

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

**Station Summary**

<b>Waterbody Name</b> NORTH FORK EAU CLAIRE RIVER		<b>Waterbody ID Code</b> 2145400	<b>Sample ID (YYYYMMDD-CY-FD)</b> 2018/022-61-04
<b>Sampling Location</b> US bridge ~20m			<b>Database Key</b> 169406477
<b>SWIMS Station ID</b> 10010308	<b>SWIMS Station Name</b> NORTH FORK EAU CLAIRE RIVER - NORTH FORK E.C. RIVER STATION 4 STH 73		
<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> LOWER CHIPPEWA		<b>Watershed Name</b> NORTH FORK EAU CLAIRE RIVER	<b>County</b> TAYLOR

**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> CHRISTOPHER J WILLGER, MYCAL C RAI	<b>Project Name</b> MACROINVERTEBRATE SPATIAL ANALYSIS
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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> 1.0	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1.5	<b>Number of Samples in Composite</b> 1	<b>Replicate No.</b> 1 <b>of</b> 1
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**Reason For Sampling**

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

<b>Water Temp. (C)</b> 6.0	<b>D.O. (mg/l)</b> 12.35	<b>D.O. (% sat.)</b> 99.3	<b>pH (su)</b> 7.93	<b>Conductivity (umhos/cm)</b> 135.1	<b>Transparency (cm)</b> >120
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<b>Water Color</b> <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" type="checkbox"/> Stained	<b>Estimated Stream Velocity (m/s)</b> <input type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s)
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<b>Measured Velocity</b> circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b> 1	<b>Average Stream Width of reach (m)</b> 6
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): 10 Rubble (tennisball to basketball): 80 Gravel (ladybug to tennisball): 10  
 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 (%)** 20

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

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Logan Cutler	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 47%
Date Processed 6/21/19	Specimens Saved 55 + 65 + 22 = 142	

Subsample archived in ABL until Aug 2022

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Allocapnia</i>	L	III	5	Hils 1995		
<i>Paracapnia angulata</i>	L	XII	13	Hitch 1974		
<i>Isoperla signata</i>	L	II	2	Hils 1982		
<i>Acentrella turbida</i>	L	I	1	Klub 2016		
<i>Acerpenna</i>	L	III	4	"	dam	N
<i>A. pygmaea</i>	L	-III	10	"		
<i>Caenis</i>	L	III	3	"	imm	
<i>Maccaffertium</i>	L	III	3	"	imm	N
<i>M. medicopmatatum</i>	L	III	3	"		
<i>M. vicarium</i>	L	XII	12	"		
<i>Paraleptophlebia</i>	L	XI	11	"	imm	
<i>Cheumatopsyche</i>	L	III	22	Hils 1995		
<i>Hydropsyche betteni</i>	L	II	2	Schm Hils 1986		
<i>Ceratopsyche bronta</i>	L	III	3	"		
<i>Chimarra aterrima</i>	L	I	1	Hils 1982		
<i>Ch. obscura</i>	L	III	5	"		
<i>Psychomyia flavida</i>	L	I	1	Hils 1995		
<i>Optiosenus</i>	L	-III	9	Hils Schm 1992	imm	N
<i>O. fastiditus</i>	L	-III	9	"		
<i>O. trivittatus</i>	L	I	1	"		
<i>Stenelmis</i>	L	II	2	"		N
<i>S. crenata</i>	A	I	1	"		
<i>Atherix variegata</i>	L	II	2	Hils 1995		
<i>Dicranota</i>	L	I	1	"		
<i>Cricotopus (Cricotopus)</i>	P	II	2	Coft et al 1986		
<i>Dugesiiidae</i>	A	III	3	Thorp Bog 2016		
<i>Naisidae</i>	A	III	4	Braunfeld 1991		
<i>Tubificoidae (without hairs)</i>	A	I	1	Klemm 1985		
<i>Pisidium</i>	A	X-II	17	Mackie 2007		
<i>Pisidiidae = Sphaeriidae</i>	A	II	2	Thorp Bog 2016	imm	N
<del>Split A2 Chironomidae</del>	L	X-II JII				
<i>Conchapelonia obzotoid</i>	L	-I	6	Cran Epl 2013		
<i>Cricotopus</i>	L	I	1	Andt 3 2013	imm	N
<i>C. (Isocladius) absurdus</i>	L	I	1	Bolton 2012		
<i>Cladotanytarsus</i>	L	II	2	Epl et al 2013		
<i>Polypedilum (Uresipedilum) flavum</i>	L	II	7	Bolton 2012		