

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

**Station Summary**

<b>Waterbody Name</b> NORTH BRANCH EMBARRASS RIVER		<b>Waterbody ID Code</b> 301300	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20221206-59-01
<b>Sampling Location</b>			<b>Database Key</b> 334620798
<b>SWIMS Station ID</b> 10022027		<b>SWIMS Station Name</b> EMBARRASS RIVER NORTH BRANCH RD. IBI	
<b>Latitude</b>	<b>Longitude</b>	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV GPS	
<b>Basin (WMU)</b> WOLF RIVER		<b>Watershed Name</b> NORTH BRANCH AND MAINSTEM EMBARRA	<b>Datum Used if using GPS</b> WGS84 or NAD83
<b>County</b> SHAWANO			

**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> ANDREW GILSDORF	<b>Project Name</b> PONY CREEK - NORTH BRANCH EMBARRASS RIVER TWA 20
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**Sampling Device**

D-Frame Kick Net     
  Surber Sampler     
  Eckman  
 Ponar     
  Artificial Substrate     
  Hess Sampler     
  Other: \_\_\_\_\_

**Habitat Sampled**

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

<b>Total Sampling Time (min)</b> 15	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 17	<b>Number of Samples in Composite</b> 1	<b>Replicate No.</b> _____ <b>of</b> _____
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**Reason For Sampling**

Least Impacted Reference     
  Baseline     
  Impact / Treatment Site  
 Control Site     
  Trend     
  Other: \_\_\_\_\_

<b>Water Temp. (C)</b>	<b>D.O. (mg/l)</b>	<b>D.O. (% sat.)</b>	<b>pH (su)</b>	<b>Conductivity (umhos/cm)</b>	<b>Transparency (cm)</b>
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<b>Water Color</b>	<b>Estimated Stream Velocity (m/s)</b>
<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	<input type="checkbox"/> Slow (< 0.15 m/s) <input checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)

<b>Measured Velocity</b> circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b>	<b>Average Stream Width of reach (m)</b>
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): 10 Rubble (tennisball to basketball): 60 Gravel (ladybug to tennisball): 20  
 Sand: 10 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: \_\_\_\_\_ Other (\_\_\_\_): \_\_\_\_\_

**Embeddedness of Substrate at Sample Site (%)** 20 **Canopy Cover at Sample Site (%)** 60

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

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter <i>Anna Powers</i>	Taxonomist <i>Dimrick, Jeffery</i>	Estimated Percent of Sample Sorted <i>6.3%</i>
Date Processed <i>3/26/23</i>	Specimens Saved <i>Subsample archived in ABL until Jul 2026</i>	

*D4 2-53 3 4 12-67 406 1/3 A3 302 A1*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis tricaudatus</i>	L	1	1	Kubertanz 2016		
<i>Leucocenta</i>	L	1	1	MCB 2019		
<i>Maccaffertium</i>	L	1	1	Kubertanz 2016		
<i>M. mediopunctatum</i>	L	1	1	"		
<i>M. modestum</i>	L	1	1	"		
<i>M. vicarium</i>	L	11	2	"		
<i>Allocaenia</i>	L	III	4	MCB 2019		
<i>Prostera</i>	L	11	2	"	imm	
<i>Perlodidae</i>	L	1	1	"	imm	
<i>Taeniopteryx nivalis</i>	L	111	3	Full Stew 1980		
<i>Microsema rustrum</i>	L	1	1	Hilkenhoff 1985		
<i>Cheumatopsyche</i>	L	1	1	MCB 2019		
<i>Hydrophila</i>	L	III	8	"		
<i>Neophylax</i>	L	1	1	"	imm	
<i>Nyctelia semicornis</i>	L	1	1	Nanzig 1966		
<i>Dubirapha</i>	L	1	1	MCB 2019		
<i>Optioservus</i>	L	0-	25	"	imm	
<i>Stenelmis</i>	L	1	1	"		
<i>Hemerodromia</i>	L	III	5	"		
<i>Prosimulium</i>	L	III	3	"	imm	
<i>Naidinae</i>	A	5-III-III	50	Kath Brun 1999		
<i>Nyctolates</i>	A	1	1	Peck et al 1990		
<i>Lebertia</i>	A	1	1	"		
<i>Sperchonidae</i>	A	1	1	"		
<i>Cyclopidae</i>	A	1	1	Trapp Reg 2016		
<i>Harpacticoida</i>	A	1	1	"		
<i>Baetidae</i>	L	1	1	MCB 2019	imm	N
<del><i>Spit A2a Chironomidae</i></del>	L	8x-210				
<del><i>Spit A2b Chironomidae</i></del>	L	8x-210				
<del><i>Spit A2c Chironomidae</i></del>	L	0-III-210				
<i>Brillia flavifrons</i>	L	11	2	Epler 2001		
<i>Parametopaenemus</i>	L	III	5	Ander et al 2013		
<i>Cladobambasus</i>	L	8-x	40	"		
<i>Microtendipes pediculus</i> group	L	-III	9	"		
<i>Tanytarsus</i>	L	8-III-III	39	"		
<i>Chironomidae</i>	L	11	2	MCB 2019	imm	N

