

DELAWARE RIVER BASIN

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ

LOCATION.--Lat 39°44'28", long 75°15'33", Gloucester County, Hydrologic Unit 02040202, on right bank 25 ft downstream from County Bridge Route 607 on Gibbstown-Harrisonville Road (Tomlin Station Road), 1.8 mi west of Mullica Hill, and 2.8 mi east of Swedesboro.

DRAINAGE AREA.--26.9 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1965 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: June 1966 to September 1969.

WATER TEMPERATURE: May 1966 to September 1973; October 1998 to September 1999.

INSTRUMENTATION.--

TEMPERATURE DATA LOGGER (in situ system at gage, measurements recorded every 15 or 30 minutes).

REMARKS.--Streambed sediment samples were collected during low-flow conditions to determine concentrations of trace metals and hydrophobic organic compounds. The bed sediment sample is a composite of the top 1-2 centimeters of material from at least 5 depositional areas within the stream reach. More information regarding methods can be found in Shelton and Capel, 1994, Guidelines for collecting and processing samples of stream bed sediments for analysis of trace elements and organic contaminants for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 94-458, 20 p. Fish tissue samples were collected to determine occurrence and concentrations of trace metals and organochlorine compounds. The sample for organochlorine analysis consisted of a composite of whole white suckers (*Catostomus commersoni*). The sample for trace metals consisted of a composite of livers from white suckers. More information regarding methods can be found in Crawford and Luoma, 1993, Guidelines for studies of contaminants in biological tissues for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 92-494, 69 p. Fish tissue, bed sediment, and fish community data for this site and other sites are presented in the section entitled "Water Quality at Miscellaneous Sites."

EXTREMES FOR CURRENT WATER YEAR.--

WATER TEMPERATURE: maximum, 27.5°C, July 6; minimum, 0.0°C, Dec. 27, Jan. 2, 6, and 8.

COOPERATION.--Field data and samples for laboratory analyses on dates: 12-8, 1-28, 5-20, and 8-11, were provided by the New Jersey Department of Environmental Protection. Determination of dissolved nitrite, total ammonia, dissolved ammonia, and BOD on those dates were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories. Other field data and samples for laboratory analyses were provided by the Delaware River Basin National Water-Quality Assessment Program.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 18.

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

SOLVED DATE	TIME	DIS-CHARGE, INST. CUBIC FEET	BARO-METRIC PRES-SURE (MM HG)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS CA)	
		(00061)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)	(00900)	(00915)	
NOV 1998												
05...	1030	12	760	85	10.0	7.3	249	11.5	7.5	76	24	4.0
DEC												
03...	1045	15	762	92	10.7	7.3	241	17.5	8.5	78	25	4.1
08...	1145	15	765	95	10.0	7.0	224	--	12.0	73	23	3.6
JAN 1999												
07...	1040	21	768	93	13.0	7.3	241	1.0	2.0	70	21	4.2
28...	1000	27	759	90	11.4	7.7	222	--	5.0	69	21	4.0
FEB												
04...	1005	29	759	91	11.1	7.1	214	9.0	6.5	65	20	3.9
MAR												
02...	1020	32	757	105	13.2	7.3	199	9.0	5.5	60	18	3.7
APR												
12...	1000	95	762	91	10.4	7.1	153	9.0	9.5	50	15	3.1
MAY												
04...	1025	25	760	100	10.3	7.3	219	18.0	14.0	68	21	3.9
20...	0930	58	761	76	7.6	7.3	189	--	15.5	59	18	3.3
JUN												
02...	1045	16	761	82	7.3	7.3	225	33.0	21.0	66	20	3.9
29...	0950	12	752	--	--	7.4	234	28.5	--	69	21	3.8
AUG												
03...	0950	7.0	765	79	7.0	7.4	303	25.0	21.0	76	24	3.9
11...	0830	7.7	759	65	5.9	7.4	294	--	20.0	80	25	4.2
SEP												
07...	1120	79	759	73	6.2	7.1	205	--	22.5	58	19	2.8
13...	1240	14	766	56	5.1	7.3	260	26.0	20.0	75	23	4.3
16...	1610	1220	742	--	--	6.8	88	20.0	--	23	6.7	1.4

