



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

Station Information

Station Number: S-988 DEP Drainage: St. Croix - Coastal
Waterbody: Wescot Stream - Station 988 HUC8: 01050002
Town: Waldo HUC8 Name: Maine Coastal
Directions: OAK HILL ROAD; PASS BOTH INTERSECTIONS WITH Latitude: 44 28 15.66 N
ROBERTS RD ON LEFT, TAKE NEXT LEFT ONTO Longitude: 69 2 38.64 W
PRIVATE DIRT ROAD, WALK DUE SOUTH THROUGH Stream Order: 3

Sample Information

Log Number: 2150 Type of Sample: ROCK BAG Date Deployed: 7/11/2012
Subsample Factor: X1 Replicates: 3 Date Retrieved: 8/9/2012

Classification Attainment

Statutory Class: B **Final Determination:** A Date: 10/10/2012
Model Result with P>.6: A **Reason for Determination:** Model
Date Last Calculated: 10/4/2012 **Comments:**

Model Probabilities

<u>First Stage Model</u>				<u>C or Better Model</u>	
Class A	0.54	Class C	0.02	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	0.83
Class C or Non-Attainment		0.00		Class B or C or Non-Attainment	0.17

Model Variables

01 Total Mean Abundance	211.00	18 Relative Abundance Ephemeroptera	0.17
02 Generic Richness	35.00	19 EPT Generic Richness	18.00
03 Plecoptera Mean Abundance	14.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.00
04 Ephemeroptera Mean Abundance	36.67	23 Relative Generic Richness- Plecoptera	0.03
05 Shannon-Wiener Generic Diversity	3.81	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	11.00
06 Hilsenhoff Biotic Index	4.56	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	32.23
07 Relative Abundance - Chironomidae	0.45	28 EP Generic Richness/14	0.71
08 Relative Generic Richness Diptera	0.34	30 Presence of Class A Indicator Taxa/7	0.29
09 <i>Hydropsyche</i> Abundance	25.67		
11 <i>Cheumatopsyche</i> Abundance	0.33		
12 EPT Generic Richness/ Diptera Generic Richness	1.50		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	14.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	3.00		
17 Chironomini Abundance (Family Functional Group)	46.33		

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Polypedilum</i>	20.54
2	<i>Rheotanytarsus</i>	15.48
3	<i>Hydropsyche</i>	12.16
4	<i>Neureclipsis</i>	8.69
5	<i>Maccaffertium</i>	8.64



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Station Number: S-988

Town: Waldo

Date Deployed: 7/11/2012

Log Number: 2150

Waterbody: Wescot Stream - Station 988

Date Retrieved: 8/9/2012

Sample Collection and Processing Information

Sampling Organization: LOTIC INC.

Taxonomist: LOTIC INC.

Waterbody Information - Deployment

Temperature: 25.5 deg C
Dissolved Oxygen: 7.8 mg/l
Specific Conductance: 47 uS/cm
Velocity: 5 cm/s
pH: 7.4
Wetted Width: 10 m
Bankfull Width: 17 m
Depth: 15 cm

Waterbody Information - Retrieval

Temperature: 24.8 deg C
Dissolved Oxygen: 8.4 mg/l
Specific Conductance: 79.6 uS/cm
Velocity: 5 cm/s
pH: 7.6
Wetted Width: 10 m
Bankfull Width: 17 m
Depth: 15 cm

