

b Computed using estimated daily discharges.

c From rating curve extended above 44 ft³/s.

d Several days.

e Estimated.

f Also July 7, 9-12, Sept. 7.

SWATARA CREEK BASIN

**0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued
(Swatara Creek Project)**

WATER-QUALITY RECORDS

PERIOD OF RECORD--April 1996 to current year.

PERIOD OF DAILY RECORD--

SPECIFIC CONDUCTANCE: July 1996 to May 2003.

pH: July 1996 to May 2003.

WATER TEMPERATURE: July 1996 to current year.

INSTRUMENTATION--Water-quality monitor (in situ system). Automatic pumping sampler for stormflow samples since July 1996. Water temperature taken from in-situ transducer beginning May 2003.

REMARKS--Specific conductance records rated fair. pH records rated fair except for periods Oct. 26-Nov. 5, and Jan. 9-30, which are poor. The pH probe is subject to fowling from precipitation of iron, adhesion of lime on electrodes, and occasional burial by sediment. Water temperature records rated good except for period May 20-Sept. 30, which is poor. Interruptions in the record were due to malfunctions of the instrumentation. Some values for "*dissolved*" parameters exceed values for the corresponding "*total*" parameter. These results are within the limits of analytical precision and methods.

EXTREMES FOR PERIOD OF DAILY RECORD--

SPECIFIC CONDUCTANCE: Maximum, 438 microsiemens, Aug. 13, 1999; minimum, 51 microsiemens, July 24, 1997.

pH: Maximum, 8.2, Aug. 20, 2001; minimum, 3.6, Oct. 21-23, 25, Dec. 3, 1996.

WATER TEMPERATURE: Maximum, 23.5°C, July 5, 6, 1999; minimum, 0.0°C, many days during winters.

EXTREMES FOR CURRENT YEAR--

WATER TEMPERATURE: Maximum, 18.5°C, Aug. 4; minimum 0.0°C, many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Oxidation-reduction potential, mV (00090)	Turbidity, water, unfltrd NTU (61028)	Dissolved oxygen, field, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	
OCT											
01...	1600	1028	1028	5.3	470	6.0	10.8	99	5.5	5.4	
29...	1030	1028	89203	43	437	150	11.0	98	5.0	5.1	
JAN											
05...	1015	1028	89203	11	229	29	10.5	83	5.4	5.3	
MAR											
04...	1030	1028	89203	6.4	269	15	12.8	99	5.3	5.4	
APR											
21...	0930	1028	89203	5.0	428	7.2	11.3	101	5.5	5.2	
JUN											
03...	0945	1028	89203	2.8	364	12	9.9	94	6.0	5.5	
JUL											
21...	0930	1028	89203	3.2	400	13	10.3	100	5.4	5.0	
SEP											
08...	0930	1028	89203	1.6	350	9.0	9.8	100	6.6	6.0	
Date		Specif. conductance, wat unfltrd, 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Calcium water unfltrd recover-able, mg/L (00916)	Magnesium water, fltrd, mg/L (00925)	Magnesium water, unfltrd recover-able, mg/L (00927)	Potassium water, fltrd, mg/L (00935)	Potassium water, unfltrd recover-able, mg/L (00937)	Sodium water, fltrd, mg/L (00930)	Sodium water, unfltrd recover-able, mg/L (00929)
OCT											
01...	134	11.0	6.40	6.25	4.70	4.65	.760	.745	5.00	4.95	
29...	88.0	9.20	4.30	4.20	3.20	3.20	1.30	1.30	4.80	4.90	
JAN											
05...	95.0	4.60	4.90	4.80	3.30	3.10	1.20	1.20	5.50	5.20	
MAR											
04...	97.0	3.75	4.90	4.90	3.40	3.50	.900	1.00	5.10	5.20	
APR											
21...	140	9.30	7.30	7.40	5.60	5.60	.900	.800	6.00	6.10	
JUN											
03...	124	12.2	7.40	7.50	4.90	5.10	.800	1.00	6.40	6.50	
JUL											
21...	171	14.3	9.50	9.90	8.20	8.40	.900	.900	6.00	5.90	
SEP											
08...	161	15.3	10.8	10.5	8.40	8.40	1.00	1.00	6.90	7.10	

SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	ANC, wat unfixed end pt, lab, mg/L as CaCO3 (00417)	Acidity water, unfltrd, heated, mg/L as CaCO3 (70508)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Silica, water, unfltrd, mg/L (00956)	Sulfate, water, fltrd, mg/L (00945)	Sulfate, water, unfltrd, mg/L (00946)	Nitrate, water, fltrd, mg/L as N (00618)	Nitrite, water, fltrd, mg/L as N (00613)
OCT 01...	2.60	--	8.43	<.010	6.02	6.02	41.1	48.0	.040	<.030
OCT 29...	2.80	--	5.49	<.010	--	--	23.8	--	.090	<.030
JAN 05...	2.00	--	7.98	<.010	--	--	24.1	--	.130	<.030
MAR 04...	2.50	--	--	--	--	--	--	--	--	--
APR 21...	3.20	--	--	9.42	--	--	--	--	--	--
JUN 03...	2.30	--	10.9	--	--	--	36.8	--	--	--
JUL 21...	1.20	--	8.77	--	--	--	51.7	--	.060	--
SEP 08...	2.40	--	10.4	<.010	--	--	53.9	--	.120	<.030

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, unfltrd, µg/L (01105)	Antimony, water, recoverable, fltrd, µg/L (01095)	Antimony, water, unfltrd, µg/L (01097)	Arsenic, water, fltrd, µg/L (01000)	Arsenic, water, unfltrd, µg/L (01002)
OCT 01...	<.020	<.001	<.001	270	625	<.020	<.020	<.200	<.200
OCT 29...	<.020	--	--	600	1000	--	--	--	--
JAN 05...	<.020	--	--	200	500	--	--	--	--
MAR 04...	--	--	--	300	600	--	--	--	--
APR 21...	--	--	--	400	700	--	--	--	--
JUN 03...	--	--	--	200	700	--	--	--	--
JUL 21...	--	--	--	400	900	--	--	--	--
SEP 08...	<.020	--	--	<100	500	--	--	--	--

Date	Barium, water, fltrd, µg/L (01005)	Barium, water, unfltrd, recoverable, µg/L (01007)	Beryllium, water, fltrd, µg/L (01010)	Beryllium, water, unfltrd, recoverable, µg/L (00998)	Bismuth, water, fltrd, µg/L (01015)	Bismuth, water, unfltrd, µg/L (01017)	Bromine, water, unfltrd, mg/L (71871)	Cadmium, water, fltrd, µg/L (01025)	Cadmium, water, unfltrd, µg/L (01027)
OCT 01...	32.5	32.0	.340	.500	<.010	<.010	.070	.230	.220
OCT 29...	--	--	--	--	--	--	.070	--	--
JAN 05...	--	--	--	--	--	--	.040	--	--
MAR 04...	--	--	--	--	--	--	--	--	--
APR 21...	--	--	--	--	--	--	42.7	--	--
JUN 03...	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--
SEP 08...	--	--	--	--	--	--	.060	--	--

SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Cerium, water, fltrd, µg/L (01110)	Cerium, water, unfltrd µg/L (01112)	Cesium, water, fltrd, µg/L (01115)	Cesium, water, unfltrd µg/L (01117)	Chromium, water, fltrd, µg/L (01030)	Chromium, water, unfltrd recover-able, µg/L (01034)	Cobalt, water, fltrd, µg/L (01035)	Cobalt, water, unfltrd recover-able, µg/L (01037)	Copper, water, fltrd, µg/L (01040)	Copper, water, unfltrd recover-able, µg/L (01042)
OCT 01...	1.60	1.80	.028	.026	<1.00	<1.00	14.5	14.0	2.90	3.30
OCT 29...	--	--	--	--	--	--	--	--	--	--
JAN 05...	--	--	--	--	--	--	--	--	--	--
MAR 04...	--	--	--	--	--	--	--	--	--	--
APR 21...	--	--	--	--	--	--	--	--	--	--
JUN 03...	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--
SEP 08...	--	--	--	--	--	--	--	--	--	--

