



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

Station Information

**Station Number: S-956**  
Waterbody: Androscoggin River - Station 956  
Town: Brunswick  
Directions: ABOVE PEJEPSCOT; RIVER ROAD- PUBLIC FISHING PARK  
DEP Drainage: Androscoggin  
HUC8: 01040002  
HUC8 Name: Lower Androscoggin  
Latitude:  
Longitude:  
Stream Order: 5

Sample Information

**Log Number: 1978** Type of Sample: CONE Date Deployed: 7/27/2010  
Subsample Factor: X1 Replicates: 3 Date Retrieved: 9/8/2010

Classification Attainment

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

Model Probabilities

First Stage Model		C or Better Model	
Class A	0.00	Class A, B, or C	0.80
Class B	0.01	Non-Attainment	0.20
B or Better Model		A Model	
Class A or B	0.00	Class A	0.01
Class C or Non-Attainment	1.00	Class B or C or Non-Attainment	0.99

Model Variables

01 Total Mean Abundance	75.33	18 Relative Abundance Ephemeroptera	0.24
02 Generic Richness	36.00	19 EPT Generic Richness	10.00
03 Plecoptera Mean Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.00
04 Ephemeroptera Mean Abundance	18.00	23 Relative Generic Richness- Plecoptera	0.00
05 Shannon-Wiener Generic Diversity	4.16	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	4.00
06 Hilsenhoff Biotic Index	6.62	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	4.67
07 Relative Abundance - Chironomidae	0.13	28 EP Generic Richness/14	0.21
08 Relative Generic Richness Diptera	0.19	30 Presence of Class A Indicator Taxa/7	0.14
09 <i>Hydropsyche</i> Abundance	0.67		
11 <i>Cheumatopsyche</i> Abundance	1.00		
12 EPT Generic Richness/ Diptera	1.43		
Generic Richness			
13 Relative Abundance - Oligochaeta	0.03		
15 Perlidae Mean Abundance	0.00		
(Family Functional Group)			
16 Tanypodinae Mean Abundance	2.67		
(Family Functional Group)			
17 Chironomini Abundance (Family	6.33		
Functional Group)			

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Stenacron</i>	17.26
2	<i>Oecetis</i>	15.49
3	<i>Amnicola</i>	10.18
4	<i>Tribelos</i>	7.52
5	<i>Maccaffertium</i>	6.19



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Waterbody: Androscoggin River - Station 956

Date Retrieved: 9/8/2010

**Sample Collection and Processing Information**

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

**Waterbody Information - Deployment**

Temperature: 25.2 deg C  
Dissolved Oxygen: 7.9 mg/l  
Specific Conductance: 92 uS/cm  
Velocity:  
pH:  
Wetted Width:  
Bankfull Width:  
Depth: 600 cm

**Waterbody Information - Retrieval**

Temperature: 22.8 deg C  
Dissolved Oxygen: 7.9 mg/l  
Specific Conductance: 103 uS/cm  
Velocity:  
pH:  
Wetted Width:  
Bankfull Width:  
Depth:

**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>
Impounded	Above Dam	Gravel 5 %
Urban Runoff		Sand 90 %
		Silt 5 %

**Landcover Summary - 2004 Data**

**Sample Comments**

9/8/2010: DO AT 6M DEPTH WAS 8.7 PPM.

7/27/2010: FLOW NOT VISIBLE; PAPERMILL POTENTIAL STRESSOR; CHARACTERISTICS OF BOTTOM AS VISIBLE NEAR SHORE; DEPTH ABOUT 20 FT; DO AT BOTTOM 7.9 PPM.

7/27/2010 FLOW NOT VISIBLE; PAPERMILL POTENTIAL STRESSOR; CHARACTERISTICS OF BOTTOM AS VISIBLE NEAR SHORE; DEPTH ABOUT 20 FT; D. O. AT BOTTOM AND SURFACE 7.9 PPM.



**Maine Department of Environmental Protection  
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Aquatic Life Taxonomic Inventory Report**

<b>Station Number: S-956</b>	Waterbody: Androscoggin River - Station 956	Town: Brunswick
<b>Log Number: 1978</b>	Subsample Factor: X1	Replicates: 3
		Calculated: 12/7/2010

