



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

**Station Information**

<b>Station Number:</b> S-1102	River Basin: Maine Coastal
Waterbody: Northeast Brook - Station 1102	HUC8 Name: Maine Coastal
Town: Devereaux Twp	Latitude: 44 53 17.52 N
Directions: TAKE LEFT AT 48-000 OFF OF RT 9. TAKE RIGHT AT LOVEJOY COVE RD. 10M BELOW CULVERT. BETWEEN MOPANG LAKE AND PLEASANT RIVER.	Longitude: 67 59 10.25 W
	Stream Order: 1

**Sample Information**

<b>Log Number:</b> 2511	Type of Sample: ROCK BAG	Date Deployed: 7/28/2016
Subsample Factor: X1	Replicates: 3	Date Retrieved: 8/24/2016

**Classification Attainment**

<b>Statutory Class:</b> A	<b>Final Determination:</b> NA	Date: 6/23/2017
Model Result with $P \geq 0.6$ : NA	<b>Reason for Determination:</b> Model	
Date Last Calculated: 6/22/2017	Comments:	

**Model Probabilities**

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

**Model Variables**

01 Total Mean Abundance	157.00	18 Relative Abundance Ephemeroptera	0.09
02 Generic Richness	29.00	19 EPT Generic Richness	8.00
03 Plecoptera Mean Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes, Micropsectra, Parachironomus, Helobdella</i>	1.68
04 Ephemeroptera Mean Abundance	13.67	23 Relative Generic Richness- Plecoptera	0.00
05 Shannon-Wiener Generic Diversity	2.62	25 Sum of Abundances: <i>Cheumatopsyche, Cricotopus, Tanytarsus, Ablabesmyia</i>	22.51
06 Hilsenhoff Biotic Index	7.14	26 Sum of Abundances: <i>Acroneuria, Maccaffertium, Stenonema</i>	0.33
07 Relative Abundance - Chironomidae	0.26	28 EP Generic Richness/14	0.21
08 Relative Generic Richness Diptera	0.38	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	0.33		
11 <i>Cheumatopsyche</i> Abundance	0.33		
12 EPT Generic Richness/ Diptera Generic Richness	0.73		
13 Relative Abundance - Oligochaeta	0.02		
15 Perlidae Mean Abundance (Family Functional Group)	0.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	19.49		
17 Chironomini Abundance (Family Functional Group)	8.74		

**Five Most Dominant Taxa**

Rank	Taxon Name	Percent
1	<i>Hyalella</i>	56.48
2	<i>Ablabesmyia</i>	9.63
3	<i>Paraleptophlebia</i>	7.86
4	<i>Tanytarsus</i>	4.50
5	<i>Microtendipes</i>	3.21



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**Station Number: S-1102**      Town:      Devereaux Twp      Date Deployed: 7/28/2016  
**Log Number: 2511**      Waterbody: Northeast Brook - Station 1102      Date Retrieved: 8/24/2016

**Sample Collection and Processing Information**

Sampling Organization: BIOMONITORING UNIT      Taxonomist: ECOANALYSTS IDAHO

**Waterbody Information - Deployment**

Temperature:      20.8 deg C  
Dissolved Oxygen:      2.69 mg/l  
Dissolved Oxygen Saturation:      30.3 %  
Specific Conductance:      35.5 uS/cm  
Velocity:  
pH:      5.83  
Wetted Width:      3.9 m  
Bankfull Width:      3.9 m  
Depth:      38 cm

**Waterbody Information - Retrieval**

Temperature:      16.8 deg C  
Dissolved Oxygen:      4 mg/l  
Dissolved Oxygen Saturation:      41.2 %  
Specific Conductance:      33.1 uS/cm  
Velocity:  
pH:      5.56  
Wetted Width:      3.9 m  
Bankfull Width:      3.9 m  
Depth:      45 cm

**Water Chemistry**

**Summary of Habitat Characteristics**

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Swamp Hardwood	Partly Open	Flat
Upland Conifer		
Upland Hardwood		
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>
BOD (Low DO)	Below Road Crossing	Detritus      5 %
Low pH		Gravel      85 %
Wetland Headwaters		Sand      10 %

**Landcover Summary - 2004 Data**

**Sample Comments**

7/28/2016: BEAVER ACTIVITY; ALDERS; BLOWDOWNS; FLOW BARELY VISIBLE AT DEPLOYMENT; SMALL FISH PRESENT.

