

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA
(National Water-Quality Assessment Station)

LOCATION.--Lat 40°09'05", long 75°36'06", Chester County, Hydrologic Unit 02040203, on right bank 70 ft downstream from two-span county bridge on French Creek Road, 4.5 mi northwest of Phoenixville, and 7.3 mi upstream from mouth.

DRAINAGE AREA.--59.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 160 ft above sea level, from topographic map. Prior to Nov. 7, 1968, nonrecording gage at site 70 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 750 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 22	0700	*2,960	*9.30	Aug. 4	0030	775	6.80

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	33	50	52	e50	104	119	85	68	55	39	39
2	53	61	46	52	e42	96	114	89	64	48	55	36
3	44	141	44	54	e41	87	114	83	61	45	47	43
4	54	63	42	61	e44	78	183	78	57	47	209	36
5	115	48	41	109	e40	74	132	75	57	44	56	28
6	68	43	159	65	e39	70	108	81	112	40	42	24
7	51	40	114	57	e38	66	99	74	92	37	45	24
8	45	37	65	53	e38	66	96	69	67	35	58	23
9	43	36	55	51	e37	65	229	64	58	34	47	23
10	180	37	64	71	e45	64	167	70	54	45	41	22
11	125	36	84	111	e41	75	113	109	50	40	41	22
12	65	33	59	70	e38	180	105	72	54	34	40	22
13	51	33	54	61	e37	96	96	69	101	32	47	87
14	47	33	244	e51	e50	74	93	110	75	39	54	40
15	42	32	227	e49	e110	69	93	69	70	45	55	142
16	37	31	114	e48	e76	68	108	61	68	42	38	52
17	38	30	87	e47	e70	252	125	59	59	38	32	34
18	50	29	77	e82	e66	116	177	58	59	35	31	29
19	41	30	70	e58	191	85	114	119	179	35	34	68
20	52	30	78	e52	154	79	98	243	68	43	31	104
21	64	34	121	e47	118	487	251	167	59	38	28	47
22	46	33	81	e58	111	1840	329	132	230	53	26	35
23	52	33	70	e52	134	348	160	197	81	37	25	32
24	47	39	64	e45	181	232	130	233	60	34	27	33
25	41	37	e53	e52	225	190	114	250	54	36	26	35
26	38	72	e56	e48	226	168	106	112	55	57	24	328
27	37	366	56	e42	153	150	107	91	82	81	24	111
28	35	110	55	e47	269	382	102	90	57	49	42	61
29	34	70	53	e43	140	186	96	82	58	40	36	48
30	34	57	52	e41	---	146	90	75	97	38	31	42
31	33	---	53	e60	---	130	---	70	---	37	51	---
TOTAL	1742	1707	2488	1789	2804	6123	3968	3236	2306	1313	1382	1670
MEAN	56.2	56.9	80.3	57.7	96.7	198	132	104	76.9	42.4	44.6	55.7
MAX	180	366	244	111	269	1840	329	250	230	81	209	328
MIN	33	29	41	41	37	64	90	58	50	32	24	22
CFSM	.95	.96	1.36	.98	1.64	3.34	2.24	1.77	1.30	.72	.75	.94
IN.	1.10	1.07	1.57	1.13	1.76	3.85	2.50	2.04	1.45	.83	.87	1.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2000, BY WATER YEAR (WY)

MEAN	49.3	71.2	99.1	110	124	145	138	106	77.5	60.7	39.7	49.4
MAX	180	166	328	394	266	350	306	250	353	258	110	214
(WY)	1997	1973	1997	1979	1984	1994	1983	1989	1972	1984	1971	1999
MIN	17.9	24.6	19.2	13.7	39.7	40.5	35.6	31.9	22.2	11.1	13.4	14.1
(WY)	1987	1982	1981	1981	1969	1981	1985	1969	1999	1999	1999	1980

