



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

**Station Information**

<b>Station Number:</b> S-1186	River Basin: Androscoggin
Waterbody: Androscoggin River - Station 1186	HUC8 Name: Lower Androscoggin
Town: Rumford	Latitude: 44 32 36.24 N
Directions: LOCATED APPROXIMATELY 200 FT DS OF MIDDLE IMPOUNDMENT - IN BYPASS	Longitude: 70 32 46.83 W
	Stream Order: 6

**Sample Information**

<b>Log Number:</b> 2853	Type of Sample: ROCK BASKET	Date Deployed: 7/30/2020
Subsample Factor: X1	Replicates: 3	Date Retrieved: 8/27/2020

**Classification Attainment**

<b>Statutory Class:</b> C	<b>Final Determination:</b> A	Date: 11/23/2020
Model Result with $P \geq 0.6$ : A	<b>Reason for Determination:</b> Model	
Date Last Calculated: 11/23/2020	Comments:	

**Model Probabilities**

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.79	Class A, B, or C	1.00
Class B	0.21	Non-Attainment	0.00
		<u>A Model</u>	
<u>B or Better Model</u>		Class A	1.00
Class A or B	1.00	Class B or C or Non-Attainment	0.00
Class C or Non-Attainment	0.00		

**Model Variables**

01 Total Mean Abundance	633.33	18 Relative Abundance Ephemeroptera	0.38
02 Generic Richness	58.00	19 EPT Generic Richness	27.00
03 Plecoptera Mean Abundance	7.33	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.33
04 Ephemeroptera Mean Abundance	243.00	23 Relative Generic Richness- Plecoptera	0.07
05 Shannon-Wiener Generic Diversity	3.93	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	30.05
06 Hilsenhoff Biotic Index	3.79	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	99.00
07 Relative Abundance - Chironomidae	0.11	28 EP Generic Richness/14	1.14
08 Relative Generic Richness Diptera	0.38	30 Presence of Class A Indicator Taxa/7	0.57
09 <i>Hydropsyche</i> Abundance	96.00		
11 <i>Cheumatopsyche</i> Abundance	20.00		
12 EPT Generic Richness/ Diptera Generic Richness	1.23		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	4.67		
16 Tanypodinae Mean Abundance (Family Functional Group)	12.39		
17 Chironomini Abundance (Family Functional Group)	16.41		

**Five Most Dominant Taxa**

Rank	Taxon Name	Percent
1	<i>Chimarra</i>	20.37
2	<i>Maccaffertium</i>	15.21
3	<i>Hydropsyche</i>	15.16
4	<i>Acerpenna</i>	13.26
5	<i>Paraleptophlebia</i>	4.00



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**Log Number: 2853**      Waterbody: Androscoggin River - Station 1186      Date Retrieved: 8/27/2020

**Sample Collection and Processing Information**

Sampling Organization: NORMANDEAU ASSOCIATES      Taxonomist: NORMANDEAU ASSOCIATES

**Waterbody Information - Deployment**

Temperature:                      25.3 deg C  
Dissolved Oxygen:                7.95 mg/l  
Dissolved Oxygen Saturation:    96.8 %  
Specific Conductance:            38 uS/cm  
Velocity:                            11.28 cm/s  
pH:                                    6.6  
Wetted Width:                     28.8 m  
Bankfull Width:                  61.9 m  
Depth:                                99 cm

**Waterbody Information - Retrieval**

Temperature:                      21.3 deg C  
Dissolved Oxygen:                9.05 mg/l  
Dissolved Oxygen Saturation:    102.1 %  
Specific Conductance:            37 uS/cm  
Velocity:                            11.13 cm/s  
pH:                                    6.7  
Wetted Width:                     29.1 m  
Bankfull Width:                  60.9 m  
Depth:                                97 cm

**Water Chemistry**

**Summary of Habitat Characteristics**

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>	
Upland Hardwood	Open	Hilly	
Urban			
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>	
Regulated Flows	Below Dam	Bedrock	0 %
Thermal	Below Road Crossing	Boulder	95 %
Urban Runoff		Clay	0 %
		Detritus	0 %
		Gravel	0 %
		Muck	0 %
		Rubble/Cobble	5 %
		Sand	0 %
		Silt	0 %

