

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

**Station Information**

<b>Station Number:</b> S20	DEP Drainage: Kennebec
Waterbody: East Branch Sebasticook	HUC Code: 01030003
Town: CORINNA	HUC Name: Lower Kennebec
Directions: 0.13 km below Corinna POTW	Latitude: 44 Deg 54 Min 50 Sec
	Longitude: 69 Deg 15 Min 25 Sec
	Stream Order: 3

**Sample Information**

<b>Log Number:</b> 1224	Type of Sample: Rock Baskets	Date Deployed: 15-JUL-03
Subsample Factor: X1	Replicates: 3	Date Retrieved: 12-AUG-03

**Classification Attainment**

Statutory Class: C	<b>Final Determination:</b> C	
Model Result with P > .6: C	Reason for Determination: Model	
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	1.00
Class B	0.03	Non-Attainment	0.00
	Class C		
	0.94		
	Class NA		
	0.03		
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	0.04	Class A	0.00
Class C or Non-Attainment	0.96	Class B or C or Non-Attainment	1.00

**Model Variables**

01 Total Abundance of Individuals	154.33	18 Relative Abundance - Ephemeroptera	0.65
02 Generic Richness	21.00	19 EPT Generic Richness	10.00
03 Plecoptera Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes</i> ,	0.00
04 Ephemeroptera Abundance	100.33	<i>Micropsectra, Parachironomus, Helobdella</i>	
05 Shannon - Wiener Diversity	2.91	23 Relative Generic Richness- Plecoptera	0.00
06 Hilsenhoff Biotic Index	4.48	25 Sum of Abundances: <i>Cheumatopsyche</i> ,	11.37
07 Relative Abundance - Chironomidae	0.17	<i>Cricotopus, Tanytarsus, Ablabesmyia</i>	
08 Relative Generic Richness - Diptera	0.29	26 Sum of Abundances: <i>Acroneuria, Stenonema</i>	38.47
09 <i>Hydropsyche</i> Abundance	4.63	28 EP Generic Richness/14	0.36
11 <i>Cheumatopsyche</i> Abundance	11.37	30 Presence of Class A Indicator Taxa/7	0.00
12 EPT Generic Richness/ Diptera Generic Richness	1.67		

**Five Most Dominant Taxa**

		Taxa Rank	Taxa Name	Percent
13 Relative Abundance - Oligochaeta	0.00	1	Baetis	31.56
15 Perlidae Abundance (Family Functional Group)	0.00	2	Stenonema	24.93
16 Tanypodinae Abundance (Family Functional Group)	0.36	3	Rheotanytarsus	14.77
17 Chironomini Abundance (Family Functional Group)	0.36	4	Cheumatopsyche	7.37
		5	Acerpenna	5.37

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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:	23.2 °C	Specific Conductance	158.0 uS/cm	Channel Width:	7.0 m
Velocity:	20 cm/s	Dissolved Oxygen:	8.7 ppm	Channel Depth:	45.0 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>
Pasture Upland Hardwood	Partly Open		Below Point Source

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**Substrate**

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Boulder	Rubble	Gravel	Sand
5%	35%	40%	20%

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**Comments about the Station or Sample**

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8/12/03 Data:  
Flow: 23.5cm/s; Depth: 40cm; Temp: 26.5C; SPC: 183uS/cm; DO: 8.4mg/L; pH: 7.23

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**Comments about the Final Determination**

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**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>Orconectes</i>	09010301008	0.33	0.67		CG	0.2	0.4
<i>Orconectes virilis</i>	09010301008016	0.33	0.00		--	0.2	0.0
<i>Boyeria</i>	09020301004	0.00	3.00	2	PR	0.0	1.9
<i>Boyeria grafiana</i>	09020301004011	0.67	0.00		--	0.4	0.0
<i>Boyeria vinosa</i>	09020301004012	2.33	0.00		--	1.5	0.0
<i>Baetidae</i>	09020401	2.00	0.00		--	1.3	0.0
<i>Baetis</i>	09020401001	3.33	48.71	4	CG	2.2	31.6
<i>Baetis flavistriga</i>	09020401001004	43.67	0.00		--	28.3	0.0
<i>Acerpenna</i>	09020401007	0.67	8.29	5	CG	0.4	5.4
<i>Acerpenna pygmaea</i>	09020401007011	7.33	0.00		--	4.7	0.0
<i>Heptageniidae</i>	09020402	5.00	0.00		--	3.2	0.0
<i>Stenacron</i>	09020402014	0.00	4.53	7	SC	0.0	2.9
<i>Stenacron interpunctatum</i>	09020402014045	4.00	0.00		--	2.6	0.0
<i>Stenonema</i>	09020402015	7.33	38.47	4	SC	4.7	24.9
<i>Stenonema modestum</i>	09020402015051	26.67	0.00		--	17.3	0.0
<i>Tricorythodes</i>	09020411038	0.33	0.33	4	CG	0.2	0.2
<i>Ceratotina</i>	09020603006	0.67	0.67		PR	0.4	0.4
<i>Polycentropus</i>	09020603010	1.33	1.33	6	PR	0.9	0.9
<i>Hydropsychidae</i>	09020604	3.33	0.00		--	2.2	0.0
<i>Cheumatopsyche</i>	09020604015	9.00	11.37	5	CF	5.8	7.4
<i>Hydropsyche</i>	09020604016	3.33	4.63	4	CF	2.2	3.0
<i>Hydropsyche depravata-complex</i>	09020604016041	0.33	0.00		CF	0.2	0.0
<i>Pycnopsyche</i>	09020610049	0.33	0.33	4	SH	0.2	0.2
<i>Nigronia</i>	09020701003	0.00	1.00	0	PR	0.0	0.6
<i>Nigronia serricornis</i>	09020701003003	1.00	0.00		--	0.6	0.0
<i>Chironomidae</i>	09021011	1.67	0.00		--	1.1	0.0
<i>Meropelopia</i>	09021011010	0.33	0.36		--	0.2	0.2
<i>Rheotanytarsus</i>	09021011072	21.33	22.79	6	CF	13.8	14.8
<i>Polypedilum</i>	09021011102	0.00	0.36	6	SH	0.0	0.2
<i>Polypedilum flavum</i>	09021011102182	0.33	0.00		--	0.2	0.0
<i>Hayesomyia</i>	09021011112	0.00	2.49		--	0.0	1.6
<i>Hayesomyia senata</i>	09021011112001	2.33	0.00		--	1.5	0.0
<i>Simulium</i>	09021012047	0.33	2.67	4	CF	0.2	1.7
<i>Simulium vittatum</i>	09021012047064	2.33	0.00		--	1.5	0.0
<i>Hemerodromia</i>	09021016057	0.67	0.67	3	PR	0.4	0.4
<i>Psephenus</i>	09021108058	0.00	0.33	4	SC	0.0	0.2
<i>Psephenus herricki</i>	09021108058028	0.33	0.00		--	0.2	0.0

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**BioME Aquatic Life Taxonomic Inventory Report**

<b>Taxa</b>	<b>Code</b>	<b>Count (Average of Baskets)</b>		<b>Biotic Index Value</b>	<b>Functional Feeding Group</b>	<b>Relative Abundance</b>	
		<b>Actual</b>	<b>Adjusted</b>			<b>Actual</b>	<b>Adjusted</b>
<i>Ferrissia</i>	10010204035	1.33	1.33		SC	0.9	0.9