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
Turbellaria	0301	1.33	1.33		--	1.8	1.8
<i>Girardia</i>	03010102002		0.67		--		0.9
<i>Girardia tigrina</i>	03010102002001	0.67			--	0.9	
<i>Prostoma</i>	04010101001	0.33	0.33		--	0.4	0.4
<i>Eclipidrilus</i>	08020101003	0.33	0.33		--	0.4	0.4
Naididae	08020202	1.00			--	1.3	
<i>Slavina</i>	08020202012		0.83		--		1.1
<i>Slavina appendiculata</i>	08020202012001	0.33			--	0.4	
<i>Limnodrilus</i>	08020202022		0.83		CG		1.1
<i>Limnodrilus hoffmeisteri</i>	08020202022003	0.33			--	0.4	
<i>Caecidotea</i>	09010101001	2.00	2.67	8	SH	2.7	3.5
<i>Caecidotea racovitzai racovitzai</i>	09010101001002	0.67			--	0.9	
<i>Synurella</i>	09010202006		0.33		--		0.4
<i>Synurella chamberlaini</i>	09010202006001	0.33			--	0.4	
<i>Hyaella</i>	09010203006		1.00	8	CG		1.3
<i>Hyaella azteca</i>	09010203006011	1.00			--	1.3	
<i>Orconectes</i>	09010301008		1.33		CG		1.8
<i>Orconectes limosus</i>	09010301008013	1.33			--	1.8	
<i>Gomphus</i>	09020302012		0.33	5	PR		0.4
<i>Gomphus lividus</i>	09020302012025	0.33			--	0.4	
Coenagrionidae	09020309	0.33			--	0.4	
<i>Argia</i>	09020309048	3.33	4.25	7	PR	4.4	5.6
<i>Argia moesta</i>	09020309048096	0.67			--	0.9	
<i>Enallagma</i>	09020309051	1.33	1.42	9	PR	1.8	1.9
<i>Stenacron</i>	09020402014	3.00	13.00	7	SC	4.0	17.3
<i>Stenacron interpunctatum</i>	09020402014045	10.00			--	13.3	
<i>Maccaffertium</i>	09020402015	3.67	4.67	4	SC	4.9	6.2
<i>Maccaffertium modestum</i>	09020402015051	1.00			--	1.3	
Leptophlebiidae	09020406	0.33	0.33		--	0.4	0.4
Polycentropodidae	09020603	0.33			--	0.4	
<i>Neureclipsis</i>	09020603008	1.00	1.06	7	CF	1.3	1.4
<i>Polycentropus</i>	09020603010	4.33	4.60	6	PR	5.8	6.1
<i>Cheumatopsyche</i>	09020604015	1.00	1.00	5	CF	1.3	1.3
<i>Hydropsyche</i>	09020604016	0.33	0.67	4	CF	0.4	0.9
<i>Hydropsyche phalerata</i>	09020604016047	0.33			--	0.4	
<i>Hydroptila</i>	09020607026			6	P		
<i>Oxyethira</i>	09020607028	0.33	0.33	3	P	0.4	0.4
<i>Brachycentrus</i>	09020609043		0.33	0	CF		0.4



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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>Brachycentrus numerosus</i>	09020609043098	0.33			--	0.4	
Leptoceridae	09020618				--		
<i>Oecetis</i>	09020618078		11.67	8	PR		15.5
<i>Oecetis inconspicua complex</i>	09020618078156	11.67			--	15.5	
<i>Sialis</i>	09020702004	1.00	1.00	4	PR	1.3	1.3
<i>Probezzia</i>	09021010041	0.33	0.33	6	PR	0.4	0.4
<i>Ablabesmyia</i>	09021011001		2.67	8	PR		3.5
<i>Ablabesmyia mallochi</i>	09021011001004	1.00			--	1.3	
<i>Ablabesmyia monilis</i>	09021011001009	1.67			--	2.2	
<i>Cricotopus</i>	09021011037		0.33	7	SH		0.4
<i>Cricotopus bicinctus</i>	09021011037057	0.33			--	0.4	
<i>Orthocladius</i>	09021011050		0.33	6	CG		0.4
<i>Orthocladius carlatus</i>	09021011050093	0.33			--	0.4	
<i>Psectrocladius</i>	09021011056	0.33	0.33	8	CG	0.4	0.4
<i>Microtendipes</i>	09021011094		0.67	6	CF		0.9
<i>Microtendipes rydalensis group</i>	09021011094168	0.67			--	0.9	
<i>Tribelos</i>	09021011107		5.67	5	CG		7.5
<i>Tribelos jucundum</i>	09021011107198	5.67			--	7.5	
<i>Stenelmis</i>	09021113070	0.33	0.33	5	SC	0.4	0.4
<i>Campeloma</i>	10010102004		1.00		SC		1.3
<i>Campeloma decisum</i>	10010102004009	1.00			--	1.3	
<i>Amnicola</i>	10010104013		7.67		SC		10.2
<i>Amnicola limosa</i>	10010104013018	6.67			--	8.8	
<i>Amnicola grana</i>	10010104013019	1.00			--	1.3	
<i>Physa</i>	10010202026	0.33	0.33		SC	0.4	0.4
<i>Musculium</i>	10020201001		1.00		CF		1.3
<i>Musculium securis</i>	10020201001003	1.00			CF	1.3	
<i>Pisidium</i>	10020201002	0.33	0.33		CF	0.4	0.4