



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

Station Information

Station Number: S-925	DEP Drainage: St. John
Waterbody: Getchell Brook - Station 925	HUC8: 01010005
Town: Easton	HUC8 Name: Big Presque Isle Stream-Meduxnek
Directions: OFF WEST RIDGE RD.	Latitude: 46 36 33.89 N
	Longitude: 67 54 29.52 W
	Stream Order: 1

Sample Information

Log Number: 1843	Type of Sample: ROCK BAG	Date Deployed: 7/22/2009
Subsample Factor: X4	Replicates: 3	Date Retrieved: 8/17/2009

Classification Attainment

Statutory Class: B	Final Determination: A	Date: 4/13/2010
Model Result with P>.6: A	Reason for Determination: Model	
Date Last Calculated: 4/9/2010	Comments:	

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.91	Class A, B, or C	1.00
Class B	0.09	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	436.00	18 Relative Abundance Ephemeroptera	0.28
02 Generic Richness	45.00	19 EPT Generic Richness	19.00
03 Plecoptera Mean Abundance	37.33	21 Sum of Abundances: <i>Dicrotendipes</i> ,	52.49
04 Ephemeroptera Mean Abundance	120.00	<i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	
05 Shannon-Wiener Generic Diversity	4.27	23 Relative Generic Richness- Plecoptera	0.11
06 Hilsenhoff Biotic Index	2.92	25 Sum of Abundances: <i>Cheumatopsyche</i> ,	10.75
07 Relative Abundance - Chironomidae	0.33	<i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	
08 Relative Generic Richness Diptera	0.47	26 Sum of Abundances: <i>Acroneuria</i> ,	0.00
09 <i>Hydropsyche</i> Abundance	0.00	<i>Maccaffertium</i> , <i>Stenonema</i>	
11 <i>Cheumatopsyche</i> Abundance	1.33	28 EP Generic Richness/14	0.79
12 EPT Generic Richness/ Diptera	0.90	30 Presence of Class A Indicator Taxa/7	0.14
Generic Richness			

Five Most Dominant Taxa

13 Relative Abundance - Oligochaeta	0.00	Rank	Taxon Name	Percent
15 Perlidae Mean Abundance	0.00	1	<i>Ephemerella</i>	18.35
(Family Functional Group)		2	<i>Micropsectra</i>	12.04
16 Tanypodinae Mean Abundance	6.73	3	<i>Glossosoma</i>	8.87
(Family Functional Group)		4	<i>Parapsyche</i>	7.95
17 Chironomini Abundance (Family	0.00	5	<i>Leuctra</i>	6.73
Functional Group)		6	<i>Baetis</i>	6.73



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Date Retrieved: 8/17/2009

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature: 14.2 deg C
Dissolved Oxygen: 8.2 mg/l
Specific Conductance: 424 uS/cm
Velocity: 23 cm/s
pH: 8.04
Wetted Width: 2.4 m
Bankfull Width: 3.8 m
Depth: 23 cm

Waterbody Information - Retrieval

Temperature: 17.2 deg C
Dissolved Oxygen: 8.6 mg/l
Specific Conductance: 441 uS/cm
Velocity: 21 cm/s
pH: 8.25
Wetted Width: 3.3 m
Bankfull Width: 3.8 m
Depth: 30 cm

Water Chemistry - 7/22/2009

Soluble Reactive Phosphorus	16 ug/l	Nitrate+nitrite As N	1.1 mg/l
Total Phosphorus	0.035 mg/l	Total Kjeldahl Nitrogen	0.2 mg/l
Dissolved Organic Carbon	2.4 mg/l	Total Alkalinity	192 mg/l

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>	
Upland Hardwood	Partly Open	Rolling	
Urban			
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>	
Agricultural Runoff	Below Agriculture NPS	Gravel	15 %
		Sand	70 %
		Silt	15 %

Landcover Summary - 2004 Data

Sample Comments



Maine Department of Environmental Protection
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Aquatic Life Taxonomic Inventory Report

