

**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> 20181023-18-15
<b>Sampling Location</b> US Shambaugh Creek Confluence ~70m					<b>Database Key</b> 171259857
<b>SWIMS Station ID</b> 10051699		<b>SWIMS Station Name</b> NORTH FORK EAU CLAIRE RIVER ABOVE SHAMBAUGH CREEK			
<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> EAU CLAIRE
Sample and Site Descriptors					
<b>Sample Collector (Last Name, First)</b> CHRISTOPHER J WILLGER			<b>Project Name</b> MACROINVERTEBRATE SPATIAL ANALYSIS		
Sampling Device					
<input checked="" type="checkbox"/> D-Frame Kick Net		<input type="checkbox"/> Surber Sampler		<input type="checkbox"/> Eckman	
<input type="checkbox"/> Ponar		<input type="checkbox"/> Artificial Substrate		<input type="checkbox"/> Hess Sampler <input type="checkbox"/> Other: _____	
Habitat Sampled					
<input checked="" type="checkbox"/> Riffle		<input type="checkbox"/> Run		<input type="checkbox"/> Pool	
<input type="checkbox"/> Other		<input type="checkbox"/> Shoreline Composite		<input type="checkbox"/> Proportionally-Sampled Habitat	
<input type="checkbox"/> Littoral Zone		<input type="checkbox"/> Profundal Zone		<input type="checkbox"/> Wetland	
<b>Total Sampling Time (min)</b> 1.5	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 2		<b>Number of Samples in Composite</b> 1		<b>Replicate No.</b> 1 <b>of</b> 1
Reason For Sampling					
<input type="checkbox"/> Least Impacted Reference		<input type="checkbox"/> Baseline		<input type="checkbox"/> Impact / Treatment Site	
<input type="checkbox"/> Control Site		<input type="checkbox"/> Trend		<input checked="" type="checkbox"/> Other: _____	
<b>Water Temp. (C)</b> 6.1	<b>D.O. (mg/l)</b> 11.96	<b>D.O. (% sat.)</b> 96.3	<b>pH (su)</b> 7.63	<b>Conductivity (umhos/cm)</b> 147.5	<b>Transparency (cm)</b> 7120
<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 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>	
Composition of Substrate Sampled (Percent):					
<b>Bedrock:</b> _____		<b>Boulders (basketball or larger):</b> 50	<b>Rubble (tennisball to basketball):</b> 50	<b>Gravel (ladybug to tennisball):</b> _____	
<b>Sand:</b> _____		<b>Clay:</b> _____		<b>Silt/Muck:</b> _____ <b>Overhanging Vegetation:</b> _____	
<b>Aquatic Macrophytes:</b> _____		<b>Leaf Snags:</b> _____		<b>Coarse Woody Debris:</b> _____ <b>Other ( )::</b> _____	
<b>Embeddedness of Substrate at Sample Site (%)</b> 0			<b>Canopy Cover at Sample Site (%)</b> 0		

**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 Duplicate sample. Same riffle  
 Initial sample ID 20181023-18-11b

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter Logan Cutler	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 40%
Date Processed 6/24/19	Specimens Saved 53 + 39 + 25 + 15 = 132	

D3/B1 A3/C1 C2 D1 Total  
 subsample archived in ABC label Aug 2022

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Alloperla	L	III	4	Hils 1995		
Haploperla	L	I	1	"	imm	
Perlidae	L	I	1	"	imm	
Isoperla signata	L	II	2	Hils 1982		
Taeniopterygidae	L	I	1	Hils 1995	imm	Y
Taeniopteryx	L	III	3	"	imm	N
T. burksi	L	III	3	Fell Stew ABD		
Acerpenna pygmaea	L	I	1	Kleb 2016		
Procladius	L	I	1	"		
Baetisca laurentina	L	I	1	"		
caenis	L	II	2	"	imm	N
C. latipennis	L	II	2	"		
Eurylophella	L	I	6	"	imm	
Heptageniidae	L	I	6	"	dam imm	N
Stenonema	L	III	3	"	imm	
Leucocrota	L	X-I	16	"		
Maccaffertium	L	II	3	"	imm	N
M. medianum	L	II	21	"		
M. modestum	L	II	2	"		
M. vicarium	L	III	4	"		
Leptophlebiidae	L	II	2	"	dam	N
Leptophlebia	L	I	1	"	imm	N
L. cupida	L	I	1	"		
Paraleptophlebia	L	X	10	"	imm	
Isonychia	L	III	4	"	imm	
ceratopsyche bronta	L	I	1	Schm Hils 1986		
Dubiraphia	L	II	2	Hils Schm 1992		
Stenelmis	L	II	2	"		N
S. crenata	A	II	2	"		
Atherix variegata	L	I	1	Hils 1995		
Probezzia	L	I	1	"		
Bezzia/Palpomysia	L	I	1	"		
Hexatoma	L	I	1	"		
Orthocladinae 0830001	P	I	1	Fern et al 2008	dam	
Limnasia	A	I	5	Pluch 1984		
Sigara alternata	A	I	1	Hils 1984a		
Branchiobdellida	A	I	1	Thorp Reg 2016		

