



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

Station Information

Station Number: S-1039	River Basin: Saco
Waterbody: Capisic Brook - Station 1039	HUC8 Name: Presumpscot
Town: Portland	Latitude: 43 41 3.48 N
Directions: PENWOOD AVE., 30M BACK TO FORT	Longitude: 70 18 50.4 W
	Stream Order: 2

Sample Information

Log Number: 2809	Type of Sample: ROCK BAG	Date Deployed: 7/6/2020
Subsample Factor: X1	Replicates: 3	Date Retrieved: 8/3/2020

Classification Attainment

Statutory Class: C	Final Determination: NA	Date: 2/17/2021
Model Result with $P \geq 0.6$: NA	Reason for Determination: Model	
Date Last Calculated: 1/28/2021	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	0.01
Class C or Non-Attainment	1.00	Class B or C or Non-Attainment	0.99

Model Variables

01 Total Mean Abundance	200.33	18 Relative Abundance Ephemeroptera	0.00
02 Generic Richness	16.00	19 EPT Generic Richness	2.00
03 Plecoptera Mean Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.67
04 Ephemeroptera Mean Abundance	0.00	23 Relative Generic Richness- Plecoptera	0.00
05 Shannon-Wiener Generic Diversity	0.63	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	0.67
06 Hilsenhoff Biotic Index	4.03	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	0.00
07 Relative Abundance - Chironomidae	0.04	28 EP Generic Richness/14	0.00
08 Relative Generic Richness Diptera	0.50	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	0.00		
11 <i>Cheumatopsyche</i> Abundance	0.33		
12 EPT Generic Richness/ Diptera Generic Richness	0.25		
13 Relative Abundance - Oligochaeta	0.01		
15 Perlidae Mean Abundance (Family Functional Group)	0.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	0.00		
17 Chironomini Abundance (Family Functional Group)	2.00		

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Gammarus</i>	92.68
2	<i>Frenesia</i>	1.50
3	<i>Odontomesa</i>	1.16
4	<i>Stictochironomus</i>	1.00
5	<i>Limnodrilus</i>	0.67



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Station Number: S-1039	Town: Portland	Date Deployed: 7/6/2020
Log Number: 2809	Waterbody: Capisic Brook - Station 1039	Date Retrieved: 8/3/2020

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL COLE

Waterbody Information - Deployment

Temperature:	20.8 deg C
Dissolved Oxygen:	9.39 mg/l
Dissolved Oxygen Saturation:	104.1 %
Specific Conductance:	660 uS/cm
Velocity:	7 cm/s
pH:	7.58
Wetted Width:	2.85 m
Bankfull Width:	4.35 m
Depth:	21 cm

Waterbody Information - Retrieval

Temperature:	23.2 deg C
Dissolved Oxygen:	9.55 mg/l
Dissolved Oxygen Saturation:	111.7 %
Specific Conductance:	932 uS/cm
Velocity:	0.1 cm/s
pH:	7.77
Wetted Width:	2.5 m
Bankfull Width:	4.35 m
Depth:	20 cm

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Upland Hardwood	Dense	Hilly
Urban		
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>
Nps Pollution	Below Point Source	Clay 20 %
Urban Runoff	Below Urban NPS	Gravel 20 %
		Sand 60 %

Landcover Summary - 2004 Data

Sample Comments

VISIBLE FLOW. FISH OBSERVED.



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

Station Number: S-1039	Waterbody: Capisic Brook - Station 1039	Town: Portland
Log Number: 2809	Subsample Factor: X1	Replicates: 3
		Calculated: 1/28/2021

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Limnodrilus</i>	08020202022	1.33	1.33		CG	0.7	0.7
<i>Caecidotea</i>	09010101001	0.67	0.67	8	SH	0.3	0.3
<i>Gammarus</i>	09010201003	185.67	185.67	4	--	92.7	92.7
<i>Cordulegaster</i>	09020303019		0.33	3	PR		0.2
<i>Cordulegaster maculata</i>	09020303019042	0.33			--	0.2	
<i>Cheumatopsyche</i>	09020604015	0.33	0.33	5	CF	0.2	0.2
<i>Frenesia</i>	09020610058	3.00	3.00	0	SH	1.5	1.5
<i>Chauliodes</i>	09020701001		0.33	4	PR		0.2
<i>Chauliodes rastricornis</i>	09020701001002	0.33			--	0.2	
<i>Corynoneura</i>	09021011036	0.33	0.33	7	CG	0.2	0.2
<i>Nanocladius</i>	09021011049	1.00	1.00	3	CG	0.5	0.5
<i>Parametriocnemus</i>	09021011053	1.00	1.00	5	CG	0.5	0.5
<i>Micropsectra</i>	09021011070	0.67	0.67	7	CG	0.3	0.3
<i>Paratanytarsus</i>	09021011071	0.67	0.67	6	--	0.3	0.3
<i>Tanytarsus</i>	09021011076	0.33	0.33	6	CF	0.2	0.2
<i>Stictochironomus</i>	09021011106	2.00	2.00	9	CG	1.0	1.0
<i>Odontomesa</i>	09021011121		2.33	4	--		1.2
<i>Odontomesa fulva</i>	09021011121001	2.33			--	1.2	
<i>Dubiraphia</i>	09021113064	0.33	0.33	6	--	0.2	0.2