State of Wisconsin
Department of Natural Resources
PO Box 7291, Madison WI 53707-7291
dnr.wi.gov

Wadeable Macroinvertebrate Field Data Report

Form 3200-081 (R 8/14)

Instructions: **Bold** fields must be completed.

Station Summary

Waterbody Name	**Waterbody ID Code**	**Sample ID (YYYYMMDD-CY-FD)**
NORTH BRANCH EMBARRASS RIVER	301300	20201022 - 59 - 02

Sampling Location	**Database Key**
	258672022

SWIMS Station ID	**SWIMS Station Name**
10047839	N BRANCH EMBARRASS RIVER AT REGINA ROAD

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
		SWIMS SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
WOLF RIVER	NORTH BRANCH AND MAINSTEM EMBARRA	SHAWANO

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
ANDREW HUDAK	2020 TWA STRASSBURG CREEK- NORTH BRANCH EMBARRA

Sampling Device

- [x] D-Frame Kick Net
- [ ] Surber Sampler
- [ ] Eckman
- [ ] Ponar
- [ ] Artificial Substrate
- [ ] Hess Sampler
- [ ] Other: _____

Habitat Sampled

- [x] Riffle
- [ ] Run
- [ ] Pool
- [ ] Other
- [ ] Shoreline Composite
- [ ] Proportionally-Sampled Habitat
- [ ] Littoral Zone
- [ ] Profundal Zone
- [ ] Wetland

Total Sampling Time (min)	**Estimated Area Sampled (m^2)**	**Number of Samples in Composite**	
4	3	1	**Replicate No.** 1 **of** 1

Reason For Sampling

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [ ] Trend
- [ ] Other: _____

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
3.2	12.7	95.0		.254	>122

Water Color

- [x] Clear
- [ ] Turbid
- [ ] Stained

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [ ] Moderate (0.15 m/s - 0.5 m/s)
- [x] Fast (> 0.5 m/s)

Measured Velocity circle units m/s **or** f/s	**Average Stream Depth of reach (m)**	**Average Stream Width of reach (m)**

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 20 Rubble (tennisball to basketball): 80 Gravel (ladybug to tennisball): _____

Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 0 **Canopy Cover at Sample Site (%)** 80

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Stream and Watershed Descriptors

N = Not a problem
U = Uncertain
PL = Present, Low Impact
PH = Present, High Impact

Factors that may be influencing Water Resource Integrity	Local	Water-shed	Factors that may be influencing Water Resource Integrity	Local	Water-shed
Biological			**Chemical**		
Algae: - Diatoms / Periphyton	N	N	Chlorine	N	U
- Filamentous Algae	N	N	Dissolved Oxygen	N	N
- Planktonic Algae	N	N	Nutrients (P, N...)	N	U
Iron Bacteria	N	N	Toxics: - Inorganic (Metals)	N	N
Macrophytes	N	N	- Organic (PCBs, pesticides...)	N	U
Slimes	N	N	Other - Specify:		
Other - Specify:			**Sources of Stream Impacts**		
			Bank Erosion	N	U
Physical			Point Source - Specify:	N	N
Bank Erosion	N	U	Pasturing of Livestock	N	U
Channelization: - Upstream	N	N	Runoff: - Barnyard	N	U
- Downstream	N	N	- Construction	N	N
Hydraulic Scour / Channel Incision	N	N	- Cropland	N	U
Impoundment: - Upstream	N	N	- Urban	N	N
- Downstream	N	N	Septic Systems	N	U
Low Flow	N	N	Tile Drainage - Organic Soils	N	U
Sedimentation	N	N	- Mineral Soils	N	U
Sludge	N	N	Springs	U	U
Thermal	N	N	Tributary(s)	U	U
Turbidity	N	N	Wetland	U	U
Other - Specify:			Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Elwer, Brenden	Pimock, Jeffrey	6.25%
Date Processed 9-17-2021	Specimens Saved Subsample 156 archived in ABL until oct 2024	

B1 Q4 27 Q3 11 Q1 Q2 C4 Q1 66 Q4 52 Q3 Q2 156

Wisconsin Department of Natural Resources
ABL SampleNum: **20201022-59-02**
Taxonomist: Dimick, Jeffrey

Waterbody: **North Branch Embarrass River**
SWIMS Database Key: **258672022**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis tricaudatus	L	II	2	Klub 2016		
Ephemerella	L	~~X~~-I	16	MCB 2019	imm	N
E. invaria	L	~~X~~	10	Klub 2016		
E. subvaria	L	~~X~~-II	17	"		
Tetragenopsis deficiens	L	I	1	"		
Maccaffertium	L	-II	7	"	imm	
Stenacron	L	I	1	MCB 2019	imm	
Neoleptophlebia	L	-I	7	"	dam/imm	N
N. mollis	L	II	2	Klub 2019		
Allocapnia	L	I	1	MCB 2019		
Paracapnia angulata	L	-	5	Hitch 1974		
Paragnetina media	L	I	1	Hils 1995		
Isoperla	L	I	1	MCB 2019	imm	N
I. transmarina	L	I	1	Hils 1982		
Taeniopteryx	L	II	2	MCB 2019	imm	N
T. burksi	L	III	3	Fullstew 1980		
Leptophlebiidae	L	I	1	MCB 2019	imm	N
Nemouridae	L	I	1	"	imm	
Brachycentrus occidentalis	L	I	1	Hils 1985		
Glossosoma	L	-	5	MCB 2019	imm	N
G. intermedium	L	III	3	WynMor 2000		
Ceratopsyche	L	I	1	Hils 1995	imm	N
C. alhedra	L	I	1	SchmHils 1986		
C. slossonae	L	I	1	"		
C. sparna	L	II	7	"		
Cheumatopsyche	L	IIII	4	MCB 2019		
Lepidostoma	L	III	3	"		
Philopotamidae	L	I	1	"	imm	N
Chimarra aterrima	L	II	2	Hils 1982		
Dolophilodes distinctus	L	-II	7	Hils 1995		
Neophylax	L	I	1	MCB 2019		
Optioservus	L	-II	7	"	imm	N
O. fastiditus	L	I	1	HilsSchm 1992		
Nigronia serricornis	L	II	2	Neunzig 1966		
Atherix variegata	L	I	1	Hils 1995		
Hemerodromia	L	I	1	MCB 2019		
Gammarus pseudolimnaeus	A	I	1	Hils 1972		

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Naidinae	A	I	1	Kath Brin KE&B		
~~Split A_2 Chironomidae~~	~~L~~	~~oIIII NP~~				
Pagastia	L	I	1	And et al 2013		
Parametriocnemus	L	III	3	"		
Tvetenia bavarica group	L	卌	5	Bode 1983		
Orthocladiinae	L	II	2	And et al 2013	imm	N
Eukiefferiella brehmi group	L	卌I	6	"		
Heleniella	L	I	1	"		
Thienemanniella	L	II	2	"		
Microtendipes rydalensis group	L	卌	5	"		
Paratanytarsus longistilus	L	I	1	"		
Tanytarsus	L	I	1	"		