

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

**Station Information**

<b>Station Number:</b> S79	DEP Drainage: Androscoggin
Waterbody: Little Androscoggin River	HUC Code: 01040002
Town: PARIS	HUC Name: Lower Androscoggin
Directions: 70 m below So. Paris POTW	Latitude: 44 Deg 12 Min 38 Sec
	Longitude: 70 Deg 31 Min 14 Sec
	Stream Order: 4

**Sample Information**

<b>Log Number:</b> 1239	Type of Sample: Rock Baskets	Date Deployed: 21-JUL-03
Subsample Factor: X4	Replicates: 3	Date Retrieved: 18-AUG-03

**Classification Attainment**

Statutory Class: C	<b>Final Determination:</b> B	
Model Result with P > .6: B	Reason for Determination: Model	
Date Last Calculated:		

**Model Probabilities**

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.31	Class A, B, or C	1.00
Class B	0.64	Non-Attainment	0.00
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	0.98	Class A	0.04
Class C or Non-Attainment	0.02	Class B or C or Non-Attainment	0.96

**Model Variables**

01 Total Abundance of Individuals	656.00	18 Relative Abundance - Ephemeroptera	0.12
02 Generic Richness	52.00	19 EPT Generic Richness	17.00
03 Plecoptera Abundance	10.67	21 Sum of Abundances: <i>Dicrotendipes</i> ,	13.38
04 Ephemeroptera Abundance	81.33	<i>Micropsectra, Parachironomus, Helobdella</i>	
05 Shannon - Wiener Diversity	4.11	23 Relative Generic Richness- Plecoptera	0.02
06 Hilsenhoff Biotic Index	5.33	25 Sum of Abundances: <i>Cheumatopsyche</i> ,	73.72
07 Relative Abundance - Chironomidae	0.59	<i>Cricotopus, Tanytarsus, Ablabesmyia</i>	
08 Relative Generic Richness - Diptera	0.38	26 Sum of Abundances: <i>Acroneuria, Stenonema</i>	38.67
09 <i>Hydropsyche</i> Abundance	27.57	28 EP Generic Richness/14	0.50
11 <i>Cheumatopsyche</i> Abundance	34.92	30 Presence of Class A Indicator Taxa/7	0.00
12 EPT Generic Richness/ Diptera Generic Richness	0.85		

**Five Most Dominant Taxa**

	Taxa Rank	Taxa Name	Percent
13 Relative Abundance - Oligochaeta	1	Rheotanytarsus	36.71
15 Perlidae Abundance (Family Functional Group)	2	Cheumatopsyche	5.32
16 Tanypodinae Abundance (Family Functional Group)	3	Tanytarsus	5.30
17 Chironomini Abundance (Family Functional Group)	4	Polypedilum	4.69
	5	Stenonema	4.27

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**Sample Collection and Processing Information**

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Sampling Organization:  
Taxonomist: Michael Winnell

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**Waterbody Information**

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Water Temperature:	21.5 °C	Specific Conductance	140.0 uS/cm	Channel Width:	20.0 m
Velocity:	9 cm/s	Dissolved Oxygen:	8.4 ppm	Channel Depth:	35.0 cm

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**Summary of Habitat Characteristics**

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<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Stressor</u>	<u>Location</u>
Upland Hardwood Urban	Partly Open		Below POTW

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**Substrate**

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Rubble	Gravel	Sand
20%	50%	30%

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**Comments about the Station or Sample**

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8/18/03 Data:  
Flow: 25.5cm/s; Depth: 45cm; Temp: 22.8C; SPC: 81uS/cm; DO: 8.8mg/L; pH:6.77

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**Comments about the Final Determination**

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**BioME Aquatic Life Taxonomic Inventory Report**