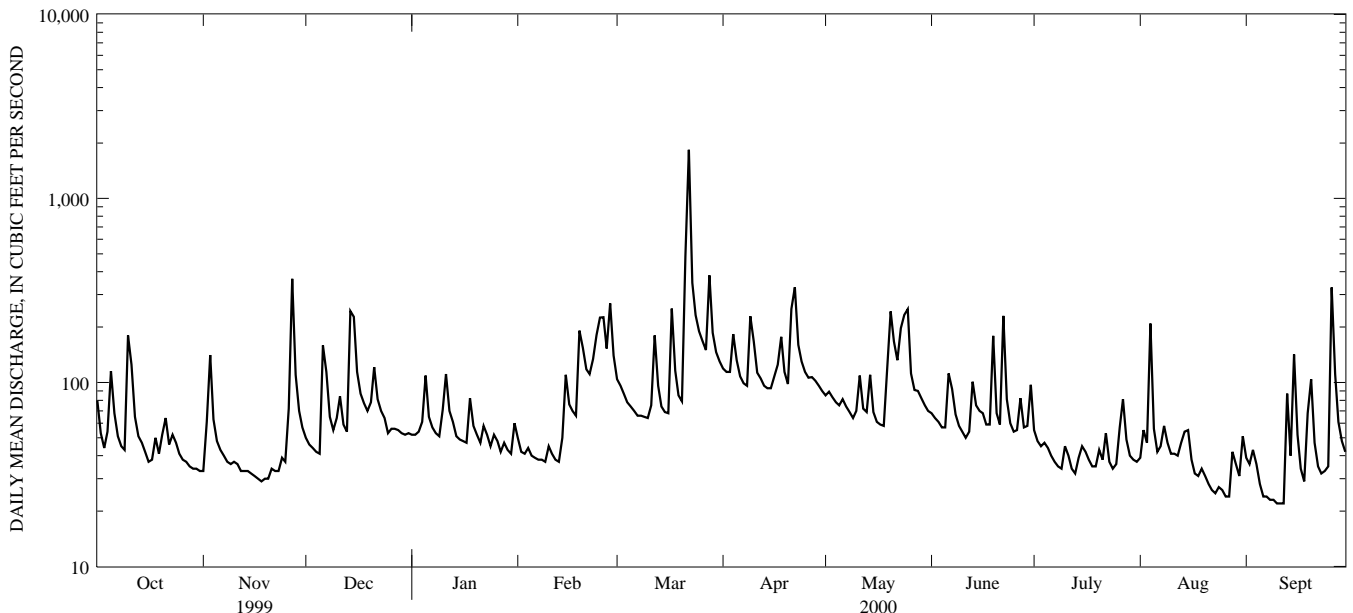
e Estimated.

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1969 - 2000	
ANNUAL TOTAL	25618.9		30528			
ANNUAL MEAN	70.2		83.4		88.8	
HIGHEST ANNUAL MEAN					155	1984
LOWEST ANNUAL MEAN					36.2	1981
HIGHEST DAILY MEAN	3670	Sep 16	1840	Mar 22	4530	Jun 22 1972
LOWEST DAILY MEAN	7.1	Aug 7	22	Sep 10-12	7.1	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	7.3	Aug 2	23	Sep 6	7.3	Aug 2 1999
INSTANTANEOUS PEAK FLOW			a2960	Mar 22	a11200	Jun 22 1972
INSTANTANEOUS PEAK STAGE			9.30	Mar 22	13.66	Jun 22 1972
INSTANTANEOUS LOW FLOW			22	Sep 10-13	6.9	Aug 8 1999
ANNUAL RUNOFF (CFSM)	1.19		1.41		1.50	
ANNUAL RUNOFF (INCHES)	16.13		19.22		20.43	
10 PERCENT EXCEEDS	115		156		170	
50 PERCENT EXCEEDS	45		57		56	
90 PERCENT EXCEEDS	10		34		21	

a From rating curve extended above 2,500 ft³/s, on basis of slope-area measurement of peak flow.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued
(National Water-Quality Assessment Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1950 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 1998 to April 1999, June 1999 to August 1999, June 2000 to September 2000.

INSTRUMENTATION.--Water-temperature data logger (in situ system; measurements recorded every 15 minutes) located at gage.

REMARKS.--Those data on pages 264-269 were collected as part of the Delaware River Basin NAWQA project.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum 30.5°C, July 5, 6, 1999; minimum, -0.5°C, Dec. 25, 1998, Jan. 31, Mar. 12, 13, 1999..

