



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

Station Information

Station Number: S-1099 River Basin: Maine Coastal
Waterbody: Schoodic Brook - Station 1099 HUC8 Name: Maine Coastal
Town: Cherryfield Latitude: 44 41 5.6 N
Directions: ROUTE 193. BEFORE DEBLOIS TOWN LINE. 40M Longitude: 67 57 1.58 W
BELOW BRIDGE. Stream Order: 3

Sample Information

Log Number: 2505 Type of Sample: ROCK BAG Date Deployed: 7/26/2016
Subsample Factor: X4 Replicates: 3 Date Retrieved: 8/23/2016

Classification Attainment

Statutory Class: AA Final Determination: B Date: 8/3/2017
Model Result with $P \geq 0.6$: B Reason for Determination: Model
Date Last Calculated: 7/25/2017 Comments: Beaver Activity.

Model Probabilities

First Stage Model		C or Better Model	
Class A	0.27	Class A, B, or C	1.00
Class B	0.59	Non-Attainment	0.00
B or Better Model		A Model	
Class A or B	0.98	Class A	0.10
Class C or Non-Attainment	0.02	Class B or C or Non-Attainment	0.90

Model Variables

01 Total Mean Abundance	449.33	18 Relative Abundance Ephemeroptera	0.35
02 Generic Richness	50.00	19 EPT Generic Richness	18.00
03 Plecoptera Mean Abundance	1.33	21 Sum of Abundances: <i>Dicrotendipes</i> ,	1.52
04 Ephemeroptera Mean Abundance	158.67	<i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	
05 Shannon-Wiener Generic Diversity	4.33	23 Relative Generic Richness- Plecoptera	0.02
06 Hilsenhoff Biotic Index	5.37	25 Sum of Abundances: <i>Cheumatopsyche</i> ,	88.86
07 Relative Abundance - Chironomidae	0.26	<i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	
08 Relative Generic Richness Diptera	0.36	26 Sum of Abundances: <i>Acroneuria</i> ,	89.28
09 <i>Hydropsyche</i> Abundance	1.43	<i>Maccaffertium</i> , <i>Stenonema</i>	
11 <i>Cheumatopsyche</i> Abundance	38.57	28 EP Generic Richness/14	0.64
12 EPT Generic Richness/ Diptera	1.00	30 Presence of Class A Indicator Taxa/7	0.14

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Maccaffertium</i>	19.57
2	<i>Tanytarsus</i>	9.16
3	<i>Oecetis</i>	8.61
4	<i>Cheumatopsyche</i>	8.58
5	<i>Leptophlebiidae</i>	8.01

13 Relative Abundance - Oligochaeta	0.00
15 Perlidae Mean Abundance (Family Functional Group)	1.33
16 Tanypodinae Mean Abundance (Family Functional Group)	9.14
17 Chironomini Abundance (Family Functional Group)	25.90



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Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature:	23.3 deg C
Dissolved Oxygen:	8.57 mg/l
Dissolved Oxygen Saturation:	101.5 %
Specific Conductance:	36.8 uS/cm
Velocity:	9.1 cm/s
pH:	7.2
Wetted Width:	5 m
Bankfull Width:	8.7 m
Depth:	60 cm

Waterbody Information - Retrieval

Temperature:	18.1 deg C
Dissolved Oxygen:	9.58 mg/l
Dissolved Oxygen Saturation:	101 %
Specific Conductance:	33.5 uS/cm
Velocity:	15.2 cm/s
pH:	6.72
Wetted Width:	8.7 m
Bankfull Width:	8.7 m
Depth:	80 cm

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Swamp Hardwood	Open	Rolling
Upland Hardwood		
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>
	Below Agriculture NPS	Detritus 20 %
	Below Road Crossing	Gravel 30 %
		Sand 50 %

Landcover Summary - 2004 Data

Sample Comments

7/26/2016: BEAVER ACTIVITY; FISH PRESENT.

8/23/2016: BEAVER ACTIVITY NEAR SAMPLE BAGS; FISH PRESENT.



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Aquatic Life Taxonomic Inventory Report**

