



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

**Station Information**

<b>Station Number:</b> S-876	DEP Drainage: St. Croix - Coastal
Waterbody: Jordan Stream - Station 876	HUC8:
Town: Mount Desert	HUC8 Name:
Directions:	Latitude: 44 19 18.56 N
	Longitude: 68 15 17.28 W
	Stream Order: 1

**Sample Information**

<b>Log Number:</b> 1989	Type of Sample: ROCK BAG	Date Deployed: 8/9/2010
Subsample Factor: X1	Replicates: 2	Date Retrieved: 9/10/2010

**Classification Attainment**

<b>Statutory Class:</b> AA	<b>Final Determination:</b> NA	Date: 6/10/2011
Model Result with P>.6: NA	<b>Reason for Determination:</b> Model	
Date Last Calculated: 6/9/2011	Comments: One Bag Lost; Lake Outlet Effect; Resample.	

**Model Probabilities**

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.22	Class A, B, or C	0.27
Class B	0.32	Non-Attainment	0.73
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	0.12	Class A	0.02
Class C or Non-Attainment	0.88	Class B or C or Non-Attainment	0.98

**Model Variables**

01 Total Mean Abundance	90.50	18 Relative Abundance Ephemeroptera	0.01
02 Generic Richness	18.00	19 EPT Generic Richness	8.00
03 Plecoptera Mean Abundance	1.50	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.00
04 Ephemeroptera Mean Abundance	0.50	23 Relative Generic Richness- Plecoptera	0.17
05 Shannon-Wiener Generic Diversity	2.70	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	20.24
06 Hilsenhoff Biotic Index	4.47	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	1.00
07 Relative Abundance - Chironomidae	0.18	28 EP Generic Richness/14	0.29
08 Relative Generic Richness Diptera	0.28	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	29.29		
11 <i>Cheumatopsyche</i> Abundance	19.71		
12 EPT Generic Richness/ Diptera Generic Richness	1.60		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	0.50		
16 Tanypodinae Mean Abundance (Family Functional Group)	0.00		
17 Chironomini Abundance (Family Functional Group)	2.13		

**Five Most Dominant Taxa**

Rank	Taxon Name	Percent
1	<i>Hydropsyche</i>	32.37
2	<i>Cheumatopsyche</i>	21.78
3	<i>Simulium</i>	18.23
4	<i>Rheotanytarsus</i>	14.73
5	<i>Polypedilum</i>	2.36



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**Station Number: S-876**      Town: Mount Desert      Date Deployed: 8/9/2010  
**Log Number: 1989**      Waterbody: Jordan Stream - Station 876      Date Retrieved: 9/10/2010

**Sample Collection and Processing Information**

Sampling Organization: ACADIA NATIONAL PARK  
 Taxonomist: MICHAEL WINNELL

**Waterbody Information - Deployment**

Temperature: 22.81 deg C  
 Dissolved Oxygen: 8.27 mg/l  
 Specific Conductance: 32 uS/cm  
 Velocity: 3.048 cm/s  
 pH: 6.77  
 Wetted Width: 2.53 m  
 Bankfull Width: 6.096 m  
 Depth: 14.02 cm

**Waterbody Information - Retrieval**

Temperature: 18.7 deg C  
 Dissolved Oxygen: 8.9 mg/l  
 Specific Conductance: 26 uS/cm  
 Velocity: 2.59 cm/s  
 pH: 6.45  
 Wetted Width: 2.96 m  
 Bankfull Width: 6.096 m  
 Depth: 17.1 cm

**Water Chemistry**

**Summary of Habitat Characteristics**

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>	
Upland Conifer	Partly Open	Hilly	
Upland Hardwood			
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>	
Altered Habitat	Below Dam	Boulder	20 %
Altered Hydrology	Below Road Crossing	Detritus	1 %
Regulated Flows	Lake Outlet	Gravel	49 %
Sedimentation	Minimally Disturbed	Rubble/Cobble	30 %