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	DIS- CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS- SOLVED AS CA) (00915)
OCT 1999 29...	80020	1028	41	12.2	7.3	178	9.5	64	17

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD IT FIELD (MG/L AS CACO3) (00419)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
OCT 1999 29...	5.4	1.7	.4	7.8	21	39	12	<.10	19

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (µG/L AS B) (01020)	IRON, DIS- SOLVED (µG/L AS FE) (01046)
OCT 1999 29...	15	<.020	1.19	<.010	<.010	109	E12	40

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to *Quality-Control Data* in the *Introduction*. These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (NAWQA). Streambed sediment and fish community data for this site are presented on pages 467-481.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
OCT 1999									
06...	1400	ENVIRONMENTAL	64	759	--	10.8	8.0	163	17.0
NOV									
03...	1410	ENVIRONMENTAL	120	750	116	12.4	7.8	152	9.0
DEC									
08...	1230	ENVIRONMENTAL	63	766	102	12.7	7.6	139	13.0
JAN 2000									
05...	1450	ENVIRONMENTAL	95	766	102	12.6	7.7	140	4.0
FEB									
03...	1320	ENVIRONMENTAL	E41	753	101	14.6	7.6	172	1.0
MAR									
08...	1539	FIELD BLANK	--	--	--	--	--	--	--
08...	1540	ENVIRONMENTAL	66	755	112	12.0	7.9	150	27.0
08...	1541	CONCURRENT REPLICATE	--	--	--	--	--	--	--
17...	0930	ENVIRONMENTAL	340	757	102	11.6	7.5	135	4.0
22...	1000	ENVIRONMENTAL	2560	767	--	--	7.0	66	9.5
APR									
05...	1310	ENVIRONMENTAL	127	754	100	11.2	7.9	132	8.5
MAY									
03...	1150	ENVIRONMENTAL	83	765	--	--	7.9	141	20.5
22...	0940	ENVIRONMENTAL	106	754	87	9.0	7.5	134	13.0
JUN									
28...	1510	ENVIRONMENTAL	56	753	108	9.2	7.8	150	25.5
AUG									
01...	1440	ENVIRONMENTAL	38	751	111	9.2	8.2	164	28.5
28...	1010	ENVIRONMENTAL	48	762	102	9.3	7.8	168	24.5
SEP									
13...	1110	ENVIRONMENTAL	181	756	97	8.6	7.8	140	21.5

DATE	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT 1999											
06...	--	57	14.9	4.85	2.1	7.1	34	41	12.0	<.1	15.7
NOV											
03...	11.5	52	13.1	4.67	2.5	6.3	32	39	11.8	<.1	15.6
DEC											
08...	6.0	49	12.4	4.35	1.8	6.2	28	34	10.1	<.1	14.9
JAN 2000											
05...	6.5	52	13.7	4.37	1.5	5.9	27	33	10.4	<.1	14.7
FEB											
03...	.0	54	13.9	4.63	1.2	9.1	29	35	15.3	<.1	16.2
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	12.0	50	12.8	4.43	1.3	7.5	28	34	12.5	<.1	13.0
08...	--	--	--	--	--	--	--	--	--	--	--
17...	9.5	42	10.5	3.80	1.6	7.0	25	30	11.9	<.1	11.5
22...	5.0	19	4.74	1.83	1.9	3.3	11	13	5.4	<.1	5.0
APR											
05...	10.0	42	10.7	3.80	1.3	6.3	26	32	10.1	<.1	13.0
MAY											
03...	14.5	48	12.4	4.24	1.1	6.5	29	35	10.0	<.1	12.7
22...	13.5	48	12.2	4.22	1.2	6.1	30	37	9.3	<.1	14.7
JUN											
28...	23.0	53	13.6	4.58	1.7	6.6	38	46	10.0	.1	15.9
AUG											
01...	24.0	58	15.3	4.80	1.7	7.2	43	53	11.1	<.1	16.4
28...	20.0	61	16.4	4.95	1.5	7.0	42	52	10.6	<.1	16.5
SEP											
13...	20.5	47	12.5	3.87	2.7	6.0	33	40	9.1	.1	13.1

