



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

Station Information

Station Number: S-954
Waterbody: Androscoggin River - Station 954
Town: Brunswick
Directions: BELOW PEJEPSCOT; UP RIVER RD FROM
BRUNSWICK TO PUBLIC FISHING PARK ACCESS
AND CANOE PORTAGE
DEP Drainage: Androscoggin
HUC8: 01040002
HUC8 Name: Lower Androscoggin
Latitude:
Longitude:
Stream Order: 5

Sample Information

Log Number: 1956 Type of Sample: CONE Date Deployed: 7/27/2010
Subsample Factor: X4 Replicates: 2 Date Retrieved: 8/24/2010

Classification Attainment

Statutory Class: C **Final Determination: B** Date: 12/8/2010
Model Result with P>.6: B **Reason for Determination: Model**
Date Last Calculated: 12/7/2010 Comments:

Model Probabilities

First Stage Model		C or Better Model	
Class A	0.40	Class A, B, or C	1.00
Class B	0.56	Non-Attainment	0.00
B or Better Model		A Model	
Class A or B	1.00	Class A	0.11
Class C or Non-Attainment	0.00	Class B or C or Non-Attainment	0.89

Model Variables

01 Total Mean Abundance	956.00	18 Relative Abundance Ephemeroptera	0.29
02 Generic Richness	37.00	19 EPT Generic Richness	21.00
03 Plecoptera Mean Abundance	4.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	8.30
04 Ephemeroptera Mean Abundance	278.00	23 Relative Generic Richness- Plecoptera	0.05
05 Shannon-Wiener Generic Diversity	3.91	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	101.02
06 Hilsenhoff Biotic Index	4.05	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	130.00
07 Relative Abundance - Chironomidae	0.12	28 EP Generic Richness/14	0.79
08 Relative Generic Richness Diptera	0.30	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	84.51		
11 <i>Cheumatopsyche</i> Abundance	80.28		
12 EPT Generic Richness/ Diptera	1.91		
Generic Richness			
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance	4.00		
(Family Functional Group)			
16 Tanypodinae Mean Abundance	14.52		
(Family Functional Group)			
17 Chironomini Abundance (Family	58.07		
Functional Group)			

Five Most Dominant Taxa		
Rank	Taxon Name	Percent
1	<i>Chimarra</i>	16.74
2	<i>Macrostemum</i>	14.14
3	<i>Maccaffertium</i>	13.39
4	<i>Hydropsyche</i>	8.84
5	<i>Acerpenna</i>	8.79



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Date Retrieved: 8/24/2010

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature: 25 deg C

Dissolved Oxygen: 7.2 mg/l

Specific Conductance: 90 uS/cm

Velocity:

pH:

Wetted Width:

Bankfull Width:

Depth: 100 cm

Waterbody Information - Retrieval

Temperature: 22.3 deg C

Dissolved Oxygen: 7.3 mg/l

Specific Conductance: 79 uS/cm

Velocity: 27 cm/s

pH:

Wetted Width:

Bankfull Width:

Depth: 70 cm

Water Chemistry

Summary of Habitat Characteristics

Landuse Name

Canopy Cover

Terrain

Potential Stressor

Location

Substrate

Nps Pollution

Below Dam

Boulder 5 %

Urban Runoff

Gravel 20 %

Rubble/Cobble 75 %

Landcover Summary - 2004 Data

Sample Comments

8/24/2010 HOBO TEMP IN ONE OF FREE CONES RETRIEVED.

7/27/2010 WATER DEPTH VARIES DUE TO DAM MANIPULATION; DEPLOYED PERIPHYTOMETER (85 SLIDES), ONE CONE SET UP WITH WEIGHT AND FLOAT, 2 SET UP FREE JUST SHOREWARD OF CONE AND FLOAT. FLOW FAST BUT NOT MEASURED.



Maine Department of Environmental Protection
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Aquatic Life Taxonomic Inventory Report