Taxa	Code	Count (Average of Baskets)		Biotic Index Value	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Chaetogaster</i>	08020202002	0.00	1.33		--	0.0	0.2
<i>Chaetogaster limnaei</i>	08020202002004	1.33	0.00		--	0.2	0.0
<i>Nais</i>	08020202009	0.00	4.00		CG	0.0	0.6
<i>Nais variabilis</i>	08020202009009	4.00	0.00		--	0.6	0.0
<i>Slavina</i>	08020202012	0.00	9.33		--	0.0	1.4
<i>Slavina appendiculata</i>	08020202012001	9.33	0.00		--	1.4	0.0
<i>Vejdovskyella</i>	08020202015	0.00	1.33		--	0.0	0.2
<i>Vejdovskyella comata</i>	08020202015001	1.33	0.00		--	0.2	0.0
<i>Branchiobdellidae</i>	08020401	8.00	8.00		--	1.2	1.2
<i>Hyalella</i>	09010203006	0.00	1.33	8	CG	0.0	0.2
<i>Hyalella azteca</i>	09010203006011	1.33	0.00		--	0.2	0.0
<i>Orconectes</i>	09010301008	0.00	2.67		CG	0.0	0.4
<i>Orconectes limosus</i>	09010301008013	2.67	0.00		--	0.4	0.0
<i>Acroneuria</i>	09020209042	1.33	10.67	0	PR	0.2	1.6
<i>Acroneuria lycorias</i>	09020209042125	9.33	0.00		--	1.4	0.0
<i>Boyeria</i>	09020301004	0.00	6.67	2	PR	0.0	1.0
<i>Boyeria vinosa</i>	09020301004012	6.67	0.00		--	1.0	0.0
<i>Calopterygidae</i>	09020307	4.00	4.00		--	0.6	0.6
<i>Argia</i>	09020309048	9.33	9.33	7	PR	1.4	1.4
<i>Baetidae</i>	09020401	5.33	0.00		--	0.8	0.0
<i>Pseudocloeon</i>	09020401006	1.33	1.78	4	SC	0.2	0.3
<i>Acerpenna</i>	09020401007	0.00	1.78	5	CG	0.0	0.3
<i>Acerpenna pygmaea</i>	09020401007011	1.33	0.00		--	0.2	0.0
<i>Plauditus</i>	09020401012	13.33	17.78		CG	2.0	2.7
<i>Heptageniidae</i>	09020402	21.33	21.33		--	3.3	3.3
<i>Stenonema</i>	09020402015	16.00	28.00	4	SC	2.4	4.3
<i>Stenonema luteum</i>	09020402015049	9.33	0.00		--	1.4	0.0
<i>Stenonema modestum</i>	09020402015051	2.67	0.00		--	0.4	0.0
<i>Isonychia</i>	09020404018	10.67	10.67	2	CF	1.6	1.6
<i>Trichoptera</i>	090206	1.33	1.33		--	0.2	0.2
<i>Philopotamidae</i>	09020601	1.33	1.33		--	0.2	0.2
<i>Chimarra</i>	09020601003	9.33	9.33	2	CF	1.4	1.4
<i>Polycentropodidae</i>	09020603	1.33	0.00		--	0.2	0.0
<i>Cernotina</i>	09020603006	2.67	3.56		PR	0.4	0.5
<i>Nyctiophylax</i>	09020603009	0.00	1.78	5	PR	0.0	0.3
<i>Nyctiophylax celta</i>	09020603009012	1.33	0.00		--	0.2	0.0
<i>Hydropsychidae</i>	09020604	18.67	0.00		--	2.8	0.0
<i>Cheumatopsyche</i>	09020604015	25.33	34.92	5	CF	3.9	5.3

