

SCHUYLKILL RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA

LOCATION.--Lat 40°24'48", long 76°10'19", Berks County, PA, Hydrologic Unit 02040203, on left bank 30 ft downstream from bridge at Kricks Mill, 0.4 mi upstream from Mill Creek, and 3.5 mi west of Bernville.

DRAINAGE AREA.--66.5 mi².

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water Quality Assessment Program (NAWQA).

Fish tissue, bed sediment, and fish community data for this site are presented on page 463. For the definitions of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality-control data" in the "Explanation of Records" section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLE TYPE	DIS-	BARO-	OXYGEN,		PH		TEMPER-	TEMPER-	TOTAL
			CHARGE, INST. CUBIC FEET PER SECOND	METRIC PRES- SURE (MM OF HG)	DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	WATER WHOLE FIELD (STAND- ARD UNITS)	SPE- CON- DUCT- ANCE (US/CM)			
			(00061)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)	
CAC03)											
(00900)											
OCT 1998											
26...	1535	ENVIRONMENTAL	40	761	116	12.3	8.3	559	19.0	12.5	270
DEC											
09...	1035	FIELD BLANK	--	--	--	--	--	--	--	--	--
09...	1040	ENVIRONMENTAL	45	765	103	12.0	8.3	563	9.0	9.0	260
JAN 1999											
12...	0915	ENVIRONMENTAL	74	754	96	13.3	8.2	593	- .5	1.5	270
FEB											
03...	0930	ENVIRONMENTAL	160	755	96	11.6	8.1	506	9.0	6.5	240
MAR											
03...	0930	ENVIRONMENTAL	101	747	107	12.9	8.2	563	9.5	6.5	270
23...	1150	ENVIRONMENTAL	150	757	113	13.6	8.2	532	9.5	7.0	250
APR											
07...	0930	ENVIRONMENTAL	86	755	107	11.6	8.2	568	17.0	11.0	260
22...	1059	FIELD BLANK	--	--	--	--	--	--	--	--	--
22...	1100	ENVIRONMENTAL	90	753	119	12.9	8.2	559	16.5	11.0	240
28...	0850	ENVIRONMENTAL	80	760	95	10.0	8.1	565	13.0	13.0	270
MAY											
05...	0900	ENVIRONMENTAL	69	753	94	9.3	8.1	569	22.0	15.5	270
11...	0830	ENVIRONMENTAL	66	761	89	8.8	8.1	570	15.5	15.5	260
18...	1420	ENVIRONMENTAL	59	755	119	11.1	8.3	576	28.0	18.5	260
26...	1230	ENVIRONMENTAL	46	748	102	9.9	8.1	550	24.5	16.0	270
JUN											
02...	0930	ENVIRONMENTAL	38	752	97	8.5	8.1	572	30.0	20.5	260
08...	0910	ENVIRONMENTAL	36	750	93	7.9	8.1	569	32.0	22.5	260
16...	0820	ENVIRONMENTAL	33	757	112	10.2	8.1	540	17.5	19.5	240
23...	0910	ENVIRONMENTAL	44	758	127	11.5	8.2	564	25.5	19.5	250
JUL											
01...	0910	ENVIRONMENTAL	40	755	--	--	8.3	572	22.0	21.5	270
07...	0800	ENVIRONMENTAL	37	759	--	--	8.0	574	28.5	--	260
15...	1130	ENVIRONMENTAL	33	757	102	9.2	8.2	576	30.5	20.0	260
20...	0900	ENVIRONMENTAL	33	754	86	7.2	8.1	576	27.0	23.5	250
AUG											
04...	1010	ENVIRONMENTAL	20	753	--	--	8.2	583	28.5	20.5	260
17...	0920	ENVIRONMENTAL	39	756	84	7.3	8.1	577	22.0	22.0	260
SEP											
01...	0830	ENVIRONMENTAL	29	758	--	--	8.2	588	22.0	17.5	260
16...	1450	ENVIRONMENTAL	520	718	97	8.8	8.1	332	17.5	17.5	130

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01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

