

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

**Station Information**

<b>Station Number:</b> S824	DEP Drainage: Androscoggin
Waterbody: Jepson Brook	HUC Code: 01040002
Town: LEWISTON	HUC Name: Lower Androscoggin
Directions: downstrm of Riverside St and Summer St	Latitude: Deg Min Sec
	Longitude: Deg Min Sec
	Stream Order:

**Sample Information**

<b>Log Number:</b> 1592	Type of Sample: Riffle Bags	Date Deployed: 14-AUG-06
Subsample Factor: X1	Replicates: 3	Date Retrieved: 14-SEP-06

**Classification Attainment**

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

**Model Probabilities**

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

**Model Variables**

01 Total Abundance of Individuals	64.00	18 Relative Abundance - Ephemeroptera	0.01
02 Generic Richness	23.00	19 EPT Generic Richness	4.00
03 Plecoptera Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes</i> ,	0.33
04 Ephemeroptera Abundance	0.33	<i>Micropsectra, Parachironomus, Helobdella</i>	
05 Shannon - Wiener Diversity	2.77	23 Relative Generic Richness- Plecoptera	0.00
06 Hilsenhoff Biotic Index	6.99	25 Sum of Abundances: <i>Cheumatopsyche</i> ,	3.16
07 Relative Abundance - Chironomidae	0.06	<i>Cricotopus, Tanytarsus, Ablabesmyia</i>	
08 Relative Generic Richness - Diptera	0.30	26 Sum of Abundances: <i>Acroneuria, Stenonema</i>	0.00
09 <i>Hydropsyche</i> Abundance	4.29	28 EP Generic Richness/14	0.07
11 <i>Cheumatopsyche</i> Abundance	0.71	30 Presence of Class A Indicator Taxa/7	0.00
12 EPT Generic Richness/ Diptera Generic Richness	0.57		

**Five Most Dominant Taxa**

		Taxa Rank	Taxa Name	Percent
13 Relative Abundance - Oligochaeta	0.01	1	Caecidotea	47.92
15 Perlidae Abundance (Family Functional Group)	0.00	2	Crangonyx	16.67
16 Tanypodinae Abundance (Family Functional Group)	0.00	3	Stenelmis	8.86
17 Chironomini Abundance (Family Functional Group)	0.00	4	Hydropsyche	6.70
		5	Cricotopus	2.86

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**Sample Collection and Processing Information**

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Sampling Organization: DEP  
Taxonomist:      Lotic

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**Waterbody Information**

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Water Temperature: 15.8 °C	Specific Conductance 429.0 uS/cm	Channel Width: 3.8 m
Velocity: 12 cm/s	Dissolved Oxygen: 8.1 ppm	Channel Depth: 15.0 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	Dense		Below Urban NPS

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**Substrate**

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Bedrock	Boulder	Rubble	Gravel	Sand
55%	20%	15%	5%	5%

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**Comments about the Station or Sample**

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9/14/06: Width: 3.2m; Flow: 13cm/s; Depth: 25cm; T: 16.5C; SPC: 258uS/cm; DO: 7.7mg/L; pH: 7.43;

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**Comments about the Final Determination**

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**Maine Department of Environmental Protection  
Biological Monitoring Unit**

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**Town:** LEWISTON

**Log Number:** 1592    **Subsample:** X1

**Replicates:** 3

**Calculated:**

**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>Hydra</i>	02010101001			0.33	0.33
<i>Planariidae</i>	03010101	1.00	1.00		--	1.6	1.6
<i>Naididae</i>	08020202	0.33	0.33		--	0.5	0.5
<i>Glossiphonia</i>	08030101004	0.00	0.67		--	0.0	1.0
<i>Glossiphonia complanata</i>	08030101004001	0.67	0.00		--	1.0	0.0
<i>Helobdella</i>	08030101005	0.00	0.33		--	0.0	0.5
<i>Helobdella stagnalis</i>	08030101005004	0.33	0.00		--	0.5	0.0
<i>Erpobdellidae</i>	08030301	0.33	0.33		--	0.5	0.5
<i>Caecidotea</i>	09010101001	30.67	30.67	8	SH	47.9	47.9
<i>Crangonyx</i>	09010202004	10.67	10.67	8	--	16.7	16.7
<i>Orconectes</i>	09010301008	0.33	0.33		CG	0.5	0.5
<i>Calopteryx</i>	09020307043	1.00	1.00	5	PR	1.6	1.6
<i>Ephemerellidae</i>	09020410	0.33	0.33		--	0.5	0.5
<i>Chimarra</i>	09020601003	0.00	1.67	2	CF	0.0	2.6
<i>Chimarra aterrima</i>	09020601003002	1.67	0.00		--	2.6	0.0
<i>Hydropsychidae</i>	09020604	0.33	0.00		--	0.5	0.0
<i>Cheumatopsyche</i>	09020604015	0.67	0.71	5	CF	1.0	1.1
<i>Hydropsyche</i>	09020604016	4.00	4.29	4	CF	6.3	6.7
<i>Tipula</i>	09021001002	0.33	0.33	4	SH	0.5	0.5
<i>Antocha</i>	09021001004	0.67	0.67	3	CG	1.0	1.0
<i>Chironomidae</i>	09021011	1.67	0.00		--	2.6	0.0
<i>Cricotopus</i>	09021011037	1.00	1.83	7	SH	1.6	2.9
<i>Limnophyes</i>	09021011047	0.33	0.61	8	CG	0.5	1.0
<i>Rheotanytarsus</i>	09021011072	0.33	0.61	6	CF	0.5	1.0
<i>Tanytarsus</i>	09021011076	0.33	0.61	6	CF	0.5	1.0
<i>Simulium</i>	09021012047	0.67	0.67	4	CF	1.0	1.0
<i>Stenelmis</i>	09021113070	5.67	5.67	5	SC	8.9	8.9
<i>Planorbella</i>	10010203032	0.33	0.33		SC	0.5	0.5