Station Number: S-925

Waterbody: Getchell Brook - Station 925

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Subsample Factor: X4

Replicates: 3

Calculated: 4/9/2010

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
Lumbricidae	08020205	1.33	1.33		--	0.3	0.3
<i>Amphinemura</i>	09020201001	1.33	1.33	2	SH	0.3	0.3
Capniidae	09020203	1.33	1.33		--	0.3	0.3
<i>Leuctra</i>	09020204020	21.33	29.33	0	SH	4.9	6.7
<i>Leuctra truncata</i>	09020204020058	8.00			--	1.8	
<i>Diura</i>	09020207030	1.33	1.33		PR	0.3	0.3
<i>Sweltsa</i>	09020208040	4.00	4.00		PR	0.9	0.9
<i>Baetis</i>	09020401001		29.33	4	CG		6.7
<i>Baetis tricaudatus</i>	09020401001012	29.33			--	6.7	
<i>Diphetor</i>	09020401013		1.33		--		0.3
<i>Diphetor hageni</i>	09020401013001	1.33			--	0.3	
Leptophlebiidae	09020406	4.00	4.00		--	0.9	0.9
<i>Paraleptophlebia</i>	09020406026	4.00	4.00	1	CG	0.9	0.9
Ephemerellidae	09020410	1.33	1.33		--	0.3	0.3
<i>Ephemerella</i>	09020410035	69.33	80.00	1	CG	15.9	18.3
<i>Ephemerella invaria</i>	09020410035107	10.67			--	2.4	
<i>Dolophilodes</i>	09020601001	1.33	1.33	0	CF	0.3	0.3
<i>Parapsyche</i>	09020604013		34.67	0	CF		8.0
<i>Parapsyche apicalis</i>	09020604013023	34.67			--	8.0	
<i>Cheumatopsyche</i>	09020604015	1.33	1.33	5	CF	0.3	0.3
<i>Rhyacophila</i>	09020605019		9.33	2	PR		2.1
<i>Rhyacophila brunnea</i>	09020605019055	4.00			PR	0.9	
<i>Rhyacophila minor</i>	09020605019063	5.33			PR	1.2	
<i>Glossosoma</i>	09020606020	38.67	38.67	0	SC	8.9	8.9
<i>Oligostomis</i>	09020608039	2.67	2.67	2	PR	0.6	0.6
Limnephilidae	09020610	1.33	1.33		--	0.3	0.3
<i>Psychoglypha</i>	09020610060		8.00	0	SH		1.8
<i>Psychoglypha subborealis</i>	09020610060120	8.00			--	1.8	
<i>Sialis</i>	09020702004	12.00	12.00	4	PR	2.8	2.8
<i>Dicranota</i>	09021001005	2.67	2.67	3	PR	0.6	0.6
Chironomidae	09021011	1.33			--	0.3	
<i>Rheopelopia</i>	09021011017				PR		
<i>Trissopelopia</i>	09021011021		6.73		PR		1.5
<i>Trissopelopia ogemawi</i>	09021011021042	6.67			--	1.5	
<i>Pagastia</i>	09021011025		2.69	1	--		0.6
<i>Pagastia orthogonia</i>	09021011025001	2.67			--	0.6	
<i>Brillia</i>	09021011033	1.33	1.35	5	SH	0.3	0.3
<i>Corynoneura</i>	09021011036	1.33	1.35	7	CG	0.3	0.3



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		Actual	Adjusted			Actual	Adjusted
<i>Cricotopus</i>	09021011037		8.07	7	SH		1.9
<i>Cricotopus bicinctus</i>	09021011037057	5.33			--	1.2	
<i>Cricotopus vierriensis</i>	09021011037071	2.67			--	0.6	
<i>Eukiefferiella</i>	09021011041		9.42	8	CG		2.2
<i>Eukiefferiella brehmi group</i>	09021011041073	9.33			--	2.1	
<i>Orthocladus</i>	09021011050	1.33	1.35	6	CG	0.3	0.3
<i>Parametriocnemus</i>	09021011053	24.00	28.26	5	CG	5.5	6.5
<i>Parametriocnemus sp. F Epler</i>	09021011053101	4.00			--	0.9	
<i>Rheocricotopus</i>	09021011057		18.84	6	CG		4.3
<i>Rheocricotopus pauciseta</i>	09021011057111	18.67			--	4.3	
<i>Thienemanniella</i>	09021011062		2.69	6	CG		0.6
<i>Thienemanniella boltoni</i>	09021011062113	2.67			--	0.6	
<i>Micropsectra</i>	09021011070	52.00	52.49	7	CG	11.9	12.0
<i>Rheotanytarsus</i>	09021011072	1.33	1.35	6	CF	0.3	0.3
<i>Stempellinella</i>	09021011074		4.04	2	--		0.9
<i>Stempellinella fimbriatus</i>	09021011074002	4.00			--	0.9	
<i>Tanytarsus</i>	09021011076	1.33	1.35	6	CF	0.3	0.3
<i>Macropelopia</i>	09021011111		1.35		P		0.3
<i>Macropelopia decedens</i>	09021011111002	1.33			--	0.3	
<i>Brundiniella</i>	09021011115		2.69		--		0.6
<i>Brundiniella eumorpha</i>	09021011115001	2.67			--	0.6	
<i>Simulium</i>	09021012047		5.33	4	CF		1.2
<i>Simulium tuberosum</i>	09021012047067	5.33			--	1.2	
<i>Chrysops</i>	09021014052	5.33	5.33	6	CG	1.2	1.2
<i>Hemerodromia</i>	09021016057	1.33	1.33	3	PR	0.3	0.3
<i>Limnophora</i>	09021022080	1.33	1.33	2	PR	0.3	0.3
Curculionidae	09021115	1.33	1.33		--	0.3	0.3
Gastropoda	1001	1.33	1.33		--	0.3	0.3
<i>Pisidium</i>	10020201002	4.00	5.33		CF	0.9	1.2
<i>Pisidium casertanum</i>	10020201002006	1.33			CF	0.3	