

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

**Station Information**

<b>Station Number:</b> S302	DEP Drainage: Saco
Waterbody: Trout Brook	HUC Code: 01060001
Town: South Portland	HUC Name: Presumpscot
Directions: 25m above Highland Ave. crossing	Latitude: Deg Min Sec
	Longitude: Deg Min Sec
	Stream Order: 2

**Sample Information**

<b>Log Number:</b> 1257	Type of Sample: Riffle Bags	Date Deployed: 28-JUL-03
Subsample Factor: X1	Replicates: 3	Date Retrieved: 25-AUG-03

**Classification Attainment**

Statutory Class: C	<b>Final Determination:</b> NA	
Model Result with P > .6: NA	Reason for Determination:	
Date Last Calculated:		

**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
	Class C		
	Class NA		
	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 Abundance of Individuals	208.00	18 Relative Abundance - Ephemeroptera	0.00
02 Generic Richness	29.00	19 EPT Generic Richness	7.00
03 Plecoptera Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes</i> ,	1.67
04 Ephemeroptera Abundance	0.00	<i>Micropsectra, Parachironomus, Helobdella</i>	
05 Shannon - Wiener Diversity	1.97	23 Relative Generic Richness- Plecoptera	0.00
06 Hilsenhoff Biotic Index	4.27	25 Sum of Abundances: <i>Cheumatopsyche</i> ,	3.67
07 Relative Abundance - Chironomidae	0.06	<i>Cricotopus, Tanytarsus, Ablabesmyia</i>	
08 Relative Generic Richness - Diptera	0.34	26 Sum of Abundances: <i>Acroneuria, Stenonema</i>	0.00
09 <i>Hydropsyche</i> Abundance	0.67	28 EP Generic Richness/14	0.00
11 <i>Cheumatopsyche</i> Abundance	0.00	30 Presence of Class A Indicator Taxa/7	0.14
12 EPT Generic Richness/ Diptera Generic Richness	0.70		

**Five Most Dominant Taxa**

		Taxa Rank	Taxa Name	Percent
13 Relative Abundance - Oligochaeta	0.00	1	Gammarus	70.03
15 Perlidae Abundance (Family Functional Group)	0.00	2	Dubiraphia	7.37
16 Tanypodinae Abundance (Family Functional Group)	1.00	3	Caecidotea	5.29
17 Chironomini Abundance (Family Functional Group)	0.33	4	Glossosoma	4.17
		5	Tvetenia	2.25

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Station Number	S302	Waterbody:	Trout Brook	Date Deployed:	28-JUL-03
Log Number:	1257	Town:	South Portland	Date Retrieved:	25-AUG-03

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**Sample Collection and Processing Information**

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Sampling Organization:  
Taxonomist: Michael Winnell

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**Waterbody Information**

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Water Temperature:	15.4 °C	Specific Conductance	711.0 uS/cm	Channel Width:	2.5 m
Velocity:	16 cm/s	Dissolved Oxygen:	8.2 ppm	Channel Depth:	9.0 cm

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**Summary of Habitat Characteristics**

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<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Stressor</u>	<u>Location</u>
	Partly Open		Below Point Source

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**Substrate**

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Boulder	Rubble	Gravel	Sand
10%	45%	25%	20%

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**Comments about the Station or Sample**

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8/25/03 Data:

Flow: 10.7 cm/s; Depth:15cm; Temp: 14.0C; SPC: 665uS/cm; DO: 9.32mg/L; pH: 7.15

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**Comments about the Final Determination**

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**Log Number:** 1257    **Subsample:** X1    **Replicates:** 3    **Calculated:**

