



**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: 2834	Type of Sample: ROCK BAG	Date Deployed: 7/22/2020
Subsample Factor: X1	Replicates: 3	Date Retrieved: 8/19/2020

Classification Attainment

Statutory Class: AA	Final Determination: A	Date: 2/17/2021
Model Result with P \geq 0.6: A	Reason for Determination: Model	
Date Last Calculated: 1/29/2021	Comments:	

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.89	Class A, B, or C	1.00
Class B	0.11	Non-Attainment	0.00
		<u>A Model</u>	
<u>B or Better Model</u>		Class A	1.00
Class A or B	1.00	Class B or C or Non-Attainment	0.00
Class C or Non-Attainment	0.00		

Model Variables

01 Total Mean Abundance	193.67	18 Relative Abundance Ephemeroptera	0.37
02 Generic Richness	53.00	19 EPT Generic Richness	21.00
03 Plecoptera Mean Abundance	2.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	11.33
04 Ephemeroptera Mean Abundance	71.67	23 Relative Generic Richness- Plecoptera	0.06
05 Shannon-Wiener Generic Diversity	4.01	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	3.00
06 Hilsenhoff Biotic Index	3.50	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	20.33
07 Relative Abundance - Chironomidae	0.22	28 EP Generic Richness/14	0.71
08 Relative Generic Richness Diptera	0.40	30 Presence of Class A Indicator Taxa/7	0.43
09 <i>Hydropsyche</i> Abundance	0.67		
11 <i>Cheumatopsyche</i> Abundance	0.00		
12 EPT Generic Richness/ Diptera Generic Richness	1.00		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	1.33		
16 Tanypodinae Mean Abundance (Family Functional Group)	3.33		
17 Chironomini Abundance (Family Functional Group)	14.33		

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Paraleptophlebia</i>	21.69
2	<i>Polycentropus</i>	14.28
3	<i>Lepidostoma</i>	13.08
4	<i>Maccaffertium</i>	9.81
5	<i>Micropsectra</i>	5.85



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

Station Number: S-1115 Town: T19 Ed Bpp Date Deployed: 7/22/2020
Log Number: 2834 Waterbody: Creamer Brook - Station 1115 Date Retrieved: 8/19/2020

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT Taxonomist: MICHAEL COLE

Waterbody Information - Deployment

Temperature: 17.92 deg C
Dissolved Oxygen: 8.87 mg/l
Dissolved Oxygen Saturation: 92.1 %
Specific Conductance: 27.1 uS/cm
Velocity: 0.1 cm/s
pH: 6.05
Wetted Width: 5 m
Bankfull Width: 6.4 m
Depth: 19 cm

Waterbody Information - Retrieval

Temperature: 16.1 deg C
Dissolved Oxygen: 7.95 mg/l
Dissolved Oxygen Saturation: 81.3 %
Specific Conductance: 43 uS/cm
Velocity: 0.1 cm/s
pH: 5.96
Wetted Width: 3.9 m
Bankfull Width: 6.4 m
Depth: 18.3 cm

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Upland Conifer	Dense	Rolling
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>
Logging	Above Road Crossing	

Landcover Summary - 2004 Data

Sample Comments

VISIBLE FLOW.



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

Station Number: S-1115 Waterbody: Creamer Brook - Station 1115 Town: T19 Ed Bpp
Log Number: 2834 Subsample Factor: X1 Replicates: 3 Calculated: 1/29/2021