SULFATE SOLVED DATE (MG/L SO4) (00945)	CALCIUM	MAGNE- SIUM,	POTAS- SIUM,	SODIUM,	ANC UNFLTRD TIT 4.5	ALKA- LINITY WAT DIS	BICAR- BONATE WATER	CAR- BONATE WATER	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	
	DIS- SOLVED (MG/L AS CA) (00915)	DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	LAB (MG/L AS CACO3) (90410)	TOT IT FIELD CACO3 (39086)	DIS IT FIELD HCO3 (00453)	DIS IT FIELD CO3 (00452)	DIS- SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (MG/L AS F) (00950)	SOLVED (MG/L AS SIO2) (00955)	DIS-
OCT 1998												
26...	73	20	3.1	10	212	193	236	--	21	.1	5.8	32
DEC												
09...	<.02	<.004	<.1	<.06	1.7	--	--	--	<.1	<.1	<.05	<.1
09...	71	20	3.5	11	207	196	224	7	21	<.1	6.4	31
JAN 1999												
12...	78	19	4.1	14	207	208	254	--	27	<.1	8.4	32
FEB												
03...	70	15	3.5	11	180	E170	E207	--	22	<.1	7.7	30
MAR												
03...	76	19	3.1	11	--	202	246	--	22	.1	4.5	31
23...	72	16	3.2	12	--	178	217	--	24	.1	7.0	30
APR												
07...	73	18	3.1	11	--	199	243	--	23	<.1	3.7	30
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	69	18	3.1	11	--	197	240	--	23	<.1	4.3	31
28...	77	19	3.0	11	--	E237	E289	--	23	.1	5.5	30
MAY												
05...	77	19	3.1	11	--	198	242	--	23	.1	6.2	31
11...	74	19	3.0	11	--	188	229	--	23	<.1	5.9	30
18...	71	19	2.9	11	--	191	223	5	23	.1	4.9	31
26...	76	19	3.3	11	--	194	237	--	23	<.1	7.2	32
JUN												
02...	72	20	3.2	12	--	204	249	--	23	<.1	6.8	33
08...	72	19	3.2	11	--	195	238	--	23	<.1	6.7	30
16...	68	18	4.1	12	--	185	226	--	24	.1	7.6	29
23...	68	19	3.4	12	--	E224	E273	--	27	<.1	6.2	30
JUL												
01...	74	21	3.4	12	--	183	223	--	24	.1	6.2	31
07...	69	20	3.9	13	--	200	244	--	27	<.1	5.8	29
15...	69	21	3.5	13	--	200	244	--	27	.1	6.2	30
20...	68	20	3.8	12	--	200	234	--	25	.1	6.2	31
AUG												
04...	66	22	3.5	13	--	200	244	--	25	<.1	6.6	30
17...	71	20	4.3	12	--	198	242	--	27	<.1	7.9	30
SEP												
01...	69	22	3.5	12	--	201	245	--	27	<.1	5.6	29
16...	39	9.2	5.4	6.1	--	100	122	--	13	<.1	6.4	25

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01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO- GEN, AMMONIA 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, TOTAL (MG/L AS N) (00600)	NITRO- GEN, NITRITE 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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
(70300)											
OCT 1998											
26...	.04	.2	.3	8.2	8.0	8.3	.10	.07	.07	.07	338
DEC											
09...	<.02	<.1	<.1	--	<.05	--	<.01	<.05	.01	<.05	<10
09...	.17	.4	.5	8.7	8.25	8.7	.12	.08	.07	.10	341
JAN 1999											
12...	.31	.5	.7	9.0	8.5	9.2	.03	.077	.06	.11	346
FEB											
03...	.25	.8	1.0	8.5	7.7	8.7	.05	.091	.08	.17	324
MAR											
03...	.05	.2	.4	8.8	8.5	8.9	.05	.015	.01	.045	333
23...	.08	.4	.5	8.2	7.7	8.3	.04	.038	.02	.076	322
APR											
07...	.07	.3	.4	7.4	7.1	7.5	.07	.03	.02	.054	336
22...	--	--	--	--	--	--	--	--	--	--	--
22...	.07	.3	.4	7.4	7.1	7.5	.07	.035	.03	.053	343
28...	.12	.4	.5	7.1	6.8	7.2	.10	.055	.05	.082	336
MAY											
05...	.16	.2	.6	7.4	7.2	7.8	.13	.067	.06	.11	356
11...	.14	.4	.6	7.8	7.5	8.1	.12	--	.07	.13	350
18...	.03	<.1	.4	--	7.4	7.8	.08	.056	.05	.089	324
26...	.08	.3	.4	9.0	8.7	9.2	.11	.091	.07	.12	347
JUN											
02...	.10	.4	.6	8.5	8.1	8.7	.13	.094	.09	.15	338
08...	.10	.4	.4	7.9	7.5	7.9	.10	.095	.09	.14	344
16...	.05	.4	.7	8.5	8.0	8.8	.11	.11	.09	.19	338
23...	.03	.3	.5	9.1	8.8	9.3	.08	.088	.08	.14	334
JUL											
01...	.03	.3	.4	8.4	8.1	8.5	.08	.093	.09	.14	345
07...	.02	.3	.6	8.0	7.7	8.3	.05	.11	.08	.15	344
15...	.03	.4	.4	7.7	7.2	7.7	.08	.084	.07	.12	340
20...	.04	.4	.5	8.3	7.8	8.4	.07	.094	.09	.13	323
AUG											
04...	.03	.3	.4	7.0	6.7	7.1	.03	.11	.10	.14	328
17...	.04	.2	.5	7.7	7.5	8.0	.07	.11	.08	.16	342
SEP											
01...	.02	.2	.4	8.1	7.8	8.3	.06	.079	.06	.096	338
16...	.24	.7	2.3	4.4	3.8	6.0	.06	.20	.17	1.0	196

