



Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Classification Attainment Report

Station Information

Station Number: S-931
Waterbody: Capisic Brook - Station 931
Town: Portland
Directions: WARREN AVE. (ABOVE OUTFALL)

DEP Drainage: Piscataqua - Presumpscot - Saco
HUC8:
HUC8 Name:
Latitude: 43 41 9.6 N
Longitude: 70 18 37.15 W
Stream Order: 2

Sample Information

Log Number: 1835
Subsample Factor: X1
Type of Sample: ROCK BAG
Replicates: 3
Date Deployed: 7/15/2009
Date Retrieved: 8/11/2009

Classification Attainment

Statutory Class: C
Model Result with P>.6: NA
Date Last Calculated: 5/26/2010
Final Determination: NA
Reason for Determination: Model
Comments:

Model Probabilities

First Stage Model		C or Better Model	
Class A	0.00	Class A, B, or C	0.00
Class B	0.00	Non-Attainment	1.00
B or Better Model		A Model	
Class A or B	0.00	Class A	0.01
Class C or Non-Attainment	1.00	Class B or C or Non-Attainment	0.99

Model Variables

01 Total Mean Abundance	744.33	18 Relative Abundance Ephemeroptera	0.00
02 Generic Richness	32.00	19 EPT Generic Richness	4.00
03 Plecoptera Mean Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	5.53
04 Ephemeroptera Mean Abundance	0.00	23 Relative Generic Richness- Plecoptera	0.00
05 Shannon-Wiener Generic Diversity	0.74	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	1.37
06 Hilsenhoff Biotic Index	4.08	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	0.00
07 Relative Abundance - Chironomidae	0.02	28 EP Generic Richness/14	0.00
08 Relative Generic Richness Diptera	0.44	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	0.33		
11 <i>Cheumatopsyche</i> Abundance	0.33		
12 EPT Generic Richness/ Diptera	0.29		
Generic Richness			
13 Relative Abundance - Oligochaeta	0.04		
15 Perlidae Mean Abundance	0.00		
(Family Functional Group)			
16 Tanypodinae Mean Abundance	0.00		
(Family Functional Group)			
17 Chironomini Abundance (Family	6.57		
Functional Group)			

Five Most Dominant Taxa		
Rank	Taxon Name	Percent
1	<i>Gammarus</i>	91.54
2	<i>Limnodrilus</i>	2.00
3	<i>Stylodrilus</i>	1.39
4	<i>Micropsectra</i>	0.74
5	<i>Paratendipes</i>	0.74



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Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature: 16.1 deg C
Dissolved Oxygen: 9.13 mg/l
Specific Conductance: 487 uS/cm
Velocity: 14.7 cm/s
pH:
Wetted Width: 1.5 m
Bankfull Width: 2.1 m
Depth:

Waterbody Information - Retrieval

Temperature: 18.7 deg C
Dissolved Oxygen: 7.93 mg/l
Specific Conductance: 359 uS/cm
Velocity:
pH:
Wetted Width: 1.2 m
Bankfull Width: 1.5 m
Depth: 12 cm

Water Chemistry - 8/11/2009

Ammonia As Nitrogen	0.29 mg/l	Soluble Reactive Phosphorus	8 ug/l
Nitrate+nitrite As N	1.2 mg/l	Total Kjeldahl Nitrogen	1.5 mg/l
Total Suspended Solids	62 mg/l	Dissolved Organic Carbon	15 mg/l
Total Dissolved Solids	240 mg/l		

Summary of Habitat Characteristics

Landuse Name

Canopy Cover

Terrain

Upland Hardwood

Partly Open

Flat

Urban

Potential Stressor

Location

Substrate

Above Point Source

Detritus 2 %

Gravel 3 %

Sand 95 %

Landcover Summary - 2004 Data

Sample Comments

FAIR HABITAT QUALITY.

8/11/09: FLOW METER WOULD NOT READ - TOO SLOW?



