



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

Station Information

Station Number: S-752	River Basin:	Saco
Waterbody: Long Creek - Station 752	HUC8 Name:	Presumpscot
Town: South Portland	Latitude:	43 38 11.9 N
Directions: ~30M UPSTREAM OF FODEN RD BY "ATLANTIC PLACE"	Longitude:	70 19 44.51 W
	Stream Order:	2

Sample Information

Log Number: 2398	Type of Sample:	ROCK BAG	Date Deployed:	7/30/2015
Subsample Factor: X1	Replicates:	3	Date Retrieved:	8/27/2015

Classification Attainment

Statutory Class: C	Final Determination: NA	Date:	6/15/2016
Model Result with $P \geq 0.6$: NA	Reason for Determination: Model		
Date Last Calculated: 6/14/2016	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	0.02	Non-Attainment	1.00
		<u>A Model</u>	
<u>B or Better Model</u>		Class A	0.00
Class A or B	0.00	Class B or C or Non-Attainment	1.00
Class C or Non-Attainment	1.00		

Model Variables

01 Total Mean Abundance	465.00	18 Relative Abundance Ephemeroptera	0.01
02 Generic Richness	40.00	19 EPT Generic Richness	8.00
03 Plecoptera Mean Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes, Micropsectra, Parachironomus, Helobdella</i>	20.67
04 Ephemeroptera Mean Abundance	4.00	23 Relative Generic Richness- Plecoptera	0.00
05 Shannon-Wiener Generic Diversity	2.31	25 Sum of Abundances: <i>Cheumatopsyche, Cricotopus, Tanytarsus, Ablabesmyia</i>	30.00
06 Hilsenhoff Biotic Index	4.56	26 Sum of Abundances: <i>Acroneuria, Maccaffertium, Stenonema</i>	0.00
07 Relative Abundance - Chironomidae	0.14	28 EP Generic Richness/14	0.07
08 Relative Generic Richness Diptera	0.43	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	0.00		
11 <i>Cheumatopsyche</i> Abundance	7.33		
12 EPT Generic Richness/ Diptera Generic Richness	0.47		

Five Most Dominant Taxa

	Rank	Taxon Name	Percent
	1	<i>Gammarus</i>	65.16
	2	<i>Dubiraphia</i>	9.46
	3	<i>Tanytarsus</i>	4.87
	4	<i>Micropsectra</i>	3.66
	5	<i>Macronychus</i>	2.22



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Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT Taxonomist: ECOANALYSTS IDAHO

Waterbody Information - Deployment

Temperature: 21.4 deg C
Dissolved Oxygen: 6.88 mg/l
Dissolved Oxygen Saturation:
Specific Conductance: 1287 uS/cm
Velocity:
pH: 7.66
Wetted Width: 2.7 m
Bankfull Width: 4.4 m
Depth: 18 cm

Waterbody Information - Retrieval

Temperature: 20.1 deg C
Dissolved Oxygen: 6.97 mg/l
Dissolved Oxygen Saturation:
Specific Conductance: 883 uS/cm
Velocity:
pH: 7.64
Wetted Width: 3.7 m
Bankfull Width: 5.6 m
Depth: 22 cm

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>	
Upland Hardwood	Dense	Flat	
Urban			
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>	
Altered Habitat	Below Urban NPS	Clay	30 %
Altered Hydrology		Rubble/Cobble	10 %
Nps Pollution		Sand	60 %
Urban Runoff			

Landcover Summary - 2004 Data

Sample Comments

7/30/2015: 78% DO.
8/26/2015: HEAVY SILT. 76.7% DO.



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Aquatic Life Taxonomic Inventory Report**