**Landcover Summary - 2004 Data**

Total Area (ac)	1120	High Int. Dev. %	0.0	Water %	16.7	Non-vegetated %	2.7
		Med Int. Dev. %	0.1	Wetland %	0.1	Tilled Agriculture %	0.0
		Low Int. Dev. %	6.2	Upland Woody %	72.8	Grassland %	3.0
		Development %	6.3	Natural %	75.9	Human Altered %	7.4
						Impervious %	3.2

**Sample Comments**

8/9/10 SEDIMENTATION FROM CARRIAGE ROADS.  
 9/10/10 1 BAG REMOVED HAD BEEN REMOVED FROM THE STREAM. FOUND ON BANK. (BAG 3?)  
 DEPLOYED APPROXIMATELEY 100 FT. DOWNSTREAM OF JORDAN POND OUTLET CARRIAGE  
 ROAD BRIDGE. ROCK BAGS LOCATED ON LEFT EDGE OF WATER. SEDIMENTATION FROM  
 CARRIAGE ROADS



**Maine Department of Environmental Protection  
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Aquatic Life Taxonomic Inventory Report**

**Station Number: S-876**

Waterbody: Jordan Stream - Station 876

Town: Mount Desert

**Log Number: 1989**

Subsample Factor: X1

Replicates: 2

Calculated: 6/9/2011

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Isoperla</i>	09020207026	0.50	0.50	2	PR	0.6	0.6
<i>Haploperla</i>	09020208037	0.50	0.50	1	PR	0.6	0.6
<i>Acroneuria</i>	09020209042		0.50	0	PR		0.6
<i>Acroneuria lycorias</i>	09020209042125	0.50			--	0.6	
<i>Boyeria</i>	09020301004		1.50	2	PR		1.7
<i>Boyeria vinosa</i>	09020301004012	1.50			--	1.7	
<i>Calopteryx</i>	09020307043		2.00	5	PR		2.2
<i>Calopteryx maculata</i>	09020307043088	2.00			--	2.2	
<i>Argia</i>	09020309048	0.50	0.50	7	PR	0.6	0.6
<i>Maccaffertium</i>	09020402015	0.50	0.50	4	SC	0.6	0.6
Gerridae	09020506	0.50	0.50		--	0.6	0.6
<i>Chimarra</i>	09020601003	1.00	1.00	2	CF	1.1	1.1
Hydropsychidae	09020604	3.00			--	3.3	
<i>Cheumatopsyche</i>	09020604015	18.50	19.71	5	CF	20.4	21.8
<i>Hydropsyche</i>	09020604016	6.50	29.29	4	CF	7.2	32.4
<i>Hydropsyche sparna</i>	09020604016032	17.00			--	18.8	
<i>Hydropsyche depravata complex</i>	09020604016041	4.00			CF	4.4	
<i>Lepidostoma</i>	09020611064	0.50	0.50	1	SH	0.6	0.6
<i>Nigronia</i>	09020701003		0.50	0	PR		0.6
<i>Nigronia serricornis</i>	09020701003003	0.50			--	0.6	
<i>Tipula</i>	09021001002	0.50	0.50	4	SH	0.6	0.6
Chironomidae	09021011	1.00			--	1.1	
<i>Cricotopus</i>	09021011037		0.53	7	SH		0.6
<i>Cricotopus bicinctus</i>	09021011037057	0.50			--	0.6	
<i>Rheotanytarsus</i>	09021011072	12.50	13.33	6	CF	13.8	14.7
<i>Polypedilum</i>	09021011102		2.13	6	SH		2.4
<i>Polypedilum aviceps</i>	09021011102181	2.00			--	2.2	
<i>Simulium</i>	09021012047	4.50	16.50	4	CF	5.0	18.2
<i>Simulium tuberosum</i>	09021012047067	9.50			--	10.5	
<i>Simulium venustum/verecundum complex</i>	09021012047072	2.50			CF	2.8	