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Aquatic Life Taxonomic Inventory Report

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Replicates: 3

Calculated: 5/26/2010

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
Turbellaria	0301	0.33	0.33		--	0.0	0.0
<i>Eclipidrilus</i>	08020101003	1.00	1.00		--	0.1	0.1
<i>Stylodrilus</i>	08020101004		10.33		--		1.4
<i>Stylodrilus heringianus</i>	08020101004001	10.33			--	1.4	
Naididae	08020202	4.33			--	0.6	
<i>Ophidonais</i>	08020202010		0.46		CG		0.1
<i>Ophidonais serpentina</i>	08020202010001	0.33			--	0.0	
<i>Limnodrilus</i>	08020202022		14.87		CG		2.0
<i>Limnodrilus hoffmeisteri</i>	08020202022003	1.67			--	0.2	
<i>Limnodrilus udekemianus</i>	08020202022006	9.00			--	1.2	
Lumbricidae	08020205	4.67	4.67		--	0.6	0.6
<i>Glossiphonia</i>	08030101004		0.67		--		0.1
<i>Glossiphonia complanata</i>	08030101004001	0.67			--	0.1	
<i>Caecidotea</i>	09010101001	1.33	3.33	8	SH	0.2	0.4
<i>Caecidotea communis</i>	09010101001001	2.00			--	0.3	
<i>Gammarus</i>	09010201003		681.33	4	--		91.5
<i>Gammarus fasciatus</i>	09010201003003	681.33			--	91.5	
<i>Cordulegaster</i>	09020303019		0.33	3	PR		0.0
<i>Cordulegaster maculata</i>	09020303019042	0.33			--	0.0	
<i>Cheumatopsyche</i>	09020604015	0.33	0.33	5	CF	0.0	0.0
<i>Hydropsyche</i>	09020604016	0.33	0.33	4	CF	0.0	0.0
<i>Hydatophylax</i>	09020610048		2.33	2	SH		0.3
<i>Hydatophylax argus</i>	09020610048103	2.33			--	0.3	
<i>Frenesia</i>	09020610058		0.33	0	SH		0.0
<i>Frenesia difficilis</i>	09020610058117	0.33			--	0.0	
Chironomidae	09021011	0.67			--	0.1	
<i>Prodiamesa</i>	09021011031		2.77	3	CG		0.4
<i>Prodiamesa olivacea</i>	09021011031048	2.67			--	0.4	
<i>Cricotopus</i>	09021011037	0.67	0.69	7	SH	0.1	0.1
<i>Limnophyes</i>	09021011047	0.33	0.35	8	CG	0.0	0.0
<i>Parakiefferiella</i>	09021011052	0.33	0.35		CG	0.0	0.0
<i>Parametriocnemus</i>	09021011053	0.67	0.69	5	CG	0.1	0.1
<i>Micropsectra</i>	09021011070	5.33	5.53	7	CG	0.7	0.7
<i>Paratanytarsus</i>	09021011071	0.67	0.69	6	--	0.1	0.1
<i>Tanytarsus</i>	09021011076	0.33	0.35	6	CF	0.0	0.0
<i>Chironomus</i>	09021011080	0.33	0.35	10	CG	0.0	0.0
<i>Paratendipes</i>	09021011100		5.53	8	CG		0.7
<i>Paratendipes albimanus</i> group	09021011100176	5.33			--	0.7	



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<i>Polypedilum</i>	09021011102		0.35	6	SH		0.0
<i>Polypedilum scalaenum group</i>	09021011102189	0.33			--	0.0	
<i>Stictochironomus</i>	09021011106	0.33	0.35	9	CG	0.0	0.0
<i>Odontomesa</i>	09021011121		0.35	4	--		0.0
<i>Odontomesa fulva</i>	09021011121001	0.33			--	0.0	
Dolichopodidae	09021017	0.33	0.33	4	--	0.0	0.0
Basommatophora	100102	0.33	0.33		--	0.0	0.0
<i>Lymnaea</i>	10010201022	0.67	0.67		SC	0.1	0.1
<i>Physa</i>	10010202026	1.67	1.67		SC	0.2	0.2
Sphaeriidae	10020201	1.67	1.67		CF	0.2	0.2
<i>Pisidium</i>	10020201002	0.67	0.67		CF	0.1	0.1