DELAWARE RIVER BASIN

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

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

GEN,AM- MONIA + ORGANIC DATE (MG/L)	POTAS-	ANC	ALKA-	ANC	BICAR-	CHLO-	FLUO-	SILICA,	NITRO-	NITRO-		
	SIUM,	SODIUM,	TIT 4.5	WAT DIS	UNFLTRD	WATER	RIDE,	RIDE,	DIS-	SULFATE	AMMONIA	
	DIS-	DIS-	LAB	TOT IT	FET	DIS IT	DIS-	DIS-	SOLVED	DIS-	DIS-	
	SOLVED (MG/L)	SOLVED (MG/L)	(MG/L AS	FIELD MG/L AS	FIELD MG/L AS	FIELD MG/L AS	SOLVED (MG/L)	SOLVED (MG/L)	(MG/L AS	SOLVED (MG/L)	SOLVED (MG/L)	DIS. DIS.
AS K)	AS NA)	CACO3)	CACO3	CACO3	HCO3	AS CL)	AS F)	SIO2)	AS SO4)	AS N)	AS N)	
(00935)	(00930)	(90410)	(39086)	(00410)	(00453)	(00940)	(00950)	(00955)	(00945)	(00608)		
(00623)												
NOV 1998												
05...	4.6	13	50	49	51	60	22	.2	11	24	.35	.6
DEC												
03...	4.2	13	47	45	45	55	22	.2	12	24	.32	.4
08...	3.9	8.5	47	--	--	--	17	.2	12	24	<.03	.3
JAN 1999												
07...	4.5	12	32	33	--	41	22	.2	10	32	.44	.6
28...	3.6	11	27	--	--	--	20	.2	11	33	.16	.4
FEB												
04...	3.5	11	27	26	--	32	19	.2	9.6	31	.14	.3
MAR												
02...	3.4	9.6	--	24	--	30	18	.2	8.5	29	.25	.4
APR												
12...	3.2	7.2	--	22	--	27	13	.1	6.8	24	.13	.6
MAY												
04...	3.5	11	--	33	--	40	19	.2	7.5	27	.22	.4
20...	3.2	8.2	34	--	--	--	15	.2	9.1	22	.24	.5
JUN												
02...	4.1	13	--	39	--	48	22	.2	9.9	23	.32	.5
29...	4.1	15	--	47	--	57	23	.2	9.7	21	.19	.4
AUG												
03...	5.7	26	--	63	--	77	33	.3	13	18	.22	.3
11...	5.2	22	59	--	--	--	31	.3	11	20	.23	.6
SEP												
07...	4.7	10	--	28	--	34	17	.2	8.6	32	.11	.6
13...	4.8	18	--	43	--	52	26	.2	11	28	.06	.3
16...	4.2	3.5	--	10	--	12	6.2	.1	3.7	13	.11	.6

DATE	NITRO-	NITRO-	NITRO-	NITRO-	NITRO-	NITRO-	PHOS-	PHOS-	PHOS-	PHOS-	OXYGEN	UV
	GEN,AM-	NITRO-	NITRO-	GEN,	NITRO-	NITRO-	PHOS-	PHORUS	PHORUS	PHORUS	DEMAND,	ABSORB-
	MONIA +	GEN,	GEN	NO2+NO3	GEN,	GEN,	PHORUS	DIS-	DIS-	DIS-	BIO-	ANCE
	ORGANIC	AMMONIA	DIS-	DIS-	GEN,	GEN,	DIS-	DIS-	DIS-	PHORUS	CHEM-	254 NM,
TOTAL	TOTAL	SOLVED	SOLVED	TOTAL	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	TOTAL	ICAL,	WTR FLT
(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	5 DAY	(UNITS
AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS P)	AS P)	(MG/L)	/CM)
(00625)	(00610)	(00602)	(00631)	(00600)	(00613)	(00666)	(00671)	(00665)	(00310)			
(50624)												
NOV 1998												
05...	.6	--	1.8	1.2	1.8	.03	<.05	.01	.10	--	--	--
DEC												
03...	.5	--	1.5	1.1	1.7	.02	<.05	.02	.10	--	--	--
08...	.4	<.03	1.1	.82	1.2	.017	<.05	--	.08	3.5	.055	--
JAN 1999												
07...	.7	--	2.3	1.7	2.4	<.01	.026	.02	.14	--	--	--
28...	.5	.19	1.7	1.3	1.8	.038	<.05	--	.08	E1.1	.125	--
FEB												
04...	.5	--	1.8	1.4	1.9	.05	.024	.03	.12	--	--	--
MAR												
02...	.6	--	2.1	1.7	2.2	.03	.013	<.01	.078	--	--	--
APR												
12...	.9	--	1.4	.78	1.6	<.01	.045	.04	.19	--	--	--
MAY												
04...	.6	--	1.7	1.3	1.9	.03	.041	.04	.12	--	--	--
20...	.8	.26	1.4	.89	1.7	.030	E.04	--	.25	E2.0	.217	--
JUN												
02...	.7	--	1.8	1.2	1.9	.09	.089	.09	.20	--	--	--
29...	.6	--	1.5	1.1	1.7	.08	.12	.11	.26	--	--	--
AUG												
03...	.6	--	2.0	1.7	2.3	.12	.197	.18	.31	--	--	--
11...	.7	.22	2.2	1.6	2.3	.174	.17	--	.30	E1.1	.111	--
SEP												
07...	1.1	--	1.4	.70	1.8	.02	.12	.09	.51	--	--	--
13...	.4	--	1.7	1.4	1.8	.02	.14	.13	.22	--	--	--
16...	1.1	--	1.1	.55	1.6	.01	.096	.09	.62	--	--	--

