



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

Station Information

Station Number: S-1001 River Basin: Androscoggin
Waterbody: Little Androscoggin River - Station 1001 HUC8 Name: Lower Androscoggin
Town: Oxford Latitude: 44 7 57.65 N
Directions: 427 MAIN STREET (ROUTE 26) Longitude: 70 27 38.09 W
Stream Order: 4

Sample Information

Log Number: 2667 Type of Sample: ROCK BAG Date Deployed: 7/19/2018
Subsample Factor: X1 Replicates: 3 Date Retrieved: 8/16/2018

Classification Attainment

Statutory Class: C Final Determination: A Date: 3/29/2019
Model Result with $P \geq 0.6$: A Reason for Determination: Model
Date Last Calculated: 3/29/2019 Comments:

Model Probabilities

First Stage Model				C or Better Model	
Class A	0.60	Class C	0.01	Class A, B, or C	1.00
Class B	0.39	NA	0.00	Non-Attainment	0.00
B or Better Model				A Model	
Class A or B		1.00		Class A	0.88
Class C or Non-Attainment		0.00		Class B or C or Non-Attainment	0.12

Model Variables

01 Total Mean Abundance	426.33	18 Relative Abundance Ephemeroptera	0.34
02 Generic Richness	56.00	19 EPT Generic Richness	27.00
03 Plecoptera Mean Abundance	4.33	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.00
04 Ephemeroptera Mean Abundance	143.00	23 Relative Generic Richness- Plecoptera	0.02
05 Shannon-Wiener Generic Diversity	3.88	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	131.43
06 Hilsenhoff Biotic Index	4.70	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	94.89
07 Relative Abundance - Chironomidae	0.23	28 EP Generic Richness/14	0.93
08 Relative Generic Richness Diptera	0.30	30 Presence of Class A Indicator Taxa/7	0.29
09 <i>Hydropsyche</i> Abundance	3.67		
11 <i>Cheumatopsyche</i> Abundance	117.67		
12 EPT Generic Richness/ Diptera Generic Richness	1.59		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	4.33		
16 Tanypodinae Mean Abundance (Family Functional Group)	24.84		
17 Chironomini Abundance (Family Functional Group)	8.73		

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Cheumatopsyche</i>	27.60
2	<i>Maccaffertium</i>	21.24
3	<i>Rheotanytarsus</i>	8.50
4	<i>Baetis</i>	8.29
5	<i>Thienemannimyia</i>	2.76



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Station Number: S-1001	Town: Oxford	Date Deployed: 7/19/2018
Log Number: 2667	Waterbody: Little Androscoggin River - Station 1001	Date Retrieved: 8/16/2018

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL COLE

Waterbody Information - Deployment

Temperature:	21.9 deg C
Dissolved Oxygen:	8.71 mg/l
Dissolved Oxygen Saturation:	98.4 %
Specific Conductance:	128.2 uS/cm
Velocity:	18.3 cm/s
pH:	7.09
Wetted Width:	22 m
Bankfull Width:	27 m
Depth:	59 cm

Waterbody Information - Retrieval

Temperature:	24.8 deg C
Dissolved Oxygen:	8.94 mg/l
Dissolved Oxygen Saturation:	107 %
Specific Conductance:	113.1 uS/cm
Velocity:	24.4 cm/s
pH:	6.98
Wetted Width:	22 m
Bankfull Width:	27 m
Depth:	60 cm

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Upland Conifer	Open	Rolling
Upland Hardwood		
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>
Nps Pollution	Below Dam	Boulder 5 %
Nutrients	Below Point Source	Rubble/Cobble 45 %
		Sand 40 %
		Silt 10 %

Landcover Summary - 2004 Data

Sample Comments

FISH, SILTY BOTTOM



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Aquatic Life Taxonomic Inventory Report