Date	Dysprosium, water, fltrd, µg/L (82331)	Dysprosium, water, unfltrd µg/L (82330)	Erbium, water, fltrd, µg/L (50573)	Erbium, water, unfltrd µg/L (01246)	Europium, water, fltrd, µg/L (50574)	Europium, water, unfltrd µg/L (01236)	Gadolinium, water, fltrd, µg/L (50575)	Gadolinium, water, unfltrd µg/L (01219)	Gallium, water, fltrd, µg/L (01120)	Gallium, water, unfltrd µg/L (01122)
OCT 01...	.120	.160	.069	.098	.028	.038	.130	.170	<.020	<.020
OCT 29...	--	--	--	--	--	--	--	--	--	--
JAN 05...	--	--	--	--	--	--	--	--	--	--
MAR 04...	--	--	--	--	--	--	--	--	--	--
APR 21...	--	--	--	--	--	--	--	--	--	--
JUN 03...	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--
SEP 08...	--	--	--	--	--	--	--	--	--	--

Date	Germanium, water, fltrd, µg/L (01125)	Germanium, water, unfltrd µg/L (01127)	Holmium, water, fltrd, µg/L (50577)	Holmium, water, unfltrd µg/L (01247)	Iron, water, fltrd, µg/L (01046)	Iron, water, unfltrd recover-able, µg/L (01045)	Lanthanum, water, fltrd, µg/L (01180)	Lanthanum, water, unfltrd µg/L (01182)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover-able, µg/L (01051)
OCT 01...	<.020	<.020	.027	.033	340	605	.890	.980	.310	.650
OCT 29...	--	--	--	--	310	850	--	--	--	--
JAN 05...	--	--	--	--	390	570	--	--	--	--
MAR 04...	--	--	--	--	140	280	--	--	--	--
APR 21...	--	--	--	--	360	650	--	--	--	--
JUN 03...	--	--	--	--	100	450	--	--	--	--
JUL 21...	--	--	--	--	60.0	370	--	--	--	--
SEP 08...	--	--	--	--	80.0	300	--	--	--	--

SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Thulium water, fltrd, µg/L (50587)	Thulium water, unfltrd µg/L (01245)	Tung- sten, water, fltrd, µg/L (01155)	Tung- sten, water, unfltrd µg/L (01154)	Vanad- ium, water, fltrd, µg/L (01085)	Vanad- ium, water, unfltrd µg/L (01087)	Ytterb- ium, water, fltrd, µg/L (01194)	Ytterb- ium, water, unfltrd µg/L (01196)	Yttrium water, fltrd, µg/L (01201)	Yttrium water, unfltrd µg/L (01203)
OCT										
01...	.010	.015	.040	.031	<.100	<.100	.067	.091	.620	.770
29...	--	--	--	--	--	--	--	--	--	--
JAN										
05...	--	--	--	--	--	--	--	--	--	--
MAR										
04...	--	--	--	--	--	--	--	--	--	--
APR										
21...	--	--	--	--	--	--	--	--	--	--
JUN										
03...	--	--	--	--	--	--	--	--	--	--
JUL										
21...	--	--	--	--	--	--	--	--	--	--
SEP										
08...	--	--	--	--	--	--	--	--	--	--

Date	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd µg/L (01092)	Uranium natural water, fltrd, µg/L (22703)	Uranium natural water, unfltrd µg/L (28011)
OCT				
01...	70.5	70.5	.038	.053
29...	53.0	54.0	--	--
JAN				
05...	51.0	53.0	--	--
MAR				
04...	50.0	50.0	--	--
APR				
21...	80.0	95.0	--	--
JUN				
03...	70.0	65.0	--	--
JUL				
21...	49.0	53.0	--	--
SEP				
08...	80.0	75.0	--	--