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, DIS- SOLVED TOTAL (MG/L AS N) (00600)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT 1999											
06...	17.0	<.020	.22	.32	1.3	1.12	1.4	<.010	.029	.019	.038
NOV											
03...	13.5	<.020	.28	.33	.99	.711	1.0	<.010	.018	<.010	.046
DEC											
08...	14.1	<.020	.30	.34	1.5	1.15	1.5	<.010	.022	<.010	.029
JAN 2000											
05...	14.3	<.020	.25	.32	1.6	1.34	1.7	<.010	.016	.014	.068
FEB											
03...	13.9	<.020	E.10	.10	--	2.02	2.1	<.010	E.004	.010	E.007
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	13.9	<.020	.16	.16	1.7	1.58	1.7	<.010	.013	<.010	.020
08...	--	--	--	--	--	--	--	--	--	--	--
17...	10.7	.041	.35	.58	1.4	1.06	1.6	<.010	.025	.015	.121
22...	6.6	.047	.37	.90	1.0	.663	1.6	<.010	.046	.034	.274
APR											
05...	12.5	<.020	.22	.20	1.3	1.09	1.3	<.010	.018	<.010	.033
MAY											
03...	11.6	<.020	.16	.21	1.3	1.16	1.4	<.010	.010	<.010	.020
22...	10.2	.047	.31	.39	1.4	1.05	1.4	<.010	.030	.021	.063
JUN											
28...	10.1	<.020	.25	.34	1.4	1.13	1.5	<.010	.037	.025	.063
AUG											
01...	10.7	<.020	.23	.24	1.3	1.04	1.3	<.010	.030	.018	.044
28...	11.3	<.020	.19	.18	1.4	1.21	1.4	<.010	.022	.012	.039
SEP											
13...	8.8	.023	.33	.75	1.4	1.05	1.8	.010	.064	.046	.246

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS- SOLVED (µG/L AS B) (01020)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT 1999										
06...	116	99	--	E13	80	5	5.1	<.2	.19	1
NOV										
03...	105	90	5	E13	100	4	6.4	.4	--	--
DEC										
08...	92	86	4	E10	130	11	4.9	.2	.30	1
JAN 2000										
05...	94	87	8	<16	100	13	3.7	.2	1.3	4
FEB										
03...	108	100	1	E12	40	9	1.4	<.2	.36	2
MAR										
08...	--	--	--	--	--	--	<.33	<.2	--	--
08...	112	89	2	E12	50	7	1.8	.2	.51	2
08...	--	--	--	--	--	--	1.8	.2	--	--
17...	92	77	56	E10	80	18	4.4	1.5	46	49
22...	44	38	160	<16	80	44	5.5	.9	505	71
APR										
05...	84	78	6	<16	80	9	3.0	.3	2.0	5
MAY										
03...	85	81	--	E10	60	13	2.3	.2	.33	1
22...	95	81	9	<16	190	11	4.3	.3	2.2	8
JUN										
28...	103	91	13	E12	220	8	3.9	<.2	1.1	8
AUG										
01...	112	98	6	E14	70	7	2.5	<.2	.46	4
28...	107	99	6	E12	50	7	1.9	.2	.61	4
SEP										
13...	91	81	110	E9	80	19	4.4	3.6	60	118

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01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

REMARKS.--Selected samples were analyzed for volatile organic compounds (VOCs) using laboratory schedule 2020 (listed with minimum reporting levels on pages 464-465). Only VOCs identified by the analyses in one or more samples are listed in the water-quality tables.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1- TRI- CHLORO- ETHANE TOTAL (µG/L) (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (µG/L) (34511)	1,1-DI- CHLORO- ETHANE TOTAL (µG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (µG/L) (34501)	1,2-DI- CHLORO- PROPANE TOTAL (µG/L) (34541)	ACETONE WATER WHOLE TOTAL (µG/L) (81552)	BENZENE 123-TRI- METHYL- WATER UNFLTRD RECOVER (µG/L) (77221)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (µG/L) (34551)	BENZENE 124-TRI- METHYL UNFILT RECOVER (µG/L) (77222)
NOV 1999 03...	1410	<.03	<.06	<.07	<.04	<.07	E2	<.1	<.2	<.06
FEB 2000 03...	1320	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
MAR 17...	0930	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
MAR 22...	1000	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	E.01
JUN 28...	1510	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
SEP 13...	1110	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06

DATE	BENZENE 135-TRI- METHYL WATER UNFLTRD REC (µG/L) (77226)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (µG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (µG/L) (34571)	ISO- PROPYL- BENZENE WATER WHOLE REC (µG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (µG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (µG/L) (77224)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (µG/L) (34536)	BENZENE TOTAL (µG/L) (34030)	BROMO- FORM TOTAL (µG/L) (32104)	CARBON DI- SULFIDE WATER WHOLE TOTAL (µG/L) (77041)
NOV 1999 03...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	M	<.06	<.07
FEB 2000 03...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.02	<.06	<.07
MAR 17...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
MAR 22...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06	<.07
JUN 28...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
SEP 13...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07