Station Number: S-752
Log Number: 2398

Waterbody: Long Creek - Station 752
Subsample Factor: X1

Town: South Portland
Calculated: 6/14/2016

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
Tubificida	080202	1.67	1.67		--	0.4	0.4
<i>Slavina</i>	08020202012		0.33		--		0.1
<i>Slavina appendiculata</i>	08020202012001	0.33			--	0.1	
<i>Limnodrilus</i>	08020202022		3.33		CG		0.7
<i>Limnodrilus hoffmeisteri</i>	08020202022003	3.33			--	0.7	
<i>Glossiphonia</i>	08030101004		3.67		--		0.8
<i>Glossiphonia elegans</i>	08030101004001	3.67			--	0.8	
<i>Helobdella</i>	08030101005		3.67		--		0.8
<i>Helobdella modesta</i>	08030101005004	3.67			--	0.8	
<i>Erpobdella</i>	08030203002	1.33	1.33		--	0.3	0.3
<i>Gammarus</i>	09010201003	303.00	303.00	4	--	65.2	65.2
<i>Crangonyx</i>	09010202004	1.00	1.00	8	--	0.2	0.2
<i>Boyeria</i>	09020301004		0.33	2	PR		0.1
<i>Boyeria vinosa</i>	09020301004012	0.33			--	0.1	
Coenagrionidae	09020309	0.33	0.33		--	0.1	0.1
<i>Caenis</i>	09020412040	4.00	4.00	7	CG	0.9	0.9
<i>Nyctiophylax</i>	09020603009	1.00	1.00	5	PR	0.2	0.2
<i>Phylocentropus</i>	09020603011	0.33	0.33	5	CF	0.1	0.1
<i>Cheumatopsyche</i>	09020604015	7.33	7.33	5	CF	1.6	1.6
<i>Oligostomis</i>	09020608039	0.67	0.67	2	PR	0.1	0.1
<i>Ptilostomis</i>	09020608041	0.67	0.67	5	SH	0.1	0.1
<i>Mystacides</i>	09020618075		2.33	4	CG		0.5
<i>Mystacides sepulchralis</i>	09020618075147	2.33			--	0.5	
<i>Oecetis</i>	09020618078	1.33	1.33	8	PR	0.3	0.3
<i>Thienemannimyia</i>	09021011020		3.67	3	PR		0.8
<i>Thienemannimyia group</i>	09021011020041	3.67			--	0.8	
<i>Corynoneura</i>	09021011036	1.00	1.00	7	CG	0.2	0.2
<i>Orthocladius</i>	09021011050		0.33	6	CG		0.1
<i>Orthocladius lignicola</i>	09021011050100	0.33			--	0.1	
<i>Parakiefferiella</i>	09021011052	2.00	2.00		CG	0.4	0.4
<i>Parametriocnemus</i>	09021011053	0.33	0.33	5	CG	0.1	0.1
<i>Thienemanniella</i>	09021011062	0.33	0.33	6	CG	0.1	0.1
<i>Micropsectra</i>	09021011070	17.00	17.00	7	CG	3.7	3.7
<i>Paratanytarsus</i>	09021011071	1.00	1.00	6	--	0.2	0.2
<i>Stempellinella</i>	09021011074	5.67	5.67	2	--	1.2	1.2
<i>Tanytarsus</i>	09021011076	22.67	22.67	6	CF	4.9	4.9
<i>Cryptochironomus</i>	09021011082	0.33	0.33	8	PR	0.1	0.1



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		Actual	Adjusted			Actual	Adjusted
<i>Microtendipes</i>	09021011094		1.00	6	CF		0.2
<i>Microtendipes pedellus group</i>	09021011094166	1.00			--	0.2	
<i>Paralauterborniella</i>	09021011099		0.67	8	CG		0.1
<i>Paralauterborniella nigrohalteralis</i>	09021011099175	0.67			--	0.1	
<i>Paratendipes</i>	09021011100	5.33	5.33	8	CG	1.1	1.1
<i>Phaenopsectra</i>	09021011101	0.33	0.33	7	SC	0.1	0.1
<i>Polypedilum</i>	09021011102		1.67	6	SH		0.4
<i>Polypedilum scalaenum group</i>	09021011102189	1.67			--	0.4	
Dolichopodidae	09021017	0.33	0.33	4	--	0.1	0.1
<i>Ancyronyx</i>	09021113063		3.33	6	--		0.7
<i>Ancyronyx variegatus</i>	09021113063034	3.33			CG	0.7	
<i>Dubiraphia</i>	09021113064	44.00	44.00	6	--	9.5	9.5
<i>Macronychus</i>	09021113065		10.33	4	--		2.2
<i>Macronychus glabratus</i>	09021113065040	10.33			--	2.2	
<i>Stenelmis</i>	09021113070	5.67	5.67	5	SC	1.2	1.2
<i>Physa</i>	10010202027	1.00	1.00		SC	0.2	0.2
<i>Sphaerium</i>	10020201003	0.67	0.67		CF	0.1	0.1