

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

**Station Information**

<b>Station Number:</b> S244	DEP Drainage: Androscoggin
<b>Waterbody:</b> Androscoggin River	HUC Code: 01040002
<b>Town:</b> LIVERMORE	HUC Name: Lower Androscoggin
<b>Directions:</b> Livermore impoundment	Latitude: Deg Min Sec
	Longitude: Deg Min Sec
	Stream Order: 6

**Sample Information**

<b>Log Number:</b> 1410	Type of Sample: Cones	Date Deployed: 20-JUL-04
Subsample Factor: X4	Replicates: 3	Date Retrieved: 13-SEP-04

**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	0.42	Class A, B, or C	1.00
Class B	0.57	Non-Attainment	0.00
		<u>A Model</u>	
<u>B or Better Model</u>		Class A	0.13
Class A or B	1.00	Class B or C or Non-Attainment	0.87
Class C or Non-Attainment	0.00		

**Model Variables**

01 Total Abundance of Individuals	2114.67	18 Relative Abundance - Ephemeroptera	0.09
02 Generic Richness	52.00	19 EPT Generic Richness	16.00
03 Plecoptera Abundance	14.67	21 Sum of Abundances: <i>Dicrotendipes</i> ,	1.68
04 Ephemeroptera Abundance	196.00	<i>Micropsectra, Parachironomus, Helobdella</i>	
05 Shannon - Wiener Diversity	3.09	23 Relative Generic Richness- Plecoptera	0.04
06 Hilsenhoff Biotic Index	3.96	25 Sum of Abundances: <i>Cheumatopsyche</i> ,	760.29
07 Relative Abundance - Chironomidae	0.12	<i>Cricotopus, Tanytarsus, Ablabesmyia</i>	
08 Relative Generic Richness - Diptera	0.46	26 Sum of Abundances: <i>Acroneuria, Stenonema</i>	165.75
09 <i>Hydropsyche</i> Abundance	215.11	28 EP Generic Richness/14	0.57
11 <i>Cheumatopsyche</i> Abundance	728.42	30 Presence of Class A Indicator Taxa/7	0.14
12 EPT Generic Richness/ Diptera Generic Richness	0.67		

**Five Most Dominant Taxa**

	Taxa Rank	Taxa Name	Percent
	1	<i>Cheumatopsyche</i>	34.45
	2	Chimarra	26.99
	3	<i>Hydropsyche</i>	10.17
	4	<i>Stenonema</i>	7.21
	5	<i>Rheotanytarsus</i>	4.05

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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:      23.4 °C      Specific Conductance      Channel Width:      216.0 m  
Velocity:      Dissolved Oxygen:      7.9 ppm      Channel Depth:

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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	Open		Impoundment
Urban			

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**Substrate**

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**Comments about the Station or Sample**

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7/20/04Data:  
DO: is surface; 9/13/04Data:surface Temp: 19..6; SPC: 79uS/cm; DO: 8.2mg/L; pH: 7.55