DELAWARE RIVER BASIN

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

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

DATE	RESIDUE TOTAL DEG. C, SUS- PENDEDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	TUR-BID- FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS- SOLVED (UG/L) AS B) (01020)	IRON, DIS- SOLVED (UG/L) AS FE) (01046)	NESE, DIS- SOLVED (UG/L) AS MN) (01056)	MANGA- ORGANIC DIS- SOLVED (MG/L) AS C) (00681)	CARBON, ORGANIC PENDEDED TOTAL (MG/L) AS C) (00689)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDEDED (MG/L)
(80154)											
NOV 1998											
05...	--	149	138	4	72.1	54	64	2.4	.3	.19	6
DEC 03...	--	147	136	6	64.9	330	77	2.2	.4	.34	8
08...	<1	141	124	--	36.4	--	--	2.5	.4	--	--
JAN 1999											
07...	--	144	136	9	45.1	490	96	2.6	.4	.53	9
28...	7	137	126	--	39.1	--	--	3.3	1.3	--	--
FEB 04...	--	135	121	10	41.3	360	56	3.4	.5	.96	12
MAR 02...	--	123	112	10	36.6	160	48	3.1	.4	.66	8
APR 12...	--	106	89	30	28.3	340	44	5.7	2.3	5.7	22
MAY 04...	--	139	119	6	44.1	410	43	2.8	.6	.68	10
20...	21	116	104	--	28.8	--	--	5.6	--	--	--
JUN 02...	--	162	127	--	64.3	570	52	3.5	.6	.49	11
29...	--	140	132	--	68.3	430	39	3.2	.6	.31	10
AUG 03...	--	183	171	6	118	200	42	3.5	<.2	.08	4
11...	<1	170	163	--	107	--	--	3.1	.3	--	--
SEP 07...	--	134	115	--	59.8	210	71	7.6	3.0	12	58
13...	--	161	150	12	84.4	430	44	3.9	.2	.22	6
16...	--	65	49	--	31.3	430	49	7.3	>4.0	461	140

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.

DATE	TIME	CARBON DI-SULFIDE WATER WHOLE (UG/L) (77041)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	ACETONE WATER WHOLE (UG/L) (81552)	1,2,3-TRI-CHLORO BENZENE WAT, WH UNFLTRD REC (UG/L) (77613)	BENZENE 123-TRI-METHYL-WATER UNFLTRD REC (UG/L) (77221)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI-METHYL UNFILT REC (UG/L) (77222)	BENZENE 135-TRI-METHYL WATER UNFLTRD REC (UG/L) (77226)
DEC 1998											
03...	1045	<.37	<.032	<.066	<.044	<5	<.27	<.12	<.19	<.056	<.044
SEP 1999											
07...	1120	<.74	<.064	<.132	<.088	<10	<.54	<.24	<.38	<.112	<.088
16...	1610	E.0294	<.032	<.066	<.044	E4.09	<.27	<.12	<.19	<.056	<.044

DATE	TIME	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE UNFLTRD REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPYL WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BROMO-BENZENE TOTAL (UG/L) (34030)	CHLORO-BENZENE TOTAL (UG/L) (32104)	BROMO-METHANE TOTAL (UG/L) (34301)	CHLORO-FORM TOTAL (UG/L) (32105)
(32106)											
DEC 1998											
03...	<.054	E.013	<.032	<.19	<.042	<.048	<.1	<.1	<.028	<.18	<.052
SEP 1999											
07...	<.108	<.1	<.064	<.38	<.084	<.096	<.2	<.2	<.056	<.36	<.104
16...	<.054	<.05	<.032	<.19	<.042	<.048	<.1	<.1	<.028	<.18	<.052

DATE	TIME	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE (UG/L) (32101)	ETHER WATER UNFLTRD REC (UG/L) (81576)	ETHER TERT-PENTYL METHYL WATER UNFLTRD REC (UG/L) (50005)	BENZENE ETHYL-WATER UNFLTRD REC (UG/L) (34371)	FURAN, TETRA-HYDRO-WATER UNFLTRD REC (UG/L) (81607)	ISO-DURENE WATER UNFLTRD REC (UG/L) (50000)	METHYL-TERT-BUTYL ETHER CHLO-RIDE TOTAL (UG/L) (78032)	METHYL-ENE CHLO-RIDE TOTAL (UG/L) (34418)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (34423)
(81595)											
DEC 1998											
03...	<.038	<.048	<.17	<.11	<.03	<9	<.2	<.170	<.25	<.38	<1.6
SEP 1999											
07...	<.076	<.096	<.34	<.22	<.06	<18	<.4	<.34	<.5	<.76	<3.2

16... <.038 <.048 <.17 <.11 <.03 <9 <.2 E.0932 <.25 <.38 <1.6

DELAWARE RIVER BASIN

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

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

DATE	METHYL-ISO-BUTYL KETONE WAT.WH. (UG/L)	METHYL-PARA-XYLENE UNFLTRD REC (UG/L)	O-CHLORO-TOLUENE WHOLE (UG/L)	O-XYLENE WHOLE (UG/L)	P-ISO-PROPYL-TOLUENE WHOLE (UG/L)	PREH-NITENE UNFLTRD RECOVER (UG/L)	STYRENE TOTAL (UG/L)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L)	TOLUENE O-ETHYL UNFLTRD RECOVER (UG/L)	TOLUENE TOTAL (UG/L)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L)
(39180)	(78133)	(85795)	(77275)	(77135)	(77356)	(49999)	(77128)	(34475)	(77220)	(34010)	
DEC 1998											
03...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	<.1	<.1	<.05	<.038
SEP 1999											
07...	<.74	<.12	<.084	<.12	<.22	<.46	<.084	<.2	<.2	<.05	<.076
16...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	<.1	<.1	<.05	<.038

