



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

Station Information

Station Number: S-194
Waterbody: East Branch Sebasticook River - Station 194
Town: Corinna
Directions: 0.12 KM BELOW EASTLAND WOOLEN MILL SUPERFUND SITE

DEP Drainage: Kennebec
HUC8: 01030003
HUC8 Name: Lower Kennebec
Latitude: 44 55 14.85 N
Longitude: 69 15 37.76 W
Stream Order: 3

Sample Information

Log Number: 2115
Subsample Factor: X4

Type of Sample: ROCK BASKET
Replicates: 3

Date Deployed: 7/18/2012
Date Retrieved: 8/16/2012

Classification Attainment

Statutory Class: C
Model Result with P>.6: C
Date Last Calculated: 3/7/2013

Final Determination: C
Reason for Determination: Model
Comments:

Date: 3/7/2013

Model Probabilities

First Stage Model				C or Better Model	
Class A	0.00	Class C	0.96	Class A, B, or C	1.00
Class B	0.03	NA	0.01	Non-Attainment	0.00
B or Better Model				A Model	
Class A or B		0.02		Class A	0.00
Class C or Non-Attainment		0.98		Class B or C or Non-Attainment	1.00

Model Variables

01 Total Mean Abundance	626.67	18 Relative Abundance Ephemeroptera	0.45
02 Generic Richness	25.00	19 EPT Generic Richness	12.00
03 Plecoptera Mean Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.00
04 Ephemeroptera Mean Abundance	282.67	23 Relative Generic Richness- Plecoptera	0.00
05 Shannon-Wiener Generic Diversity	2.81	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	102.80
06 Hilsenhoff Biotic Index	4.32	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	14.67
07 Relative Abundance - Chironomidae	0.03	28 EP Generic Richness/14	0.43
08 Relative Generic Richness Diptera	0.32	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	29.20		
11 <i>Cheumatopsyche</i> Abundance	100.13		
12 EPT Generic Richness/ Diptera Generic Richness	1.50		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	0.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	1.33		
17 Chironomini Abundance (Family Functional Group)	2.67		

Five Most Dominant Taxa		
Rank	Taxon Name	Percent
1	<i>Baetis</i>	35.74
2	<i>Girardia</i>	23.19
3	<i>Cheumatopsyche</i>	15.98
4	<i>Acerpenna</i>	6.17
5	<i>Hydropsyche</i>	4.66



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Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature:	27.3 deg C
Dissolved Oxygen:	7.2 mg/l
Specific Conductance:	173 uS/cm
Velocity:	84 cm/s
pH:	7.57
Wetted Width:	7 m
Bankfull Width:	8 m
Depth:	50 cm

Waterbody Information - Retrieval

Temperature:	23.2 deg C
Dissolved Oxygen:	6.7 mg/l
Specific Conductance:	185 uS/cm
Velocity:	23 cm/s
pH:	8.03
Wetted Width:	6.2 m
Bankfull Width:	8 m
Depth:	40 cm

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Swamp Hardwood	Open	Rolling
Upland Hardwood		
Urban		

<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>	
Below Wetland	Below In-place Contamination	Boulder	5 %
Superfund Site	Below Road Crossing	Gravel	25 %
		Rubble/Cobble	60 %
		Sand	10 %

Landcover Summary - 2004 Data

Total Area (ac)	6037	High Int. Dev. %	0.7	Water %	1.4	Non-vegetated %	0.4
		Med Int. Dev. %	0.3	Wetland %	12.3	Tilled Agriculture %	11.5
		Low Int. Dev. %	5.6	Upland Woody %	59.7	Grassland %	8.2
		Development %	6.6	Natural %	72.0	Human Altered %	26.7
						Impervious %	3.6

Sample Comments

RAINING HEAVILY DURING RETRIEVAL.