Station Number: S-1001

Waterbody: Little Androscoggin River - Station 1001

Town: Oxford

Log Number: 2667

Subsample Factor: X1

Replicates: 3

Calculated: 3/29/2019

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Girardia</i>	03010102002	2.00	2.00		--	0.5	0.5
<i>Orconectes</i>	09010301008	1.67	1.67		CG	0.4	0.4
<i>Acroneuria</i>	09020209042	3.33	4.33	0	PR	0.8	1.0
<i>Acroneuria lycorias</i>	09020209042125	1.00			--	0.2	
<i>Boyeria</i>	09020301004		3.67	2	PR		0.9
<i>Boyeria grafiana</i>	09020301004011	0.67			--	0.2	
<i>Boyeria vinosa</i>	09020301004012	3.00			--	0.7	
<i>Hagenius</i>	09020302008		0.33	1	PR		0.1
<i>Hagenius brevistylus</i>	09020302008015	0.33			PR	0.1	
<i>Baetis</i>	09020401001	1.67	35.33	4	CG	0.4	8.3
<i>Baetis flavistriga</i>	09020401001004	23.33			--	5.5	
<i>Baetis intercalaris</i>	09020401001008	10.33			--	2.4	
<i>Centropetium</i>	09020401003	0.33	0.33	2	CG	0.1	0.1
<i>Acerpenna</i>	09020401007	1.00	4.00	5	CG	0.2	0.9
<i>Acerpenna macdunnoughi</i>	09020401007001	0.33			--	0.1	
<i>Acerpenna pygmaea</i>	09020401007011	2.67			--	0.6	
<i>Procloeon</i>	09020401010	3.33	3.33		CG	0.8	0.8
<i>Diphetor</i>	09020401013		0.33		--		0.1
<i>Diphetor hageni</i>	09020401013001	0.33			--	0.1	
<i>Iswaeon</i>	09020401015	0.67	0.67		--	0.2	0.2
Heptageniidae	09020402	2.33			--	0.5	
<i>Leucrocota</i>	09020402011	0.33	0.34	1	SC	0.1	0.1
<i>Stenacron</i>	09020402014	3.33	4.10	7	SC	0.8	1.0
<i>Stenacron interpunctatum</i>	09020402014045	0.67			--	0.2	
<i>Maccaffertium</i>	09020402015	69.00	90.56	4	SC	16.2	21.2
<i>Maccaffertium modestum</i>	09020402015051	19.00			--	4.5	
<i>Maccaffertium vicarium</i>	09020402015055	0.33			--	0.1	
<i>Isonychia</i>	09020404018		1.00	2	CF		0.2
<i>Isonychia bicolor</i>	09020404018059	1.00			--	0.2	
<i>Ephemerella</i>	09020410035	1.33	1.33	1	CG	0.3	0.3
<i>Caenis</i>	09020412040	1.67	1.67	7	CG	0.4	0.4
<i>Chimarra</i>	09020601003	0.67	4.33	2	CF	0.2	1.0
<i>Chimarra aterrima</i>	09020601003002	1.33			--	0.3	
<i>Chimarra obscura</i>	09020601003003	2.33			--	0.5	
<i>Cernotina</i>	09020603006	2.67	2.67		PR	0.6	0.6
<i>Neureclipsis</i>	09020603008	0.67	0.67	7	CF	0.2	0.2
Hydropsychidae	09020604				--		