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WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES. Selected samples were analyzed for volatile organic compounds (VOCs) on schedule 2020 (listed with minimum reporting levels in "Explanation of Records" section). Only VOCs identified by the analyses in one or more samples are listed in the water-quality tables.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

124-TRI				CARBON		1,1,1-		1,1-DI-		1,2,3-		BENZENE		BENZENE	
				DI-	SULFIDE	TRI-	ETHANE	ETHANE	CHLORO-	ACETONE	TRI-	123-TRI	1,2,4-	METHYL-	TRI-
DATE	TIME	SAMPLE	TYPE	WATER	CHLORO-	CHLORO-	ETHYL-	WATER	BENZENE	BENZENE	WATER	CHLORO-	CHLORO-	METHYL-	METHYL-
RECOVER				WHOLE	ETHANE	ETHANE	ENE	WHOLE	WAT,	WAT,	WH	UNFLTRD	WAT	UNF	UNFILT
				TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	REC	REC	REC	RECOVER	RECOVER	RECOVER
				(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
				(77041)	(34506)	(34496)	(34501)	(81552)	(77613)	(77221)	(34551)				
<p>(77222)</p> <p>FEB 1999</p> <p>03... 0930 ENVIRONMENTAL <.37 E.00856 <.066 <.044 <5 <.27 <.12 <.19</p> <p><.056</p> <p>MAR</p> <p>03... 0930 ENVIRONMENTAL <.37 <.032 <.066 <.044 <5 <.27 <.12 <.19</p> <p><.056</p> <p>APR</p> <p>07... 0930 ENVIRONMENTAL <.37 <.032 <.066 <.044 <5 <.27 <.12 <.19</p> <p><.056</p> <p>07... 1730 TRIP BLANK <.37 <.032 <.066 <.044 <5 <.27 <.12 <.19 <.056</p> <p>22... 1058 CANNISTER BLANK <.37 <.032 <.066 <.044 <5 <.27 <.12 <.19</p> <p><.056</p> <p>22... 1059 FIELD BLANK <.37 <.032 <.066 <.044 <5 <.27 <.12 <.19 <.056</p> <p>22... 1100 ENVIRONMENTAL <.37 <.032 <.066 <.044 <5 <.27 <.12 <.19</p> <p><.056</p> <p>JUN</p> <p>02... 0930 ENVIRONMENTAL <.37 <.032 <.066 <.044 E1.57 <.27 <.12 <.19</p> <p><.056</p> <p>JUL</p> <p>01... 0910 ENVIRONMENTAL <.37 <.032 <.066 <.044 <5 <.27 <.12 <.19</p> <p><.056</p> <p>AUG</p> <p>04... 1010 ENVIRONMENTAL <.37 <.032 <.066 <.044 <5 <.27 <.12 <.19</p> <p><.056</p> <p>SEP</p> <p>16... 1450 ENVIRONMENTAL <.07 <.032 <.066 <.04 E2.98 <.27 <.12 <.19</p> <p><.056</p>															
CHLORO-		BENZENE	BENZENE	BENZENE	ISO-	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE	BROMO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-
