

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

Station Information

Station Number: W-397	Trip ID: 2023-397	River Basin:
Waterbody: AMBAJEJUS LAKE (S1)		HUC8 Name:
Town: T01 R09 Wels		Latitude:
Mitigation Monitoring Site: No		Longitude:

Sample Information

Sample ID: SB-2023-397	Type of Sample: SURBER	Sampling Organization: NORMANDEAU ASSOCIATES
Date Sampled: 8/15/2023	Replicates: 3	Taxonomist: NORMANDEAU ASSOCIATES
Subsample Factor: X1		

Classification Attainment

Statutory Class:	GPA	Final Determination:	C	Date: 1/3/2025
Model Result with $P \geq 0.6$:	B	Reason for Determination: Best Professional Judgement		
Date Last Calculated:	11/21/2024	Comments: Sample method not appropriate for model. Sample does meet structure and function.		

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A: 0.12	Class C: 0.05	Class A, B, or C	1.00
Class B: 0.84	NA: 0.00	Non-Attainment	0.00
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	0.95	Class A	0.12
Class C or Non-Attainment	0.05	Class B or C or Non-Attainment	0.88

Model Variables

		Reference Range (10th or 90th percentile value)
Abundance of Taxa in the Order Ephemeroptera	14.000	≥ 0.000
Relative Richness of Taxa in the Orders Ephemeroptera, Odonata and Tricoptera	0.273	≥ 0.140
Shannon-Wiener Diversity Index	3.315	≥ 2.497
Relative Abundance of Collector-Gatherer Taxa	0.693	≥ 0.131
Abundance of Sensitive Taxa	114.667	≥ 3.424
Richness of Sensitive Taxa	8.000	≥ 3.000
Maine Tolerance Index Score For Wetland Macroinvertebrates	31.435	≤ 29.776
Ratio of MTI Sensitive to Eurytopic Taxa Abundance	1.009	≥ 0.334

Other Variables

Total Mean Abundance	347
Generic Richness:	44
Hilsenhoff Biotic Index:	5.86

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Stylaria lacustris</i>	29.85
2	<i>Nais</i>	28.60
3	<i>Tanytarsus</i>	7.68
4	<i>Problezzia</i>	7.20

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5 *Hyalella azteca*

4.13

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Surface Water Chemistry

Sample Date: 8/15/2023 1:42:00 PM

Collection Method	Parameter	Value	Units	Qualifier
In-situ	Dissolved Oxygen	9.69	mg/l	
In-situ	pH	6.97		
In-situ	Specific Conductance	26	us/cm	
In-situ	Temperature	21.23	deg c	

Landcover Summary - 2004 Data

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Summary of Habitat Characteristics

<u>Human Disturbance</u>	<u>Landscape-level Cowardin Classification</u>	<u>Hydrogeomorphic Setting</u>
Total Score:	System:	Landscape Position:
Hydrologic Modifications:	Subsystem:	Lotic Gradient:
Vegetative Modifications:	Class 1:	Flow Path:
Chemical Pollutants:	Subclass 1:	Land Form:
Watershed	Class 2:	Land Form Type:
Characterization and	Subclass 2:	Waterbody Type:
Non-point Sources:	Class 3:	Waterbody Subtype:
	Subclass 3:	

Comments:

Dominant Plant Species:

Additional Plant Community Observations:

Habitat Classification:

OPEN WATER STANDING

Substrate Classification:

BOULDER SUBSTRATE

RUBBLE/COBBLE SUBSTRATE

SAND SUBSTRATE

Average Depth:

Visible Flow: No

Rain In Previous 24 Hours: No

Sample Comments:

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Additional Summary Variables

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		Calculated: 11/21/2024

	Abundance	Relative Abundance	Richness	Relative Richness
EOT Taxa:	16.67	0.048	12	0.27
EPT Taxa:	17.67	0.051	13	0.30
Insects:	92.33	0.266	28	0.64
Non-Insects:	255.00	0.734	16	0.36
Leeches:	1.33	0.004	1	0.02
Oligochaetes:	217.67	0.627	7	0.16
Snails:	21.33	0.061	6	0.14
Bivalves:	0.00	0.000	0	0.00
Isopods:	0.00	0.000	0	0.00
Amphipods:	14.33	0.041	1	0.02
Mites:	0.00	0.000	0	0.00
Stoneflies:	1.33	0.004	2	0.05
Mayflies:	14.00	0.040	7	0.16
Odonates:	0.33	0.001	1	0.02
Caddisflies:	2.33	0.007	4	0.09
Diptera:	74.33	0.214	14	0.32
Hemiptera:	0.00	0.000	0	0.00
Beetles:	0.00	0.000	0	0.00
Chironomids:	45.33	0.131	12	0.27
Tanypodinae Tribe:	3.33	0.010	3	0.07
Chironomiinae Tribe:	37.67	0.108	6	0.14
Orthoclodiinae Tribe:	4.33	0.012	3	0.07
Collector-Filterers:	27.00	0.078	2	0.05
Collector-Gatherers:	240.67	0.693	15	0.34
Predators:	34.00	0.098	8	0.18
Piercers:	0.00	0.000	0	0.00
Shredders:	0.67	0.002	2	0.05
Scrapers:	22.00	0.063	8	0.18
Maine Tolerance:				
Sensitive:	114.67	0.366	8	0.31
Intermediate:	85.00	0.271	14	0.54
Eurytopic:	113.67	0.363	4	0.15
Ratio of MTI Sensitive to Eurytopic	1.01	1.009	2.00	2.00

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Aquatic Life Taxonomic Inventory Report