**Maine Department of Environmental Protection
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Aquatic Life Taxonomic Inventory Report**

Station Number: S-194

Waterbody: East Branch Sebasticook River - Station 194 Town: Corinna

Log Number: 2115

Subsample Factor: X4

Replicates: 3

Calculated: 3/7/2013

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Girardia</i>	03010102002		145.33		--		23.2
<i>Girardia tigrina</i>	03010102002001	145.33			--	23.2	
<i>Hyaella</i>	09010203006		13.33	8	CG		2.1
<i>Hyaella azteca</i>	09010203006011	13.33			--	2.1	
<i>Baetis</i>	09020401001	65.33	224.00	4	CG	10.4	35.7
<i>Baetis flavistriga</i>	09020401001004	108.00			--	17.2	
<i>Baetis intercalaris</i>	09020401001008	50.67			--	8.1	
<i>Acerpenna</i>	09020401007	26.67	38.67	5	CG	4.3	6.2
<i>Acerpenna pygmaea</i>	09020401007011	12.00			--	1.9	
Heptageniidae	09020402	1.33	1.33		--	0.2	0.2
<i>Maccaffertium</i>	09020402015	4.00	14.67	4	SC	0.6	2.3
<i>Maccaffertium modestum</i>	09020402015051	10.67			--	1.7	
<i>Isonychia</i>	09020404018	2.67	2.67	2	CF	0.4	0.4
<i>Tricorythodes</i>	09020411038	1.33	1.33	4	CG	0.2	0.2
<i>Chimarra</i>	09020601003		17.33	2	CF		2.8
<i>Chimarra obscura</i>	09020601003003	17.33			--	2.8	
Hydropsychidae	09020604	5.33			--	0.9	
<i>Cheumatopsyche</i>	09020604015	96.00	100.13	5	CF	15.3	16.0
<i>Hydropsyche</i>	09020604016	12.00	29.20	4	CF	1.9	4.7
<i>Hydropsyche morosa</i>	09020604016030	1.33			--	0.2	
<i>Hydropsyche depravata complex</i>	09020604016041	14.67			CF	2.3	
<i>Protoptila</i>	09020606022	8.00	8.00	1	SC	1.3	1.3
<i>Hydroptila</i>	09020607026	1.33	1.33	6	P	0.2	0.2
<i>Ceraclea</i>	09020618072	1.33	1.33	3	CG	0.2	0.2
<i>Nilotanytus</i>	09021011012		1.33	6	PR		0.2
<i>Nilotanytus fimbriatus</i>	09021011012027	1.33			--	0.2	
<i>Cricotopus</i>	09021011037	2.67	2.67	7	SH	0.4	0.4
<i>Nanocladius</i>	09021011049		1.33	3	CG		0.2
<i>Nanocladius spinipennis</i>	09021011049090	1.33			--	0.2	
<i>Orthocladius</i>	09021011050		2.67	6	CG		0.4
<i>Orthocladius carlatus</i>	09021011050093	2.67			--	0.4	
<i>Rheotanytarsus</i>	09021011072	5.33	5.33	6	CF	0.9	0.9
<i>Polypedilum</i>	09021011102		1.33	6	SH		0.2
<i>Polypedilum flavum</i>	09021011102182	1.33			--	0.2	
<i>Xenochironomus</i>	09021011108		1.33	0	PR		0.2
<i>Xenochironomus xenolabis</i>	09021011108200	1.33			--	0.2	
<i>Hemerodromia</i>	09021016057	1.33	1.33	3	PR	0.2	0.2
<i>Psephenus</i>	09021108058		8.00	4	SC		1.3



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		Actual	Adjusted			Actual	Adjusted
<i>Psephenus herricki</i>	09021108058028	8.00			--	1.3	
<i>Dubiraphia</i>	09021113064		1.33	6	--		0.2
<i>Dubiraphia minima</i>	09021113064036	1.33			--	0.2	
<i>Stenelmis</i>	09021113070	1.33	1.33	5	SC	0.2	0.2