SWATARA CREEK BASIN

0157155014 SWATARA CREEK, SITE C3, AT NEWTOWN, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	11.0	10.0	10.5	11.5	9.5	10.5	7.0	5.5	6.5	4.5	3.5	4.0
2	10.0	9.0	9.5	12.0	10.5	11.5	5.5	3.5	5.0	5.5	3.5	4.5
3	9.5	7.5	8.5	12.5	10.5	11.5	4.0	3.0	3.5	7.0	5.0	6.0
4	9.5	9.0	9.0	12.5	10.5	11.5	4.5	2.5	3.5	7.0	5.0	6.5
5	9.5	8.0	8.5	11.5	11.0	11.5	4.0	2.5	4.0	5.0	4.5	5.0
6	9.0	7.0	8.0	11.5	11.0	11.5	3.0	2.0	2.5	4.5	2.0	3.5
7	9.5	6.5	8.0	11.0	9.0	10.0	2.5	1.5	2.0	2.0	1.5	1.5
8	11.0	8.0	9.5	9.0	5.5	7.5	3.0	1.5	2.0	2.5	1.5	2.0
9	12.0	9.5	10.5	6.0	4.5	5.5	3.5	2.5	3.0	2.5	0.0	1.5
10	13.0	10.5	11.5	6.0	3.5	5.0	4.5	3.0	4.0	0.0	0.0	0.0
11	12.5	10.5	11.5	7.0	4.5	5.5	6.0	4.5	5.5	1.0	0.0	0.5
12	12.5	10.0	11.0	9.0	7.0	8.0	5.5	5.0	5.5	2.5	1.0	2.0
13	12.0	10.5	11.5	9.0	5.5	7.5	5.0	4.5	4.5	3.0	1.0	2.5
14	11.0	9.5	10.5	6.0	5.0	5.5	4.5	3.0	3.5	1.0	0.0	0.0
15	11.5	9.5	11.0	7.0	5.5	6.0	4.5	3.0	4.0	0.0	0.0	0.0
16	10.0	8.5	9.5	7.0	5.5	6.5	4.5	3.0	4.0	0.0	0.0	0.0
17	9.5	9.0	9.5	8.0	7.0	7.5	5.0	3.5	4.5	0.5	0.0	0.0
18	9.5	8.0	9.0	8.0	6.5	7.0	3.5	3.0	3.0	1.5	0.5	1.0
19	10.5	8.5	9.0	11.0	8.0	9.5	4.0	3.0	3.5	1.0	0.5	0.5
20	9.5	7.0	8.5	9.5	7.5	8.5	3.5	2.5	3.0	1.0	0.0	0.5
21	11.5	9.0	10.0	9.0	7.0	8.0	3.0	2.0	2.5	1.0	0.0	0.5
22	10.5	8.0	9.5	9.0	7.5	8.0	4.5	2.5	3.5	1.5	0.0	0.5
23	8.0	6.0	7.0	9.0	7.0	8.0	5.0	4.0	4.5	0.0	0.0	0.0
24	7.5	5.5	6.5	9.0	6.5	8.0	5.0	4.5	4.5	0.0	0.0	0.0
25	8.5	5.5	7.0	6.5	5.5	6.0	5.0	4.0	4.5	0.0	0.0	0.0
26	10.5	8.0	9.5	6.5	5.0	5.5	5.0	4.0	4.5	0.0	0.0	0.0
27	11.5	9.5	11.0	7.0	5.5	6.5	5.0	4.0	4.5	0.5	0.0	0.0
28	9.5	8.5	9.0	9.0	7.0	7.5	5.0	3.5	4.0	0.5	0.0	0.5
29	9.5	9.0	9.5	7.0	6.0	6.0	5.0	3.5	4.5	0.5	0.0	0.5
30	10.0	8.5	9.0	6.5	6.0	6.0	5.0	4.0	4.5	0.5	0.0	0.0
31	10.5	8.5	9.5	---	---	---	4.5	3.5	4.0	0.0	0.0	0.0
