

CONESTOGA RIVER BASIN

01576519 BIG SPRING RUN BELOW WILLOW BRANCH NEAR WILLOW STREET, PA

LOCATION.--Lat 39°59'35", long 76°15'46", Lancaster County, Hydrologic Unit 02050306, 0.2 mi north of U.S. Route 222 and 150 ft west of Gypsy Hill Road, and 1.1 mi northeast of Willow Street.

DRAINAGE AREA.--1.62 mi².

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

REMARKS.--Land surface elevation is 315 ft, from topographic map.

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

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPE-CIFIC CONDUCTANCE (µS/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L) (00623)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L) (00625)
MAY 1999											
11...	0950	80020	1028	1.2	11.4	7.7	704	13.5	.048	.21	.23
11...	1030	80020	1028	--	--	--	--	--	--	--	--
SEP											
08...	0945	80020	1028	.58	8.9	7.6	659	17.0	.027	.33	.45
08...	1000	80020	1028	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	PHOS-PHORUS TOTAL (MG/L) (00665)	TUR-BID-ITY (NTU) (00076)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M ²) (70957)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M ²) (70958)	PERI-PHYTON BIOMASS ASH WEIGHT (G/SQ M) (00572)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQ M) (00573)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
MAY 1999										
11...	7.94	.017	.020	.035	2.5	--	--	--	--	15
11...	--	--	--	--	--	50.0	1.60	526.8	568.4	--
SEP										
08...	8.15	.035	.047	.062	2.5	--	--	--	--	45
08...	--	--	--	--	--	4.70	.320	346.1	353.3	--

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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 May 1999.

Benthic Macroinvertebrate	May 1999	May 1999	Sept. 1999
Platyhelminthes	--	--	--
Turbellaria (FLATWORMS)	--	--	--
Tricladida	--	--	--
Planariidae	4	--	36
Annelida	--	--	--
Oligochaeta (AQUATIC EARTHWORMS)	--	--	--
Haplotaxida	--	--	--
Haplotaxidae	--	--	1
Enchytraeidae	--	--	1
Tubificidae	1	4	16
<u>Isochaetides curvisetosus</u>	--	--	2
Naididae	--	--	--
<u>Nais bretscheri</u>	12	8	--
<u>Nais elinguis</u>	50	23	--
<u>Nais sp</u>	40	43	1
<u>Pristinella sp</u>	--	--	9
Mollusca	--	--	--
Gastropoda (SNAILS)	--	--	--
Basommatophora	--	--	--
Physidae	--	--	--
<u>Physa sp</u>	--	--	1
Pelecypoda (CLAMS)	--	--	--
Veneroida	--	--	--
Sphaeriidae	1	--	--
Arthropoda	--	--	--
Crustacea	--	--	--
Isopoda (AQUATIC SOWBUGS)	--	--	--
Asellidae	--	--	--
<u>Caecidotea sp</u>	--	--	1
Amphipoda (SCUDS)	--	--	--
Gammaridae	--	--	--
<u>Gammarus pseudolimnaeus</u>	16	35	85
Arachnoidea	--	--	--
Hydracarina (WATER MITES)	--	--	--
Lebertiidae	--	--	--
<u>Lebertia sp</u>	--	--	2
Insecta	--	--	--
Odonata	--	--	--
Coenagrionidae (DAMSELFLIES)	--	--	1
Coleoptera (BEETLES)	--	--	--
Elmidae	2	--	1
<u>Dubiraphia bivittata</u>	--	--	1
<u>Dubiraphia sp</u>	--	1	2
<u>Optioservus ovalis</u>	--	--	1
<u>Optioservus sp</u>	3	6	13
<u>Promoresia sp</u>	1	--	--
<u>Stenelmis sp</u>	5	5	16
Trichoptera (CADDIS FLIES)	--	--	--
Hydropsychidae	--	--	1
Hydroptilidae	1	--	--
<u>Hydroptila sp</u>	1	--	--
Diptera	--	--	--
Syrphidae	1	--	--
Simuliidae (BLACK FLIES)	--	--	--
<u>Simulium venustum</u>	8	7	--
<u>Simulium sp</u>	5	5	--
Chironomidae (MIDGES)	--	--	--
Tanypodinae	--	--	--
<u>Procladius sp</u>	--	--	1
Diamesinae	--	--	--
<u>Diamesa sp</u>	21	24	--
Orthocladiinae	1	--	--
<u>Cricotopus bicinctus</u>	--	2	--
<u>Cricotopus trifascia gr</u>	4	7	--
<u>Cricotopus vierriensis</u>	1	--	--
<u>Cricotopus sp</u>	5	4	--
<u>Orthocladius sp</u>	8	20	5
<u>Orthocladius obumbratus</u>	18	27	--
<u>Parakiefferiella sp</u>	--	--	1
<u>Parametrioctenemus sp</u>	--	--	1
<u>Rheocricotopus robacki</u>	1	--	--

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BENTHIC MACROINVERTEBRATES--Continued

Benthic Macroinvertebrate	May 1999	May 1999	Sept. 1999
Chironominae	--	--	--
<u>Dicrotendipes</u> sp	--	--	8
<u>Paratanytarsus</u> sp	--	--	1
<u>Rheotanytarsus</u> sp	--	--	1
<u>Tanytarsus</u> sp	3	2	--
Total organisms	213	223	209