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
Isotomidae	09020102	0.33	0.33		--	0.2	0.2
<i>Paracapnia</i>	09020203018	0.33	0.33	1	SH	0.2	0.2
Perlodidae	09020207	0.33	0.33		--	0.2	0.2
<i>Acroneuria</i>	09020209042		1.33	0	PR		0.7
<i>Acroneuria abnormis</i>	09020209042121	1.33		0	PR	0.7	
<i>Boyeria</i>	09020301004		7.67	2	PR		4.0
<i>Boyeria vinosa</i>	09020301004012	7.67			--	4.0	
Gomphidae	09020302	0.33	0.33		--	0.2	0.2
Cordulegastridae	09020303	0.33	0.33		--	0.2	0.2
Corduliidae	09020305	1.00	1.00		--	0.5	0.5
<i>Calopteryx</i>	09020307043	0.67	0.67	5	PR	0.3	0.3
<i>Acerpenna</i>	09020401007	1.33	1.67	5	CG	0.7	0.9
<i>Acerpenna pygmaea</i>	09020401007011	0.33			--	0.2	
<i>Leucrocuta</i>	09020402011	2.00	2.00	1	SC	1.0	1.0
<i>Maccaffertium</i>	09020402015	10.33	19.00	4	SC	5.3	9.8
<i>Maccaffertium modestum</i>	09020402015051	1.00			--	0.5	
<i>Maccaffertium vicarium</i>	09020402015055	7.67			--	4.0	
<i>Habrophlebia</i>	09020406023		4.67		--		2.4
<i>Habrophlebia vibrans</i>	09020406023072	4.67			--	2.4	
<i>Paraleptophlebia</i>	09020406026	42.00	42.00	1	CG	21.7	21.7
Ephemerellidae	09020410	0.33	0.33		--	0.2	0.2
<i>Eurylophella</i>	09020410036		2.00	3	CG		1.0
<i>Eurylophella funeralis</i>	09020410036115	2.00			SH	1.0	
<i>Microvelia</i>	09020510025	0.33	0.33		PR	0.2	0.2
Polycentropodidae	09020603	1.33			--	0.7	
<i>Nyctiophylax</i>	09020603009	0.33	0.35	5	PR	0.2	0.2
<i>Polycentropus</i>	09020603010	26.33	27.65	6	PR	13.6	14.3
<i>Hydropsyche</i>	09020604016	0.67	0.67	4	CF	0.3	0.3
<i>Rhyacophila</i>	09020605019		0.33	2	PR		0.2
<i>Rhyacophila fuscula</i>	09020605019060	0.33			PR	0.2	
<i>Hydroptila</i>	09020607026	2.33	2.33	6	P	1.2	1.2
<i>Oxyethira</i>	09020607028	0.33	0.33	3	P	0.2	0.2
<i>Oligostomis</i>	09020608039	0.33	0.33	2	PR	0.2	0.2
<i>Pycnopsyche</i>	09020610049	0.33	0.33	4	SH	0.2	0.2
<i>Lepidostoma</i>	09020611064	25.33	25.33	1	SH	13.1	13.1
<i>Psilotreta</i>	09020614068	0.67	0.67	0	SC	0.3	0.3
<i>Oecetis</i>	09020618078	0.67	0.67	8	PR	0.3	0.3



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

Station Number: S-1115 Waterbody: Creamer Brook - Station 1115 Town: T19 Ed Bpp
Log Number: 2834 Subsample Factor: X1 Replicates: 3 Calculated: 1/29/2021

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Nigronia</i>	09020701003		1.67	0	PR		0.9
<i>Nigronia serricornis</i>	09020701003003	1.67			--	0.9	
<i>Tipula</i>	09021001002	0.33	0.33	4	SH	0.2	0.2
<i>Dicranota</i>	09021001005	0.33	0.33	3	PR	0.2	0.2
Ceratopogonidae	09021010	1.00	1.00		--	0.5	0.5
Chironomidae	09021011				--		
<i>Ablabesmyia</i>	09021011001	0.33	0.33	8	PR	0.2	0.2
<i>Labrundinia</i>	09021011008	0.33	0.33	7	PR	0.2	0.2
<i>Paramerina</i>	09021011013	0.67	0.67		--	0.3	0.3
<i>Thienemannimyia</i>	09021011020		1.67	3	PR		0.9
<i>Thienemannimyia group</i>	09021011020041	1.67			--	0.9	
<i>Zavrelimyia</i>	09021011022	0.33	0.33	8	PR	0.2	0.2
<i>Corynoneura</i>	09021011036	0.33	0.33	7	CG	0.2	0.2
<i>Cricotopus</i>	09021011037		0.33	7	SH		0.2
<i>Cricotopus bicinctus</i>	09021011037057	0.33			--	0.2	
<i>Orthocladius</i>	09021011050		3.33	6	CG		1.7
<i>Orthocladius annectens</i>	09021011050092	3.33			--	1.7	
<i>Parametriocnemus</i>	09021011053	0.33	0.33	5	CG	0.2	0.2
<i>Rheocricotopus</i>	09021011057	5.00	5.33	6	CG	2.6	2.8
<i>Rheocricotopus tuberculatus</i>	09021011057106	0.33			--	0.2	
<i>Synorthocladius</i>	09021011061	0.67	0.67	2	CG	0.3	0.3
<i>Tvetenia</i>	09021011065		0.67	5	CG		0.3
<i>Tvetenia paucunca</i>	09021011065114	0.67			--	0.3	
<i>Micropsectra</i>	09021011070	11.33	11.33	7	CG	5.9	5.9
<i>Tanytarsus</i>	09021011076	2.33	2.33	6	CF	1.2	1.2
<i>Microtendipes</i>	09021011094		5.33	6	CF		2.8
<i>Microtendipes rydalensis group</i>	09021011094168	5.33			--	2.8	
<i>Polypedilum</i>	09021011102		9.00	6	SH		4.6
<i>Polypedilum aviceps</i>	09021011102181	4.00			--	2.1	
<i>Polypedilum tritum</i>	09021011102191	5.00			--	2.6	
<i>Atherix</i>	09021015055	0.33	0.33	2	PR	0.2	0.2
Empididae	09021016	0.33	0.33	6	--	0.2	0.2
<i>Optioservus</i>	09021113067	0.33	3.33	3	SC	0.2	1.7
<i>Optioservus tardella</i>	09021113067052	3.00			--	1.5	
<i>Stenelmis</i>	09021113070	0.33	0.33	5	SC	0.2	0.2
Acariformes	090301	0.33	0.33		--	0.2	0.2