DATE	CARBON TETRA- CHLO- RIDE TOTAL (µG/L) (32102)	CHLORO- BENZENE TOTAL (µG/L) (34301)	CHLORO- DI- BROMO- METHANE TOTAL (µG/L) (32105)	CHLORO- ETHANE TOTAL (µG/L) (34311)	CHLORO- FORM TOTAL (µG/L) (32106)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (µG/L) (77093)	BROMO- DI- CHLORO- METHANE TOTAL (µG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (µG/L) (81576)	ETHER TERT- BUTYL ETHYL UNFLTRD RECOVER (µG/L) (50004)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (µG/L) (50005)
NOV 1999 03...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
FEB 2000 03...	<.06	<.03	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1
MAR 17...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
MAR 22...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
JUN 28...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
SEP 13...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ETHYL- BENZENE TOTAL (µG/L) (34371)	FREON- 113 WATER UNFLTRD REC (µG/L) (77652)	FURAN, TETRA- HYDRO- WATER UNFLTRD RECOVER (µG/L) (81607)	ISO- DURENE WATER UNFLTRD RECOVER (µG/L) (50000)	METHYL TERT- BUTYL ETHER WAT UNF REC (µG/L) (78032)	METHYL- CHLO- RIDE TOTAL (µG/L) (34418)	METHYL ENE CHLO- RIDE TOTAL (µG/L) (34423)	METHYL- ETHYL- KETONE WATER WHOLE TOTAL (µG/L) (81595)	METHYL ISO- BUTYL KETONE WAT. WH. TOTAL (µG/L) (78133)	META/ PARA- XYLENE WATER UNFLTRD REC (µG/L) (85795)
NOV 1999 03...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
FEB 2000 03...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
MAR 17...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
MAR 22...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
JUN 28...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
SEP 13...	<.03	<.06	<2	<.2	M	M	<.4	<2	<.4	<.06

DATE	NAPHTH- ALENE TOTAL (µG/L) (34696)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (µG/L) (77275)	O- XYLENE WATER WHOLE TOTAL (µG/L) (77135)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (µG/L) (77356)	STYRENE TOTAL (µG/L) (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (µG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (µG/L) (77220)	TOLUENE TOTAL (µG/L) (34010)	TRI- CHLORO- ETHYL- ENE TOTAL (µG/L) (39180)	TRI- CHLORO- FLURO- METHANE TOTAL (µG/L) (34488)
NOV 1999 03...	<.2	<.04	<.04	E.01	M	<.1	<.06	<.05	E.02	<.09
FEB 2000 03...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	E.02	<.09
MAR 17...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09
MAR 22...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09
JUN 28...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09
SEP 13...	<.2	<.04	<.04	E.01	<.04	<.1	<.06	<.05	<.04	<.09

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-COLUMN PESTICIDE ANALYSES

REMARKS.--Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, on page 463). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	ACETO- CHLOR, WATER, FLTRD REC (µG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (µG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µG/L) (82680)
OCT 1999								
06...	1400	ENVIRONMENTAL	<.002	<.002	.008	<.002	<.002	<.003
NOV								
03...	1410	ENVIRONMENTAL	<.002	<.002	.010	<.002	<.002	<.003
DEC								
08...	1230	ENVIRONMENTAL	<.002	<.002	.009	<.002	<.002	<.003
JAN 2000								
05...	1450	ENVIRONMENTAL	<.002	<.002	.008	<.002	<.002	<.003
FEB								
03...	1320	ENVIRONMENTAL	<.002	<.002	.008	<.002	<.002	<.003
MAR								
08...	1540	ENVIRONMENTAL	<.002	<.002	.010	<.002	<.002	<.003
17...	0930	ENVIRONMENTAL	<.002	<.002	.021	<.002	<.002	<.003
22...	1000	ENVIRONMENTAL	<.002	<.002	.011	<.002	<.002	<.003
APR								
05...	1310	ENVIRONMENTAL	<.002	E.003	.012	<.002	<.002	<.003
MAY								
03...	1150	ENVIRONMENTAL	<.002	<.002	.012	<.002	<.002	<.003
03...	1151	SPLIT REPLICATE	<.002	<.002	.011	<.002	<.002	<.003
22...	0940	ENVIRONMENTAL	.005	<.002	.234	<.002	<.002	E.003
JUN								
28...	1510	ENVIRONMENTAL	<.002	<.002	.198	<.002	<.002	<.003
AUG								
01...	1440	ENVIRONMENTAL	<.002	<.002	.024	<.002	<.002	<.003
28...	1010	ENVIRONMENTAL	<.002	<.007	.014	<.002	<.002	<.003
SEP								
13...	1110	ENVIRONMENTAL	<.002	<.002	.007	<.002	<.002	E.007

