



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

Station Information

Station Number: S-1115	River Basin: Maine Coastal
Waterbody: Creamer Brook - Station 1115	HUC8 Name: Maine Coastal
Town: T19 Ed Bpp	Latitude: 44 58 16.07 N
Directions: SITE IS DOWNSTREAM OF THE OLD BRIDGE LOCATION.	Longitude: 67 30 33.57 W
	Stream Order: 2

Sample Information

Log Number: 2763	Type of Sample: ROCK BAG	Date Deployed: 7/31/2019
Subsample Factor: X1	Replicates: 3	Date Retrieved: 8/29/2019

Classification Attainment

Statutory Class: AA	Final Determination: A	Date: 1/9/2020
Model Result with $P \geq 0.6$: A	Reason for Determination: Model	
Date Last Calculated: 12/20/2019	Comments:	

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.79	Class A, B, or C	1.00
Class B	0.21	Non-Attainment	0.00
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	1.00	Class A	0.98
Class C or Non-Attainment	0.00	Class B or C or Non-Attainment	0.02

Model Variables

01 Total Mean Abundance	95.67	18 Relative Abundance Ephemeroptera	0.36
02 Generic Richness	36.00	19 EPT Generic Richness	16.00
03 Plecoptera Mean Abundance	3.00	21 Sum of Abundances: <i>Dicrotendipes, Micropsectra, Parachironomus, Helobdella</i>	3.00
04 Ephemeroptera Mean Abundance	34.67	23 Relative Generic Richness- Plecoptera	0.06
05 Shannon-Wiener Generic Diversity	3.67	25 Sum of Abundances: <i>Cheumatopsyche, Cricotopus, Tanytarsus, Ablabesmyia</i>	0.33
06 Hilsenhoff Biotic Index	3.91	26 Sum of Abundances: <i>Acroneuria, Maccaffertium, Stenonema</i>	31.33
07 Relative Abundance - Chironomidae	0.18	28 EP Generic Richness/14	0.43
08 Relative Generic Richness Diptera	0.33	30 Presence of Class A Indicator Taxa/7	0.29
09 <i>Hydropsyche</i> Abundance	18.67		
11 <i>Cheumatopsyche</i> Abundance	0.33		
12 EPT Generic Richness/ Diptera Generic Richness	1.33		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	1.33		
16 Tanypodinae Mean Abundance (Family Functional Group)	1.33		
17 Chironomini Abundance (Family Functional Group)	4.33		

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Maccaffertium</i>	31.36
2	<i>Hydropsyche</i>	19.51
3	<i>Lepidostoma</i>	9.41
4	<i>Rheotanytarsus</i>	3.48
5	<i>Rheocricotopus</i>	3.14
6	<i>Micropsectra</i>	3.14
7	<i>Polypedilum</i>	3.14



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Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT Taxonomist: MICHAEL COLE

Waterbody Information - Deployment

Temperature: 20.53 deg C
Dissolved Oxygen: 8.46 mg/l
Dissolved Oxygen Saturation: 94.7 %
Specific Conductance: 17.29 uS/cm
Velocity:
pH: 6.06
Wetted Width: 6.1 m
Bankfull Width: 6.5 m
Depth: 25 cm

Waterbody Information - Retrieval

Temperature: 17.02 deg C
Dissolved Oxygen: 9.18 mg/l
Dissolved Oxygen Saturation: 95.2 %
Specific Conductance: 18.1 uS/cm
Velocity: 24.4 cm/s
pH: 5.9
Wetted Width: 6.3 m
Bankfull Width: 6.5 m
Depth: 34 cm

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>	
Upland Conifer	Dense	Flat	
Upland Hardwood			
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>	
	Minimally Disturbed	Boulder	55 %
		Gravel	10 %
		Rubble/Cobble	35 %

Landcover Summary - 2004 Data

Sample Comments

WATER SAMPLES COLLECTED BY SALMON UNIT - EMILY Z.