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Taxa	Code	Count (Average of Baskets)		Biotic Index Value	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Hydropsyche</i>	09020604016	17.33	27.57	4	CF	2.6	4.2
<i>Hydropsyche morosa</i>	09020604016030	1.33	0.00		--	0.2	0.0
<i>Hydropsyche sparna</i>	09020604016032	1.33	0.00		--	0.2	0.0
<i>Macrostemum</i>	09020604018	0.00	5.51	3	CF	0.0	0.8
<i>Macrostemum zebratum</i>	09020604018054	4.00	0.00		--	0.6	0.0
<i>Rhyacophilidae</i>	09020605	4.00	4.00		--	0.6	0.6
<i>Ceraclea</i>	09020618072	1.33	1.33	3	CG	0.2	0.2
<i>Oecetis</i>	09020618078	0.00	1.33	8	PR	0.0	0.2
<i>Oecetis avara</i>	09020618078153	1.33	0.00		--	0.2	0.0
<i>Corydalus</i>	09020701002	0.00	1.33	6	PR	0.0	0.2
<i>Corydalus cornutus</i>	09020701002002	1.33	0.00		--	0.2	0.0
<i>Chironomidae</i>	09021011	1.33	0.00		--	0.2	0.0
<i>Conchapelopia</i>	09021011004	1.33	1.34	6	PR	0.2	0.2
<i>Labrundinia</i>	09021011008	0.00	2.68	7	PR	0.0	0.4
<i>Labrundinia pilosella</i>	09021011008022	2.67	0.00		--	0.4	0.0
<i>Nilotanypus</i>	09021011012	0.00	1.34	6	PR	0.0	0.2
<i>Nilotanypus fimbriatus</i>	09021011012027	1.33	0.00		--	0.2	0.0
<i>Pentaneura</i>	09021011014	0.00	8.03	6	PR	0.0	1.2
<i>Pentaneura inconspicua</i>	09021011014028	8.00	0.00		--	1.2	0.0
<i>Corynoneura</i>	09021011036	4.00	4.01	7	CG	0.6	0.6
<i>Cricotopus</i>	09021011037	2.67	4.01	7	SH	0.4	0.6
<i>Cricotopus bicinctus</i>	09021011037057	1.33	0.00		--	0.2	0.0
<i>Nanocladius</i>	09021011049	4.00	6.69	3	CG	0.6	1.0
<i>Nanocladius spiniplenus</i>	09021011049090	2.67	0.00		--	0.4	0.0
<i>Rheocricotopus</i>	09021011057	0.00	10.70	6	CG	0.0	1.6
<i>Rheocricotopus robacki</i>	09021011057105	10.67	0.00		--	1.6	0.0
<i>Synorthocladius</i>	09021011061	1.33	1.34	2	CG	0.2	0.2
<i>Thienemanniella</i>	09021011062	4.00	4.01	6	CG	0.6	0.6
<i>Tvetenia</i>	09021011065	0.00	4.01	5	CG	0.0	0.6
<i>Tvetenia vitracies</i>	09021011065113	4.00	0.00		--	0.6	0.0
<i>Paratanytarsus</i>	09021011071	12.00	12.04	6	--	1.8	1.8
<i>Rheotanytarsus</i>	09021011072	240.00	240.82	6	CF	36.6	36.7
<i>Tanytarsus</i>	09021011076	4.00	34.79	6	CF	0.6	5.3
<i>Tanytarsus glabrescens</i>	09021011076134	30.67	0.00		--	4.7	0.0
<i>Dicrotendipes</i>	09021011085	13.33	13.38	8	CG	2.0	2.0
<i>Microtendipes</i>	09021011094	0.00	2.68	6	CF	0.0	0.4
<i>Microtendipes rydalensis-grp.</i>	09021011094168	2.67	0.00		--	0.4	0.0
<i>Nilothauma</i>	09021011095	6.67	6.69	2	--	1.0	1.0

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<i>Polypedilum</i>	09021011102	0.00	30.77	6	SH	0.0	4.7
<i>Polypedilum aviceps</i>	09021011102181	1.33	0.00		--	0.2	0.0
<i>Polypedilum flavum</i>	09021011102182	29.33	0.00		--	4.5	0.0
<i>Simuliidae</i>	09021012	1.33	1.33		--	0.2	0.2
<i>Simulium</i>	09021012047	1.33	10.67	4	CF	0.2	1.6
<i>Simulium jenningsi</i>	09021012047060	9.33	0.00		--	1.4	0.0
<i>Psephenus</i>	09021108058	0.00	1.33	4	SC	0.0	0.2
<i>Psephenus herricki</i>	09021108058028	1.33	0.00		--	0.2	0.0
<i>Acariformes</i>	090301	1.33	1.33		--	0.2	0.2
<i>Helisoma</i>	10010203030	0.00	8.00		SC	0.0	1.2
<i>Helisoma anceps</i>	10010203030058	8.00	0.00		--	1.2	0.0
<i>Ferrissia</i>	10010204035	2.67	10.67		SC	0.4	1.6
<i>Ferrissia rivularis</i>	10010204035066	8.00	0.00		--	1.2	0.0