DATE	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µG/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µG/L) (04040)	DI- AZINON, DIS- SOLVED (µG/L) (39572)	DI- ELDRIN DIS- SOLVED (µG/L) (39381)	EPTC WATER FLTRD 0.7 µ GF, REC (µG/L) (82668)	FONOFOS WATER DISS REC (µG/L) (04095)
OCT 1999									
06...	<.003	<.004	<.004	<.002	E.021	<.002	<.001	<.002	<.003
NOV									
03...	<.003	<.004	<.004	<.002	E.028	<.002	<.001	<.002	<.003
DEC									
08...	<.003	<.004	<.004	<.002	E.020	<.002	<.001	<.002	<.003
JAN 2000									
05...	<.003	<.004	<.004	E.002	E.023	<.002	<.001	<.002	<.003
FEB									
03...	<.003	<.004	<.004	<.002	E.034	<.002	<.001	<.002	<.003
MAR									
08...	<.003	<.004	<.004	<.002	E.039	<.002	<.001	<.002	<.003
17...	<.003	<.004	<.004	<.002	E.019	<.002	<.001	<.002	<.003
22...	<.003	<.004	<.004	<.002	E.008	<.002	<.001	<.002	<.003
APR									
05...	<.013	<.004	<.004	<.002	E.024	<.002	<.001	<.002	<.003
MAY									
03...	<.003	<.004	<.004	<.002	E.031	<.002	<.001	<.002	<.003
03...	<.003	<.004	<.004	<.002	E.032	<.002	<.001	<.002	<.003
22...	<.003	E.003	<.004	<.002	E.044	<.002	<.001	<.002	<.003
JUN									
28...	<.003	E.002	.005	<.002	E.048	<.002	<.001	<.002	<.003
AUG									
01...	<.003	<.004	<.004	<.002	E.041	<.002	<.001	<.002	<.003
28...	<.003	<.004	<.004	<.002	E.042	<.002	<.001	<.002	<.003
SEP									
13...	<.003	<.004	<.004	<.002	E.027	.004	<.001	<.002	<.003

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-COLUMN PESTICIDE ANALYSES--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LINDANE DIS- SOLVED (µG/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µG/L) (82666)	MALA- THION, DIS- SOLVED (µG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686)	METO- LACHLOR WATER DISSOLV (µG/L) (39415)	METRI- BUZIN WATER DISSOLV (µG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82684)	P, P' DDE DISSOLV (µG/L) (34653)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82683)
OCT 1999									
06...	<.004	<.002	<.005	<.001	.013	<.004	<.003	<.006	<.004
NOV									
03...	<.004	<.002	<.005	<.001	.009	<.004	<.003	<.006	<.004
DEC									
08...	<.004	<.002	<.005	<.001	.010	<.004	<.003	<.006	<.004
JAN 2000									
05...	<.004	<.002	<.005	<.001	.010	<.004	<.003	<.006	<.004
FEB									
03...	<.004	<.002	<.005	<.001	.008	<.004	<.003	<.006	<.004
MAR									
08...	<.004	<.002	<.005	<.001	.007	<.004	<.003	<.006	<.004
17...	<.004	<.002	<.005	<.001	.013	<.004	<.003	<.006	<.004
22...	<.004	<.002	<.005	<.001	.013	<.004	<.003	<.006	<.004
APR									
05...	<.004	<.002	<.005	<.001	.008	<.004	<.015	<.006	<.004
MAY									
03...	<.004	<.002	<.005	<.001	.010	<.004	<.003	<.006	<.004
03...	<.004	<.002	<.005	<.001	.009	<.004	<.003	<.006	<.004
22...	<.004	<.002	<.005	<.001	.081	<.004	<.003	<.006	.015
JUN									
28...	<.004	<.002	<.005	<.001	.087	<.004	<.003	<.006	.010
AUG									
01...	<.004	<.002	<.005	<.001	.017	<.004	<.003	<.006	<.004
28...	<.004	<.002	<.005	<.001	.007	<.004	<.003	<.006	<.004
SEP									
13...	<.004	<.002	<.005	<.001	.009	<.004	<.003	<.006	<.010
DATE	PRO- METON, WATER, DISS, REC (µG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82676)	PROPA- THION, WATER, DISS, REC (µG/L) (04024)	PRO- PANIL CHLOR, FLTRD 0.7 µ GF, REC (µG/L) (82679)	SI- MAZINE, WATER, DISS, REC (µG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µG/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82665)	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82661)
OCT 1999									
06...	E.002	<.003	<.007	<.004	.024	<.010	<.007	<.001	<.002
NOV									
03...	E.004	<.003	<.007	<.004	.016	<.010	<.007	<.001	<.002
DEC									
08...	<.018	<.003	<.007	<.004	.034	<.010	<.007	<.001	<.002
JAN 2000									
05...	E.005	<.003	<.007	<.004	.022	<.010	<.007	<.001	<.002
FEB									
03...	<.018	<.003	<.007	<.004	.015	<.010	<.007	<.001	.005
MAR									
08...	<.018	<.003	<.007	<.004	.019	<.010	<.007	<.001	<.002
17...	E.005	<.003	<.007	<.004	.013	<.010	<.007	<.001	E.001
22...	<.018	<.003	<.007	<.004	.024	<.010	<.007	<.001	<.002
APR									
05...	E.002	<.003	<.007	<.004	.124	<.010	<.007	<.001	<.002
MAY									
03...	<.018	<.003	<.007	<.004	.022	<.010	<.007	<.001	<.002
03...	<.018	<.003	<.007	<.004	.020	<.010	<.007	<.001	<.002
22...	<.018	<.003	<.007	<.004	.186	<.010	<.007	<.001	<.002
JUN									
28...	<.018	<.003	<.007	<.004	.048	<.010	<.007	<.001	<.002
AUG									
01...	<.018	<.003	<.007	<.004	.025	<.010	<.007	<.001	<.002
28...	<.018	<.003	<.007	<.004	.016	<.010	<.007	<.001	.005
SEP									
13...	<.018	<.003	<.007	<.004	.010	<.010	<.007	<.001	<.002