**BioME Aquatic Life Taxonomic Inventory Report**

Taxa	Code	Count (Average of Baskets)		Biotic Index Value	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Turbellaria</i>	0301	0.33	0.33		--	0.2	0.2
<i>Cura</i>	03010101001	0.00	3.33		--	0.0	1.6
<i>Cura foremanii</i>	03010101001001	3.33	0.00		--	1.6	0.0
<i>Phagocata</i>	03010101004	3.33	3.33		--	1.6	1.6
<i>Aulodrilus</i>	08020203001	0.00	0.33		--	0.0	0.2
<i>Aulodrilus pluriseta</i>	08020203001004	0.33	0.00		--	0.2	0.0
<i>Lumbricidae</i>	08020205	0.33	0.33		--	0.2	0.2
<i>Hirudinea</i>	0803	0.33	0.33		--	0.2	0.2
<i>Glossiphonia</i>	08030101004	0.00	0.33		--	0.0	0.2
<i>Glossiphonia complanata</i>	08030101004001	0.33	0.00		--	0.2	0.0
<i>Helobdella</i>	08030101005	0.00	0.67		--	0.0	0.3
<i>Helobdella stagnalis</i>	08030101005004	0.67	0.00		--	0.3	0.0
<i>Caecidotea</i>	09010101001	6.67	11.00	8	SH	3.2	5.3
<i>Caecidotea communis</i>	09010101001001	4.33	0.00		--	2.1	0.0
<i>Gammarus</i>	09010201003	0.00	145.67	4	--	0.0	70.0
<i>Gammarus fasciatus</i>	09010201003003	145.67	0.00		--	70.0	0.0
<i>Hydropsychidae</i>	09020604	0.67	0.00		--	0.3	0.0
<i>Diplectrona</i>	09020604014	0.00	0.67	0	CF	0.0	0.3
<i>Diplectrona modesta</i>	09020604014025	0.33	0.00		--	0.2	0.0
<i>Hydropsyche</i>	09020604016	0.00	0.67	4	CF	0.0	0.3
<i>Hydropsyche depravata-complex</i>	09020604016041	0.33	0.00		CF	0.2	0.0
<i>Rhyacophila</i>	09020605019	0.33	0.33	2	PR	0.2	0.2
<i>Glossosoma</i>	09020606020	8.67	8.67	0	SC	4.2	4.2
<i>Limnephilidae</i>	09020610	0.33	0.33		--	0.2	0.2
<i>Limnephilus</i>	09020610055	0.33	0.33	3	SH	0.2	0.2
<i>Lepidostoma</i>	09020611064	1.00	1.00	1	SH	0.5	0.5
<i>Lepidoptera</i>	090209	0.67	0.67		--	0.3	0.3
<i>Tipula</i>	09021001002	0.67	0.67	4	SH	0.3	0.3
<i>Dicranota</i>	09021001005	0.33	0.33	3	PR	0.2	0.2
<i>Meropelopia</i>	09021011010	1.00	1.00		--	0.5	0.5
<i>Orthocladius</i>	09021011050	0.00	1.00	6	CG	0.0	0.5
<i>Orthocladius carlatus</i>	09021011050093	1.00	0.00		--	0.5	0.0
<i>Parametriocnemus</i>	09021011053	0.33	0.33	5	CG	0.2	0.2
<i>Tvetenia</i>	09021011065	0.33	4.67	5	CG	0.2	2.2
<i>Tvetenia bavarica grp.</i>	09021011065111	4.33	0.00		--	2.1	0.0
<i>Micropsectra</i>	09021011070	1.00	1.00	7	CG	0.5	0.5
<i>Rheotanytarsus</i>	09021011072	0.33	0.33	6	CF	0.2	0.2

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		Actual	Adjusted			Actual	Adjusted
<i>Tanytarsus</i>	09021011076	3.67	3.67	6	CF	1.8	1.8
<i>Paratendipes</i>	09021011100	0.33	0.33	8	CG	0.2	0.2
<i>Dubiraphia</i>	09021113064	15.33	15.33	6	CG	7.4	7.4
<i>Curculionidae</i>	09021115	0.33	0.33		--	0.2	0.2
<i>Basommatophora</i>	100102	0.33	0.33		--	0.2	0.2
<i>Pseudosuccinea</i>	10010201023	0.00	0.33		SC	0.0	0.2
<i>Pseudosuccinea columella</i>	10010201023038	0.33	0.00		--	0.2	0.0