State of Wisconsin
Department of Natural Resources
PO Box 7291, Madison WI 53707-7291
dnr.wi.gov

Wadeable Macroinvertebrate Field Data Report

Form 3200-081 (R 8/14)

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

Station Summary

Waterbody Name	**Waterbody ID Code**	**Sample ID (YYYYMMDD-CY-FD)**
NORTH FORK THUNDER RIVER	535600	20161005-38-01

Sampling Location	**Database Key**
	133783645

SWIMS Station ID	**SWIMS Station Name**
10030422	N FORK THUNDER RIVER US OF THUNDER MOUNTIAN RD

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
45.29004	-88.27003	SWIMS SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
GREEN BAY	MIDDLE PESHTIGO AND THUNDER RIVERS	MARINETTE

Sample and Site Descriptors

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

Sampling Device

- [X] Kick Net
- [ ] Surber Sampler
- [ ] Eckman
- [ ] Ponar
- [ ] Artificial Substrate
- [ ] Hess Sampler
- [ ] Other: _____

Habitat Sampled

- [X] Riffle
- [ ] Run
- [ ] Pool
- [ ] Other
- [ ] Shoreline Composite
- [ ] Proportionally-Sampled Habitat
- [ ] Littoral Zone
- [ ] Profundal Zone
- [ ] Wetland

Total Sampling Time (min)	**Estimated Area Sampled (m^2)**	**Number of Samples in Composite**	**Replicate No.** / **of**
5	6	1	1 / 1

Reason For Sampling

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [X] Trend
- [ ] Other: _____

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
12.38	10.23	95.7	7.74	273	>122

Water Color

- [X] Clear
- [ ] Turbid
- [ ] Stained

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [X] 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)**	**Average Stream Width of reach (m)**
—	0.4	8

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 30 Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 20

Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

Aquatic Macrophytes: _____ Leaf Snags: 10 Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 40 **Canopy Cover at Sample Site (%)** 80

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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	Water-shed	Factors that may be influencing Water Resource Integrity	Local	Water-shed
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		
Physical			Point Source - Specify:		
Bank Erosion			Pasturing of Livestock		
Channelization: - Upstream			Runoff: - Barnyard		
- Dow nstream			- Construction		
Hydraulic Scour / Channel Incision			- Cropland		
Impoundment: - Upstream			- Urban		
- Dow nstream			Septic Systems		
Low Flow			Tile Drainage - Organic Soils		
Sedimentation			- Mineral Soils		
Sludge			Springs		
Thermal			Tributary(s)		
Turbidity			Wetland		
Other - Specify:			Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Kuhne, Alison	Dimick, Jeffrey	7%
Date Processed	**Specimens Saved**	
5-9-16	Subsample archived in ABL inv. / Nov 2020	

B3 → 196

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Wisconsin Department of Natural Resources
ABL SampleNum: **20161005-38-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **North Fork Thunder River**
SWIMS Database Key: **133783645**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Paracapnia angulata	L	lll	3	Hitchcock 1974		
Perlodidae	L	ll	2	Hilsenhoff 1995	dam	N
Isoperla transmarina	L	llll	4	Hilsenhoff 1982		
Baetis tricaudatus	L	~ll	7	Hilsenhoff 2016		
Ephemerellidae	L	llll	4	"	imm	N
Ephemerella	L	~卌l	11	"	imm	Y
E. subvaria	L	×llll	14	"		
Rhithrogena jejuna	L	l	1	"		
Paraleptophlebia	L	~lll	8	"	dam/imm	N
P. mollis	L	lll	3	"		
Glossosoma	L	~ll	7	Hilsenhoff 1995	imm	
Ophiogomphus	L	l	1	Need. et al 2000	imm	
Micrasema rusticum	L	l	1	Hilsenhoff 1995		
Ceratopsyche sparna	L	◇~ll	27	Schm, Hils. 1986		
Hydroptila	L	l	1	Hilsenhoff 1995		
Lepidostoma	L	~llll	9	"		
Dolophilodes distinctus	L	×	10	"		
Dolophilodes	P	l	1	Wiggins 1996		N
Neophylax	L	l	1	Hilsenhoff 1995	imm	
Optioservus	L	l	1	Hils, Schmude 1992	imm	N
O. fastiditus	L	l	1	"		
Atherix variegata	L	l	1	Hilsenhoff 1995		
Simulium tuberosum species group	L	lll	3	Adler et al 2004		
Dicranota	L	l	1	Hilsenhoff 1995		
Naidinae	A	l	1	Brin, Cold. 1991		
Metacyrnophora	A	l	1	"		
Pisidium	A	l	1	Burch 1972		
~~Split ÷3 Chironomidae~~	~~L~~	~~lll 100~~				
Rheopelopia acra group	L	l	1	Epler 2001		
Brillia	L	l	1	Andersen +3 2013	imm	
Eukiefferiella brehmi group	L	8×~ll	57	"		
Parametriocnemus	L	llll	4	"		
Thienemanniella	L	l	1	"	imm	N
Th. xena	L	l	1	Bolton 2012		
Nanocladius (Plecopteracoluthus) sp#5 Jacobsen	L	l	1	Epler 2001		
Micropsectra	L	lll	3	Epler et al 2013		

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Paratanytarsus longistilus	L	1	1	Epler et al 2013		
Paratendipes	L	1	1	"		
Polypedilum (Uresipedilum) aviceps	L	1	1	Bolton 2012		
Tricotanytarsus	L	x	10	Epler et al 2013		