WATER-COLUMN PESTICIDE ANALYSES. Selected samples were analyzed for pesticides on schedule 2001 (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	ACETO-CHLOR, WATER, FLTRD REC (UG/L)	ALA-CHLOR, WATER, DISS, REC (UG/L)	ATRA-ZINE, WATER, DISS, REC (UG/L)	BEN-FLUR-ALIN, WAT FLD 0.7 U GF, REC (UG/L)	CAR-BARYL WATER, FLTRD 0.7 U GF, REC (UG/L)	CARBO-FURAN WATER, FLTRD 0.7 U GF, REC (UG/L)	CHLOR-PYRIFOS, DIS-SOLVED (UG/L)	CYANA-ZINE, WATER, DISS, REC (UG/L)	DCPA WATER, FLTRD 0.7 U GF, REC (UG/L)
		(49260)	(46342)	(39632)	(82673)	(82680)	(82674)	(38933)	(04041)	(82682)
JAN 1999										
07...	1040	<.002	E.0026	.0041	<.002	<.003	<.003	<.004	<.004	<.002
FEB										
04...	1005	<.002	<.002	.0071	<.002	<.003	<.003	<.004	<.004	<.002
MAR										
02...	1020	<.002	<.002	.0068	<.002	<.003	<.003	<.004	<.004	<.002
APR										
12...	1000	<.002	<.002	.0149	<.002	<.003	<.003	.0090	<.004	<.002
MAY										
04...	1025	<.002	<.002	.0058	<.002	<.003	<.003	<.004	<.004	<.002
JUN										
02...	1045	<.002	<.002	.0727	<.002	E.143	<.003	<.004	.0487	<.002
29...	0950	<.002	<.002	.0177	<.002	E.0046	<.003	<.004	.0120	<.002
AUG										
03...	0950	<.002	<.002	.0094	<.002	E.0091	E.0083	<.004	<.004	<.002
SEP										
07...	1120	<.002	<.002	.0097	<.002	E.0153	<.003	.0081	<.004	<.002
13...	1240	<.002	<.002	.0077	<.002	<.003	<.003	<.004	<.004	<.002
16...	1610	<.002	.0178	.0240	<.002	E.0789	<.003	<.004	<.004	<.002

DATE	DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L)	DI-AZINON, DIS-SOLVED (UG/L)	DI-ELDRIN, DIS-SOLVED (UG/L)	EPTC WATER, FLTRD 0.7 U GF, REC (UG/L)	LINDANE DIS-SOLVED (UG/L)	LIN-URON WATER, FLTRD 0.7 U GF, REC (UG/L)	MALA-THION, DIS-SOLVED (UG/L)	METHYL-AZIN-PHOS, WAT FLT 0.7 U GF, REC (UG/L)	METO-LACHLOR WATER, DISSOLV (UG/L)	METRI-BUZIN SENCOR WATER, DISSOLV (UG/L)
	(04040)	(39572)	(39381)	(82668)	(39341)	(82666)	(39532)	(82686)	(39415)	(82630)
JAN 1999										
07...	<.002	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0125	<.004
FEB										
04...	E.0030	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0185	<.004
MAR										
02...	E.0028	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0167	<.004
APR										
12...	E.0055	.0534	<.001	.0095	<.004	<.002	<.005	<.001	.0267	<.004
MAY										
04...	<.002	E.0034	<.001	<.002	<.004	<.002	<.005	<.001	.0254	<.004
JUN										
02...	E.0052	.0057	<.001	<.002	<.004	<.002	<.005	E.0109	.113	<.004
29...	E.0050	E.0032	<.001	<.002	<.004	<.002	<.005	<.001	.0325	<.004
AUG										
03...	E.0038	.0078	<.001	<.002	<.004	<.002	<.005	<.001	.0281	<.004
SEP										
07...	E.0053	.360	<.001	<.002	<.004	<.002	<.005	<.001	.0268	<.004
13...	<.002	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0436	<.004
16...	E.0089	.360	<.001	<.002	<.004	<.002	<.005	E.0185	.0754	<.004



URANIUM		SILVER	STRON- TIUM	TANTA- LUM	TITA- NIUM, SED, BM	VANA- DIUM	YTTER- BIUM	YTTRIUM	ZINC	CARBON, ORGANIC SED, BM	THORIUM
MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	WS, <63U	BOT MAT	BOT MAT	BOT MAT	BOT MAT	WS, <63U	BOT
WS	<63U WS	<63U WS	<63U WS	<63U WS	DRY WGT	<63U WS	<63U WS	<63U WS	<63U WS	DW, REC	<63U
FIELD	DATE	FIELD	FIELD	FIELD	REC	FIELD	FIELD	FIELD	FIELD	(PER-	FIELD
G)	(UG/G)	(UG/G)	(UG/G)	(UG/G)	PERCENT	(UG/G)	(UG/G)	(UG/G)	(UG/G)	CENT)	(UG/
(35000)	(34955)	(34965)	(34975)	(34985)	(49274)	(35005)	(35015)	(35010)	(35020)	(49266)	(34980)

AUG 1998	17...	1.0	89	1	5	.531	120	3	30	300	5.52	10
7.5												

DATE	CARBON, INORG, SED, BM WS, <2MM DW, REC (G/KG) (49270)	CARBON, ORG + INORG SED, BM WS, <2MM DW, REC (G/KG) (49272)	CARBON, ORGANIC SED, BM WS, <2MM DW, REC (G/KG) (49271)	2,2'-BI QUINO- LINE, SED, BM WS, <2MM DW, REC (UG/KG) (49391)	3,5- XYLENOL SED, BM WS, <2MM DW, REC (UG/KG) (49421)	4-BROMO PHNPHNL ETHER SED, BM WS, <2MM DW, REC (UG/KG) (49454)	4CHLORO PHNPHN LETHER SED, BM WS, <2MM DW, REC (UG/KG) (49455)	4HCYPEN PHENAN THRENE SED, BM WS, <2MM DW, REC (UG/KG) (49411)	9,10- ANTHRA- QUINONE SED, BM WS, <2MM DW, REC (UG/KG) (49437)
AUG 1998	17...	<.100	31.0	31.0	<50	<50	<50	<50	<50

