



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

**Station Information**

<b>Station Number:</b> S-737	River Basin: Penobscot
Waterbody: Seboeis River - Station 737	HUC8 Name: East Branch Penobscot
Town: T06 R07 Wels	Latitude: 46 8 39.04 N
Directions: UPSTREAM OF GRAND LAKE RD, ~45M UPSTREAM OF SAWTELLE BROOK	Longitude: 68 38 1.89 W
	Stream Order: 3

**Sample Information**

<b>Log Number:</b> 2765	Type of Sample: ROCK BAG	Date Deployed: 7/22/2019
Subsample Factor: X1	Replicates: 3	Date Retrieved: 8/19/2019

**Classification Attainment**

<b>Statutory Class:</b> AA	<b>Final Determination:</b> A	Date: 1/9/2020
Model Result with $P \geq 0.6$ : A	<b>Reason for Determination:</b> Model	
Date Last Calculated: 1/2/2020	Comments:	

**Model Probabilities**

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.88	Class A, B, or C	1.00
Class B	0.12	Non-Attainment	0.00
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	1.00	Class A	1.00
Class C or Non-Attainment	0.00	Class B or C or Non-Attainment	0.00

**Model Variables**

01 Total Mean Abundance	169.33	18 Relative Abundance Ephemeroptera	0.38
02 Generic Richness	49.00	19 EPT Generic Richness	24.00
03 Plecoptera Mean Abundance	8.33	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.00
04 Ephemeroptera Mean Abundance	64.67	23 Relative Generic Richness- Plecoptera	0.04
05 Shannon-Wiener Generic Diversity	4.72	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	6.95
06 Hilsenhoff Biotic Index	3.97	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	21.51
07 Relative Abundance - Chironomidae	0.20	28 EP Generic Richness/14	1.14
08 Relative Generic Richness Diptera	0.27	30 Presence of Class A Indicator Taxa/7	0.29
09 <i>Hydropsyche</i> Abundance	0.00		
11 <i>Cheumatopsyche</i> Abundance	0.00		
12 EPT Generic Richness/ Diptera Generic Richness	1.85		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	8.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	2.04		
17 Chironomini Abundance (Family Functional Group)	21.25		

**Five Most Dominant Taxa**

Rank	Taxon Name	Percent
1	<i>Tricorythodes</i>	11.81
2	<i>Microtendipes</i>	9.66
3	<i>Maccaffertium</i>	7.98
4	<i>Amnicola</i>	7.68
5	<i>Acroneuria</i>	4.72
6	<i>Acerpenna</i>	4.72



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**Station Number: S-737**      Town: T06 R07 Wels      Date Deployed: 7/22/2019  
**Log Number: 2765**      Waterbody: Sebouis River - Station 737      Date Retrieved: 8/19/2019

**Sample Collection and Processing Information**

Sampling Organization: BIOMONITORING UNIT      Taxonomist: MICHAEL COLE

**Waterbody Information - Deployment**

Temperature: 21.9 deg C  
Dissolved Oxygen: 8.89 mg/l  
Dissolved Oxygen Saturation: 101.4 %  
Specific Conductance: 46 uS/cm  
Velocity:  
pH: 7.65  
Wetted Width: 29 m  
Bankfull Width: 32 m  
Depth: 51 cm

**Waterbody Information - Retrieval**

Temperature: 20.29 deg C  
Dissolved Oxygen: 8.72 mg/l  
Dissolved Oxygen Saturation: 97.1 %  
Specific Conductance: 59.1 uS/cm  
Velocity: 1.5 cm/s  
pH: 7.47  
Wetted Width: 25 m  
Bankfull Width: 32 m  
Depth: 44 cm

**Water Chemistry**

**Summary of Habitat Characteristics**

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Upland Conifer	Open	Hilly
Upland Hardwood		
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>
	Above Road Crossing	Boulder 5 % Gravel 15 % Rubble/Cobble 80 %