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATESREMARKS.--Samples were collected using a Hess sampler with a mesh size of 500 µm. Each sample covered a total area of 3.2 m².

Date	10/29/99
Benthic Macroinvertebrate	Count
Nematoda (Nematodes)	1
Nemertea (Proboscis Worms)	
Enopla	
Hoploneuridae	
Tetrastemmatidae	
<i>Prostoma</i>	4
Mollusca	
Gastropoda (Snails)	
Basommatophora	
Ancyliidae	
<i>Ferrissia</i>	8
Planorbidae	
<i>Gyraulus</i>	5
Mesogastropoda	
Hydrobiidae	
<i>Amnicola</i>	2
Annelida (Segmented Worms)	
Oligochaeta	6
Arthropoda	
Acariformes	
Hydrachnidia (Water Mites)	3
Crustacea	
Amphipoda (Scuds)	
Gammaridae	
<i>Gammarus</i>	2
Insecta	
Ephemeroptera (Mayflies)	
Baetidae	
<i>Baetis</i>	3
<i>Pseudocloeon</i>	2
Caenidae	
<i>Caenis</i>	29
Ephemerellidae	
<i>Eurylophella</i>	15
<i>Serratella</i>	71
Heptageniidae	
<i>Epeorus</i>	1
<i>Stenonema</i>	93
Isonychiidae	
<i>Isonychia</i>	44
Odonata (Dragonflies and Damselflies)	
Coenagrionidae	
<i>Argia</i>	7
Gomphidae	2
Cordulegastridae	
<i>Cordulegaster</i>	1
Plecoptera (Stoneflies)	
Capniidae	
<i>Allocapnia</i>	46
Perlidae	
<i>Acroneuria</i>	3
<i>Agnatina</i>	3
Taeniopterygidae	
<i>Taeniopteryx</i>	43

Date	10/29/99
Benthic Macroinvertebrate	Count
Megaloptera	
Corydalidae (Fishflies and Dobsonflies)	
<i>Corydalus</i>	1
Trichoptera (Caddisflies)	
Apataniidae	
<i>Apatania</i>	11
Brachycentridae	
<i>Micrasema</i>	12
Helicopsychidae	
<i>Helicopsyche</i>	2
Hydropsychidae	
<i>Cheumatopsyche</i>	122
<i>Diplectrona</i>	7
<i>Hydropsyche</i>	88
<i>Potomyia</i>	1
Hydroptilidae	
<i>Leucotrichia</i>	1
Philopotamidae	
<i>Chimarra</i>	61
Polycentropodidae	
<i>Neureclipsis</i>	1
<i>Polycentropus</i>	4
Uenoidae	
<i>Neophylax</i>	15
Coleoptera (Beetles)	
Elmidae (Riffle Beetles)	
<i>Ancyronyx</i>	16
<i>Dubiraphia</i>	5
<i>Optioservus</i>	34
<i>Oulimnius</i>	1
<i>Stenelmis</i>	10
Psephenidae (Water Pennies)	
<i>Psephenus</i>	13
Diptera (True Flies)	
Chironomidae (Midges)	180
Empididae (Dance Flies)	
<i>Hemerodromia</i>	2
Simuliidae (Black Flies)	
<i>Simulium</i>	8
Total count	989
Total number of taxa	45

