



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

Station Information

**Station Number: S-103**  
Waterbody: Wild River - Station 103  
Town: Gilead  
Directions: 1 KM ABOVE CONFLUENCE WITH ANDROSCOGGIN RIVER

DEP Drainage: Androscoggin  
HUC8 Name: Lower Androscoggin  
Latitude: 44 23 17.93 N  
Longitude: 70 58 47.14 W  
Stream Order: 4

Sample Information

**Log Number: 2217**  
Subsample Factor: X4

Type of Sample: ROCK BAG  
Replicates: 3

Date Deployed: 7/24/2013  
Date Retrieved: 8/21/2013

Classification Attainment

**Statutory Class: AA**  
Model Result with P>.6: A  
Date Last Calculated: 1/29/2014

**Final Determination: A**  
**Reason for Determination: Model**  
Comments:

Date: 1/30/2014

Model Probabilities

First Stage Model		C or Better Model	
Class A	0.73	Class A, B, or C	1.00
Class B	0.26	Non-Attainment	0.00
Class C			
NA			
0.00			
B or Better Model		A Model	
Class A or B	1.00	Class A	1.00
Class C or Non-Attainment	0.00	Class B or C or Non-Attainment	0.00

Model Variables

01 Total Mean Abundance	1378.67	18 Relative Abundance Ephemeroptera	0.18
02 Generic Richness	70.00	19 EPT Generic Richness	30.00
03 Plecoptera Mean Abundance	26.67	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	61.97
04 Ephemeroptera Mean Abundance	242.67	23 Relative Generic Richness- Plecoptera	0.11
05 Shannon-Wiener Generic Diversity	4.66	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	107.54
06 Hilsenhoff Biotic Index	4.30	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	118.67
07 Relative Abundance - Chironomidae	0.47	28 EP Generic Richness/14	1.36
08 Relative Generic Richness Diptera	0.44	30 Presence of Class A Indicator Taxa/7	0.43
09 <i>Hydropsyche</i> Abundance	72.00		
11 <i>Cheumatopsyche</i> Abundance	22.67		
12 EPT Generic Richness/ Diptera Generic Richness	0.97		
13 Relative Abundance - Oligochaeta	0.01		
15 Perlidae Mean Abundance (Family Functional Group)	2.67		
16 Tanypodinae Mean Abundance (Family Functional Group)	127.99		
17 Chironomini Abundance (Family Functional Group)	49.85		

Five Most Dominant Taxa		
Rank	Taxon Name	Percent
1	<i>Rheotanytarsus</i>	16.42
2	<i>Brachycentrus</i>	9.96
3	<i>Maccaffertium</i>	8.51
4	<i>Rhyacophila</i>	5.80
5	<i>Tricorythodes</i>	5.71



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<b>Log Number: 2217</b>	Waterbody: Wild River - Station 103	Date Retrieved: 8/21/2013

**Sample Collection and Processing Information**

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

**Waterbody Information - Deployment**

Temperature:	18.5 deg C
Dissolved Oxygen:	8.5 mg/l
Specific Conductance:	9 uS/cm
Velocity:	37.3 cm/s
pH:	5.42
Wetted Width:	25 m
Bankfull Width:	27 m
Depth:	80 cm

**Waterbody Information - Retrieval**

Temperature:	18.4 deg C
Dissolved Oxygen:	8.8 mg/l
Specific Conductance:	15 uS/cm
Velocity:	21.3 cm/s
pH:	6.26
Wetted Width:	19 m
Bankfull Width:	27 m
Depth:	64 cm

**Water Chemistry**

**Summary of Habitat Characteristics**

Landuse Name

Upland Conifer

Upland Hardwood

Potential Stressor

Canopy Cover

Open

Location

Main Stem

Pristine Landscape

Terrain

Mountainous

Substrate

Boulder	50 %
Gravel	10 %
Rubble/Cobble	30 %
Sand	10 %

**Landcover Summary - 2004 Data**

Total Area (ac)	13571	High Int. Dev. %	0.0	Water %	0.1	Non-vegetated %	0.1
		Med Int. Dev. %	0.0	Wetland %	0.6	Tilled Agriculture %	0.0
		Low Int. Dev. %	0.2	Upland Woody %	99.1	Grassland %	0.0
		Development %	0.3	Natural %	99.7	Human Altered %	0.3
						Impervious %	0.4

