

CONESTOGA RIVER BASIN

01576526 NORTH FORK UNNAMED TRIBUTARY TO BIG SPRING RUN NEAR WILLOW STREET, PA

LOCATION.--Lat 39°59'44", long 76°15'06", Lancaster County, Hydrologic Unit 02050306, 0.4 mi north of culvert on SR 741, 0.5 mi northwest of Lampeter, and 1.5 mi northeast of Willow Street.

DRAINAGE AREA.--1.13 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1993 to current year.

REMARKS.--Land surface elevation is 335 ft, from topographic map.

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

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	AGENCY COL-LECTING SAMPLE (CODE NUMBER)	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)	NITRO-GEN, AM-MONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)
MAY 1999											
11...	1125	80020	1028	.54	13.3	7.9	647	17.5	.050	.24	.70
11...	1230	80020	1028	--	--	--	--	--	--	--	--
SEP											
08...	1120	80020	1028	.12	7.1	7.5	632	21.9	.022	.33	.67
08...	1145	80020	1028	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L) (AS P) (00666)	PHOS-PHORUS TOTAL (MG/L) (AS P) (00665)	TUR-BID-ITY (NTU) (00076)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M <sup>2</sup> ) (70957)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M <sup>2</sup> ) (70958)	PERI-PHYTON BIOMASS ASH WEIGHT (G/SQ M) (00572)	PERI-PHYTON BIOMASS DRY WEIGHT (G/SQ M) (00573)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
MAY 1999										
11...	8.98	.047	.023	.080	2.5	--	--	--	--	8
11...	--	--	--	--	--	26.8	1.30	430.0	442.3	--
SEP										
08...	6.43	.041	.119	.146	3.0	--	--	--	--	4
08...	--	--	--	--	--	5.20	.420	312.9	320.2	--

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01576526 NORTH FORK UNNAMED TRIBUTARY TO BIG SPRING RUN NEAR WILLOW STREET, PA--Continued

BIOLOGICAL DATA, MAY AND SEPTEMBER 1999  
BENTHIC MACROINVERTEBRATES

REMARKS.--Rapid bioassessments for benthic macroinvertebrates were conducted in May and September 1999. Samples represent counts per 200-organism (approximate) subsamples. Two subsamples were identified in September 1999.

Benthic Macroinvertebrate	May 1999	Sept. 1999	Sept. 1999
Platyhelminthes	--	--	--
Turbellaria (FLATWORMS)	--	--	--
Tricladida	--	--	--
Planariidae	--	2	--
Annelida	--	--	--
Oligochaeta (AQUATIC EARTHWORMS)	--	--	--
Haplotaenidae	--	--	--
Enchytraeidae	8	--	--
Tubificidae	41	6	4
<i>Limnodrilus hoffmeisteri</i>	2	--	1
Naididae	--	--	--
<i>Nais bretscheri</i>	7	--	--
<i>Nais elinguis</i>	4	--	--
Hirudinea (LEECHES)	--	--	--
Pharyngobdellida	--	--	--
Erpobdellidae	--	--	--
<i>Erpobdella punctata</i>	--	--	3
Rhynchobdellida	--	--	--
Glossiphoniidae	--	--	--
<i>Helobdella stagnalis</i>	--	--	1
Mollusca	--	--	--
Gastropoda (SNAILS)	--	--	--
Basommatophora	--	--	--
Physidae	--	--	--
<i>Physa</i> sp	--	1	--
Pelecypoda (CLAMS)	--	--	--
Veneroida	--	--	--
Sphaeriidae	--	--	--
<i>Pisidium</i> sp	--	--	1
Arthropoda	--	--	--
Crustacea	--	--	--
Isopoda (AQUATIC SOWBUGS)	--	--	--
Asellidae	--	--	--
<i>Caecidotea communis</i>	--	13	6
<i>Caecidotea</i> sp	1	--	2
Amphipoda (SCUDS)	--	--	--
Gammaridae	--	--	--
<i>Gammarus pseudolimnaeus</i>	3	138	159
<i>Gammarus</i> sp	82	--	--
Insecta	--	--	--
Collembola (SPRINGTAILS)	--	--	--
Entomobryoidae	--	--	--
Isotomidae	1	--	--
Ephemeroptera (MAYFLIES)	--	--	--
Baetidae	--	--	--
<i>Baetis flavistriga</i>	--	1	--
Hemiptera (TRUE BUGS)	--	--	--
Corixidae (WATER BOATMEN)	--	4	1
<i>Palmacorixa</i> sp	--	1	1
<i>Sigara</i> sp	--	1	3
Coleoptera (BEETLES)	--	--	--
Halplidae (CRAWLING WATER BEETLES)	--	--	--
<i>Peltodytes</i> sp	1	--	--
Hydrophilidae (WATER SCAVENGER BEETLES)	--	--	--
<i>Hydrochus</i> sp	--	1	--
Elmidae	1	2	--
<i>Dubiraphia bivittata</i>	--	1	1
<i>Dubiraphia</i> sp	1	13	7
<i>Optioservus ovalis</i>	1	1	--
<i>Optioservus</i> sp	--	2	1
<i>Promoresia</i> sp	1	--	--
<i>Stenelmis</i> sp	1	5	2
Trichoptera (CADDIS FLIES)	--	--	--
Hydropsychidae	--	--	--
<i>Cheumatopsyche</i> sp	--	1	--

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BIOLOGICAL DATA, MAY AND SEPTEMBER 1999  
BENTHIC MACROINVERTEBRATES--Continued

Benthic Macroinvertebrate	May 1999	Sept. 1999	Sept. 1999
Diptera	--	--	--
Tipulidae (CRANE FLIES)	--	--	--
<i>Molophilus</i> sp	--	--	1
Ceratopogonidae (BITING MIDGES)	--	--	--
<i>Bezzia/Palpomyia</i>	2	--	--
Simuliidae (BLACK FLIES)	--	--	--
<i>Simulium</i> sp	3	--	--
Chironomidae (MIDGES)	--	--	--
Tanypodinae	--	--	--
<i>Clinotanypus</i> sp	--	1	--
<i>Thienemannimyia</i> gr sp	--	1	1
Diamesinae	--	--	--
<i>Diamesa</i> sp	2	--	--
Orthocladiinae	--	--	--
<i>Cricotopus</i> sp	4	--	--
<i>Orthocladius obumbratus</i>	2	--	--
<i>Orthocladius</i> sp	20	--	--
<i>Parametriocnemus</i> sp	1	--	--
<i>Stilocladius</i> sp	4	--	--
<i>Tvetenia bavarica</i> gr	2	--	--
Chironominae	--	--	--
<i>Chironomus</i> sp	--	1	--
<i>Dicrotendipes</i> sp	2	--	1
<i>Micropsectra</i> sp	2	--	--
<i>Paracladopelma nais</i>	1	--	--
<i>Paratendipes albimanus</i>	--	6	7
<i>Paratendipes</i> sp	2	--	--
<i>Stictochironomus</i> sp	3	8	3
<i>Tanytarsus</i> sp	1	1	--
Ephydriidae	1	--	--
Total organisms	207	211	206