Water Chemistry

Summary of Habitat Characteristics

Landuse Name

Canopy Cover

Terrain

Upland Conifer

Partly Open

Rolling

Upland Hardwood

Potential Stressor

Location

Substrate

Lake Outlet

Above Confluence

Boulder 10 %

Minimally Disturbed

Gravel 10 %

Rubble/Cobble 70 %

Sand 10 %

Landcover Summary - 2004 Data

Sample Comments



**Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Taxonomic Inventory Report**

Station Number: S-988

Waterbody: Wescot Stream - Station 988

Town: Waldo

Log Number: 2150

Subsample Factor: X1

Replicates: 3

Calculated: 10/4/2012

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Acroneuria</i>	09020209042		14.00	0	PR		6.6
<i>Acroneuria abnormis</i>	09020209042121	14.00		0	PR	6.6	
<i>Boyeria</i>	09020301004		0.67	2	PR		0.3
<i>Boyeria vinosa</i>	09020301004012	0.67			--	0.3	
<i>Calopteryx</i>	09020307043	0.33	0.33	5	PR	0.2	0.2
<i>Baetis</i>	09020401001	3.00	5.00	4	CG	1.4	2.4
<i>Baetis brunneicolor</i>	09020401001003	1.67			--	0.8	
<i>Baetis flavistriga</i>	09020401001004	0.33			--	0.2	
<i>Proclleon</i>	09020401010	1.00	1.00		CG	0.5	0.5
<i>Plautidus</i>	09020401012	1.33	1.33		CG	0.6	0.6
Heptageniidae	09020402	0.67			--	0.3	
<i>Epeorus</i>	09020402009	1.33	1.38	0	SC	0.6	0.7
<i>Leucrocota</i>	09020402011	2.00	2.06	1	SC	0.9	1.0
<i>Maccaffertium</i>	09020402015	17.67	18.23	4	SC	8.4	8.6
<i>Isonychia</i>	09020404018	1.67	1.67	2	CF	0.8	0.8
<i>Ephemerella</i>	09020410035	3.67	3.67	1	CG	1.7	1.7
<i>Tricorythodes</i>	09020411038	2.33	2.33	4	CG	1.1	1.1
<i>Dolophilodes</i>	09020601001	4.00	4.00	0	CF	1.9	1.9
<i>Neureclipsis</i>	09020603008	18.33	18.33	7	CF	8.7	8.7
<i>Cheumatopsyche</i>	09020604015	0.33	0.33	5	CF	0.2	0.2
<i>Hydropsyche</i>	09020604016	25.67	25.67	4	CF	12.2	12.2
<i>Apatania</i>	09020610061	0.33	0.33		SC	0.2	0.2
<i>Psilotreta</i>	09020614068	1.67	1.67	0	SC	0.8	0.8
<i>Helicopsyche</i>	09020616070	0.67	0.67	3	SC	0.3	0.3
<i>Oecetis</i>	09020618078	0.67	0.67	8	PR	0.3	0.3
Tipulidae	09021001				--		
<i>Thienemannimyia</i>	09021011020		3.00	3	PR		1.4
<i>Thienemannimyia/arctopelopia</i> group	09021011020041	3.00			--	1.4	
<i>Cricotopus</i>	09021011037	5.00	5.00	7	SH	2.4	2.4
<i>Nanocladius</i>	09021011049	0.33	0.33	3	CG	0.2	0.2
<i>Orthocladius</i>	09021011050	0.33	0.33	6	CG	0.2	0.2
<i>Rheocricotopus</i>	09021011057		0.33	6	CG		0.2
<i>Rheocricotopus robacki</i>	09021011057105	0.33			--	0.2	
<i>Tvetenia</i>	09021011065		2.00	5	CG		0.9
<i>Tvetenia vitracies</i>	09021011065113	2.00			--	0.9	
<i>Rheotanytarsus</i>	09021011072	32.67	32.67	6	CF	15.5	15.5
<i>Tanytarsus</i>	09021011076	5.67	5.67	6	CF	2.7	2.7



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<i>Microtendipes</i>	09021011094		2.67	6	CF		1.3
<i>Microtendipes rydalensis group</i>	09021011094168	2.67			--	1.3	
<i>Polypedilum</i>	09021011102		43.33	6	SH		20.5
<i>Polypedilum aviceps</i>	09021011102181	42.67			--	20.2	
<i>Polypedilum illinoense group</i>	09021011102185	0.67			--	0.3	
<i>Stenochironomus</i>	09021011105	0.33	0.33	5	CG	0.2	0.2
<i>Atherix</i>	09021015055	10.00	10.00	2	PR	4.7	4.7
<i>Optioservus</i>	09021113067	0.33	0.33	3	SC	0.2	0.2
<i>Oulimnius</i>	09021113068	1.33	1.33		--	0.6	0.6
<i>Stenelmis</i>	09021113070	0.33	0.33	5	SC	0.2	0.2