FORM		135-TRI	1,3-DI-	1,4-DI-	PROPYL-	N-BUTYL	N-PROPY	O-DI-							
DATE		METHYL	CHLORO-	CHLORO-	BENZENE	WATER	WATER	CHLORO-	BENZENE	TOTAL	FORM	BENZENE	TOTAL	TOTAL	TOTAL
(UG/L)		WATER	WATER	WATER	WHOLE	UNFLTRD	UNFLTRD	UNFLTRD	TOTAL	(UG/L)	BENZENE	BENZENE	BENZENE	BENZENE	METHANE
(32106)		UNFLTRD	UNFLTRD	UNFLTRD	REC	REC	REC	REC	REC	REC	REC	REC	REC	REC	REC
		REC	REC	REC	REC	REC	REC	REC	REC	REC	REC	REC	REC	REC	REC
		(77226)	(34566)	(34571)	(77223)	(77342)	(77224)	(34536)	(34030)	(32104)	(34301)	(32105)			
<p>FEB 1999</p> <p>03... <.044 <.054 <.05 <.032 <.19 <.042 <.048 E.0186 <.1 <.028 <.18</p> <p>E.00915</p> <p>MAR</p> <p>03... <.044 <.054 <.05 <.032 <.19 <.042 <.048 <.1 <.1 <.028 <.18 <.052</p> <p>APR</p> <p>07... <.044 <.054 <.05 <.032 <.19 <.042 <.048 <.1 <.1 <.028 <.18 <.052</p> <p>07... <.044 <.054 <.05 <.032 <.19 <.042 <.048 <.1 <.1 <.028 <.18 <.052</p> <p>22... <.044 <.054 <.05 <.032 <.19 <.042 <.048 <.1 <.1 <.028 <.18 <.052</p> <p>22... <.044 <.054 <.05 <.032 <.19 <.042 <.048 <.1 <.1 <.028 <.18 <.052</p> <p>22... <.044 <.054 <.05 <.032 <.19 <.042 <.048 <.1 <.1 <.028 <.18 <.052</p> <p>JUN</p> <p>02... <.044 <.054 <.05 <.032 <.19 <.042 <.048 E.00408 <.1 <.028 <.18 <.052</p> <p>JUL</p> <p>01... <.044 <.054 <.05 <.032 <.19 <.042 <.048 E.00699 <.1 <.028 <.18 <.052</p> <p>AUG</p> <p>04... <.044 <.054 <.05 <.032 <.19 <.042 <.048 <.1 <.1 <.028 <.18</p> <p>E.00837</p> <p>SEP</p> <p>16... <.044 <.054 <.05 <.032 <.19 <.042 <.048 E.0165 <.06 <.028 <.18</p> <p>E.0100</p>															
DATE		CIS-1,2	BROMO-	ETHER	ETHER		FURAN,	ISO-	METHYL						
		-DI-	DI-	ETHYL	TERT-		TETRA-	DURENE	TERT-						
		CHLORO-	CHLORO-	WATER	PENTYL		HYDRO-	WATER	BUTYL						
		ETHENE	METHANE	UNFLTRD	METHYL	ETHYL-	WATER	WATER	ETHER	CHLO-	METHYL-	METHYL-	METHYL-	METHYL-	METHYL-
		WATER	WATER	UNFLTRD	UNFLTRD	BENZENE	UNFLTRD	UNFLTRD	WAT UNF	RIDE	RIDE	RIDE	RIDE	RIDE	RIDE
		TOTAL	TOTAL	RECOVER	RECOVER	TOTAL	RECOVER	RECOVER	REC	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
		(77093)	(32101)	(81576)	(50005)	(34371)	(81607)	(50000)	(78032)	(34418)	(34423)				

(81595)

