



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

**Station Information**

<b>Station Number:</b> S-1113	River Basin: Kennebec
Waterbody: Stoney Brook - Station 1113	HUC8 Name: Dead
Town: Wyman Twp	Latitude: 45 6 30.13 N
Directions: RT 16 3.3 MILES PAST SUGARLOAF. BRIDGE BY STONEY BROOK RD. 42 M ABOVE BRIDGE.	Longitude: 70 22 7.97 W
	Stream Order: 2

**Sample Information**

<b>Log Number:</b> 2565	Type of Sample: ROCK BAG	Date Deployed: 7/13/2017
Subsample Factor: X1	Replicates: 3	Date Retrieved: 8/10/2017

**Classification Attainment**

<b>Statutory Class:</b> A	<b>Final Determination:</b> A	Date: 1/23/2018
Model Result with $P \geq 0.6$ : A	<b>Reason for Determination:</b> Model	
Date Last Calculated: 1/22/2018	Comments:	

**Model Probabilities**

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.53	Class A, B, or C	1.00
Class B	0.46	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	434.67	18 Relative Abundance Ephemeroptera	0.20
02 Generic Richness	44.00	19 EPT Generic Richness	25.00
03 Plecoptera Mean Abundance	19.33	21 Sum of Abundances: <i>Dicrotendipes, Micropsectra, Parachironomus, Helobdella</i>	10.00
04 Ephemeroptera Mean Abundance	86.33	23 Relative Generic Richness- Plecoptera	0.14
05 Shannon-Wiener Generic Diversity	3.13	25 Sum of Abundances: <i>Cheumatopsyche, Cricotopus, Tanytarsus, Ablabesmyia</i>	8.67
06 Hilsenhoff Biotic Index	4.24	26 Sum of Abundances: <i>Acroneuria, Maccaffertium, Stenonema</i>	0.33
07 Relative Abundance - Chironomidae	0.28	28 EP Generic Richness/14	1.29
08 Relative Generic Richness Diptera	0.32	30 Presence of Class A Indicator Taxa/7	0.57
09 <i>Hydropsyche</i> Abundance	184.33		
11 <i>Cheumatopsyche</i> Abundance	0.00		
12 EPT Generic Richness/ Diptera Generic Richness	1.79		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	8.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	4.00		
17 Chironomini Abundance (Family Functional Group)	21.33		

**Five Most Dominant Taxa**

Rank	Taxon Name	Percent
1	<i>Hydropsyche</i>	42.41
2	<i>Rheotanytarsus</i>	14.26
3	<i>Baetis</i>	12.72
4	<i>Ephemerella</i>	5.60
5	<i>Polypedilum</i>	4.91



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**Log Number: 2565**      Waterbody: Stoney Brook - Station 1113      Date Retrieved: 8/10/2017

**Sample Collection and Processing Information**

Sampling Organization: BIOMONITORING UNIT      Taxonomist: MICHAEL COLE

**Waterbody Information - Deployment**

Temperature: 14.3 deg C  
Dissolved Oxygen: 11.23 mg/l  
Dissolved Oxygen Saturation: 112.7 %  
Specific Conductance: 31.1 uS/cm  
Velocity: 51.8 cm/s  
pH: 7.5  
Wetted Width: 13 m  
Bankfull Width: 14 m  
Depth: 20 cm

**Waterbody Information - Retrieval**

Temperature: 16.4 deg C  
Dissolved Oxygen: 11.05 mg/l  
Dissolved Oxygen Saturation: 115.7 %  
Specific Conductance: 37.2 uS/cm  
Velocity: 18.3 cm/s  
pH: 7.7  
Wetted Width: 6.8 m  
Bankfull Width: 14 m  
Depth: 20 cm

**Water Chemistry**

**Summary of Habitat Characteristics**

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>	
Upland Hardwood	Partly Open	Rolling	
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>	
Logging	Above Road Crossing	Boulder	65 %
		Gravel	5 %
		Rubble/Cobble	30 %

**Landcover Summary - 2004 Data**

**Sample Comments**



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Aquatic Life Taxonomic Inventory Report**

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**Log Number: 2565**      Subsample Factor: X1      Replicates: 3      Calculated: 1/22/2018

