

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name NORTH FORK THUNDER RIVER	Waterbody ID Code 535600	Sample ID (YYYYMMDD-CY-FD) 20211026-38-01
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Sampling Location 10m DS Thunder Mountain Rd	Database Key 293164161
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SWIMS Station ID 10030422	SWIMS Station Name N FORK THUNDER RIVER US OF THUNDER MOUNTIAN RD
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Latitude 45.28982	Longitude -88.27013	Lat/Long Determination Method (circle) SWIMS <u>SWDV</u> GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) GREEN BAY	Watershed Name MIDDLE PESHTIGO AND THUNDER RIVERS	County MARINETTE
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Sample and Site Descriptors

Sample Collector (Last Name, First) ANDREW HUDAK	Project Name NER LONG-TERM TREND WADEABLE REFERENCE STREAM
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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

Total Sampling Time (min) 15	Estimated Area Sampled (m²) 10	Number of Samples in Composite 1	Replicate No. 1 of 1
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Reason For Sampling

☐ Least Impacted Reference	☐ Baseline	☐ Impact / Treatment Site
☐ Control Site	☒ Trend	☒ Other: _____

Water Temp. (C)	D.O. (mg/l)	D.O. (% sat.)	pH (su)	Conductivity (umhos/cm)	Transparency (cm) 7122
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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)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.3	Average Stream Width of reach (m) 6
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Composition of Substrate Sampled (Percent):

Bedrock: _____	Boulders (basketball or larger): 20	Rubble (tennisball to basketball): 40	Gravel (ladybug to tennisball): 20
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Sand: 10	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____
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Aquatic Macrophytes: _____	Leaf Snags: 10	Coarse Woody Debris: _____	Other (): _____
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Embeddedness of Substrate at Sample Site (%) 20	Canopy Cover at Sample Site (%) 60
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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	Watershed	Factors that may be influencing Water Resource Integrity	Local	Watershed
Biological			Chemical		
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:			Sources of Stream Impacts		
			Bank Erosion		
			Point Source - Specify:		
Physical			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

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Reed, Kayla</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>7.81% 14%</i>
Date Processed <i>11/1/22</i>	Specimens Saved <i>130</i>	<i>128 subsamples archived in ABC until Feb 2026</i>

*(R1) C2g4:47 B4g2:10
g2:18-21 g4:29
g1:26 g1
g3 g3*

*(R2) C4g1:22 A4g3:2
g2:10 g2:7 } 107
g4:15 g1:14
g3:31 g4:10*

A1g2:21

Taxa	Life Stage	Organism Count			Taxonomic Reference	Condition	Unique Taxon
		Rep 1	Rep 2	Rep 3			
Acerpenna	L	0	1		MCB 2019	dam	
Baetis tricaudatus	L	16	32		Kub 2016		
Ephemerellidae	L	1	0		MCB 2019	imm	N
Ephemerella	L	8	5		"	imm	N
E. invaria	L	1	2		Kub 2016		
E. subvaria	L	11	9		"		
Tetoganopsis deficiens	L	0	3		MCB 2019		
Epeorus vitreus	L	0	1		Kub 2016		
Rhythrogena	L	2	3		MCB 2019	imm	
Neoleptophlebia	L	2	1		"	dam	N
N. mollis	L	4	5		Kub 2016		
Paracapnia angulata	L	1	1		Hitch 1974		
Acronyria	L	1	0		MCB 2019	imm	
Paragnetina media	L	0	1		Hils 1995		
Isoperla transmarina	L	1	0		Hils 1982		
Taeniopteryx burksi	L	1	1		Fall Stew 1980		
Glossosoma intermedium	L	0	1		Wym Mar 2000		
Ceratopsyche sparna	L	3	4		Schm Hils 1986		
Lepidostoma	L	8	11		MCB 2019		
Dolophiles distinctus	L	1	1		Hils 1995		
Rhyacophila	L	0	1		MCB 2019	imm	
Neophylax	L	1	3		"	imm	
Optioservus	L	0	3		"	imm	
Atherix variegata	L	4	0		Hils 1995		
Bezzia/palpomysia	L	1	0		"		
Neoplasia	L	0	2		MCB 2019		
Prosimulium	L	0	1		"	imm	
Antocha	L	1	2		"		
Naididae	A	8	0		Kath Brim 1998		
Spit A, Chironomidae	L	41	(19-24)				
Orthocladiinae 08300000	L	3	0		Ander et al 2013	imm	N
Eukiefferiella brehmi group	L	13	7		"		
E. claripennis group	L	0	1		"		
E. devonica group	L	2	0		"		
Orthocladius (Evarthocladius) mutator ^{30A} nicola	L	0	1		^{30A} Epe Bolton 2012 Epler 2001		
Parametriocheilus	L	3	7		Ander et al 2013		
Thienemanniella	L	3	0		"	imm	
Tuekura bavarica group	L	3	0		Bode 1983		
Chironominae 08330000	L	1	0		Ander et al 2013	imm	N

Taxonomist: Dimick, Jeffrey

SWIMS Database Key: 293164161

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