Station Number: S-954

Waterbody: Androscoggin River - Station 954

Town: Brunswick

Log Number: 1956

Subsample Factor: X4

Replicates: 2

Calculated: 12/7/2010

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Girardia</i>	03010102002		30.00		--		3.1
<i>Girardia tigrina</i>	03010102002001	30.00			--	3.1	
<i>Synurella</i>	09010202006		2.00		--		0.2
<i>Synurella chamberlaini</i>	09010202006001	2.00			--	0.2	
<i>Hyaella</i>	09010203006		4.00	8	CG		0.4
<i>Hyaella azteca</i>	09010203006011	4.00			--	0.4	
<i>Acroneuria</i>	09020209042		2.00	0	PR		0.2
<i>Acroneuria lycorias</i>	09020209042125	2.00			--	0.2	
<i>Agnetina</i>	09020209050		2.00	2	PR		0.2
<i>Agnetina capitata</i>	09020209050152	2.00		2	PR	0.2	
<i>Boyeria</i>	09020301004		2.00	2	PR		0.2
<i>Boyeria vinosa</i>	09020301004012	2.00			--	0.2	
<i>Argia</i>	09020309048	6.00	6.00	7	PR	0.6	0.6
<i>Baetis</i>	09020401001		6.00	4	CG		0.6
<i>Baetis flavistriga</i>	09020401001004	2.00			--	0.2	
<i>Baetis intercalaris</i>	09020401001008	4.00			--	0.4	
<i>Acerpenna</i>	09020401007	38.00	84.00	5	CG	4.0	8.8
<i>Acerpenna pygmaea</i>	09020401007011	46.00			--	4.8	
<i>Acentrella</i>	09020401008		2.00	3	CG		0.2
<i>Acentrella parvula</i>	09020401008002	2.00			--	0.2	
<i>Procladius</i>	09020401010	6.00	6.00		CG	0.6	0.6
<i>Plautidius</i>	09020401012	2.00	2.00		CG	0.2	0.2
Heptageniidae	09020402	20.00	20.00		--	2.1	2.1
<i>Maccaffertium</i>	09020402015	50.00	128.00	4	SC	5.2	13.4
<i>Maccaffertium exiguum</i>	09020402015046	12.00			--	1.3	
<i>Maccaffertium modestum</i>	09020402015051	66.00			--	6.9	
<i>Isonychia</i>	09020404018	28.00	28.00	2	CF	2.9	2.9
<i>Tricorythodes</i>	09020411038	2.00	2.00	4	CG	0.2	0.2
Trichoptera	090206				--		
<i>Chimarra</i>	09020601003	160.00	160.00	2	CF	16.7	16.7
Polycentropodidae	09020603	2.00			--	0.2	
<i>Neureclipsis</i>	09020603008	32.00	33.68	7	CF	3.3	3.5
<i>Polycentropus</i>	09020603010	6.00	6.32	6	PR	0.6	0.7
Hydropsychidae	09020604	16.00			--	1.7	
<i>Cheumatopsyche</i>	09020604015	76.00	80.28	5	CF	7.9	8.4
<i>Hydropsyche</i>	09020604016		84.51	4	CF		8.8
<i>Hydropsyche phalerata</i>	09020604016047	14.00			--	1.5	
<i>Hydropsyche simulans</i>	09020604016049	64.00			--	6.7	



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		Actual	Adjusted			Actual	Adjusted
<i>Hydropsyche placoda</i>	09020604016059	2.00			--	0.2	
<i>Macrostemum</i>	09020604018		135.21	3	CF		14.1
<i>Macrostemum zebratum</i>	09020604018054	128.00			--	13.4	
<i>Rhyacophila</i>	09020605019	2.00	2.00	2	PR	0.2	0.2
Hydroptilidae	09020607				--		
<i>Hydroptila</i>	09020607026	4.00	4.00	6	P	0.4	0.4
<i>Mystacides</i>	09020618075	2.00	2.00	4	CG	0.2	0.2
<i>Oecetis</i>	09020618078		8.00	8	PR		0.8
<i>Oecetis persimilis</i>	09020618078157	8.00			--	0.8	
Chironomidae	09021011	4.00			--	0.4	
<i>Ablabesmyia</i>	09021011001		12.44	8	PR		1.3
<i>Ablabesmyia mallochi</i>	09021011001004	12.00			--	1.3	
<i>Pentaneura</i>	09021011014		2.07	6	PR		0.2
<i>Pentaneura inconspicua</i>	09021011014028	2.00			--	0.2	
<i>Cricotopus</i>	09021011037		2.07	7	SH		0.2
<i>Cricotopus vierriensis</i>	09021011037071	2.00			--	0.2	
<i>Orthocladius</i>	09021011050		16.59	6	CG		1.7
<i>Orthocladius carlatus</i>	09021011050093	16.00			--	1.7	
<i>Parametriocnemus</i>	09021011053	4.00	4.15	5	CG	0.4	0.4
<i>Synorthocladius</i>	09021011061	10.00	10.37	2	CG	1.0	1.1
<i>Rheotanytarsus</i>	09021011072			6	CF		
<i>Tanytarsus</i>	09021011076	6.00	6.22	6	CF	0.6	0.7
<i>Dicrotendipes</i>	09021011085	4.00	8.30	8	CG	0.4	0.9
<i>Dicrotendipes neomodestus</i>	09021011085152	4.00			--	0.4	
<i>Microtendipes</i>	09021011094		6.22	6	CF		0.7
<i>Microtendipes rydalensis group</i>	09021011094168	6.00			--	0.6	
<i>Polypedilum</i>	09021011102	2.00	43.56	6	SH	0.2	4.6
<i>Polypedilum flavum</i>	09021011102182	40.00			--	4.2	
<i>Simulium</i>	09021012047		2.00	4	CF		0.2
<i>Simulium jenningsi</i>	09021012047060	2.00			--	0.2	