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	20191029-38-01

Sampling Location	**Database Key**
	209699400

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**
		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 STREAM

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)	**Estimated Area Sampled (m^2)**	**Number of Samples in Composite**	
3	5	1	**Replicate No.** 1 **of** 1

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)**
4.8	12.4	96.2	7.1	.222	7/27

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)**	**Average Stream Width of reach (m)**

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 10 Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): 40

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

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

Embeddedness of Substrate at Sample Site (%) 20 **Canopy Cover at Sample Site (%)** 60

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

Wadeable Macroinvertebrate Field Data Report

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
Biological		
Algae: - Diatoms / Periphyton		
- Filamentous Algae		
- Planktonic Algae		
Iron Bacteria		
Macrophytes		
Slimes		
Other - Specify:		
Physical		
Bank Erosion		
Channelization: - Upstream		
- Downstream		
Hydraulic Scour / Channel Incision		
Impoundment: - Upstream		
- Downstream		
Low Flow		
Sedimentation		
Sludge		
Thermal		
Turbidity		
Other - Specify:		

Factors that may be influencing Water Resource Integrity	Local	Water-shed
Chemical		
Chlorine		
Dissolved Oxygen		
Nutrients (P, N...)		
Toxics: - Inorganic (Metals)		
- Organic (PCBs, pesticides...)		
Other - Specify:		
Sources of Stream Impacts		
Bank Erosion		
Point Source - Specify:		
Pasturing of Livestock		
Runoff: - Barnyard		
- Construction		
- Cropland		
- Urban		
Septic Systems		
Tile Drainage - Organic Soils		
- Mineral Soils		
Springs		
Tributary(s)		
Wetland		
Other - Specify:		

Comments

Special Instructions for Laboratory

9:15-12:00

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Isabel Dunn	Dimick, Jeffrey	~~0.5 to~~ 8.3
Date Processed	**Specimens Saved**	
10/19/2020	Subsample archived in ABL until Dec 2023	

E3
Q2:19
Q4:9
Q1:19

A2
Q4:44
Q3:42

(133)

Wisconsin Department of Natural Resources
ABL SampleNum: **20191029-38-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **North Fork Thunder River**
SWIMS Database Key: **209699400**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis tricaudatus	L	x-1	16	Klub 2016		
Ephemerella	L	-111	8	MerrCummB 2019	imm	N
E. invaria	L	11	2	Klub 2016		
E. subvaria	L	x11	12	"		
Epeorus vitreus	L	111	3	"		
Maccaffertium vicarium	L	1	1	"		
Rhithrogena	L	111	3	MerrCummB 2019	imm	N
R. impersonata	L	111	3	Klub 2016		
Paraleptophlebia	L	111	3	"		
P. mollis	L	111	3	"		
Paracapnia angulata	L	11	2	Hitch 1974		
Leuctra	L	11	2	MerrCummB 2019	dam	N
L. tenella	L	1	1	Hitch 1974		
Acroneuria	L	11	2	MerrCummB 2019	imm	
A. lycorias	L	1	1	Hitch 1974		
Isoperla transmarina	L	11	2	Hils 1982		
Pteronarcys dorsata	L	1	1	Hard Mick 1952		
Glossosoma	L	1	1	MerrCummB 2019	~~dam~~ dam pp	
Protoptila	L	1	1	"		
Ceratopsyche slossonae	L	1	1	Schm Hils 1986		
C. sparna	L	1111	4	"		
Lepidostoma	L	⌐	5	MerrCummB 2019		
Dolophilodes distinctus	L	x1	11	Hils 1995		
Neophylax	L	11	2	MerrCummB 2019	imm	
Nigronia serricornis	L	1	1	Neunzig 1966		
Optioservus	L	⌐	5	MerrCummB 2019	imm	
Atherix variegata	L	-111	8	Hils 1995		
Ectemnia taeniatifrons	L	1	1	Adl et al 2004		
Simulium tuberosum species complex	L	111	3	"		
Antocha	L	1	1	MerrCummB 2019		
Mermithidae	A	111	3	ThorpRog 2016		
Megadrili = Metagynophora	A	1	1	"		
Physa	A	1	1	"		
~~Split Az Chironomidae~~	L	01 JJD				
Parachaetocladius	L	11	2	And et al 2013		
Parametriocnemus	L	-1	6	"		
Brillia flavifrons	L	1	1	Epler 2001		

Wisconsin Department of Natural Resources
ABL SampleNum: **20191029-38-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **North Fork Thunder River**
SWIMS Database Key: **209699400**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Eukiefferiella	L	III	3	And et al 2013	mt indet	N
E. brehmi group	L	X	10	"		
Nanocladius (Plecopteracoluthus) species #5 Jacobsen	L	1	1	Epler 2001		
Orthocladius (Eurthocladius) rivicola	L	1	1	"		
Micropsectra	L	III	3	And et al 2013		
Microtendipes rydalensis group	L	1	1	"		
Rheotanytarsus	L	1	1	"		