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Pteronarcys</i>	09020205023	0.67	0.67	0	SH	0.2	0.2
<i>Tallaperla</i>	09020206025	2.67	2.67		SH	0.6	0.6
Perlodidae	09020207	6.67	6.67		--	1.5	1.5
<i>Isoperla</i>	09020207026	1.33	1.33	2	PR	0.3	0.3
Perlidae	09020209	1.33			--	0.3	
<i>Paragnetina</i>	09020209049		0.80	1	PR		0.2
<i>Paragnetina immarginata</i>	09020209049149	0.67			--	0.2	
<i>Agnatina</i>	09020209050		7.20	2	PR		1.7
<i>Agnatina capitata</i>	09020209050152	6.00		2	PR	1.4	
<i>Cordulegaster</i>	09020303019	0.33	0.33	3	PR	0.1	0.1
Baetidae	09020401	1.33			--	0.3	
<i>Baetis</i>	09020401001	8.67	55.29	4	CG	2.0	12.7
<i>Baetis flavistriga</i>	09020401001004	4.33			--	1.0	
<i>Baetis tricaudatus</i>	09020401001012	41.00			--	9.4	
<i>Acerpenna</i>	09020401007		0.68	5	CG		0.2
<i>Acerpenna macdunnoughi</i>	09020401007001	0.67			--	0.2	
<i>Plauditus</i>	09020401012	0.67	0.68		CG	0.2	0.2
<i>Dipheter</i>	09020401013		0.34		--		0.1
<i>Dipheter hageni</i>	09020401013001	0.33			--	0.1	
<i>Epeorus</i>	09020402009	0.67	0.67	0	SC	0.2	0.2
<i>Heptagenia</i>	09020402010	1.00	1.00	2	SC	0.2	0.2
<i>Leucrocuta</i>	09020402011	2.00	2.00	1	SC	0.5	0.5
<i>Maccaffertium</i>	09020402015		0.33	4	SC		0.1
<i>Maccaffertium vicarium</i>	09020402015055	0.33			--	0.1	
Leptophlebiidae	09020406	0.33	0.33		--	0.1	0.1
<i>Paraleptophlebia</i>	09020406026	0.33	0.33	1	CG	0.1	0.1
<i>Drunella</i>	09020410034		0.33	0	SC		0.1
<i>Drunella cornutella</i>	09020410034099	0.33			CG	0.1	
<i>Ephemerella</i>	09020410035	24.33	24.33	1	CG	5.6	5.6
<i>Arctopsyche</i>	09020604012		1.67		CF		0.4
<i>Arctopsyche ladogensis</i>	09020604012022	1.67			--	0.4	
<i>Hydropsyche</i>	09020604016	132.67	184.33	4	CF	30.5	42.4
<i>Hydropsyche alhedra</i>	09020604016028	11.33			--	2.6	
<i>Hydropsyche sparna</i>	09020604016032	40.33			--	9.3	
<i>Rhyacophila</i>	09020605019	1.00	1.33	2	PR	0.2	0.3
<i>Rhyacophila fuscula</i>	09020605019060	0.33			PR	0.1	
Glossosomatidae	09020606				--		



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<i>Glossosoma</i>	09020606020	2.67	2.67	0	SC	0.6	0.6
<i>Brachycentrus</i>	09020609043	1.33	2.00	0	CF	0.3	0.5
<i>Brachycentrus appalachia</i>	09020609043096	0.67			--	0.2	
<i>Lepidostoma</i>	09020611064	1.00	1.00	1	SH	0.2	0.2
<i>Ceraclea</i>	09020618072	1.33	1.33	3	CG	0.3	0.3
Chironomidae	09021011				--		
<i>Thienemannimyia</i>	09021011020		4.00	3	PR		0.9
<i>Thienemannimyia group</i>	09021011020041	4.00			--	0.9	
<i>Pagastia</i>	09021011025	2.00	2.00	1	--	0.5	0.5
<i>Corynoneura</i>	09021011036	2.67	2.67	7	CG	0.6	0.6
<i>Cricotopus</i>	09021011037	2.00	8.67	7	SH	0.5	2.0
<i>Cricotopus bicinctus</i>	09021011037057	6.67			--	1.5	
<i>Orthocladius</i>	09021011050	1.33	1.33	6	CG	0.3	0.3
<i>Thienemanniella</i>	09021011062	1.33	1.33	6	CG	0.3	0.3
<i>Tvetenia</i>	09021011065		8.00	5	CG		1.8
<i>Tvetenia vitracies</i>	09021011065113	5.33			--	1.2	
<i>Tvetenia paucunca</i>	09021011065114	2.67			--	0.6	
<i>Micropsectra</i>	09021011070	10.00	10.00	7	CG	2.3	2.3
<i>Rheotanytarsus</i>	09021011072		62.00	6	CF		14.3
<i>Rheotanytarsus pellucidus</i>	09021011072128	62.00			CF	14.3	
<i>Polypedilum</i>	09021011102		21.33	6	SH		4.9
<i>Polypedilum aviceps</i>	09021011102181	20.67			--	4.8	
<i>Polypedilum tritum</i>	09021011102191	0.67			--	0.2	
<i>Simulium</i>	09021012047	1.67	1.67	4	CF	0.4	0.4
<i>Atherix</i>	09021015055	0.33	0.33	2	PR	0.1	0.1
Empididae	09021016	0.67		6	--	0.2	
<i>Hemerodromia</i>	09021016057	0.33	0.43	3	PR	0.1	0.1
<i>Neoplasta</i>	09021016064	2.00	2.57		PR	0.5	0.6
<i>Dubiraphia</i>	09021113064	0.67	0.67	6	--	0.2	0.2
<i>Oulimnius</i>	09021113068		0.33		--		0.1
<i>Oulimnius latiusculus</i>	09021113068049	0.33			--	0.1	
<i>Promoresia</i>	09021113069		6.67		--		1.5
<i>Promoresia tardella</i>	09021113069052	6.67			--	1.5	
<i>Ferrissia</i>	10010204035		0.33		SC		0.1
<i>Ferrissia rivularis</i>	10010204035066	0.33			--	0.1	