



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

Station Information

Station Number: S-925	River Basin:	St. John
Waterbody: Getchell Brook - Station 925	HUC8 Name:	Becaguimec Stream-Saint John Riv
Town: Easton	Latitude:	46 36 32.33 N
Directions: OFF WEST RIDGE RD.	Longitude:	67 54 31.76 W
	Stream Order:	1

Sample Information

Log Number: 2734	Type of Sample: ROCK BAG	Date Deployed: 7/9/2019
Subsample Factor: X1	Replicates: 3	Date Retrieved: 8/6/2019

Classification Attainment

Statutory Class: B	Final Determination: A	Date: 3/20/2020
Model Result with $P \geq 0.6$: A	Reason for Determination: Model	
Date Last Calculated: 2/21/2020	Comments:	

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.93	Class A, B, or C	1.00
Class B	0.07	Non-Attainment	0.00
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	1.00	Class A	0.97
Class C or Non-Attainment	0.00	Class B or C or Non-Attainment	0.03

Model Variables

01 Total Mean Abundance	123.00	18 Relative Abundance Ephemeroptera	0.10
02 Generic Richness	26.00	19 EPT Generic Richness	10.00
03 Plecoptera Mean Abundance	46.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.00
04 Ephemeroptera Mean Abundance	12.00	23 Relative Generic Richness- Plecoptera	0.04
05 Shannon-Wiener Generic Diversity	3.40	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	4.89
06 Hilsenhoff Biotic Index	2.60	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	0.00
07 Relative Abundance - Chironomidae	0.33	28 EP Generic Richness/14	0.36
08 Relative Generic Richness Diptera	0.35	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	0.00		
11 <i>Cheumatopsyche</i> Abundance	0.00		
12 EPT Generic Richness/ Diptera Generic Richness	1.11		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	0.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	3.56		
17 Chironomini Abundance (Family Functional Group)	12.89		

Five Most Dominant Taxa		
Rank	Taxon Name	Percent
1	<i>Leuctra</i>	37.40
2	<i>Parametriocnemus</i>	13.37
3	<i>Polypedilum</i>	7.95
4	<i>Proclonus</i>	4.61
5	<i>Bezzia/palpomyia</i>	4.34



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Station Number: S-925

Town: Easton

Date Deployed: 7/9/2019

Log Number: 2734

Waterbody: Getchell Brook - Station 925

Date Retrieved: 8/6/2019

Sample Collection and Processing Information

Sampling Organization:

Taxonomist: LOTIC INC.

Waterbody Information - Deployment

Temperature:	17.8 deg C
Dissolved Oxygen:	10.14 mg/l
Dissolved Oxygen Saturation:	98.6 %
Specific Conductance:	474 uS/cm
Velocity:	15.2 cm/s
pH:	8.18
Wetted Width:	3 m
Bankfull Width:	6.2 m
Depth:	22 cm

Waterbody Information - Retrieval

Temperature:	14.1 deg C
Dissolved Oxygen:	10.24 mg/l
Dissolved Oxygen Saturation:	100.4 %
Specific Conductance:	484 uS/cm
Velocity:	4 cm/s
pH:	8.25
Wetted Width:	3.5 m
Bankfull Width:	5.2 m
Depth:	20 cm

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Swamp Conifer	Dense	Rolling
Swamp Hardwood		
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>
Agricultural Runoff	Below Road Crossing	Detritus 20 %
Altered Habitat		Gravel 70 %
		Sand 10 %

Landcover Summary - 2004 Data

Total Area (ac)	1111	High Int. Dev. %	0.3	Water %	0.0	Non-vegetated %	0.0
		Med Int. Dev. %	0.6	Wetland %	6.8	Tilled Agriculture %	57.2
		Low Int. Dev. %	0.2	Upland Woody %	15.2	Grassland %	17.0
		Development %	3.9	Natural %	21.9	Human Altered %	78.1
						Impervious %	2.4

Sample Comments

SCULPIN IN SIEVE BUCKET.



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

Station Number: S-925

Waterbody: Getchell Brook - Station 925

Town: Easton

Log Number: 2734

Subsample Factor: X1

Replicates: 3

Calculated: 2/21/2020

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
Tricladida	030101	0.33	0.33		--	0.3	0.3
<i>Leuctra</i>	09020204020	46.00	46.00	0	SH	37.4	37.4
<i>Baetis</i>	09020401001		2.00	4	CG		1.6
<i>Baetis brunneicolor</i>	09020401001003	2.00			--	1.6	
<i>Procladius</i>	09020401010	5.67	5.67		CG	4.6	4.6
<i>Paraleptophlebia</i>	09020406026	2.00	2.00	1	CG	1.6	1.6
<i>Ephemerella</i>	09020410035	2.33	2.33	1	CG	1.9	1.9
<i>Rhyacophila</i>	09020605019	1.00	1.00	2	PR	0.8	0.8
<i>Micrasema</i>	09020609044	0.33	0.33	2	SH	0.3	0.3
<i>Onocosmoecus</i>	09020610046		0.33	2	SH		0.3
<i>Onocosmoecus unicolor</i>	09020610046103	0.33			--	0.3	
<i>Pycnopsyche</i>	09020610049	4.00	4.00	4	SH	3.3	3.3
<i>Psychoglypha</i>	09020610060	5.00	5.00	0	SH	4.1	4.1
<i>Sialis</i>	09020702004	3.33	3.33	4	PR	2.7	2.7
<i>Bezzia/palpomyia</i>	09021010043	5.33	5.33	6	PR	4.3	4.3
Chironomidae	09021011	10.00			--	8.1	
<i>Thienemannimyia</i>	09021011020		3.56	3	PR		2.9
<i>Thienemannimyia group</i>	09021011020041	2.67			--	2.2	
<i>Parametriocnemus</i>	09021011053	12.33	16.44	5	CG	10.0	13.4
<i>Rheocricotopus</i>	09021011057		1.33	6	CG		1.1
<i>Rheocricotopus robacki</i>	09021011057105	1.00			--	0.8	
<i>Rheotanytarsus</i>	09021011072	0.67	0.89	6	CF	0.5	0.7
<i>Tanytarsus</i>	09021011076	3.67	4.89	6	CF	3.0	4.0
<i>Microtendipes</i>	09021011094		3.11	6	CF		2.5
<i>Microtendipes pedellus group</i>	09021011094166	2.33			--	1.9	
<i>Polypedilum</i>	09021011102		9.78	6	SH		7.9
<i>Polypedilum aviceps</i>	09021011102181	7.33			--	6.0	
<i>Atherix</i>	09021015055	2.67	2.67	2	PR	2.2	2.2
<i>Tropisternus</i>	09021105038	0.33	0.33		PR	0.3	0.3
<i>Dubiraphia</i>	09021113064	0.67	0.67	6	--	0.5	0.5
<i>Hygrobates</i>	09030102001	0.33	0.33		--	0.3	0.3
<i>Physa</i>	10010202027	0.67	0.67		SC	0.5	0.5
<i>Gyraulus</i>	10010203029	0.67	0.67		SC	0.5	0.5