



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

**Station Information**

<b>Station Number:</b>	<b>S-1002</b>	DEP Drainage:	Androscoggin
Waterbody:	East Brook - Station 1002	HUC8 Name:	Lower Androscoggin
Town:	Weld	Latitude:	44 43 29.49 N
Directions:	25 METERS BELOW 142 ROAD CROSSING. NEAR MAILBOX #495	Longitude:	70 27 30.37 W
		Stream Order:	3

**Sample Information**

<b>Log Number:</b>	<b>2211</b>	Type of Sample:	ROCK BAG	Date Deployed:	7/22/2013
Subsample Factor:	X4	Replicates:	2	Date Retrieved:	8/20/2013

**Classification Attainment**

<b>Statutory Class:</b>	<b>B</b>	<b>Final Determination:</b>	<b>A</b>	Date:	1/30/2014
Model Result with P>.6:	A	<b>Reason for Determination:</b>	<b>Model</b>		
Date Last Calculated:	1/29/2014	Comments:			

**Model Probabilities**

<u>First Stage Model</u>				<u>C or Better Model</u>	
Class A	0.55	Class C	0.01	Class A, B, or C	1.00
Class B	0.44	NA	0.00	Non-Attainment	0.00
<u>B or Better Model</u>				<u>A Model</u>	
Class A or B			1.00	Class A	0.99
Class C or Non-Attainment			0.00	Class B or C or Non-Attainment	0.01

**Model Variables**

01 Total Mean Abundance	648.00	18 Relative Abundance Ephemeroptera	0.30
02 Generic Richness	34.00	19 EPT Generic Richness	20.00
03 Plecoptera Mean Abundance	50.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	4.00
04 Ephemeroptera Mean Abundance	192.00	23 Relative Generic Richness- Plecoptera	0.21
05 Shannon-Wiener Generic Diversity	3.50	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	26.49
06 Hilsenhoff Biotic Index	3.80	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	49.85
07 Relative Abundance - Chironomidae	0.13	28 EP Generic Richness/14	1.00
08 Relative Generic Richness Diptera	0.35	30 Presence of Class A Indicator Taxa/7	0.57
09 <i>Hydropsyche</i> Abundance	229.51		
11 <i>Cheumatopsyche</i> Abundance	20.49		
12 EPT Generic Richness/ Diptera Generic Richness	1.67		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	38.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	0.00		
17 Chironomini Abundance (Family Functional Group)	10.00		

**Five Most Dominant Taxa**

Rank	Taxon Name	Percent
1	<i>Hydropsyche</i>	35.42
2	<i>Baetis</i>	17.20
3	<i>Maccaffertium</i>	6.79
4	<i>Tvetenia</i>	5.86
5	<i>Ephemerella</i>	3.70



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**Sample Collection and Processing Information**

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

**Waterbody Information - Deployment**

Temperature:	18.2 deg C
Dissolved Oxygen:	9 mg/l
Specific Conductance:	36 uS/cm
Velocity:	45.3 cm/s
pH:	6.18
Wetted Width:	12 m
Bankfull Width:	13 m
Depth:	34 cm

**Waterbody Information - Retrieval**

Temperature:	19.1 deg C
Dissolved Oxygen:	8.3 mg/l
Specific Conductance:	32 uS/cm
Velocity:	27.6 cm/s
pH:	6.2
Wetted Width:	10.8 m
Bankfull Width:	13 m
Depth:	25 cm

**Water Chemistry**

**Summary of Habitat Characteristics**

Landuse Name

Upland Conifer

Upland Hardwood

Potential Stressor

Canopy Cover

Partly Open

Location

Below Road Crossing

Pristine Landscape

Terrain

Mountainous

Substrate

Boulder	50 %
Gravel	5 %
Rubble/Cobble	40 %
Sand	5 %

**Landcover Summary - 2004 Data**

**Sample Comments**



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Aquatic Life Taxonomic Inventory Report**