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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>Prostoma</i>	04010101001			1.33	1.33
<i>Ripistes</i>	08020202011	0.00	2.67		--	0.0	0.1
<i>Ripistes parasita</i>	08020202011001	2.67	0.00		--	0.1	0.0
<i>Aeolosoma</i>	08020301001	2.67	2.67		--	0.1	0.1
<i>Gloiobdella</i>	08030101009	0.00	1.33		--	0.0	0.1
<i>Gloiobdella elongata</i>	08030101009001	1.33	0.00		--	0.1	0.0
<i>Orconectes</i>	09010301008	0.00	2.67		CG	0.0	0.1
<i>Orconectes limosus</i>	09010301008013	2.67	0.00		--	0.1	0.0
<i>Perlodidae</i>	09020207	1.33	1.33		--	0.1	0.1
<i>Acroneuria</i>	09020209042	0.00	13.33	0	PR	0.0	0.6
<i>Acroneuria lycorias</i>	09020209042125	13.33	0.00		--	0.6	0.0
<i>Macromia</i>	09020304021	0.00	1.33	2	PR	0.0	0.1
<i>Macromia illinoiensis</i>	09020304021045	1.33	0.00		--	0.1	0.0
<i>Neurocordulia</i>	09020305026	2.67	14.67	2	PR	0.1	0.7
<i>Neurocordulia obsoleta</i>	09020305026051	12.00	0.00		--	0.6	0.0
<i>Argia</i>	09020309048	1.33	1.33	7	PR	0.1	0.1
<i>Baetidae</i>	09020401	1.33	1.33		--	0.1	0.1
<i>Heptageniidae</i>	09020402	41.33	0.00		--	2.0	0.0
<i>Leucrocuta</i>	09020402011	22.67	29.11	1	SC	1.1	1.4
<i>Stenacron</i>	09020402014	0.00	5.14	7	SC	0.0	0.2
<i>Stenacron interpunctatum</i>	09020402014045	4.00	0.00		--	0.2	0.0
<i>Stenonema</i>	09020402015	84.00	152.42	4	SC	4.0	7.2
<i>Stenonema mediopunctatum</i>	09020402015050	10.67	0.00		--	0.5	0.0
<i>Stenonema modestum</i>	09020402015051	24.00	0.00		--	1.1	0.0
<i>Leptophlebiidae</i>	09020406	6.67	6.67		--	0.3	0.3
<i>Ephemerellidae</i>	09020410	1.33	1.33		--	0.1	0.1
<i>Chimarra</i>	09020601003	570.67	570.67	2	CF	27.0	27.0
<i>Polycentropodidae</i>	09020603	2.67	0.00		--	0.1	0.0
<i>Cernotina</i>	09020603006	4.00	4.50		PR	0.2	0.2
<i>Neureclipsis</i>	09020603008	13.33	15.00	7	CF	0.6	0.7
<i>Polycentropus</i>	09020603010	4.00	4.50	6	PR	0.2	0.2
<i>Hydropsychidae</i>	09020604	97.33	0.00		--	4.6	0.0
<i>Cheumatopsyche</i>	09020604015	654.67	728.42	5	CF	31.0	34.4
<i>Hydropsyche</i>	09020604016	21.33	215.11	4	CF	1.0	10.2
<i>Hydropsyche morosa</i>	09020604016030	21.33	0.00		--	1.0	0.0
<i>Hydropsyche phalerata</i>	09020604016047	84.00	0.00		--	4.0	0.0
<i>Hydropsyche scalaris-group</i>	09020604016048	18.67	0.00		--	0.9	0.0