8/24/2016: FLOW VISIBLE AT RETRIEVAL; SMALL FISH PRESENT.



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

**Station Number: S-1102**

Waterbody: Northeast Brook - Station 1102

Town: Devereaux Twp

**Log Number: 2511**

Subsample Factor: X1

Replicates: 3

Calculated: 6/22/2017

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Nais</i>	08020202009	0.33	0.33		CG	0.2	0.2
<i>Slavina</i>	08020202012		3.00		--		1.9
<i>Slavina appendiculata</i>	08020202012001	3.00			--	1.9	
<i>Erpobdella</i>	08030203002	0.33	0.33		--	0.2	0.2
<i>Hyaella</i>	09010203006	88.67	88.67	8	CG	56.5	56.5
Cambaridae	09010301	2.33	2.33		--	1.5	1.5
<i>Sympetrum</i>	09020306041	0.33	0.33	10	PR	0.2	0.2
Coenagrionidae	09020309	1.33	1.33		--	0.8	0.8
<i>Maccaffertium</i>	09020402015	0.33	0.33	4	SC	0.2	0.2
<i>Paraleptophlebia</i>	09020406026	12.33	12.33	1	CG	7.9	7.9
<i>Caenis</i>	09020412040	1.00	1.00	7	CG	0.6	0.6
<i>Chimarra</i>	09020601003		0.33	2	CF		0.2
<i>Chimarra aterrima</i>	09020601003002	0.33			--	0.2	
<i>Polycentropus</i>	09020603010	2.33	2.33	6	PR	1.5	1.5
<i>Cheumatopsyche</i>	09020604015	0.33	0.33	5	CF	0.2	0.2
<i>Hydropsyche</i>	09020604016		0.33	4	CF		0.2
<i>Hydropsyche morosa</i>	09020604016030	0.33			--	0.2	
<i>Banksiola</i>	09020608036	0.33	0.33		SH	0.2	0.2
<i>Bezzia/palpomyia</i>	09021010043	0.67	0.67	6	PR	0.4	0.4
Chironomidae	09021011	0.33			--	0.2	
<i>Ablabesmyia</i>	09021011001		15.12	8	PR		9.6
<i>Ablabesmyia monilis</i>	09021011001009	3.33			--	2.1	
<i>Ablabesmyia aspera</i>	09021011001012	11.67			--	7.4	
<i>Labrundinia</i>	09021011008	0.33	0.34	7	PR	0.2	0.2
<i>Procladius</i>	09021011015	4.00	4.03	9	PR	2.5	2.6
<i>Psectrocladius</i>	09021011056	1.00	1.01	8	CG	0.6	0.6
<i>Paratanytarsus</i>	09021011071	4.67	4.70	6	--	3.0	3.0
<i>Tanytarsus</i>	09021011076	7.00	7.06	6	CF	4.5	4.5
<i>Chironomus</i>	09021011080	0.67	0.67	10	CG	0.4	0.4
<i>Dicrotendipes</i>	09021011085		1.68	8	CG		1.1
<i>Dicrotendipes fumidus</i>	09021011085150	1.67			--	1.1	
<i>Endochironomus</i>	09021011087	1.33	1.34	10	SH	0.8	0.9
<i>Microtendipes</i>	09021011094		5.04	6	CF		3.2
<i>Microtendipes pedellus group</i>	09021011094166	5.00			--	3.2	
<i>Dubiraphia</i>	09021113064	0.33	0.33	6	--	0.2	0.2
<i>Stenelmis</i>	09021113070	1.00	1.00	5	SC	0.6	0.6
<i>Unionicola</i>	09030108001	0.33	0.33		--	0.2	0.2