**Station Number: S-1002**

Waterbody: East Brook - Station 1002

Town: Weld

**Log Number: 2211**

Subsample Factor: X4

Replicates: 2

Calculated: 1/29/2014

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Pteronarcys</i>	09020205023		2.00	0	SH		0.3
<i>Pteronarcys biloba</i>	09020205023061	2.00			--	0.3	
<i>Tallaperla</i>	09020206025	6.00	6.00		SH	0.9	0.9
Perlodidae	09020207	2.00	2.00		--	0.3	0.3
<i>Isoperla</i>	09020207026	2.00	2.00	2	PR	0.3	0.3
Perlidae	09020209	12.00			--	1.9	
<i>Acroneuria</i>	09020209042		5.85	0	PR		0.9
<i>Acroneuria abnormis</i>	09020209042121	4.00		0	PR	0.6	
<i>Paragnetina</i>	09020209049		11.69	1	PR		1.8
<i>Paragnetina immarginata</i>	09020209049149	8.00			--	1.2	
<i>Agnatina</i>	09020209050		20.46	2	PR		3.2
<i>Agnatina capitata</i>	09020209050152	14.00		2	PR	2.2	
Baetidae	09020401	14.00			--	2.2	
<i>Baetis</i>	09020401001	48.00	111.45	4	CG	7.4	17.2
<i>Baetis intercalaris</i>	09020401001008	8.00			--	1.2	
<i>Baetis tricaudatus</i>	09020401001012	42.00			--	6.5	
<i>Diphetor</i>	09020401013		4.55		--		0.7
<i>Diphetor hageni</i>	09020401013001	4.00			--	0.6	
Heptageniidae	09020402	4.00	4.00		--	0.6	0.6
<i>Maccaffertium</i>	09020402015	44.00	44.00	4	SC	6.8	6.8
Leptophlebiidae	09020406	2.00	2.00		--	0.3	0.3
<i>Ephemera</i>	09020410035	24.00	24.00	1	CG	3.7	3.7
<i>Serratella</i>	09020410037		2.00	2	CG		0.3
<i>Serratella serratoides</i>	09020410037124	2.00			--	0.3	
<i>Dolophilodes</i>	09020601001	4.00	4.00	0	CF	0.6	0.6
Hydropsychidae	09020604	6.00			--	0.9	
<i>Cheumatopsyche</i>	09020604015	20.00	20.49	5	CF	3.1	3.2
<i>Hydropsyche</i>	09020604016	172.00	229.51	4	CF	26.5	35.4
<i>Hydropsyche slossonae</i>	09020604016031	24.00			--	3.7	
<i>Hydropsyche sparna</i>	09020604016032	28.00			--	4.3	
<i>Rhyacophila</i>	09020605019		20.00	2	PR		3.1
<i>Rhyacophila acutiloba</i>	09020605019056	6.00			PR	0.9	
<i>Rhyacophila fuscata</i>	09020605019060	12.00			PR	1.9	
<i>Rhyacophila minor</i>	09020605019063	2.00			PR	0.3	
<i>Glossosoma</i>	09020606020		2.00	0	SC		0.3
<i>Glossosoma nigrior</i>	09020606020068	2.00			SC	0.3	
<i>Brachycentrus</i>	09020609043		2.00	0	CF		0.3
<i>Brachycentrus appalachia</i>	09020609043096	2.00			--	0.3	



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<i>Rheopelopia acra group</i>	09021011017036				--		
<i>Corynoneura</i>	09021011036	2.00	2.00	7	CG	0.3	0.3
<i>Nanocladius</i>	09021011049		2.00	3	CG		0.3
<i>Nanocladius branchicolus</i>	09021011049091	2.00			--	0.3	
<i>Parametriocnemus</i>	09021011053	2.00	2.00	5	CG	0.3	0.3
<i>Thienemanniella</i>	09021011062		2.00	6	CG		0.3
<i>Thienemanniella xena</i>	09021011062110	2.00			--	0.3	
<i>Tvetenia</i>	09021011065		38.00	5	CG		5.9
<i>Tvetenia paucunca</i>	09021011065114	38.00			--	5.9	
<i>Micropsectra</i>	09021011070	4.00	4.00	7	CG	0.6	0.6
<i>Rheotanytarsus</i>	09021011072	14.00	14.00	6	CF	2.2	2.2
<i>Sublettea</i>	09021011075	2.00	2.00		--	0.3	0.3
<i>Tanytarsus</i>	09021011076	6.00	6.00	6	CF	0.9	0.9
<i>Polypedilum</i>	09021011102		10.00	6	SH		1.5
<i>Polypedilum aviceps</i>	09021011102181	10.00			--	1.5	
<i>Simulium</i>	09021012047		20.00	4	CF		3.1
<i>Simulium tuberosum</i>	09021012047067	20.00			--	3.1	
<i>Roederiodes</i>	09021016058	4.00	4.00	3	PR	0.6	0.6
<i>Oulimnius</i>	09021113068		2.00		--		0.3
<i>Oulimnius latiusculus</i>	09021113068049	2.00			--	0.3	
<i>Promoresia</i>	09021113069		20.00		--		3.1
<i>Promoresia tardella</i>	09021113069052	20.00			--	3.1	