**Landcover Summary - 2004 Data**

Total Area (ac)	44356	High Int. Dev. %	0.0	Water %	8.9	Non-vegetated %	0.1
		Med Int. Dev. %	0.0	Wetland %	9.4	Tilled Agriculture %	0.0
		Low Int. Dev. %	0.6	Upland Woody %	80.9	Grassland %	0.0
		Development %	0.6	Natural %	90.4	Human Altered %	0.7
						Impervious %	0.0
Total Land (ac)	40394	High Int. Dev. %	0.0	Water %	N/A	Non-vegetated %	N/A
		Med Int. Dev. %	0.0	Wetland %	10.4	Tilled Agriculture %	0.0
		Low Int. Dev. %	0.6	Upland Woody %	88.8	Grassland %	0.0
		Development %	0.6	Natural %	99.2	Human Altered %	0.8
						Impervious %	0.0

**Sample Comments**

CREEK CHUBS PRESENT AT SHORELINE. SPARSE AQUATIC VEGETATION DISPERSED BETWEEN COBBLE & BOULDERS.



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Aquatic Life Taxonomic Inventory Report**

**Station Number: S-737**

Waterbody: Sebobeis River - Station 737

Town: T06 R07 Wels

**Log Number: 2765**

Subsample Factor: X1

Replicates: 3

Calculated: 1/2/2020

Taxon	Maine Taxonomic Code	Count		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		(Mean of Samplers)				Actual	Adjusted
		Actual	Adjusted				
<i>Pteronarcys</i>	09020205023		0.33	0	SH		0.2
<i>Pteronarcys biloba</i>	09020205023061	0.33			--	0.2	
<i>Acroneuria</i>	09020209042		8.00	0	PR		4.7
<i>Acroneuria lycorias</i>	09020209042125	8.00			--	4.7	
<i>Boyeria</i>	09020301004		4.67	2	PR		2.8
<i>Boyeria grafiana</i>	09020301004011	4.33			--	2.6	
<i>Boyeria vinosa</i>	09020301004012	0.33			--	0.2	
Gomphidae	09020302	1.67	1.67		--	1.0	1.0
<i>Calopteryx</i>	09020307043	0.67	0.67	5	PR	0.4	0.4
<i>Argia</i>	09020309048	0.33	0.33	7	PR	0.2	0.2
<i>Baetis</i>	09020401001		0.33	4	CG		0.2
<i>Baetis flavistriga</i>	09020401001004	0.33			--	0.2	
<i>Acerpenna</i>	09020401007		8.00	5	CG		4.7
<i>Acerpenna macdunnoughi</i>	09020401007001	1.00			--	0.6	
<i>Acerpenna pygmaea</i>	09020401007011	7.00			--	4.1	
<i>Labiobaetis</i>	09020401009	0.33	0.33		--	0.2	0.2
<i>Procloeon</i>	09020401010	1.67	1.67		CG	1.0	1.0
<i>Plauditus</i>	09020401012	0.33	0.33		CG	0.2	0.2
<i>Iswaeon</i>	09020401015		0.67		--		0.4
<i>Iswaeon anoka</i>	09020401015001	0.67			--	0.4	
<i>Anafroptilum (Centroptilum)</i>	09020401016	1.67	1.67	2	CG	1.0	1.0
<i>Neocloeon (Centroptilum)</i>	09020401017	0.67	0.67	2	CG	0.4	0.4
Heptageniidae	09020402	0.33			--	0.2	
<i>Leucrocota</i>	09020402011	7.00	7.09	1	SC	4.1	4.2
<i>Stenacron</i>	09020402014	4.67	4.73	7	SC	2.8	2.8
<i>Maccaffertium</i>	09020402015	4.33	13.51	4	SC	2.6	8.0
<i>Maccaffertium vicarium</i>	09020402015055	9.00			--	5.3	
<i>Paraleptophlebia</i>	09020406026	5.33	5.33	1	CG	3.1	3.1
<i>Ephemerella</i>	09020410035	0.33	0.33	1	CG	0.2	0.2
<i>Tricorythodes</i>	09020411038	20.00	20.00	4	CG	11.8	11.8
Polycentropodidae	09020603	0.67	0.67		--	0.4	0.4
<i>Neureclipsis</i>	09020603008	7.67	7.67	7	CF	4.5	4.5
Hydroptilidae	09020607				--		
<i>Oxyethira</i>	09020607028			3	P		
<i>Brachycentrus</i>	09020609043		2.67	0	CF		1.6
<i>Brachycentrus appalachia</i>	09020609043096	2.67			--	1.6	
<i>Pycnopsyche</i>	09020610049	1.33	1.33	4	SH	0.8	0.8