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Town: Cherryfield

Log Number: 2505

Subsample Factor: X4

Replicates: 3

Calculated: 7/25/2017

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Hydra</i>	02010101001	2.67	2.67		PR	0.6	0.6
<i>Rhabditophora</i>	0301	1.33	1.33		--	0.3	0.3
<i>Isotomidae</i>	09020102	1.33	1.33		--	0.3	0.3
<i>Acroneuria</i>	09020209042		1.33	0	PR		0.3
<i>Acroneuria lycorias</i>	09020209042125	1.33			--	0.3	
<i>Boyeria</i>	09020301004		2.67	2	PR		0.6
<i>Boyeria vinosa</i>	09020301004012	2.67			--	0.6	
<i>Calopterygidae</i>	09020307	1.33	1.33		--	0.3	0.3
<i>Calopteryx</i>	09020307043	1.33	1.33	5	PR	0.3	0.3
<i>Argia</i>	09020309048	1.33	1.33	7	PR	0.3	0.3
<i>Acerpenna</i>	09020401007	1.33	2.67	5	CG	0.3	0.6
<i>Acerpenna pygmaea</i>	09020401007011	1.33			--	0.3	
<i>Procloeon</i>	09020401010	4.00	5.33		CG	0.9	1.2
<i>Procloeon rubropictum</i>	09020401010002	1.33			--	0.3	
<i>Heptageniidae</i>	09020402	14.67			--	3.3	
<i>Leucrocuta</i>	09020402011	1.33	1.54	1	SC	0.3	0.3
<i>Stenacron</i>	09020402014	16.00	18.51	7	SC	3.6	4.1
<i>Maccaffertium</i>	09020402015	33.33	87.94	4	SC	7.4	19.6
<i>Maccaffertium modestum</i>	09020402015051	42.67			--	9.5	
<i>Leptophlebiidae</i>	09020406	36.00	36.00		--	8.0	8.0
<i>Paraleptophlebia</i>	09020406026	5.33	5.33	1	CG	1.2	1.2
<i>Tricorythodes</i>	09020411038	1.33	1.33	4	CG	0.3	0.3
<i>Cernotina</i>	09020603006	30.67	30.67		PR	6.8	6.8
<i>Nyctiophylax</i>	09020603009		4.00	5	PR		0.9
<i>Nyctiophylax moestus</i>	09020603009013	4.00			--	0.9	
<i>Polycentropus</i>	09020603010	8.00	8.00	6	PR	1.8	1.8
<i>Plectrocnemia</i>	09020603012	1.33	1.33	6	PR	0.3	0.3
<i>Hydropsychidae</i>	09020604	2.67			--	0.6	
<i>Cheumatopsyche</i>	09020604015	36.00	38.57	5	CF	8.0	8.6
<i>Hydropsyche</i>	09020604016	1.33	1.43	4	CF	0.3	0.3
<i>Pycnopsyche</i>	09020610049	1.33	1.33	4	SH	0.3	0.3
<i>Helicopsyche</i>	09020616070		1.33	3	SC		0.3
<i>Helicopsyche borealis</i>	09020616070137	1.33			--	0.3	
<i>Oecetis</i>	09020618078	8.00	38.67	8	PR	1.8	8.6
<i>Oecetis avara</i>	09020618078153	2.67			--	0.6	
<i>Oecetis persimilis</i>	09020618078157	28.00			--	6.2	
<i>Nigronia</i>	09020701003		1.33	0	PR		0.3



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		Actual	Adjusted			Actual	Adjusted
<i>Nigronia serricornis</i>	09020701003003	1.33			--	0.3	
Chironomidae	09021011	14.67			--	3.3	
<i>Ablabesmyia</i>	09021011001		4.57	8	PR		1.0
<i>Ablabesmyia mallochi</i>	09021011001004	4.00			--	0.9	
<i>Labrundinia</i>	09021011008		1.52	7	PR		0.3
<i>Labrundinia pilosella</i>	09021011008022	1.33			--	0.3	
<i>Natarsia</i>	09021011011		1.52	8	PR		0.3
<i>Natarsia baltimoreus</i>	09021011011026	1.33			--	0.3	
<i>Trissopelopia</i>	09021011021		1.52		PR		0.3
<i>Trissopelopia ogemawi</i>	09021011021042	1.33			--	0.3	
<i>Corynoneura</i>	09021011036	1.33	1.52	7	CG	0.3	0.3
<i>Cricotopus</i>	09021011037		4.57	7	SH		1.0
<i>Cricotopus bicinctus</i>	09021011037057	4.00			--	0.9	
<i>Nanocladius</i>	09021011049	1.33	1.52	3	CG	0.3	0.3
<i>Orthocladius</i>	09021011050		3.05	6	CG		0.7
<i>Orthocladius annectens</i>	09021011050092	2.67			--	0.6	
<i>Rheocricotopus</i>	09021011057		1.52	6	CG		0.3
<i>Rheocricotopus robacki</i>	09021011057105	1.33			--	0.3	
<i>Synorthocladius</i>	09021011061			2	CG		
<i>Micropsectra</i>	09021011070	1.33	1.52	7	CG	0.3	0.3
<i>Paratanytarsus</i>	09021011071		4.57	6	--		1.0
<i>Paratanytarsus dissimilis</i>	09021011071125	4.00			--	0.9	
<i>Rheotanytarsus</i>	09021011072		19.81	6	CF		4.4
<i>Rheotanytarsus pellucidus</i>	09021011072128	17.33			CF	3.9	
<i>Stempellinella</i>	09021011074		3.05	2	--		0.7
<i>Stempellinella leptocelloides</i>	09021011074001	2.67			--	0.6	
<i>Tanytarsus</i>	09021011076	36.00	41.14	6	CF	8.0	9.2
<i>Microtendipes</i>	09021011094		24.38	6	CF		5.4
<i>Microtendipes rydalensis group</i>	09021011094168	21.33			--	4.7	
<i>Polypedilum</i>	09021011102		1.52	6	SH		0.3
<i>Polypedilum flavum</i>	09021011102182	1.33			--	0.3	
<i>Atherix</i>	09021015055	1.33	1.33	2	PR	0.3	0.3
<i>Hemerodromia</i>	09021016057	2.67	2.67	3	PR	0.6	0.6
<i>Dubiraphia</i>	09021113064	2.67	8.00	6	--	0.6	1.8
<i>Dubiraphia minima</i>	09021113064036	1.33			--	0.3	
<i>Dubiraphia quadrinotata</i>	09021113064037	4.00			--	0.9	
<i>Macronychus</i>	09021113065		6.67	4	--		1.5
<i>Macronychus glabratus</i>	09021113065040	6.67			--	1.5	



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<i>Stenelmis</i>	09021113070		4.00	5	SC		0.9
<i>Stenelmis crenata</i>	09021113070055	4.00			--	0.9	
<i>Lebertia</i>	09030105001	1.33	1.33		--	0.3	0.3
Hydrobiidae	10010104	1.33	1.33		--	0.3	0.3
<i>Amnicola</i>	10010104013		8.00		SC		1.8
<i>Amnicola limosus</i>	10010104013018	8.00			--	1.8	