DELAWARE RIVER BASIN

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

DATE	TIME	9H-FLU-					ACRI-DINE	ALPHA-BHC,					ANTHRA-CENE,2-			ANTHRA-CENE	AZO-BENZENE
		ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG)	9H-FLU- ORENE SED, BM WS,<2MM DW, REC (UG/KG)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG)	ACRI- DINE SED, BM WS,<2MM DW, REC (UG/KG)		ALDRIN, BHC, SED, BM WS,<2MM DW, REC (UG/KG)	ALPHA- BHC, SED, BM WS,<2MM DW, REC (UG/KG)	ALPHA- BHC, SED, BM WS,<2MM DW, REC (UG/KG)	ALPHA- BHC, SED, BM WS,<2MM DW, REC (UG/KG)	ALPHA- BHC, SED, BM WS,<2MM DW, REC (UG/KG)	ALPHA- BHC, SED, BM WS,<2MM DW, REC (UG/KG)	ANTHRA- CENE,2- SED, BM WS,<2MM DW, REC (UG/KG)	ANTHRA- CENE,2- SED, BM WS,<2MM DW, REC (UG/KG)		
AUG 1998	17...	1300	<50	<50	<50	E13	<50	<1.00	<1.20	<50	E15	<50					
DATE																	
AUG 1998	17...	E40	<50	<1.00	<50	<50	<50	<50	<50	E44	E43						
DATE																	
AUG 1998	17...	E36	E46	<50	<1.00	<50	<5.00	E47	<1.00	<1.00							
DATE																	
CHLOR,																	
SED, BM																	
WS,<2MM																	
REC																	
(UG/KG)																	
(49341)																	
AUG 1998	17...	<5.00	<5.00	<50	3.40	<50	<50	<1.10	<2.00	68	<1.50	<1.00					
DATE																	
DIMETHYL																	
SED, BM																	
WS,<2MM																	
REC																	
(UG/KG)																	
(49403)																	
AUG 1998	17...	E38	<1.00	<50	<50	<1.50	<50	<50	<5.00	<5.00	<1.00	<50					
DATE																	
NAPHTHAL																	
ENE,16																	
DIMETHYL																	
TRIMETH																	
SED, BM																	
WS,<2MM																	
DW, REC																	
(UG/KG)																	
(49404)																	
(49405)																	
(49406)																	
(49407)																	
(49948)																	
(49402)																	
(49325)																	
(49327)																	
(49329)																	
(49318)																	
AUG 1998	17...	<50	<50	E19	<50	<50.0	<50	2.50	<1.70	<2.00	<1.50						



	P, P'- DDD, SED, BM	P, P'- DDE, SED, BM	P, P'- DDT, SED, BM	PCB, SED, BM	P- CRESOL SED, BM	PENTA- CHLORO- ANISOLE SED, BM	PHENAN THRENE 1METHYL SED, BM	PHENAN THRENE SED, BM	PHENAN- THRI- DINE SED, BM	PHENOL C8- ALKYL- SED, BM	PHENOL, 2CHLORO BED MAT WS	
<2MM	WS, <2MM	WS, <2MM	WS, <2MM	WS, <2MM	WS, <2MM	WS, <2MM	WS, <2MM	WS, <2MM	WS, <2MM	WS, <2MM	WS, <2MM	DRY
WGT	DW, REC (UG/KG)	DW, REC (UG/KG)	DW, REC (UG/KG)	DW, REC (UG/KG)	DW, REC (UG/KG)	DW, REC (UG/KG)	DW, REC (UG/KG)	DW, REC (UG/KG)	DW, REC (UG/KG)	DW, REC (UG/KG)	DW, REC (UG/KG)	REC (UG/KG)
(49467)	(49326)	(49328)	(49330)	(49459)	(49451)	(49460)	(49410)	(49409)	(49393)	(49424)		
AUG 1998												
17...	12.0	15.0	8.90	<50	<50	<1.0	<50	E29	<50	<50	<50	

DELAWARE RIVER BASIN

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

DATE	PHENOL SED, BM WS, <2MM DW, REC (UG/KG)	PHTHALA TE, BIS2 SED, BM WS, <2MM DW, REC (UG/KG)	PHTHALA TEBUTYL SED, BM WS, <2MM DW, REC (UG/KG)	PHTHAL- ATE, SED, BM WS, <2MM DW, REC (UG/KG)	PHTHAL- ATE, D SED, BM WS, <2MM DW, REC (UG/KG)	PHTHAL- ATE, DI- SED, BM WS, <2MM DW, REC (UG/KG)	PHTHAL ATE, D SED, BM WS, <2MM DW, REC (UG/KG)	PYRENE, 1- SED, BM WS, <2MM DW, REC (UG/KG)	PYRENE, METHYL, SED, BM WS, <2MM DW, REC (UG/KG)	QUINO- LINE, SED, BM WS, <2MM DW, REC (UG/KG)
AUG 1998 17...	E10	130	E20	E29	<50	<50	<50	E7.2	67	<50