MONTH	13.0	5.5	9.4	12.5	3.5	7.9	7.0	1.5	4.0	7.0	0.0	1.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	3.5	1.5	2.5	6.5	6.0	6.0	13.5	10.0	11.5
2	1.0	0.0	0.5	4.5	2.5	3.0	6.0	5.5	6.0	13.0	11.5	12.0
3	0.5	0.0	0.0	5.0	2.5	3.5	6.0	5.5	5.5	12.5	9.0	10.5
4	1.5	0.5	1.0	4.5	3.5	4.0	5.5	3.5	5.0	10.0	7.5	9.0
5	1.0	0.0	0.5	5.0	4.0	4.5	5.5	2.5	3.5	10.0	8.0	9.0
6	0.5	0.0	0.0	6.5	4.5	5.5	6.0	2.5	4.0	11.5	7.5	9.5
7	1.5	0.5	1.0	6.0	4.0	5.0	8.5	4.5	6.5	12.5	10.0	11.0
8	0.5	0.0	0.0	5.0	4.0	4.5	6.0	4.5	5.5	11.5	9.5	10.5
9	1.0	0.0	0.5	4.0	3.0	3.5	8.0	5.0	6.5	12.5	9.0	10.5
10	2.5	1.0	1.5	4.5	3.0	3.5	8.5	4.0	6.5	14.0	10.5	12.0
11	2.0	0.5	1.5	5.5	2.5	4.0	6.0	5.0	5.5	14.5	11.5	13.0
12	2.0	0.0	1.0	4.5	2.5	3.5	6.5	5.5	5.5	14.5	12.0	13.0
13	2.5	1.0	1.5	4.0	2.0	3.0	6.0	5.0	5.5	15.0	12.5	13.5
14	2.0	0.5	1.0	3.5	1.5	2.5	6.5	6.0	6.5	14.5	13.0	13.5
15	1.5	0.0	0.5	6.0	3.0	4.5	8.0	5.5	6.5	15.5	12.5	14.0
16	0.0	0.0	0.0	3.5	1.0	2.0	8.5	5.0	6.5	15.0	13.0	14.0
17	0.5	0.0	0.0	3.5	1.5	2.0	10.5	6.5	8.0	14.0	12.0	13.0
18	1.5	0.0	0.5	4.5	1.5	2.5	12.0	8.0	10.0	15.0	13.5	14.0
19	2.5	0.0	1.0	4.0	1.5	2.5	12.5	8.5	10.5	14.0	13.0	13.5
20	3.0	0.5	1.5	5.0	1.0	3.0	12.0	9.5	10.5	13.0	12.0	12.5
21	3.0	1.5	2.0	4.5	2.5	3.5	12.0	9.0	10.0	14.5	12.5	13.5
22	3.0	1.0	1.5	3.5	1.0	2.0	12.5	9.5	11.0	16.0	13.5	14.5
23	3.0	0.5	1.5	4.5	0.5	2.5	11.0	10.0	10.5	17.0	14.0	15.5
24	1.5	0.5	1.5	5.5	2.0	3.5	12.5	9.0	10.5	16.5	14.5	15.5
25	2.0	0.0	0.5	5.5	4.0	4.5	9.5	8.0	8.5	16.0	14.0	15.0
26	2.0	0.0	1.0	8.0	4.5	6.0	9.5	8.0	8.5	15.0	14.0	14.5
27	3.0	0.0	1.5	9.0	6.5	7.5	10.5	8.0	9.0	15.0	14.0	14.5
28	3.5	0.0	1.5	9.5	6.5	7.5	9.5	6.0	8.0	15.0	13.5	14.5
29	4.5	1.0	2.5	8.5	5.5	7.0	12.0	7.0	9.5	13.5	11.5	12.5
30	---	---	---	6.0	4.5	5.0	12.5	8.5	10.5	13.5	10.0	11.5
31	---	---	---	7.0	5.0	6.0	---	---	---	12.5	12.0	12.0
MONTH	4.5	0.0	0.9	9.5	0.5	4.0	12.5	2.5	7.5	17.0	7.5	12.7