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	JUNE			JULY			AUGUST			SEPTEMBER		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	23.0	18.5	20.5	25.0	22.0	23.0	23.5	21.0	22.0			
2	---	---	---	24.0	18.5	21.0	25.0	22.0	23.0	24.5	21.5	22.5			
3	---	---	---	23.5	19.5	21.5	24.0	22.0	23.0	24.0	22.0	22.5			
4	---	---	---	24.0	20.5	22.0	22.5	21.0	21.5	24.0	21.5	22.5			
5	---	---	---	25.5	21.0	23.0	23.0	19.5	21.0	21.5	17.5	19.5			
6	---	---	---	24.0	20.0	21.5	20.0	18.5	19.5	19.0	15.5	17.0			
7	---	---	---	23.0	19.5	21.0	23.5	19.5	21.5	18.5	14.5	16.5			
8	---	---	---	23.0	17.5	20.0	25.0	21.5	23.0	18.5	15.0	16.5			
9	---	---	---	23.0	17.5	20.5	25.5	22.5	23.5	20.5	17.0	18.5			
10	---	---	---	24.5	20.5	22.0	25.5	22.5	24.0	21.0	18.5	19.5			
11	---	---	---	25.0	21.0	22.5	23.0	21.5	22.5	21.0	19.0	20.0			
12	---	---	---	24.0	19.0	21.5	22.5	20.0	21.0	22.0	19.5	21.0			
13	---	---	---	23.5	19.0	21.0	20.0	19.0	19.5	21.5	19.5	20.5			
14	---	---	---	21.5	19.5	20.5	19.0	18.5	18.5	20.5	17.5	19.0			
15	---	---	---	21.0	19.5	20.0	22.0	18.0	19.5	19.0	17.5	18.5			
16	---	---	---	22.0	19.0	20.0	23.5	20.0	21.0	17.5	15.5	16.5			
17	---	---	---	22.5	19.0	20.5	22.0	18.5	20.0	17.0	14.0	15.5			
18	---	---	---	24.5	19.5	21.5	20.0	18.0	19.0	17.0	14.0	15.5			
19	---	---	---	21.5	18.5	19.5	20.5	17.0	18.5	16.5	15.5	16.0			
20	---	---	---	21.0	17.5	19.0	20.5	17.0	18.5	18.0	16.0	17.0			
21	---	---	---	22.5	17.5	20.0	20.0	15.5	17.5	19.5	17.0	18.0			
22	---	---	---	23.0	19.0	20.5	20.0	15.5	18.0	18.0	15.0	16.5			
23	---	---	---	22.5	18.5	20.0	19.0	17.5	18.5	16.0	15.0	15.5			
24	---	---	---	20.0	19.0	19.5	20.5	18.0	19.0	17.5	16.0	16.5			
25	---	---	---	21.0	18.0	19.5	22.0	17.5	19.5	16.5	14.0	15.5			
26	---	---	---	19.5	18.5	19.0	22.0	17.5	19.5	14.0	13.0	13.0			
27	---	---	---	20.0	18.5	19.0	21.5	18.5	20.0	14.0	12.0	13.0			
28	---	---	---	23.0	19.0	20.5	22.0	19.5	20.5	14.5	12.5	13.5			
29	22.5	19.5	20.5	22.5	20.5	21.5	20.5	20.0	20.0	13.5	11.5	12.0			
30	22.0	19.0	20.0	23.5	21.0	22.0	22.0	19.5	20.5	13.5	10.0	11.5			
31	---	---	---	25.0	21.5	23.0	22.5	20.5	21.0	---	---	---			
MONTH	22.5	19.0	20.0	25.5	17.5	21.0	25.5	15.5	20.5	24.5	10.0	17.5			