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)**
PINE RIVER	247800	20181012-70-04

Sampling Location	**Database Key**
	168915311

SWIMS Station ID	**SWIMS Station Name**
703106	PINE RIVER - UPPER PINE R. DEADEND RD OFF ROBERTS RD

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
44.17822	-89.26507	(SWIMS) SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
WOLF RIVER	PINE AND WILLOW RIVERS	WAUSHARA

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
DAVID BOLHA	PINE RIVER 319 PROJECT-FUNDED TWA 2018

Sampling Device

- [X] D-Frame 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.**
5	2.0	1	1 of 1

Reason For Sampling

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

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
7.6	10.2	87.8	7.7	374.9	120

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)**
	0.3	3

Composition of Substrate Sampled (Percent):

Bedrock:	Boulders (basketball or larger):	Rubble (tennisball to basketball): 40	Gravel (ladybug to tennisball): 30
Sand: 30	Clay:	Silt/Muck:	Overhanging Vegetation:
Aquatic Macrophytes:	Leaf Snags:	Coarse Woody Debris:	Other (_____):

Embeddedness of Substrate at Sample Site (%) 50 **Canopy Cover at Sample Site (%)** 0

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

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Kiersten Czarnecki	Pimick, Jeffrey	7%
Date Processed	**Specimens Saved**	
3/11/2019	320 Subsample archived in ABL until May 2022	

C1 = 320

Wisconsin Department of Natural Resources
ABL SampleNum: **20181012-70-04**
Taxonomist: Dimick, Jeffrey

Waterbody: **Pine River**
SWIMS Database Key: **168915311**

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
1/90	Paracapnia angulata	L	88-卌	90	Hitch 1974		
	Amphinemura	L	॥	2	Hils 1995	imm	
2/93	Nemoura trispinosa	L	|||	3	"		
3/100	Isoperla slossonae	L	-॥	7	Hils 1982		
4/104	Taeniopteryx	L	||||	4	Hils 1995	imm	
	Baetidae	L			1	Klch 2016	imm	N
	Baetis brunneicolor	L	x-|||	18	"		
5/120	B. tricaudatus	L	o||||	24	"		
6/132	Ephemerella subvaria	L	||||	4	"		
	Maccaffertium (Mccarium)	L			1	"	imm	
7/134	Brachycentrus americanus	L	॥	2	Hils 1985		
8/144	B. occidentalis	L	x	10	"		
9/153	Micrasema gelidum	L	-||||	9	"		
10/214	Glossosoma	L	o-|||	29	Hils 1995	imm	N
	G. intermedium	L	8॥	32	Wym Mar 2000		
	Cheumatopsyche	L			1	Hils 1995		
11/215	Diplectrona modesta	L			1	"		
12/217	Lepidostoma	L	॥	2	"		
	Limnephilidae	L			1	"	dam	N
	Hesperophylax designatus	L	॥	2	"		
	Onocosmoecus	L	॥	2	"		
13/218	Rhyacophila vibox	L			1	Prath, Mar 2001		
14/220	Goera stylata	L	॥	2			
	Optioservus fastiditus	A			1	Hils Schm 1992		
	Neoplasta	L			1	Court Merr 2008		
	Simulium tuberosum species complex	L	x	10	Adler et al 2004		
	S. vittatum species complex 0B11021B	L	|||	3	"		
	S. ~~fibrinflatum~~ jenningsi species group	L			1	"		
	Antocha	L			1	Hils 1995		
	Dicranota	L	|||	3	"		
	Gammarus pseudolimnaeus	A	8|||	33	Holsinger 1972		
	Hygrobates	A			1	Pluch 1984		
	Mermithidae	A			1	Thorp Rog 2016	imm	
	Physa	A	॥	2	"		
	Metagynophora = Megadrili	A	x/	15	"		
	Eukiefferiella claripennis group	L	x||||	14	And+3 2013		

>3 taxa, TVAL ≤ 2.0
220? (0.1 x 307)