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Taxa	Code	Count (Average of Baskets)		Biotic Index Value	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
		<i>Hydropsyche simulans</i>	09020604016049			48.00	0.00
<i>Macrostemum</i>	09020604018	0.00	17.80	3	CF	0.0	0.8
<i>Macrostemum zebratum</i>	09020604018054	16.00	0.00		--	0.8	0.0
<i>Oecetis</i>	09020618078	2.67	16.00	8	PR	0.1	0.8
<i>Oecetis persimilis</i>	09020618078157	13.33	0.00		--	0.6	0.0
<i>Antocha</i>	09021001004	1.33	1.33	3	CG	0.1	0.1
<i>Chironomidae</i>	09021011	53.33	0.00		--	2.5	0.0
<i>Corynoneura</i>	09021011036	1.33	1.68	7	CG	0.1	0.1
<i>Cricotopus</i>	09021011037	1.33	5.03	7	SH	0.1	0.2
<i>Cricotopus bicinctus</i>	09021011037057	2.67	0.00		--	0.1	0.0
<i>Nanocladius</i>	09021011049	1.33	6.71	3	CG	0.1	0.3
<i>Nanocladius spiniplenus</i>	09021011049090	4.00	0.00		--	0.2	0.0
<i>Thienemanniella</i>	09021011062	1.33	3.35	6	CG	0.1	0.2
<i>Thienemanniella lobapodema</i>	09021011062114	1.33	0.00		--	0.1	0.0
<i>Tvetenia</i>	09021011065	0.00	33.55	5	CG	0.0	1.6
<i>Tvetenia vitracies</i>	09021011065113	26.67	0.00		--	1.3	0.0
<i>Cladotanytarsus</i>	09021011068	4.00	5.03	7	CG	0.2	0.2
<i>Paratanytarsus</i>	09021011071	2.67	3.35	6	--	0.1	0.2
<i>Rheotanytarsus</i>	09021011072	68.00	85.55	6	CF	3.2	4.0
<i>Stempellinella</i>	09021011074	0.00	1.68	2	--	0.0	0.1
<i>Stempellinella leptocelloides</i>	09021011074001	1.33	0.00		--	0.1	0.0
<i>Tanytarsus</i>	09021011076	21.33	26.84	6	CF	1.0	1.3
<i>Pseudochironomus</i>	09021011078	2.67	3.35	5	CG	0.1	0.2
<i>Chironomus</i>	09021011080	2.67	3.35	10	CG	0.1	0.2
<i>Dicrotendipes</i>	09021011085	1.33	1.68	8	CG	0.1	0.1
<i>Microtendipes</i>	09021011094	0.00	8.39	6	CF	0.0	0.4
<i>Microtendipes pedellus-grp.</i>	09021011094166	5.33	0.00		--	0.3	0.0
<i>Microtendipes rydalensis-grp.</i>	09021011094168	1.33	0.00		--	0.1	0.0
<i>Nilothauma</i>	09021011095	2.67	3.35	2	--	0.1	0.2
<i>Polypedilum</i>	09021011102	0.00	11.74	6	SH	0.0	0.6
<i>Polypedilum flavum</i>	09021011102182	9.33	0.00		--	0.4	0.0
<i>Stelechomyia</i>	09021011104	0.00	1.68		--	0.0	0.1
<i>Stelechomyia perpulchra</i>	09021011104193	1.33	0.00		--	0.1	0.0
<i>Stenochironomus</i>	09021011105	1.33	1.68	5	CG	0.1	0.1
<i>Tribelos</i>	09021011107	2.67	6.71	5	CG	0.1	0.3
<i>Tribelos jucundum</i>	09021011107198	2.67	0.00		--	0.1	0.0
<i>Hayesomyia</i>	09021011112	0.00	38.58		--	0.0	1.8

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		Actual	Adjusted			Actual	Adjusted
		<i>Hayesomyia senata</i>	09021011112001			30.67	0.00
<i>Helopelopia</i>	090210111114	5.33	6.71	6	PR	0.3	0.3
<i>Simulium</i>	09021012047	1.33	30.67	4	CF	0.1	1.5
<i>Simulium fibrinflatum</i>	09021012047059	5.33	0.00		--	0.3	0.0
<i>Simulium jenningsi</i>	09021012047060	22.67	0.00		--	1.1	0.0
<i>Simulium tuberosum</i>	09021012047067	1.33	0.00		--	0.1	0.0
<i>Hemerodromia</i>	09021016057	4.00	4.00	3	PR	0.2	0.2
<i>Stenelmis</i>	09021113070	1.33	2.67	5	SC	0.1	0.1
<i>Stenelmis crenata</i>	09021113070055	1.33	0.00		--	0.1	0.0
<i>Gastropoda</i>	1001	1.33	1.33		--	0.1	0.1
<i>Ferrissia</i>	10010204035	1.33	1.33		SC	0.1	0.1
<i>Sphaeriidae</i>	10020201	1.33	1.33		CF	0.1	0.1
<i>Pisidium</i>	10020201002	1.33	1.33		CF	0.1	0.1