**Sample Comments**

7/24/2013 - ROCKS COVERED WITH "FUZZY" GREEN ALGAE

8/21/2013 - FISH, BULBOCHEATE AND ALGAE PRESENT



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Town: Gilead

**Log Number: 2217**

Subsample Factor: X4

Replicates: 3

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>Stylodrilus</i>	08020101004		1.33		--		0.1
<i>Stylodrilus heringianus</i>	08020101004001	1.33			--	0.1	
Naididae	08020202	1.33			--	0.1	
<i>Nais</i>	08020202009		6.40		CG		0.5
<i>Nais behningi</i>	08020202009003	5.33			--	0.4	
<i>Piquetiella</i>	08020202028	1.33	1.60		--	0.1	0.1
<i>Paracapnia</i>	09020203018	1.33	1.33	1	SH	0.1	0.1
<i>Leuctra</i>	09020204020	2.67	4.00	0	SH	0.2	0.3
<i>Leuctra ferruginea</i>	09020204020050	1.33			--	0.1	
<i>Pteronarcys</i>	09020205023		6.67	0	SH		0.5
<i>Pteronarcys biloba</i>	09020205023061	6.67			--	0.5	
Perlodidae	09020207	5.33	5.33		--	0.4	0.4
<i>Isoperla</i>	09020207026	4.00	4.00	2	PR	0.3	0.3
<i>Sweltsa</i>	09020208040	2.67	2.67		PR	0.2	0.2
<i>Acroneuria</i>	09020209042	1.33	1.33	0	PR	0.1	0.1
<i>Agnetina</i>	09020209050		1.33	2	PR		0.1
<i>Agnetina capitata</i>	09020209050152	1.33		2	PR	0.1	
<i>Boyeria</i>	09020301004		2.67	2	PR		0.2
<i>Boyeria grafiana</i>	09020301004011	2.67			--	0.2	
Gomphidae	09020302	1.33	1.33		--	0.1	0.1
Baetidae	09020401	1.33			--	0.1	
<i>Acerpenna</i>	09020401007	2.67	11.43	5	CG	0.2	0.8
<i>Acerpenna macdunnoughi</i>	09020401007001	8.00			--	0.6	
<i>Procloeon</i>	09020401010	1.33	1.43		CG	0.1	0.1
<i>Plauditus</i>	09020401012	1.33	7.14		CG	0.1	0.5
<i>Plauditus cestus</i>	09020401012004	5.33			--	0.4	
Heptageniidae	09020402	4.00	4.00		--	0.3	0.3
<i>Maccaffertium</i>	09020402015	38.67	117.33	4	SC	2.8	8.5
<i>Maccaffertium luteum</i>	09020402015049	78.67			--	5.7	
Leptophlebiidae	09020406	13.33	13.33		--	1.0	1.0
<i>Habrophlebia</i>	09020406023		1.33		--		0.1
<i>Habrophlebia vibrans</i>	09020406023072	1.33			--	0.1	
<i>Ephemerella</i>	09020410035	1.33	1.33	1	CG	0.1	0.1
<i>Eurylophella</i>	09020410036	2.67	2.67	3	CG	0.2	0.2
<i>Serratella</i>	09020410037		4.00	2	CG		0.3
<i>Serratella serratoides</i>	09020410037124	4.00			--	0.3	
<i>Tricorythodes</i>	09020411038	78.67	78.67	4	CG	5.7	5.7
Trichoptera	090206				--		



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Subsample Factor: X4

Replicates: 3

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>Neureclipsis</i>	09020603008	12.00	12.00	7	CF	0.9	0.9
<i>Polycentropus</i>	09020603010	48.00	48.00	6	PR	3.5	3.5
<i>Cheumatopsyche</i>	09020604015	22.67	22.67	5	CF	1.6	1.6
<i>Hydropsyche</i>	09020604016	38.67	72.00	4	CF	2.8	5.2
<i>Hydropsyche morosa</i>	09020604016030	18.67			--	1.4	
<i>Hydropsyche slossonae</i>	09020604016031	13.33			--	1.0	
<i>Hydropsyche sparna</i>	09020604016032	1.33			--	0.1	
<i>Rhyacophila</i>	09020605019		80.00	2	PR		5.8
<i>Rhyacophila minor</i>	09020605019063	76.00			PR	5.5	
<i>Rhyacophila mainensis</i>	09020605019069	4.00			--	0.3	
<i>Hydroptila</i>	09020607026	4.00	4.00	6	P	0.3	0.3
<i>Brachycentrus</i>	09020609043		137.33	0	CF		10.0
<i>Brachycentrus appalachia</i>	09020609043096	136.00			--	9.9	
<i>Brachycentrus numerosus</i>	09020609043098	1.33			--	0.1	
<i>Lepidostoma</i>	09020611064	26.67	26.67	1	SH	1.9	1.9
<i>Helicopsyche</i>	09020616070		5.33	3	SC		0.4
<i>Helicopsyche borealis</i>	09020616070137	5.33			--	0.4	
<i>Mystacides</i>	09020618075		4.00	4	CG		0.3
<i>Mystacides sepulchralis</i>	09020618075147	4.00			--	0.3	
<i>Oecetis</i>	09020618078	1.33	5.33	8	PR	0.1	0.4
<i>Oecetis avara</i>	09020618078153	2.67			--	0.2	
<i>Oecetis persimilis</i>	09020618078157	1.33			--	0.1	
<i>Nigronia</i>	09020701003		5.33	0	PR		0.4
<i>Nigronia serricornis</i>	09020701003003	5.33			--	0.4	
<i>Bezzia/palpomyia</i>	09021010043	1.33	1.33	6	PR	0.1	0.1
Chironomidae	09021011	6.67			--	0.5	
<i>Ablabesmyia</i>	09021011001		4.04	8	PR		0.3
<i>Ablabesmyia mallochii</i>	09021011001004	4.00			--	0.3	
<i>Conchapelopia</i>	09021011004	17.33	17.51	6	PR	1.3	1.3
<i>Nilotanyus</i>	09021011012		5.39	6	PR		0.4
<i>Nilotanyus fimbriatus</i>	09021011012027	5.33			--	0.4	
<i>Rheopelopia</i>	09021011017	16.00	70.06		PR	1.2	5.1
<i>Rheopelopia acra group</i>	09021011017036	53.33			--	3.9	
<i>Trissopelopia</i>	09021011021		30.99		PR		2.2
<i>Trissopelopia ogemawi</i>	09021011021042	30.67			--	2.2	
<i>Pagastia</i>	09021011025		13.47	1	--		1.0
<i>Pagastia orthogonia</i>	09021011025001	13.33			--	1.0	
<i>Brillia</i>	09021011033	1.33	1.35	5	SH	0.1	0.1