**Landcover Summary - 2004 Data**

**Sample Comments**



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**Log Number: 2853**      Subsample Factor: X1      Replicates: 3      Calculated: 11/23/2020

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
DugesIIDae	03010102	17.67	17.67		--	2.8	2.8
<i>Nais</i>	08020202009		0.33		CG		0.1
<i>Nais communis</i>	08020202009005	0.33			--	0.1	
<i>Isoperla</i>	09020207026	2.67	2.67	2	PR	0.4	0.4
<i>Acroneuria</i>	09020209042	2.67	2.67	0	PR	0.4	0.4
<i>Paragnetina</i>	09020209049		1.00	1	PR		0.2
<i>Paragnetina immarginata</i>	09020209049149	0.67			--	0.1	
<i>Paragnetina media</i>	09020209049151	0.33			--	0.1	
<i>Agnatina</i>	09020209050	0.67	1.00	2	PR	0.1	0.2
<i>Agnatina capitata</i>	09020209050152	0.33		2	PR	0.1	
<i>Hagenius</i>	09020302008		0.67	1	PR		0.1
<i>Hagenius brevistylus</i>	09020302008015	0.67			PR	0.1	
Libellulidae	09020306	0.33	0.33		--	0.1	0.1
<i>Baetis</i>	09020401001	3.00	3.00	4	CG	0.5	0.5
<i>Acerpenna</i>	09020401007		84.00	5	CG		13.3
<i>Acerpenna pygmaea</i>	09020401007011	84.00			--	13.3	
<i>Plauditus</i>	09020401012	4.33	4.33		CG	0.7	0.7
<i>Leucrocuta</i>	09020402011	14.67	14.67	1	SC	2.3	2.3
<i>Stenacron</i>	09020402014	1.33	1.33	7	SC	0.2	0.2
<i>Maccaffertium</i>	09020402015		96.33	4	SC		15.2
<i>Maccaffertium modestum</i>	09020402015051	96.33			--	15.2	
<i>Isonychia</i>	09020404018	5.67	5.67	2	CF	0.9	0.9
<i>Paraleptophlebia</i>	09020406026	25.33	25.33	1	CG	4.0	4.0
<i>Ephemerella</i>	09020410035	5.67	5.67	1	CG	0.9	0.9
<i>Serratella</i>	09020410037	0.67	0.67	2	CG	0.1	0.1
<i>Tricorythodes</i>	09020411038	1.00	1.00	4	CG	0.2	0.2
<i>Caenis</i>	09020412040	1.00	1.00	7	CG	0.2	0.2
<i>Chimarra</i>	09020601003	129.00	129.00	2	CF	20.4	20.4
<i>Polycentropus</i>	09020603010	10.67	10.67	6	PR	1.7	1.7
<i>Cheumatopsyche</i>	09020604015	20.00	20.00	5	CF	3.2	3.2
<i>Hydropsyche</i>	09020604016	72.67	96.00	4	CF	11.5	15.2
<i>Hydropsyche morosa</i>	09020604016030	10.67			--	1.7	
<i>Hydropsyche phalerata</i>	09020604016047	12.67			--	2.0	
<i>Macrostemum</i>	09020604018		2.67	3	CF		0.4
<i>Macrostemum zebratum</i>	09020604018054	2.67			--	0.4	
<i>Rhyacophila</i>	09020605019	0.33	0.33	2	PR	0.1	0.1
<i>Hydroptila</i>	09020607026	0.33	0.33	6	P	0.1	0.1