Station Number: W-397	Waterbody: AMBAJEJUS LAKE (S1)	Town: T01 R09 Wels
Log Number: SB-2023-397	Subsample Factor: X1	Replicates: 3
		Calculated: 11/21/2024

Taxon	Maine Taxonomic Code	Count (Mean of Samples)		Hilsen- hoff Biotic Index	Func- tional Feeding Group	Maine Toler- ance Index	Tribe	Taxa Group
		Actual	Adjusted					
Nematoda	05	0.33	0.33	--	--	--	--	Nematode
Lumbriculus	08020101002	0.00	1.00	--	CG	35-I	--	Worm
<i>Lumbriculus variegatus</i>	08020101002001	1.00	0.00	--	--	--	--	Worm
Tubificida	080202	4.33	4.33	--	--	--	--	Worm
Enchytraeidae	08020201	1.67	1.67	--	--	--	--	Worm
Nais	08020202009	99.33	99.33	--	CG	43-E	--	Worm
Ripistes	08020202011	0.00	1.00	--	--	--	--	Worm
<i>Ripistes parasita</i>	08020202011001	1.00	0.00	--	--	--	--	Worm
Slavina	08020202012	0.00	6.00	--	--	4.2-S	--	Worm
<i>Slavina appendiculata</i>	08020202012001	6.00	0.00	--	--	--	--	Worm
Stylaria	08020202014	0.00	103.67	--	CG	18-S	--	Worm
<i>Stylaria lacustris</i>	08020202014002	103.67	0.00	--	--	--	--	Worm
Aulodrilus	08020202018	0.67	0.67	--	--	3.8-S	--	Tubificid Worm
Erpobdella	08030203002	1.33	1.33	--	--	36.4-I	--	Leech
Hyaella	09010203006	0.00	14.33	8	CG	24.5-I	--	Amphipod
<i>Hyaella azteca</i>	09010203006011	14.33	0.00	--	--	--	--	Amphipod
Sweltsa	09020208040	1.00	1.00	--	PR	--	--	Stonefly
Acroneuria	09020209042	0.33	0.33	0	PR	--	--	Stonefly
Enallagma	09020309051	0.33	0.33	9	PR	26.2-I	--	Dragonfly/damselfly
Centropetium	09020401003	3.67	3.67	2	CG	--	--	Mayfly
Acentrella	09020401008	0.33	0.33	3	CG	--	--	Mayfly
Maccaffertium	09020402015	4.33	4.33	4	SC	--	--	Mayfly
Stenonema	09020402016	0.00	2.00	4	SC	--	--	Mayfly
<i>Stenonema femoratum</i>	09020402016001	2.00	0.00	4	SC	--	--	Mayfly
Choroterpes	09020406022	1.33	1.33	2	CG	--	--	Mayfly
Paraleptophlebia	09020406026	2.00	2.00	1	CG	--	--	Mayfly
Eurylophella	09020410036	0.00	0.33	3	CG	23.2-I	--	Mayfly
<i>Eurylophella aestiva</i>	09020410036112	0.33	0.00	--	--	--	--	Mayfly
Dolophilodes	09020601001	0.33	0.33	0	CF	--	--	Caddisfly
Psilotreta	09020614068	0.33	0.33	0	SC	--	--	Caddisfly
Molanna	09020615069	1.33	1.33	6	SC	--	--	Caddisfly
Triaenodes	09020618077	0.33	0.33	6	SH	19.3-S	--	Caddisfly
Probezzia	09021010041	25.00	25.00	6	PR	28.6-I	--	Fly: Biting Midge
Palpomyia	09021010044	4.00	4.00	6	PR	--	--	Fly: Biting Midge
Ablabesmyia	09021011001	0.33	0.33	8	PR	23.6-I	T	Fly: Midge

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		Actual	Adjusted						
Labrundinia	09021011008	0.33	0.33	7	PR	18.1-S	T	Fly: Midge	
Thienemannimyia	09021011020	0.00	2.67	3	PR	--	T	Fly: Midge	
<i>Thienemannimyia group</i>	09021011020041	2.67	0.00	--	--	--	T	Fly: Midge	
Corynoneura	09021011036	1.00	1.00	7	CG	40.1-I	--	Fly: Midge	
Orthocladius	09021011050	1.33	1.33	6	CG	22-S	--	Fly: Midge	
Psectrocladius	09021011056	2.00	2.00	8	CG	22-S	--	Fly: Midge	
Micropsectra	09021011070	9.00	9.00	7	CG	98.1-E	Y	Fly: Midge	
Tanytarsus	09021011076	26.67	26.67	6	CF	25.7-I	Y	Fly: Midge	
Pseudochironomus	09021011078	0.67	0.67	5	CG	47.7-E	S	Fly: Midge	
Dicrotendipes	09021011085	0.67	0.67	8	CG	28.8-I	C	Fly: Midge	
Nilothauma	09021011095	0.33	0.33	2	--	11-S	C	Fly: Midge	
Polypedilum	09021011102	0.33	0.33	6	SH	24.2-I	C	Fly: Midge	
Valvata	10010101001	6.33	6.33	--	SC	33.4-I	--	Snail	
Fossaria	10010201021	4.67	4.67	--	--	56.1-E	--	Snail	
Physidae	10010202	0.33	0.33	--	SC	--	--	Snail	
Gyraulus	10010203029	6.00	6.00	--	SC	37.2-I	--	Snail	
Helisoma	10010203030	1.33	1.33	--	SC	42.8-I	--	Snail	
Menetus	10010203031	0.00	2.67	--	--	--	--	Snail	
<i>Menetus dilatatus</i>	10010203031059	2.67	0.00	--	--	--	--	Snail	