

**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> 20201015-59-03
<b>Sampling Location</b>			<b>Database Key</b> 258672034
<b>SWIMS Station ID</b> 10021390	<b>SWIMS Station Name</b> NORTH BRANCH EMBARRASS RIVER AT OLD HWY N		
<b>Latitude</b>	<b>Longitude</b>	<b>Lat/Long Determination Method (circle)</b> SWIMS    SWDV    GPS	<b>Datum Used if using GPS</b> WGS84 or NAD83
<b>Basin (WMU)</b> WOLF RIVER	<b>Watershed Name</b> NORTH BRANCH AND MAINSTEM EMBARRASS RIVER	<b>County</b> SHAWANO	

**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> ANDREW HUDAK	<b>Project Name</b> 2020 TWA STRASSBURG CREEK- NORTH BRANCH EMBARRASS RIVER
--	--

**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> 3	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 5	<b>Number of Samples in Composite</b> 1	<b>Replicate No.</b> 1 <b>of</b> 1
---------------------------------------	--	--	------------------------------------

**Reason For Sampling**

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

<b>Water Temp. (C)</b> 7.1	<b>D.O. (mg/l)</b> 11.2	<b>D.O. (% sat.)</b> 92.8	<b>pH (su)</b>	<b>Conductivity (umhos/cm)</b> 251	<b>Transparency (cm)</b> 122
-------------------------------	----------------------------	------------------------------	----------------	---------------------------------------	---------------------------------

<b>Water Color</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	<b>Estimated Stream Velocity (m/s)</b> <input checked="" type="checkbox"/> Slow (< 0.15 m/s) <input 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> 0.2	<b>Average Stream Width of reach (m)</b> 4
--	---	---

**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 30  
 Sand: 30 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: 10 Coarse Woody Debris: \_\_\_\_\_ Other ( ): \_\_\_\_\_

**Embeddedness of Substrate at Sample Site (%)** 20      **Canopy Cover at Sample Site (%)** 80

**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		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:				<b>Sources of Stream Impacts</b>			
				Bank Erosion		N	U
				Point Source - Specify:		N	N
				Pasturing of Livestock		N	U
<b>Physical</b>				Runoff: - Barnyard		N	U
Bank Erosion		N	U	- Construction		N	N
Channelization: - Upstream		N	N	- Cropland		U	U
- Downstream		N	N	- Urban		N	N
Hydraulic Scour / Channel Incision		N	N	Septic Systems		N	U
Impoundment: - Upstream		N	N	Tile Drainage - Organic Soils		N	U
- Downstream		N	N	- Mineral Soils		N	U
Low Flow		N	N	Springs		U	U
Sedimentation		N	N	Tributary(s)		U	U
Sludge		N	N	Wetland		U	U
Thermal		N	N	Other - Specify:			
Turbidity		N	N				
Other - Specify:							

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter Dunn, Isabel	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 3.5%
Date Processed 8/2/2021	Specimens Saved Subsample archived in ABL until Oct 2024	

4:10 -  
6:20

A1  
1-58  
2(00)-11  
3  
3  
4

A4  
2-58  
3  
4  
1

(127)

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Ephemerelellidae	L	I	1	MCB 2019	imm	N
Ephemerelella	L	XI	15	"	imm	N
E. invaria	L	IIII	4	Klub 2016		
E. subvaria	L	XI	11	"		
Heptageniidae	L	I	1	MCB 2019	imm	N
Epeorus vitreus	L	I	1	Klub 2016		
Leucrocuta	L	II	2	MCB 2019		
Macaetertium vicarium	L	IIII	4	Klub 2016		
Neoleptophlebia	L	0-11	27	MCB 2019	imm	N
N. mollis	L	III	3	Klub 2016		
Paracania angulata	L	III	5	Hitch 1974		
Paragnetma media	L	II	2	Hils 1995		
Isoperla	L	III	3	MCB 2019	imm	
Micrasema	L	I	1	"	imm	
Protophila	L	I	1	"		
Ceratopsyche sparna	L	IIII	4	Schm Hils 1986		
Cheumatopsyche	L	I	1	MCB 2019		
Lepidostoma	L	I	1	"		
Plectrocnemia	L	I	1	"		
Psychomyia flavida	L	I	1	Hils 1995		
Nigronia serricornis	L	II	2	Newman 1966		
O. fastidius	L	III	8	MCB 2019	imm	N
O. fastidius L.I A.II	L/A	II	2	Hils Schm 1992		
Atherix variegata	L	I	1	Hils 1995		
Heimerodromia	L	I	1	MCB 2019		
Antocha	L	I	1	"		
Dicranota	L	I	1	"		
Gammarus pseudolimnoides	A	II	2	Hils 1972		
Dugesidae	A	II	2	Thorp Bog 2016		
Naidinae	A	I	1	Kath Bin 1998		
Split A2 Chironemidae	L	01-JSD				
Brillia flavifrons	L	I	1	Eper 2001		
Orthocladinae	L	III	3	And et al 2013	imm	Y
Microsectra	L	I	5	"		
Macrotendipes nydalensis group	L	III	8	"		
Polypedium (uresipedium) aviceps	L	I	1	Bolton 2012		