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Town: T06 R07 Wels

**Log Number: 2765**

Subsample Factor: X1

Replicates: 3

Calculated: 1/2/2020

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Lepidostoma</i>	09020611064	7.33	7.33	1	SH	4.3	4.3
<i>Helicopsyche</i>	09020616070		4.33	3	SC		2.6
<i>Helicopsyche borealis</i>	09020616070137	4.33			--	2.6	
<i>Mystacides</i>	09020618075		1.00	4	CG		0.6
<i>Mystacides sepulchralis</i>	09020618075147	1.00			--	0.6	
<i>Oecetis</i>	09020618078	0.33	0.67	8	PR	0.2	0.4
<i>Oecetis avara</i>	09020618078153	0.33			--	0.2	
Chironomidae	09021011	6.33			--	3.7	
<i>Ablabesmyia</i>	09021011001	1.33	1.63	8	PR	0.8	1.0
<i>Thienemannimyia</i>	09021011020		0.41	3	PR		0.2
<i>Thienemannimyia group</i>	09021011020041	0.33			--	0.2	
<i>Cricotopus</i>	09021011037	2.67	4.50	7	SH	1.6	2.7
<i>Cricotopus bicinctus</i>	09021011037057	1.00			--	0.6	
<i>Nanocladius</i>	09021011049	3.00	3.68	3	CG	1.8	2.2
<i>Tvetenia</i>	09021011065		0.82	5	CG		0.5
<i>Tvetenia vitracies</i>	09021011065113	0.67			--	0.4	
<i>Stempellinella</i>	09021011074	1.00	1.23	2	--	0.6	0.7
<i>Tanytarsus</i>	09021011076	0.67	0.82	6	CF	0.4	0.5
<i>Pseudochironomus</i>	09021011078	0.33	0.41	5	CG	0.2	0.2
<i>Lauterborniella</i>	09021011092		0.41		CG		0.2
<i>Lauterborniella agrayloides</i>	09021011092001	0.33			--	0.2	
<i>Microtendipes</i>	09021011094		16.35	6	CF		9.7
<i>Microtendipes rydalensis group</i>	09021011094168	13.33			--	7.9	
<i>Phaenopsectra</i>	09021011101	0.67	0.82	7	SC	0.4	0.5
<i>Polypedilum</i>	09021011102		3.27	6	SH		1.9
<i>Polypedilum aviceps</i>	09021011102181	2.33			--	1.4	
<i>Polypedilum flavum</i>	09021011102182	0.33			--	0.2	
<i>Atherix</i>	09021015055	0.33	0.33	2	PR	0.2	0.2
<i>Psephenus</i>	09021108058		4.00	4	SC		2.4
<i>Psephenus herricki</i>	09021108058028	4.00			--	2.4	
<i>Dubiraphia</i>	09021113064	4.67	4.67	6	--	2.8	2.8
<i>Macronychus</i>	09021113065		0.33	4	--		0.2
<i>Macronychus glabratus</i>	09021113065040	0.33			--	0.2	
<i>Promoresia</i>	09021113069		1.67		--		1.0
<i>Promoresia elegans</i>	09021113069051	1.67			--	1.0	
<i>Stenelmis</i>	09021113070	1.33	1.33	5	SC	0.8	0.8
<i>Amnicola</i>	10010104013	13.00	13.00		SC	7.7	7.7



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		Actual	Adjusted			Actual	Adjusted
<i>Physa</i>	10010202027	3.33	3.33		SC	2.0	2.0
<i>Gyraulus</i>	10010203029	0.33	0.33		SC	0.2	0.2