DATE	THIOPH ENE, DI- BENZO- SED, BM WS, <2MM DW, REC (UG/KG)	TOLUENE 2,4-DI- NITRO- SED, BM WS, <2MM DW, REC (UG/KG)	TOLUENE 2,6-DI- NITRO- SED, BM WS, <2MM DW, REC (UG/KG)	TOXA- PHENE SED, BM WS, <2MM DW, REC (UG/KG)	TRANS- CHLOR- DANE, SED, BM WS, <2MM DW, REC (UG/KG)	TRANS- NONA- CHLOR, SED, BM WS, <2MM DW, REC (UG/KG)	TRANS- PER- METHRIN SED, BM WS, <2MM DW, REC (UG/KG)	BED MAT. SIEVE DIAM. % FINER THAN (UG/KG)
AUG 1998 17...	<50	<50	<50	<200	<1.00	<1.00	<5.00	27

ANALYSIS OF TRACE ELEMENTS AND ORGANOCHLORINE COMPOUNDS IN FISH TISSUE, CALENDAR YEAR 1998

DATE	TIME	SPECIES	TOTAL LENGTH, MEDIAN (MM)	TOTAL LENGTH, MIN MAX (MM)	WEIGHT, MEDIAN (GM)	WEIGHT, MIN MAX (GM)	NUMBER IN COMPOSITE				
SEP 1998 02...	1135	WHITE SUCKER	314	262 336	314	188 425	8				
(49241)											
SEP 1998 02...	78	1.9	<1.0	<1.0	5.4	<1.0	.8	1.6	.5	<1.0	68
URANIUM BIOTA, TISSUE, WGT DRY WGT REC DATE G (UG/G)											
(49257)											
SEP 1998 02...	1500	<1.0	6.7	<.1	1.0	<1.0	6.6	<1.0	.3	<1.0	160

DATE	TIME	SPECIES	TOTAL LENGTH, MEDIAN (MM)	TOTAL LENGTH, MIN MAX (MM)	WEIGHT, MEDIAN (GM)	WEIGHT, MIN MAX (GM)	NUMBER IN COMPOSITE			
SEP 1998 02...	1130	WHITE SUCKER	316	262 392	314	183 589	8			
DATE										
		AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	AGENCY COL- LECTING SAMPLE (CODE NUMBER)	ALDRIN, BIOTA, WH ORG WW, REC (UG/KG)	ALPHA- BHC, BIOTA, WH ORG WW, REC (UG/KG)	BENZENE HEXA- CHLORO- BIOTA, WH ORG WW, REC (UG/KG)	BETA- BHC, BIOTA, WH ORG WW, REC (UG/KG)	CIS- CHLOR- DANE, BIOTA, WH ORG WW, REC (UG/KG)	CIS- NONA- CHLOR, BIOTA, WH ORG WW, REC (UG/KG)	DCPA, BIOTA, WH ORG WW, REC (UG/KG)
		(00028)	(00027)	(49353)	(49366)	(49367)	(49365)	(49380)	(49359)	(49378)

SEP 1998												
02...												
80020 1028 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00												
O,P'-												
DELTA- DIEL- HEPTA- HEPTA- METHOXY METHOXY												
CHLOR CHLOR, CHLOR,												
O,P'-												
DDE, BHC, DRIN, ENDRIN, EPOXIDE CHLOR, LINDANE LIPIDS, O,P'-, P,P'-, MIREX, DDD,												
BIOTA, BIOTA, BIOTA, BIOTA, BIOTA, BIOTA, BIOTA, BIOTA, BIOTA, BIOTA, BIOTA, BIOTA,												
WH ORG WH ORG WH ORG WH ORG WH ORG WH ORG WH ORG WH ORG WH ORG WH ORG WH ORG WH ORG												
DATE WW, REC WW, REC WW, REC WW, REC WW, REC WW, REC WW, REC WW, REC WW, REC WW,												
REC WW, REC (UG/KG) (UG/KG) (UG/KG) (UG/KG) (UG/KG) (UG/KG) PERCENT (UG/KG) (UG/KG) (UG/KG) (UG/												
KG) (UG/KG) (49364) (49371) (49370) (49368) (49369) (49363) (49289) (49362) (49361) (49360) (49374)												
(49373)												
SEP 1998												
02...												
<5.00 23.0 <5.00 <5.00 <5.00 <5.00 4.60 <5.00 <5.00 <5.00 15.0												
<5.00												

DELAWARE RIVER BASIN

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

DATE	O,P'- DDT, BIOTA, WH ORG (UG/KG) (49377)	OXY- CHLOR DANE, BIOTA, WH ORG (UG/KG) (49357)	P,P'- DDD, BIOTA, WH ORG (UG/KG) (49375)	P,P'- DDE, BIOTA, WH ORG (UG/KG) (49372)	P,P'- DDT, BIOTA, WH ORG (UG/KG) (49376)	PCB, BIOTA, WH ORG (UG/KG) (49354)	PENTA CHLORO ANISOLE BIOTA, WH ORG (UG/KG) (49356)	TOXA- PHENE, BIOTA, WH ORG (UG/KG) (49355)	TRANS- CHLOR- DANE, BIOTA, WH ORG (UG/KG) (49379)	TRANS- NONA- CHLOR, BIOTA, WH ORG (UG/KG) (49358)
SEP 1998 02...	<5.00	<5.00	66.0	140	11.0	91.0	<5.00	<200	<5.00	5.40

