

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

Station Summary			
Waterbody Name NORTH BRANCH LITTLE RIVER		Waterbody ID Code 442800	Sample ID (YYYYMMDD-CY-FD) 20181001-43-09
Sampling Location 3 m DS			Database Key 168363621
SWIMS Station ID 10016965		SWIMS Station Name LITTLE RIVER - 84 M. UPSTREAM FROM BRIDGE ON JAGIELLO RD.	
Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) GREEN BAY		Watershed Name LITTLE RIVER	County OCONTO

Sample and Site Descriptors	
Sample Collector (Last Name, First) ANDREW HUDAK	Project Name LITTLE RIVER TWA ASSESSMENT 2018

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

Total Sampling Time (min) 3	Estimated Area Sampled (m ²) 2	Number of Samples in Composite 1	Replicate No. <u>1</u> of <u>1</u>
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Reason For Sampling

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

Water Temp. (C) 10.57	D.O. (mg/l) 11.31	D.O. (% sat.) 101.8	pH (su) 8.36	Conductivity (umhos/cm) .677	Transparency (cm) >122
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Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <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)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.2	Average Stream Width of reach (m) 8
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 10 Rubble (tennisball to basketball): 50 Gravel (ladybug to tennisball): 30
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: 10 Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 70 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
Biological			Chemical		
Algae: - Diatoms / Periphyton	U	U	Chlorine	N	N
- Filamentous Algae	U	U	Dissolved Oxygen	N	N
- Planktonic Algae	N	N	Nutrients (P, N...)	PL	PL
Iron Bacteria	U	U	Toxics: - Inorganic (Metals)	N	N
Macrophytes	N	N	- Organic (PCBs, pesticides...)	U	U
Slimes	N	N	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	N	N
			Point Source - Specify:	N	N
Physical			Pasturing of Livestock	U	U
Bank Erosion	N	N	Runoff: - Barnyard	N	U
Channelization: - Upstream	N	N	- Construction	N	N
- Downstream	N	N	- Cropland	N	U
Hydraulic Scour / Channel Incision	N	N	- Urban	N	N
Impoundment: - Upstream	N	N	Septic Systems	U	U
- Downstream	N	N	Tile Drainage - Organic Soils	N	U
Low Flow	N	N	- Mineral Soils	N	U
Sedimentation	N	N	Springs	U	U
Sludge	N	N	Tributary(s)	U	U
Thermal	N	N	Wetland	U	U
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter JACOB BULITZ	Taxonomist Derrick Jeffrey	Estimated Percent of Sample Sorted 7%
Date Processed 2/21/2019	Specimens Saved Subsample analyzed in ABL until May 2022	

START: 3:00 END: 4:55 A1

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Paragnetina media</i>	L	11	2	Hils 1995		
<i>Taeniopteryx</i>	L	1	6	"	imm	
<i>Baetis flavistriga</i> species complex	L	11	2	Kub 2016		
<i>Acerpenna pygmaea</i>	L	111	3	"		
<i>Coenis labyrinthis</i>	L	1	1	"		
JSJ <i>Hemiptera Leucocuta</i>	L	011	27	"		
<i>Maccallertium</i>	L	1	1	"	imm	N
<i>M. medropunctatum</i>	L	1	1	"		
<i>M. vicarium</i>	L	x111	13	"		
<i>Leptophlebia</i>	L	x11	12	"		
<i>Cheumatopsyche</i>	L	x1	16	Hils 1995		
<i>Hydropsyche</i>	L	1	1	"	imm	N
<i>H. hefferi</i>	L	1	6	Schmittils 1986		
<i>Ceratopsyche</i>	L	1	1	Hils 1995	imm	N
<i>C. breata</i>	L	x1	11	Schmittils 1986		
Limnephilidae	L	1	1	Hils 1995	imm	
<i>Chimarra aterrima</i>	L	1	1	Hils 1982		
<i>Ch. obscura</i>	L	1	1	"		
<i>Dubiraphia</i>	L	1	1	Hils Schmitt 1992		
<i>Macronychus glabratus</i>	L	1	1	"		
<i>Opatoserius</i>	L	11	2	"	imm	N
<i>O. fastidius</i>	L	111	4	"		
<i>O. trivittatus</i>	L	1	1	"		
<i>Stenelmis</i>	L	11	3	"		
<i>Psephenus herricki</i>	L	111	3	"		
<i>Hemerodromia</i>	L	111	3	Court Mer 2008		
<i>Simulium</i>	L	1	1	Adl et al 2004		
<i>Anocha</i>	L	11	7	Hils 1995		
<i>Eukiefferiella</i>	P	1	1	Ferretal 2008		
<i>Thienemanniella</i>	P	1	1	"		N
Split to Chironomidae	L	111 JSJ				
<i>Natansia baltimorea</i>	L	1	1	Epler 2001		
<i>Brillia</i>	L	1	1	Andt 3 2013	imm	
<i>Cocymeneura</i>	L	x11	12	"		
<i>Rhacriocopus robacki</i>	L	1	1	Epler 2001		
<i>Thienemanniella xena</i>	L	11	2	Bolton 2012		
<i>Cricotopus (Cricotopus) fremulus</i> group	L	1	1	Andt 3 2013		