FEB 1999											
03...	<.038	<.048	<.17	<.11	<.03	<9	<.2	.172	<.25	<.38	<1.6
MAR											
03...	<.038	<.048	<.17	<.11	<.03	<9	<.2	<.17	<.25	<.38	<1.6
APR											
07...	<.038	<.048	<.17	<.11	<.03	<9	<.2	<.17	<.25	<.38	<1.6
07...	<.038	<.048	<.17	<.11	<.03	<9	<.2	<.17	<.25	<.38	<1.6
22...	<.038	<.048	<.17	<.11	<.03	<9	<.2	<.17	<.25	<.38	<1.6
22...	<.038	<.048	<.17	<.11	<.03	<9	<.2	<.17	<.25	<.38	<1.6
22...	<.038	<.048	<.17	<.11	<.03	<9	<.2	E.0622	<.25	<.38	<1.6
JUN											
02...	<.038	<.048	<.17	<.11	<.03	<9	<.2	<.17	E.0436	<.38	<1.6
JUL											
01...	<.038	<.048	<.17	<.11	<.03	<9	<.2	E.0465	<.25	<.38	<1.6
AUG											
04...	<.038	<.048	<.17	<.11	<.03	<9	<.2	<.17	<.25	<.38	<1.6
SEP											
16...	<.038	<.048	<.17	<.11	<.03	<2.2	<.2	<.17	<.5	<.38	<1.6

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01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	METHYL-ISO-BUTYL KETONE WAT.WH. (UG/L) (78133)	META/PARA-XYLENE WATER UNFLTRD (UG/L) (85795)	O-CHLORO-TOLUENE WATER WHOLE (UG/L) (77275)	O-XYLENE WATER WHOLE (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE (UG/L) (77356)	PREH-NITENE WATER UNFLTRD (UG/L) (49999)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD (UG/L) (77220)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34010)
FEB 1999										
03...	<.37	E.0151	<.042	<.06	<.11	<.23	<.042	E.0322	<.1	E.0503 E.0113
MAR										
03...	<.37	<.06	E.0108	<.06	<.11	<.23	<.042	E.0314	<.1	<.05 E.0105
APR										
07...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	E.0270	<.1	.103 <.038
07...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	<.1	<.1	<.05 <.038
22...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	<.1	<.1	<.05 <.038
22...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	<.1	<.1	<.05 <.038
22...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	E.0355	<.1	.108 <.038
JUN										
02...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	<.1	<.1	E.0759 E.00631
JUL										
01...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	E.0217	<.1	<.05 <.038
AUG										
04...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	E.0172	<.1	E.0804 <.038
SEP										
16...	<.37	<.06	<.042	<.038	E.0238	<.23	<.042	E.0235	<.06	E.0725 <.038

WATER-COLUMN PESTICIDE ANALYSES. Selected samples were analyzed for pesticides on schedules 2001 and LCAA (listed with minimum reporting levels in "Explanation of Records" section). Only pesticides identified by the analyses in one or more samples are listed in the water-quality tables.

DATE	TIME	SAMPLE TYPE	ACETO-CHLOR ESA FLTRD 0.7 UM GF REC (UG/L) (61029)	ACETO-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61030)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, OA FLTRD 0.7 UM GF REC (UG/L) (61031)	ALA-CHLOR, (ESA) WAT FLT REC (UG/L) (50009)	ALA-CHLOR, DISS, REC, (UG/L) (46342)	ATRA-ZINE, DISS, REC (UG/L) (39632)
DEC 1998									
09...	1040	ENVIRONMENTAL	--	--	<.002	--	--	<.002	.154
JAN 1999									
12...	0915	ENVIRONMENTAL	--	--	<.002	--	--	<.002	.150
FEB									
03...	0930	ENVIRONMENTAL	--	--	<.002	--	--	<.002	.126
MAR									
03...	0930	ENVIRONMENTAL	--	--	<.002	--	--	<.002	.137
23...	1150	ENVIRONMENTAL	.08	<.05	<.002	<.05	.460	<.002	.115
APR									
07...	0930	ENVIRONMENTAL	--	--	<.002	--	--	<.002	.142
22...	1059	FIELD BLANK	<.05	<.05	<.002	<.05	<.050	<.002	<.001
22...	1100	ENVIRONMENTAL	.08	<.05	<.002	<.05	.380	<.002	.119
28...	0850	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.460	<.002	.109
MAY									
05...	0900	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.640	<.002	.140
11...	0830	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.580	<.002	.212
18...	1420	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.240	<.002	.199
26...	1230	ENVIRONMENTAL	<.05	<.05	<.01	<.05	.810	<.005	.255
JUN									
02...	0930	ENVIRONMENTAL	<.05	<.05	<.002	<.05	<.050	<.002	.165
08...	0910	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.730	<.002	.168
16...	0820	ENVIRONMENTAL	<.05	<.05	.0125	<.05	1.05	.0738	.786
23...	0910	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.440	<.002	.220
JUL									
01...	0910	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.550	<.002	.175
07...	0800	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.370	<.002	.204
15...	1130	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.120	<.002	.168
20...	0900	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.130	<.002	.172
AUG									
04...	1010	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.070	<.002	.167
17...	0920	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.080	<.002	.175
SEP									
01...	0830	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.180	<.002	.156
16...	1450	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.150	<.002	.0639