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Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Mayatrichia</i>	09020607033	0.33	0.33		SC	0.1	0.1
<i>Psilotreta</i>	09020614068	0.33	0.33	0	SC	0.1	0.1
Leptoceridae	09020618	8.00			--	1.3	
<i>Ceraclea</i>	09020618072	2.00	4.82	3	CG	0.3	0.8
<i>Oecetis</i>	09020618078	3.67	8.84	8	PR	0.6	1.4
<i>Corydalus</i>	09020701002		0.33	6	PR		0.1
<i>Corydalus cornutus</i>	09020701002002	0.33			--	0.1	
Chironomidae	09021011	0.33			--	0.1	
<i>Ablabesmyia</i>	09021011001		3.01	8	PR		0.5
<i>Ablabesmyia mallochii</i>	09021011001004	3.00			--	0.5	
<i>Labrundinia</i>	09021011008	0.67	0.67	7	PR	0.1	0.1
<i>Nilotanytus</i>	09021011012		2.34	6	PR		0.4
<i>Nilotanytus fimbriatus</i>	09021011012027	2.33			--	0.4	
<i>Pentaneura</i>	09021011014		3.68	6	PR		0.6
<i>Pentaneura inconspicua</i>	09021011014028	3.67			--	0.6	
<i>Thienemannimyia</i>	09021011020		2.68	3	PR		0.4
<i>Thienemannimyia group</i>	09021011020041	2.67			--	0.4	
<i>Diamesa</i>	09021011024	1.33	1.34	5	CG	0.2	0.2
<i>Corynoneura</i>	09021011036	0.33	0.33	7	CG	0.1	0.1
<i>Cricotopus</i>	09021011037	5.33	5.36	7	SH	0.8	0.8
<i>Eukiefferiella</i>	09021011041	0.67	0.67	8	CG	0.1	0.1
<i>Orthocladius</i>	09021011050	3.33	3.35	6	CG	0.5	0.5
<i>Rheocricotopus</i>	09021011057		5.36	6	CG		0.8
<i>Rheocricotopus robacki</i>	09021011057105	5.33			--	0.8	
<i>Synorthocladius</i>	09021011061	0.33	0.33	2	CG	0.1	0.1
<i>Tvetenia</i>	09021011065		4.02	5	CG		0.6
<i>Tvetenia vitracies</i>	09021011065113	4.00			--	0.6	
<i>Rheotanytarsus</i>	09021011072	0.33	17.75	6	CF	0.1	2.8
<i>Rheotanytarsus exiguus group</i>	09021011072127	9.33			CF	1.5	
<i>Rheotanytarsus pellucidus</i>	09021011072128	8.00			CF	1.3	
<i>Tanytarsus</i>	09021011076	1.67	1.67	6	CF	0.3	0.3
<i>Dicrotendipes</i>	09021011085	0.33	0.33	8	CG	0.1	0.1
<i>Microtendipes</i>	09021011094		2.34	6	CF		0.4
<i>Microtendipes pedellus group</i>	09021011094166	2.33			--	0.4	
<i>Polypedilum</i>	09021011102		13.73	6	SH		2.2
<i>Polypedilum aviceps</i>	09021011102181	0.33			--	0.1	
<i>Polypedilum flavum</i>	09021011102182	12.67			--	2.0	



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<i>Polypedilum illinoense group</i>	09021011102185	0.33			--	0.1	
<i>Polypedilum ontario</i>	09021011102194	0.33			--	0.1	
<i>Helopelopia</i>	090210111114	0.33	0.33	6	PR	0.1	0.1
<i>Simulium</i>	09021012047	8.33	8.33	4	CF	1.3	1.3
<i>Atherix</i>	09021015055		0.33	2	PR		0.1
<i>Atherix lantha</i>	09021015055089	0.33			--	0.1	
<i>Hemerodromia</i>	09021016057	0.33	0.33	3	PR	0.1	0.1
<i>Dineutus</i>	09021104032	1.33	1.33	2	--	0.2	0.2
<i>Stenelmis</i>	09021113070		9.00	5	SC		1.4
<i>Stenelmis humerosa</i>	09021113070056	9.00			--	1.4	
<i>Sperchon</i>	09030107001	1.33	1.33		--	0.2	0.2
<i>Amnicola</i>	10010104013	0.33	0.33		SC	0.1	0.1