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	20171027-70-03

Sampling Location	**Database Key**
	149424417

SWIMS Station ID	**SWIMS Station Name**
10037927	PINE RIVER AT ANIWA ROAD

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
44.202923	-89.18575	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	EAST DISTRICT NC STREAM STRATIFIED SITES 2017

Sampling Device

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

Habitat Sampled

- [ ] Riffle
- [X] 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 ____**
2.5	2.0	1	

Reason For Sampling

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

Water Temp. (°F)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
46.5	8.8	75.1	7.8	401.0	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)**
	.5	9.0

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 70

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

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

Embeddedness of Substrate at Sample Site (%) 10 **Canopy Cover at Sample Site (%)** 100

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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	N	N	Chlorine	N	N
- Filamentous Algae	N	N	Dissolved Oxygen	N	N
- Planktonic Algae	N	N	Nutrients (P, N...)	PL	PL
Iron Bacteria	N	N	Toxics: - Inorganic (Metals)	N	N
Macrophytes	PL	PL	- Organic (PCBs, pesticides...)	N	N
Slimes	N	N	Other - Specify:		
Other - Specify:			**Sources of Stream Impacts**		
			Bank Erosion	N	N
Physical			Point Source - Specify:	N	N
Bank Erosion	N	N	Pasturing of Livestock	N	N
Channelization: - Upstream	N	N	Runoff: - Barnyard	N	N
- Downstream	N	N	- Construction	N	N
Hydraulic Scour / Channel Incision	N	N	- Cropland	N	N
Impoundment: - Upstream	N	PL	- Urban	N	N
- Downstream	N	N	Septic Systems	N	N
Low Flow	N	N	Tile Drainage - Organic Soils	N	N
Sedimentation	PL	PL	- Mineral Soils	N	N
Sludge	N	N	Springs	N	N
Thermal	PL	PL	Tributary(s)	N	N
Turbidity	N	N	Wetland	PL	PL
Other - Specify:			Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Karla Witkor	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 7
Date Processed 7/9/18	Specimens Saved Subsample archived in ABL until Nov 2021	

3=333

Wisconsin Department of Natural Resources
ABL SampleNum: **20171027-70-03**
Taxonomist: Dimick, Jeffrey

Waterbody: **Pine River**
SWIMS Database Key: **149424417**

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
	Isoperla	L	I	1	Wils 1995	imm	
2	Baetis tricaudatus	L	II	2	Rlub 2016		
	Ephemerella	L	-I	6	"	imm	N
3	E. invaria	L	I	1	"		
7	E. subvaria	L	IIII	4	"		
9	Maccaffertium vicarium	L	II	2	"		
5/11	Brachycentrus americanus	L	II	2	Wils 1985		
7/16	B. occidentalis	L	-	5	"		
7/18	Protoptila	L	II	1	Wils 1995		
	Cheumatopsyche	L	-HH	10	"		
	Hydropsyche	L	I	1	"	imm	
	Ceratopsyche	L	I	1	"	imm	N
	C. slossonae	L	-III	8	Schm Wils 1986		
8/29	C. sparna	L	-I	11	"		
	Neophylax	L	I	1	Wils 1995	imm	N
	N. concinnus	L	I	1	Bright 2013		
	N. oligius	L	II	2	"		
32	Nigronia serricornis	L	III	3	Neem 1966		
	Optioservus	L	III	3	Wils Schm 1992	imm	N
	O. fastidiosus L, 5 A, 1	L, A	-I	6	"		
	Hemerodromia	L	-III	8	Coffman 2008		
	Simulium vittatum species complex	L	I	1	Adler et al 2004		
	Antocha	L	-II	12	Wils 1995		
	Orthocladiinae	P	I	1	Ferrington 2008		N
	Gammarus pseudolimnaeus	A	-II	37	Holsinger 1972		
	Hygrobates	A	I	1	Pluchino 1984		
	Mesnithidae	A	I	1	Poinar 1991	imm	
	Naididae	A	II	2	Brinkhurst 1971		
	Ferrissia rivularis	A	I	1	Thorp Rog 2010		
	Physa	A	I	1	"		
	~~Subf A3 Chironomidae~~	L	~~-III~~				
3/5	Diamesia	L	-III	13	Saether 2013		
	Orthocladiinae 08300000	L	II	2	Cranston 2013	imm	N
	Thienemanniella	L	I	1	Ambrose + 3 2013	imm	
	Tvetenia bavarica group	L	0	20	Bode 1983		
	Cardiocladius obscurus	L	I	1	Epler 2001		

>3 taxa, TVAL ≤ 2.0

45 > (0.1 × 314)

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Cricotopus (Cricotopus) bicinctus group	L	I	1	Ander +3 2013		
Chironominae 08330000	L	II	2	Cranston 2013	ef undet/ imm	N
Cladotanytarsus	L	8×7	56	Epl et al 2013		
Microtendipes pedellus group	L	II	2	"		
M. rydalensis group	L	I	1	"		
Paratanytarsus longistilus	L	~III	8	"		
Phaenopsectra	L	I	1	"	imm	
Polypedilum (Polypedilum) laetum group	L	II	2	Bolton 2012		
P. (Uresipedilum) aviceps	L	8 I	31	"		
Rheotanytarsus	L	8+IIII	54	Epl et al 2013		
Tanytarsus	L	IIII	4	"		