SCHUYLKILL RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
	DEC 1998									
09...	<.002	<.003	<.003	<.004	<.004	<.002	E.194	<.002	<.001	<.002
JAN 1999										
12...	<.002	<.003	<.003	<.004	<.004	<.002	E.168	E.0021	<.001	<.002
FEB										
03...	<.002	<.003	<.003	<.004	<.004	<.002	E.145	E.0023	<.001	E.0026
MAR										
03...	<.002	<.003	<.003	<.004	<.004	<.002	E.104	<.002	<.001	<.002
23...	<.002	<.003	<.003	<.004	<.004	<.002	E.0941	<.002	<.001	E.0021
APR										
07...	<.002	<.003	<.003	<.004	<.004	<.002	E.145	<.002	<.001	E.0025
22...	<.002	<.003	<.003	<.004	<.004	<.002	E.138	<.002	<.001	<.002
22...	<.002	<.003	<.003	<.004	<.004	<.002	E.138	<.002	<.001	<.002
28...	<.002	<.003	<.003	<.004	<.004	<.002	E.110	<.002	<.001	<.002
MAY										
05...	<.002	<.003	<.003	<.004	<.004	<.002	E.178	<.002	<.001	<.002
11...	<.002	E.0079	<.003	<.004	<.004	<.002	E.192	<.002	<.001	<.002
18...	<.002	<.003	<.003	<.004	<.004	<.002	E.149	<.002	<.001	<.002
26...	<.002	E.0103	<.003	<.004	<.004	<.002	E.105	<.002	<.001	<.002
JUN										
02...	<.002	<.003	<.003	<.004	<.004	<.002	E.141	<.002	<.001	<.002
08...	<.002	<.003	<.003	<.004	<.004	<.002	E.102	<.002	<.001	<.002
16...	<.002	E.0098	E.0315	<.004	<.010	<.002	E.166	.0224	<.001	<.002
23...	<.002	<.003	<.030	<.004	<.004	<.002	E.164	<.002	<.001	<.002
JUL										
01...	<.002	E.0077	<.003	<.004	<.004	<.002	E.248	<.002	<.001	<.002
07...	<.002	E.0013	<.003	<.004	<.004	<.002	E.249	<.002	<.001	<.002
15...	<.002	<.003	<.003	<.004	<.004	<.002	E.258	<.002	<.001	<.002
20...	<.002	<.003	<.003	<.004	<.004	<.002	E.333	<.002	<.001	<.002
AUG										
04...	<.002	<.003	<.003	<.004	<.004	<.002	E.315	<.002	<.001	<.002
17...	<.002	<.020	<.040	<.004	<.004	<.002	E.244	.0484	<.001	<.002
SEP										
01...	<.002	<.003	<.003	<.004	<.004	<.002	E.205	<.002	<.001	<.002
16...	<.002	<.003	<.003	<.004	<.004	<.002	E.0656	<.002	<.001	<.002
DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLA- CHLOR ESA FLTRD 0.7 UM GF REC (UG/L) (61043)	METOLA- CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61044)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
DEC 1998										
09...	<.004	<.002	<.005	<.001	--	--	.0071	<.004	<.003	<.006
JAN 1999										
12...	<.004	<.002	<.005	<.001	--	--	.0122	<.004	<.003	<.006
FEB										
03...	<.004	<.002	<.005	<.001	--	--	.0221	<.004	<.003	<.006
MAR										
03...	<.004	<.002	<.005	<.001	--	--	.0114	<.004	<.003	<.006
23...	<.004	<.002	<.005	<.001	1.2	.13	.0103	<.004	<.003	<.006
APR										
07...	<.004	<.002	<.005	<.001	--	--	.0101	<.004	<.003	<.006
22...	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006
22...	<.004	<.002	<.005	<.001	.89	.09	.0138	<.004	<.003	<.006
28...	<.004	<.002	<.005	<.001	.58	.05	.0088	<.004	<.003	<.006
MAY										
05...	<.004	<.002	<.005	<.001	.83	<.05	.0187	<.004	<.003	<.006
11...	<.004	<.002	<.005	<.001	.88	<.05	.0217	<.004	<.003	<.006
18...	<.004	<.002	<.005	<.001	.82	<.05	.0148	<.004	<.010	<.006
26...	<.004	<.002	<.005	<.001	1.1	<.05	.0457	<.004	<.003	<.006
JUN										
02...	<.004	<.002	<.005	<.001	<.05	<.05	.0140	<.004	<.003	<.006
08...	<.004	<.002	<.005	<.001	1.15	<.05	.0143	<.004	<.003	<.006
16...	<.004	<.002	<.005	<.001	1.6	.28	1.03	<.004	<.003	<.006
23...	<.004	<.002	<.005	<.001	.74	.06	.0321	<.004	<.003	<.006
JUL										
01...	<.004	<.002	<.005	<.001	1.08	<.05	.0165	<.004	<.003	<.006
07...	<.004	<.002	<.005	<.001	1.0	<.05	.0124	<.004	<.003	<.006
15...	<.004	<.002	<.005	<.001	.36	<.05	.0141	<.004	<.003	<.006
20...	<.004	<.002	<.005	<.001	.37	<.05	.0124	<.004	<.003	<.006
AUG										
04...	<.004	<.002	<.005	<.001	.24	<.05	.0084	<.004	<.003	<.006
17...	<.004	E.110	<.005	<.001	.28	<.05	.0269	<.004	<.003	<.006
SEP										
01...	<.004	<.002	<.005	<.001	.44	<.05	.0082	<.004	<.003	<.006