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Town: Oxford

Log Number: 2667

Subsample Factor: X1

Replicates: 3

Calculated: 3/29/2019

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Cheumatopsyche</i>	09020604015	117.67	117.67	5	CF	27.6	27.6
<i>Hydropsyche</i>	09020604016	1.33	3.67	4	CF	0.3	0.9
<i>Hydropsyche morosa</i>	09020604016030	1.00			--	0.2	
<i>Hydropsyche betteni</i>	09020604016037	1.33			--	0.3	
<i>Macrostemum</i>	09020604018	6.00	6.00	3	CF	1.4	1.4
Hydroptilidae	09020607				--		
<i>Hydroptila</i>	09020607026	1.67	1.67	6	P	0.4	0.4
<i>Oxyethira</i>	09020607028	0.33	0.33	3	P	0.1	0.1
<i>Brachycentrus</i>	09020609043		0.67	0	CF		0.2
<i>Brachycentrus numerosus</i>	09020609043098	0.67			--	0.2	
<i>Micrasema</i>	09020609044	1.67	1.67	2	SH	0.4	0.4
<i>Pycnopsyche</i>	09020610049	6.33	6.33	4	SH	1.5	1.5
Leptoceridae	09020618	0.33			--	0.1	
<i>Ceraclea</i>	09020618072	0.67	0.69	3	CG	0.2	0.2
<i>Triaenodes</i>	09020618077	0.33	0.35	6	SH	0.1	0.1
<i>Oecetis</i>	09020618078	1.33	8.30	8	PR	0.3	1.9
<i>Oecetis avara</i>	09020618078153	3.67			--	0.9	
<i>Oecetis persimilis</i>	09020618078157	3.00			--	0.7	
<i>Nigronia</i>	09020701003		0.67	0	PR		0.2
<i>Nigronia serricornis</i>	09020701003003	0.67			--	0.2	
<i>Tipula</i>	09021001002	0.33	0.33	4	SH	0.1	0.1
Chironomidae	09021011	0.67			--	0.2	
<i>Ablabesmyia</i>	09021011001		2.35	8	PR		0.6
<i>Ablabesmyia mallochi</i>	09021011001004	2.33			--	0.5	
<i>Labrundinia</i>	09021011008		2.01	7	PR		0.5
<i>Labrundinia pilosella</i>	09021011008022	2.00			--	0.5	
<i>Nilotanytus</i>	09021011012		8.73	6	PR		2.0
<i>Nilotanytus fimbriatus</i>	09021011012027	8.67			--	2.0	
<i>Thienemannimyia</i>	09021011020		11.75	3	PR		2.8
<i>Thienemannimyia group</i>	09021011020041	11.67			--	2.7	
<i>Corynoneura</i>	09021011036	2.00	2.01	7	CG	0.5	0.5
<i>Cricotopus</i>	09021011037	2.00	4.70	7	SH	0.5	1.1
<i>Cricotopus bicinctus</i>	09021011037057	2.67			--	0.6	
<i>Nanocladius</i>	09021011049	4.67	4.70	3	CG	1.1	1.1
<i>Rheocricotopus</i>	09021011057	2.67	2.68	6	CG	0.6	0.6
<i>Thienemanniella</i>	09021011062	7.33	7.38	6	CG	1.7	1.7
<i>Rheotanytarsus</i>	09021011072	0.33	36.25	6	CF	0.1	8.5
<i>Rheotanytarsus exiguus group</i>	09021011072127	33.67			CF	7.9	



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<i>Rheotanytarsus pellucidus</i>	09021011072128	2.00			CF	0.5	
<i>Tanytarsus</i>	09021011076	6.67	6.71	6	CF	1.6	1.6
<i>Microtendipes</i>	09021011094		5.71	6	CF		1.3
<i>Microtendipes rydalensis group</i>	09021011094168	5.67			--	1.3	
<i>Nilothauma</i>	09021011095	1.33	1.34	2	--	0.3	0.3
<i>Polypedilum</i>	09021011102		1.68	6	SH		0.4
<i>Polypedilum flavum</i>	09021011102182	1.33			--	0.3	
<i>Polypedilum halterale group</i>	09021011102193	0.33			--	0.1	
<i>Simulium</i>	09021012047	0.33	0.33	4	CF	0.1	0.1
<i>Hemerodromia</i>	09021016057	0.33	0.33	3	PR	0.1	0.1
<i>Dubiraphia</i>	09021113064	4.00	4.00	6	--	0.9	0.9
<i>Macronychus</i>	09021113065		4.33	4	--		1.0
<i>Macronychus glabratus</i>	09021113065040	4.33			--	1.0	
<i>Optioservus</i>	09021113067	0.67	0.67	3	SC	0.2	0.2
<i>Promoresia</i>	09021113069		1.00		--		0.2
<i>Promoresia elegans</i>	09021113069051	0.33			--	0.1	
<i>Promoresia tardella</i>	09021113069052	0.67			--	0.2	
<i>Stenelmis</i>	09021113070	5.00	5.00	5	SC	1.2	1.2
<i>Menetus</i>	10010203031		0.67		--		0.2
<i>Menetus dilatatus</i>	10010203031059	0.67			--	0.2	
Sphaeriidae	10020201	1.00	1.00		CF	0.2	0.2