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	11.0	9.0	10.0	10.0	8.0	9.5	1.5	.5	1.0
2	---	---	---	11.0	9.0	10.0	8.5	6.5	8.0	.5	.0	1.0
3	---	---	---	10.0	8.0	9.0	9.5	7.5	8.5	3.5	.5	2.5
4	---	---	---	9.5	7.5	8.5	11.5	9.0	10.0	3.0	1.0	2.0
5	---	---	---	8.0	6.0	7.0	12.0	10.5	11.5	1.0	.5	1.0
6	---	---	---	7.5	6.0	6.5	12.0	10.0	11.5	1.0	.0	.5
7	---	---	---	8.0	6.0	7.0	13.5	11.5	12.5	2.0	.5	1.5
8	---	---	---	8.5	7.5	8.0	13.0	11.5	12.0	1.0	.0	1.0
9	---	---	---	9.5	7.5	8.5	11.5	8.0	9.5	2.0	1.0	1.5
10	---	---	---	10.0	7.0	8.5	8.0	6.0	7.0	1.5	.5	1.0
11	---	---	---	12.0	10.0	11.0	7.5	5.5	6.5	1.0	.5	.5
12	---	---	---	10.0	8.0	9.0	6.5	4.5	5.5	3.5	.5	2.0
13	---	---	---	9.0	7.5	8.0	7.0	6.0	6.5	4.5	2.5	3.5
14	---	---	---	9.0	6.5	8.0	6.5	4.5	5.5	3.5	1.5	2.0
15	---	---	---	10.0	8.0	9.0	5.0	3.5	4.0	2.0	.5	1.5
16	---	---	---	9.0	7.0	8.5	5.5	3.5	4.0	2.5	.5	1.5
17	---	---	---	10.0	8.0	9.5	5.5	3.5	4.5	3.5	2.5	3.0
18	---	---	---	9.5	7.5	8.5	4.5	3.5	4.0	6.0	3.5	4.5
19	---	---	---	9.0	6.5	8.0	6.0	3.5	4.5	5.0	4.0	4.5
20	---	---	---	11.0	8.5	10.0	8.0	6.0	6.5	4.5	4.0	4.5
21	---	---	---	10.0	8.0	9.0	8.5	6.5	8.0	5.0	4.0	4.5
22	---	---	---	8.5	6.5	8.0	10.0	5.5	8.5	6.0	5.0	5.5
23	---	---	---	8.5	6.0	7.0	5.5	1.5	4.0	8.0	6.0	6.5
24	---	---	---	9.0	7.0	8.0	3.0	1.5	2.0	9.5	8.0	9.0
25	---	---	---	8.0	6.0	7.0	2.5	.5	1.5	9.0	7.0	8.0
26	---	---	---	9.0	7.0	8.0	2.0	.5	1.0	7.0	6.0	6.5
27	---	---	---	9.0	7.0	8.5	2.5	.0	1.0	6.0	5.5	5.5
28	13.5	11.5	12.5	8.0	6.0	7.5	3.5	2.0	3.0	6.0	6.0	6.0
29	13.5	11.0	12.0	9.0	6.5	8.0	3.5	3.5	3.5	6.0	6.0	6.0
30	11.5	9.5	10.5	10.0	7.5	8.5	3.5	1.0	3.0	6.0	5.0	5.5
31	11.0	9.0	10.0	---	---	---	2.5	.5	1.5	5.0	3.5	4.5
MONTH	---	---	---	12.0	6.0	8.5	13.5	.0	6.0	9.5	.0	3.5

