



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

Station Information

Station Number:	S-1033	River Basin:	Androscoggin
Waterbody:	Little Androscoggin River - Station 1033	HUC8 Name:	Lower Androscoggin
Town:	Minot	Latitude:	44° 5' 4.210" N
Directions:	47M DOWNSTREAM OF EAST POLAND ROAD BRIDGE.	Longitude:	70° 19' 17.933" W
		Stream Order:	4

Sample Information

Log Number:	2260	Type of Sample:	ROCK BAG	Date Deployed:	7/14/2014
Subsample Factor:	X4	Replicates:	2	Date Retrieved:	8/12/2014

Classification Attainment

Statutory Class:	B	Final Determination:	B	Date:	11/3/2014
Model Result with $P \geq 0.6$:	B	Reason for Determination:	Model		
Date Last Calculated:	11/3/2014	Comments:	Indeterminate for Class A (0.45). Not raised to Class A based on Total Mean Abundance.		

Model Probabilities

<u>First Stage Model</u>				<u>C or Better Model</u>	
Class A	0.22	Class C	0.05	Class A, B, or C	1.00
Class B	0.72	NA	0.00	Non-Attainment	0.00
<u>B or Better Model</u>				<u>A Model</u>	
Class A or B			1.00	Class A	0.45
Class C or Non-Attainment			0.00	Class B or C or Non-Attainment	0.55

Model Variables

01 Total Mean Abundance	2998.00	18 Relative Abundance Ephemeroptera	0.24
02 Generic Richness	36.00	19 EPT Generic Richness	21.00
03 Plecoptera Mean Abundance	16.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.00
04 Ephemeroptera Mean Abundance	722.00	23 Relative Generic Richness- Plecoptera	0.06
05 Shannon-Wiener Generic Diversity	3.30	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	296.03
06 Hilsenhoff Biotic Index	3.39	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	133.10
07 Relative Abundance - Chironomidae	0.07	28 EP Generic Richness/14	0.86
08 Relative Generic Richness Diptera	0.33	30 Presence of Class A Indicator Taxa/7	0.43
09 <i>Hydropsyche</i> Abundance	686.35		
11 <i>Cheumatopsyche</i> Abundance	296.03		
12 EPT Generic Richness/ Diptera Generic Richness	1.75		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	16.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	0.00		
17 Chironomini Abundance (Family Functional Group)	62.00		

Five Most Dominant Taxa		
Rank	Taxon Name	Percent
1	<i>Hydropsyche</i>	22.89
2	<i>Isonychia</i>	17.41
3	<i>Chimarra</i>	16.48
4	<i>Simulium</i>	10.74
5	<i>Cheumatopsyche</i>	9.87



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

Station Number: S-1033	Town: Minot	Date Deployed: 7/14/2014
Log Number: 2260	Waterbody: Little Androscoggin River - Station 1033	Date Retrieved: 8/12/2014

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature:	25 deg C
Dissolved Oxygen:	7.9 mg/l
Specific Conductance:	83 uS/cm
Velocity:	72 cm/s
pH:	7.14
Wetted Width:	42 m
Bankfull Width:	46 m
Depth:	50 cm

Waterbody Information - Retrieval

Temperature:	22.3 deg C
Dissolved Oxygen:	8.4 mg/l
Specific Conductance:	84 uS/cm
Velocity:	104 cm/s
pH:	6.9
Wetted Width:	44 m
Bankfull Width:	46 m
Depth:	60 cm

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Pasture	Open	Rolling
Upland Hardwood		
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>
Nutrients	Below Point Source	Bedrock 5 %
Regulated Flows	Below Road Crossing	Boulder 25 %
Urban Runoff		Rubble/Cobble 70 %

Landcover Summary - 2004 Data

Sample Comments

8/12/14- HIGHER WATER, SMELLS FUNNY, 1 BAG VANDALIZED.

7/14/14-ALGAE PRESENT, FILTER FEEDERS.



Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Taxonomic Inventory Report

Station Number: S-1033

Waterbody: Little Androscoggin River - Station 1033

Town: Minot

Log Number: 2260

Subsample Factor: X4

Replicates: 2

Calculated: 11/3/2014

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
Perlidae	09020209	6.00			--	0.2	
<i>Perlesta</i>	09020209046	2.00	3.20	5	PR	0.1	0.1
<i>Paragnetina</i>	09020209049		12.80	1	PR		0.4
<i>Paragnetina media</i>	09020209049151	8.00			--	0.3	
Baetidae	09020401	4.00			--	0.1	
<i>Baetis</i>	09020401001	6.00	28.60	4	CG	0.2	1.0
<i>Baetis flavistriga</i>	09020401001004	2.00			--	0.1	
<i>Baetis intercalaris</i>	09020401001008	14.00			--	0.5	
<i>Baetis pluto</i>	09020401001009	4.00			--	0.1	
<i>Heterocloeon</i>	09020401005	8.00	13.20	2	SC	0.3	0.4
<i>Heterocloeon curiosum</i>	09020401005020	4.00			--	0.1	
<i>Plauditus</i>	09020401012	2.00	2.20		CG	0.1	0.1
Heptageniidae	09020402	8.00			--	0.3	
<i>Epeorus</i>	09020402009	6.00	6.34	0	SC	0.2	0.2
<i>Heptagenia</i>	09020402010	8.00	8.45	2	SC	0.3	0.3
<i>Leucrocuta</i>	09020402011	2.00	2.11	1	SC	0.1	0.1
<i>Maccaffertium</i>	09020402015	110.00	133.10	4	SC	3.7	4.4
<i>Maccaffertium modestum</i>	09020402015051	16.00			--	0.5	
<i>Isonychia</i>	09020404018	522.00	522.00	2	CF	17.4	17.4
<i>Ephemerella</i>	09020410035	2.00	2.00	1	CG	0.1	0.1
<i>Serratella</i>	09020410037		4.00	2	CG		0.1
<i>Serratella serratoidea</i>	09020410037124	4.00			--	0.1	
Philopotamidae	09020601	2.00	2.00		--	0.1	0.1
<i>Chimarra</i>	09020601003	122.00	494.00	2	CF	4.1	16.5
<i>Chimarra obscura</i>	09020601003003	360.00			--	12.0	
<i>Chimarra socia</i>	09020601003004	12.00			--	0.4	
Hydropsychidae	09020604	102.00			--	3.4	
<i>Cheumatopsyche</i>	09020604015	270.00	296.03	5	CF	9.0	9.9
<i>Hydropsyche</i>	09020604016	266.00	686.35	4	CF	8.9	22.9
<i>Hydropsyche morosa</i>	09020604016030	14.00			--	0.5	
<i>Hydropsyche sparna</i>	09020604016032	344.00			--	11.5	
<i>Hydropsyche simulans</i>	09020604016049	2.00			--	0.1	
<i>Macrostemum</i>	09020604018		177.62	3	CF		5.9
<i>Macrostemum zebratum</i>	09020604018054	162.00			--	5.4	
<i>Rhyacophila</i>	09020605019	2.00	6.00	2	PR	0.1	0.2
<i>Rhyacophila fuscula</i>	09020605019060	4.00			PR	0.1	
<i>Protophila</i>	09020606022	2.00	2.00	1	SC	0.1	0.1
<i>Hydroptila</i>	09020607026	2.00	2.00	6	P	0.1	0.1



Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Taxonomic Inventory Report

Station Number: S-1033 Waterbody: Little Androscoggin River - Station 1033 Town: Minot
Log Number: 2260 Subsample Factor: X4 Replicates: 2 Calculated: 11/3/2014

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Ceraclea</i>	09020618072	2.00	2.00	3	CG	0.1	0.1
<i>Nigronia</i>	09020701003		32.00	0	PR		1.1
<i>Nigronia serricornis</i>	09020701003003	32.00			--	1.1	
<i>Pagastia</i>	09021011025		4.00	1	--		0.1
<i>Pagastia orthogonia</i>	09021011025001	4.00			--	0.1	
<i>Corynoneura</i>	09021011036	2.00	2.00	7	CG	0.1	0.1
<i>Eukiefferiella</i>	09021011041		4.00	8	CG		0.1
<i>Eukiefferiella similis group</i>	09021011041082	4.00			--	0.1	
<i>Nanocladius</i>	09021011049		2.00	3	CG		0.1
<i>Nanocladius spiniplenus</i>	09021011049090	2.00			--	0.1	
<i>Parametriocnemus</i>	09021011053	2.00	2.00	5	CG	0.1	0.1
<i>Thienemanniella</i>	09021011062	2.00	2.00	6	CG	0.1	0.1
<i>Tvetenia</i>	09021011065		64.00	5	CG		2.1
<i>Tvetenia vitracies</i>	09021011065113	44.00			--	1.5	
<i>Tvetenia paucunca</i>	09021011065114	20.00			--	0.7	
<i>Rheotanytarsus</i>	09021011072		72.00	6	CF		2.4
<i>Rheotanytarsus exiguus</i>	09021011072127	72.00			CF	2.4	
<i>Microtendipes</i>	09021011094		2.00	6	CF		0.1
<i>Microtendipes rydalensis group</i>	09021011094168	2.00			--	0.1	
<i>Polypedilum</i>	09021011102		60.00	6	SH		2.0
<i>Polypedilum aviceps</i>	09021011102181	2.00			--	0.1	
<i>Polypedilum flavum</i>	09021011102182	58.00			--	1.9	
<i>Simulium</i>	09021012047	4.00	322.00	4	CF	0.1	10.7
<i>Simulium fibrinflatum</i>	09021012047059	48.00			--	1.6	
<i>Simulium jenningsi species group</i>	09021012047070	270.00			CF	9.0	
<i>Hemerodromia</i>	09021016057	8.00	8.00	3	PR	0.3	0.3
<i>Promoresia</i>	09021113069		4.00		--		0.1
<i>Promoresia elegans</i>	09021113069051	2.00			--	0.1	
<i>Promoresia tardella</i>	09021113069052	2.00			--	0.1	
<i>Stenelmis</i>	09021113070	6.00	12.00	5	SC	0.2	0.4
<i>Stenelmis concinna</i>	09021113070054	6.00			--	0.2	