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

Station Number: S-1115 Waterbody: Creamer Brook - Station 1115 Town: T19 Ed Bpp
Log Number: 2763 Subsample Factor: X1 Replicates: 3 Calculated: 12/20/2019

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
Perlodidae	09020207	1.67	1.67		--	1.7	1.7
<i>Acroneuria</i>	09020209042	0.67	1.33	0	PR	0.7	1.4
<i>Acroneuria abnormis</i>	09020209042121	0.67		0	PR	0.7	
Aeshnidae	09020301	1.67	1.67		--	1.7	1.7
<i>Calopteryx</i>	09020307043	0.33	0.33	5	PR	0.3	0.3
<i>Leucrocuta</i>	09020402011	1.33	1.33	1	SC	1.4	1.4
<i>Maccaffertium</i>	09020402015	24.33	30.00	4	SC	25.4	31.4
<i>Maccaffertium vicarium</i>	09020402015055	5.67			--	5.9	
<i>Paraleptophlebia</i>	09020406026	2.33	2.33	1	CG	2.4	2.4
<i>Eurylophella</i>	09020410036		1.00	3	CG		1.0
<i>Eurylophella funeralis</i>	09020410036115	1.00			SH	1.0	
<i>Polycentropus</i>	09020603010	2.33	2.33	6	PR	2.4	2.4
<i>Cheumatopsyche</i>	09020604015	0.33	0.33	5	CF	0.3	0.3
<i>Hydropsyche</i>	09020604016		18.67	4	CF		19.5
<i>Hydropsyche slossonae</i>	09020604016031	2.00			--	2.1	
<i>Hydropsyche sparna</i>	09020604016032	15.67			--	16.4	
<i>Hydropsyche betteni</i>	09020604016037	1.00			--	1.0	
<i>Rhyacophila</i>	09020605019	1.00	1.00	2	PR	1.0	1.0
<i>Hydroptila</i>	09020607026	0.33	0.33	6	P	0.3	0.3
<i>Oligostomis</i>	09020608039	0.67	0.67	2	PR	0.7	0.7
<i>Micrasema</i>	09020609044	0.67	0.67	2	SH	0.7	0.7
<i>Lepidostoma</i>	09020611064	9.00	9.00	1	SH	9.4	9.4
<i>Mystacides</i>	09020618075		0.33	4	CG		0.3
<i>Mystacides sepulchralis</i>	09020618075147	0.33			--	0.3	
<i>Oecetis</i>	09020618078	1.00	1.00	8	PR	1.0	1.0
<i>Nigronia</i>	09020701003		0.33	0	PR		0.3
<i>Nigronia serricornis</i>	09020701003003	0.33			--	0.3	
Chironomidae	09021011				--		
<i>Labrundinia</i>	09021011008	0.33	0.33	7	PR	0.3	0.3
<i>Thienemannimyia</i>	09021011020		0.33	3	PR		0.3
<i>Thienemannimyia group</i>	09021011020041	0.33			--	0.3	
<i>Trissopelopia</i>	09021011021	0.67	0.67		PR	0.7	0.7
<i>Brillia</i>	09021011033	0.33	0.33	5	SH	0.3	0.3
<i>Rheocricotopus</i>	09021011057	2.67	3.00	6	CG	2.8	3.1
<i>Rheocricotopus tuberculatus</i>	09021011057106	0.33			--	0.3	
<i>Tvetenia</i>	09021011065		1.33	5	CG		1.4
<i>Tvetenia vitracies</i>	09021011065113	0.33			--	0.3	



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<i>Tvetenia paucunca</i>	09021011065114	1.00			--	1.0	
<i>Micropsectra</i>	09021011070	3.00	3.00	7	CG	3.1	3.1
<i>Rheotanytarsus</i>	09021011072		3.33	6	CF		3.5
<i>Rheotanytarsus exiguus group</i>	09021011072127	0.67			CF	0.7	
<i>Rheotanytarsus pellucidus</i>	09021011072128	2.67			CF	2.8	
<i>Stempellinella</i>	09021011074	0.33	0.33	2	--	0.3	0.3
<i>Tanytarsus</i>	09021011076			6	CF		
<i>Microtendipes</i>	09021011094		1.33	6	CF		1.4
<i>Microtendipes rydalensis group</i>	09021011094168	1.33			--	1.4	
<i>Polypedilum</i>	09021011102		3.00	6	SH		3.1
<i>Polypedilum aviceps</i>	09021011102181	2.67			--	2.8	
<i>Polypedilum illinoense group</i>	09021011102185	0.33			--	0.3	
<i>Atherix</i>	09021015055	0.67	0.67	2	PR	0.7	0.7
<i>Hydrochus</i>	09021105035	0.33	0.33		SH	0.3	0.3
<i>Dubiraphia</i>	09021113064		0.33	6	--		0.3
<i>Dubiraphia vittata</i>	09021113064038	0.33			--	0.3	
<i>Promoesia</i>	09021113069		2.00		--		2.1
<i>Promoesia tardella</i>	09021113069052	2.00			--	2.1	
<i>Stenelmis</i>	09021113070	0.67	0.67	5	SC	0.7	0.7
Acariformes	090301	0.33	0.33		--	0.3	0.3