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<i>Corynoneura</i>	09021011036	2.67	2.69	7	CG	0.2	0.2
<i>Cricotopus</i>	09021011037	8.00	51.19	7	SH	0.6	3.7
<i>Cricotopus bicinctus</i>	09021011037057	40.00			--	2.9	
<i>Cricotopus patens</i>	09021011037075	2.67			--	0.2	
<i>Eukiefferiella</i>	09021011041		1.35	8	CG		0.1
<i>Eukiefferiella brehmi group</i>	09021011041073	1.33			--	0.1	
<i>Heterotrissocladius</i>	09021011044		1.35	0	CG		0.1
<i>Heterotrissocladius marcidus</i>	09021011044083	1.33			--	0.1	
<i>Nanocladius</i>	09021011049	4.00	4.04	3	CG	0.3	0.3
<i>Orthocladius</i>	09021011050		1.35	6	CG		0.1
<i>Orthocladius annectens</i>	09021011050092	1.33			--	0.1	
<i>Parametriocnemus</i>	09021011053	24.00	24.25	5	CG	1.7	1.8
<i>Psectrocladius</i>	09021011056	1.33	1.35	8	CG	0.1	0.1
<i>Rheocricotopus</i>	09021011057	5.33	8.08	6	CG	0.4	0.6
<i>Rheocricotopus tuberculatus</i>	09021011057106	2.67			--	0.2	
<i>Thienemanniella</i>	09021011062		1.35	6	CG		0.1
<i>Thienemanniella xena</i>	09021011062110	1.33			--	0.1	
<i>Tvetenia</i>	09021011065		36.38	5	CG		2.6
<i>Tvetenia vitracies</i>	09021011065113	30.67			--	2.2	
<i>Tvetenia paucunca</i>	09021011065114	5.33			--	0.4	
<i>Micropsectra</i>	09021011070	61.33	61.97	7	CG	4.4	4.5
<i>Paratanytarsus</i>	09021011071		2.69	6	--		0.2
<i>Paratanytarsus longistylus</i>	09021011071126	2.67		6	--	0.2	
<i>Rheotanytarsus</i>	09021011072	224.00	226.33	6	CF	16.2	16.4
<i>Tanytarsus</i>	09021011076	29.33	29.64	6	CF	2.1	2.1
<i>Pseudochironomus</i>	09021011078	1.33	1.35	5	CG	0.1	0.1
<i>Cryptochironomus</i>	09021011082	1.33	1.35	8	PR	0.1	0.1
<i>Microtendipes</i>	09021011094		8.08	6	CF		0.6
<i>Microtendipes pedellus group</i>	09021011094166	8.00			--	0.6	
<i>Polypedilum</i>	09021011102	1.33	36.38	6	SH	0.1	2.6
<i>Polypedilum aviceps</i>	09021011102181	28.00			--	2.0	
<i>Polypedilum scalaenum group</i>	09021011102189	1.33			--	0.1	
<i>Polypedilum albicorne</i>	09021011102195	5.33			--	0.4	
<i>Robackia</i>	09021011103		2.69		CG		0.2
<i>Robackia demeijerei</i>	09021011103002	2.67			--	0.2	
<i>Atherix</i>	09021015055	2.67	2.67	2	PR	0.2	0.2
<i>Hemerodromia</i>	09021016057	1.33	1.33	3	PR	0.1	0.1
<i>Neoplasta</i>	09021016064	6.67	6.67		PR	0.5	0.5



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		Actual	Adjusted			Actual	Adjusted
<i>Dubiraphia</i>	09021113064		1.33	6	--		0.1
<i>Dubiraphia quadrinotata</i>	09021113064037	1.33			--	0.1	
<i>Promoresia</i>	09021113069		9.33		--		0.7
<i>Promoresia tardella</i>	09021113069052	9.33			--	0.7	
<i>Stenelmis</i>	09021113070		4.00	5	SC		0.3
<i>Stenelmis crenata</i>	09021113070055	4.00			--	0.3	