16...	<.004	<.002	<.005	<.001	.13	.06	.0209	<.004	<.003	<.006
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SCHUYLKILL RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUTHYL- AZINE, WATER, DISS, REC (UG/L) (04022)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
DEC 1998									
09...	<.004	E.0109	<.003	<.004	.0122	E.0066	<.007	--	<.002
JAN 1999									
12...	<.004	E.0153	<.003	<.004	.0284	E.0067	<.007	--	<.002
FEB									
03...	<.004	E.0123	<.003	<.004	.0203	E.0048	<.007	--	<.002
MAR									
03...	<.004	E.0096	<.003	<.004	.0153	E.0092	<.007	--	<.002
23...	<.004	E.0118	<.003	<.004	.0147	<.0767	<.007	--	<.002
APR									
07...	<.004	E.0137	<.003	<.004	.0161	.0113	<.007	--	<.002
22...	<.004	<.018	<.003	<.004	<.005	<.010	<.007	--	<.002
22...	<.004	E.0128	<.003	<.004	.0139	<.0767	<.007	--	<.002
28...	<.004	E.0116	<.003	<.004	.0112	E.0042	<.007	--	<.002
MAY									
05...	<.004	E.0108	<.003	<.004	.0136	<.0767	<.007	--	<.002
11...	.0074	E.0125	<.003	<.004	.0155	.0100	<.007	--	<.002
18...	<.004	E.0179	<.003	<.004	.913	E.0014	<.007	--	<.002
26...	<.01	E.0138	<.003	<.004	1.19	E.0085	<.007	--	<.002
JUN									
02...	<.004	E.0133	<.003	<.004	.179	E.0016	<.007	<.005	<.002
08...	<.004	.0195	<.003	<.004	.0769	E.0114	<.007	--	<.002
16...	<.004	.0388	<.003	<.004	.0385	.0132	<.007	<.005	E.0040
23...	<.004	E.0148	<.003	<.004	.0315	<.010	<.007	--	<.002
JUL									
01...	<.004	E.0174	<.003	<.004	.0303	E.0123	<.007	<.005	<.002
07...	<.004	.0211	<.003	<.004	.0578	E.0127	<.007	--	<.002
15...	<.004	.0186	<.003	<.004	.0210	<.010	<.007	<.005	<.002
20...	<.004	.0220	<.003	<.004	.0286	E.0170	<.007	<.005	<.002
AUG									
04...	<.004	.0181	<.003	<.004	.0229	E.0069	<.007	--	<.002
17...	<.004	.0275	<.003	<.004	.0141	E.0056	<.007	--	<.002
SEP									
01...	<.004	E.0172	<.003	<.004	.0174	.0155	<.007	--	<.002
16...	<.004	<.018	<.003	<.004	.0112	<.010	<.007	--	<.002