DELAWARE RIVER BASIN

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	3.0	3.5	6.0	5.5	6.0	---	---	---	15.0	13.0	14.0
2	6.0	3.5	4.5	6.5	4.5	6.0	---	---	---	14.5	13.0	13.0
3	6.5	6.0	6.0	9.0	5.5	7.0	---	---	---	15.0	12.5	13.5
4	6.5	6.0	6.5	9.0	5.0	7.5	---	---	---	18.5	14.0	15.5
5	6.0	5.0	5.5	6.0	3.5	5.0	---	---	---	18.0	16.0	16.5
6	5.5	4.5	5.0	6.0	5.0	5.5	---	---	---	16.0	15.0	15.5
7	4.5	3.5	4.0	6.0	3.5	5.0	---	---	---	18.5	15.0	16.5
8	4.5	3.5	4.0	4.0	1.0	3.0	---	---	---	19.0	16.5	18.0
9	4.5	3.0	4.0	3.5	2.0	2.5	---	---	---	18.5	15.5	17.5
10	5.5	3.5	4.5	5.5	3.0	4.0	---	---	---	18.5	15.0	17.0
11	6.0	3.5	5.0	5.5	3.0	4.0	---	---	---	19.0	15.0	17.0
12	9.5	6.0	7.5	5.0	3.0	4.0	---	---	---	19.0	16.5	17.5
13	8.0	5.5	6.5	6.0	3.0	4.5	---	---	---	17.0	14.0	15.5
14	5.5	3.5	4.5	5.5	2.0	4.5	---	---	---	16.5	13.5	15.0
15	4.5	2.5	3.5	4.0	1.5	2.5	---	---	---	16.0	13.5	14.5
16	6.0	3.5	4.5	6.0	2.0	4.0	---	---	---	17.5	14.0	15.5
17	6.0	4.5	5.5	8.5	4.5	6.5	---	---	---	18.0	15.5	17.0
18	6.5	6.0	6.5	11.5	7.5	9.0	---	---	---	18.0	17.0	17.5
19	6.5	5.5	6.0	9.5	8.0	9.0	---	---	---	18.5	15.5	17.0
20	6.0	5.0	5.5	9.5	6.5	8.0	---	---	---	18.5	15.0	17.0
21	5.5	3.5	4.5	---	---	---	---	---	---	20.0	16.0	18.0
22	4.0	2.0	3.0	---	---	---	15.0	12.5	13.5	19.5	18.0	18.5
23	2.5	1.0	2.0	---	---	---	14.0	10.0	12.0	19.0	15.0	17.5
24	3.5	1.5	2.5	---	---	---	14.5	10.5	12.5	18.5	15.5	17.0
25	4.0	2.0	3.0	---	---	---	16.0	11.0	13.0	18.5	16.0	17.0
26	5.0	3.0	4.0	---	---	---	16.0	12.5	14.5	18.5	16.0	17.0
27	5.5	3.0	4.5	---	---	---	15.5	12.5	14.0	19.0	15.5	17.5
28	6.0	5.0	5.5	---	---	---	15.5	12.5	14.0	20.5	17.0	18.5
29	---	---	---	---	---	---	15.5	13.0	14.5	21.5	18.5	20.0
30	---	---	---	---	---	---	16.0	12.5	14.0	22.0	19.0	20.5
31	---	---	---	---	---	---	---	---	---	22.5	20.0	21.0
MONTH	9.5	1.0	4.5	---	---	---	---	---	---	22.5	12.5	17.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	22.5	21.5	22.0	26.0	24.0	25.0	20.0	18.5	19.0
2	---	---	---	23.5	22.0	23.0	25.0	22.5	23.5	21.0	18.5	19.5
3	22.0	21.0	21.5	23.5	22.5	23.0	23.5	21.0	22.5	21.0	18.5	20.0
4	21.5	19.5	20.5	25.0	23.0	24.0	23.0	20.5	22.0	21.5	20.5	21.0
5	20.5	18.5	19.5	26.5	24.0	25.5	23.0	20.5	22.0	23.0	21.5	22.0
6	20.5	17.5	19.0	27.5	25.0	26.5	23.0	20.0	21.5	23.0	22.0	22.5
7	23.0	19.5	21.0	26.5	24.5	26.0	23.0	20.0	21.5	23.0	22.5	22.5
8	24.5	21.5	23.0	25.0	23.0	24.0	23.0	21.5	22.5	23.0	22.0	22.5
9	24.0	21.5	23.0	25.0	21.5	23.5	22.5	20.0	21.5	23.0	22.5	22.5
10	22.0	19.0	20.5	24.0	22.5	23.5	21.5	18.5	20.0	22.5	21.5	22.0
11	21.0	18.5	19.5	23.0	20.0	21.5	23.0	20.0	21.5	22.0	21.0	21.5
12	20.0	18.0	19.0	21.0	19.5	20.5	24.0	21.0	22.5	21.0	20.0	20.5
13	20.5	19.0	20.0	21.5	19.5	20.5	25.0	22.5	23.5	20.0	20.0	20.0
14	21.5	20.0	21.0	21.0	19.0	20.0	25.0	23.0	24.0	20.5	19.5	20.0
15	22.5	20.5	21.5	21.5	18.0	20.0	24.0	23.0	23.5	20.5	20.0	20.0
16	21.5	19.5	20.5	23.5	20.0	22.0	24.5	22.5	23.5	20.0	19.5	20.0
17	20.0	18.0	19.0	25.0	21.5	23.0	25.0	22.0	23.5	19.5	18.5	19.0
18	19.5	17.5	18.5	25.5	22.5	24.0	24.5	23.0	23.5	19.0	17.0	18.0
19	20.0	17.0	18.5	26.0	23.0	24.5	23.0	21.0	22.5	18.5	17.0	18.0
20	18.5	17.0	17.5	24.0	22.5	23.5	22.5	20.5	21.5	19.0	17.0	18.0
21	18.0	17.0	17.5	23.5	21.5	22.5	20.5	19.5	20.0	18.5	17.5	18.0
22	20.0	16.5	18.5	23.0	22.0	22.5	20.0	19.0	19.5	17.5	16.0	16.5
23	21.5	18.5	19.5	25.0	22.5	23.5	21.5	18.0	19.5	17.0	14.5	15.5
24	21.5	18.5	20.0	25.0	23.0	24.0	21.0	19.5	20.0	17.5	15.5	16.5
25	21.5	19.5	20.5	25.5	23.0	24.5	21.5	19.0	20.5	18.5	16.5	17.5
26	23.0	20.0	22.0	25.0	22.5	24.0	22.5	20.5	21.5	18.5	16.5	17.5
27	24.0	21.5	23.0	25.0	22.0	23.5	23.0	21.5	22.5	18.5	17.5	18.0
28	23.5	23.0	23.5	25.0	22.5	24.0	23.0	21.5	22.5	19.5	18.0	18.5
29	25.0	22.5	23.5	24.5	22.5	23.5	23.5	22.0	23.0	20.0	19.0	19.5
30	24.0	22.0	23.0	24.5	22.0	23.5	22.0	19.0	20.0	20.0	18.5	19.0
31	---	---	---	25.5	22.5	24.0	19.5	18.5	19.0	---	---	---
MONTH	25.0	17.0	20.5	27.5	18.0	23.0	26.0	18.0	22.0	23.0	14.5	19.5

