

Instructions: Bold fields must be completed.

Station Summary					
Waterbody Name NORTH FORK THUNDER RIVER			Waterbody ID Code 535600		Sample ID (YYYYMMDD-CY-FD) 20180927-38-02
Sampling Location 25 m US RIFLE					Database Key 168363540
SWIMS Station ID 10030422		SWIMS Station Name N FORK THUNDER RIVER US OF THUNDER MOUNTIAN 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 MIDDLE PESHTIGO AND THUNDER RIVERS			County MARINETTE
Sample and Site Descriptors					
Sample Collector (Last Name, First) ANDREW HUDAK			Project Name NER LONG-TERM TREND RIVER SITES		
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) 4		Number of Samples in Composite 1	
				Replicate No. 1 of 1	
Reason For Sampling					
☐ Least Impacted Reference ☐ Baseline ☐ Impact / Treatment Site ☐ Control Site ☒ Trend ☒ Other: _____					
Water Temp. (C) 10.0	D.O. (mg/l) 10.72	D.O. (% sat.) 95	pH (su) 7.97	Conductivity (umhos/cm) 252.5	Transparency (cm) 7122
Water Color ☒ Clear ☐ Turbid ☐ Stained				Estimated Stream Velocity (m/s) ☐ Slow (< 0.15 m/s) ☐ Moderate (0.15 m/s - 0.5 m/s) ☒ Fast (> 0.5 m/s)	
Measured Velocity circle units m/s or f/s		Average Stream Depth of reach (m) .4		Average Stream Width of reach (m) 8	
Composition of Substrate Sampled (Percent):					
Bedrock: _____		Boulders (basketball or larger): 50		Rubble (tennisball to basketball): 20	
Sand: 20		Clay: _____		Gravel (ladybug to tennisball): _____	
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 (%)	
				70	

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	N	N	Chlorine	N	N
- Filamentous Algae	N	N	Dissolved Oxygen	N	N
- Planktonic Algae	N	N	Nutrients (P, N...)	N	N
Iron Bacteria	N	N	Toxics: - Inorganic (Metals)	N	N
Macrophytes	N	N	- Organic (PCBs, pesticides...)	N	N
Slimes	N	N	Other - Specify:		
Other - Specify:	N	N	Sources of Stream Impacts		
			Bank Erosion	N	N
			Point Source - Specify:	N	N
Physical			Pasturing of Livestock	N	N
Bank Erosion	N	N	Runoff: - Barnyard	N	N
Channelization: - Upstream	N	N	- Construction	N	N
- Downstream	N	N	- Cropland	N	N
Hydraulic Scour / Channel Incision	N	N	- Urban	N	N
Impoundment: - Upstream	N	N	Septic Systems	N	N
- Downstream	N	N	Tile Drainage - Organic Soils	N	N
Low Flow	N	N	- Mineral Soils	N	N
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 <i>Savanna Erickson</i>	Taxonomist <i>Demick Jeffray</i>	Estimated Percent of Sample Sorted <i>7%</i>
Date Processed <i>09/23/2019</i>	Specimens Saved <i>Subsample archived in ABL until Jan 2022</i>	

D1
163

Total:
163

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Isoperla	L	1		Hils 1995	imm	
Pteronarcys	L	1		"	imm	
Taeniopteryx	L	1		"	imm	
Paracapnia angulata	L	1		Hitch 1974		
Acronycta	L	1		Hils 1995	imm	
Perlodidae	L	1		"	dam	N
Baetis flavistriga species complex	L	1		Kub 2016		
Ephemerella	L	III		"	imm	Y
E. subvaria	L	III		"		
Epeorus vitreus	L	III		"		
Maccaffertium	L	II		"	imm	N
M. vicarium	L	II		"		
Rhythrogena	L	1		"	imm	
Paraleptophlebia	L	II		"	dam/imm	N
P. mollis	L	1		"		
Condulegaster	L	1		Weed et al 2000	imm	
Brachycentrus americanus	L	II		Hils 1995		
B. occidentalis	L	II		"		
Micrasema wataga	L	1		"		
Glossosoma nigricorn	L	1		Wym Mar 2000		
Ceratopsyche	L	1		Hils 1995	imm	N
C. sparna	L	XI		Schum Hils 1986		
Lepidostoma	L	XI		Hils 1995		
Dolophiletes distinctus	L	XIII		Hils 1995		
Rhyacophila	L	1		Pratt Mar 2000		
Neophylax	L	III		Hils 1995	imm	
Nigronia serricornis	L	1		Neunzig 1966		
Opiuservus	L	II		Hils Schum 1992	imm	N
O. fastidiosus	L	II		"		
Atherix variegata	L	XI		Hils 1995		
Hemerodromia	L	1		Court Mar 2008		
Simulium	L	1		Adl et al 2004	imm	N
S. tuberosum species complex	L	1		"		
Anisops	L	1		Hils 1995		
Metriocnemus	P	III I		Ferret et al 2008		
Limnasia	A	1		Pluch 1984		
Physa	A	1		Thorp Reg 2016		
Pisidium	A	1		Mackie 2007		

Taxonomist: Dimick, Jeffrey

SWIMS Database Key: 168363540

[illegible]