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	20181026-70-05

Sampling Location	**Database Key**
	168915319

SWIMS Station ID	**SWIMS Station Name**
703063	PINE RIVER AT 28TH COURT

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
44.14120	-89.05877	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

- [ ] 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** ___
3	2.0	1	Replicate No. 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)**
8.3	11.0	95.8	7.9	340.8	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)**
	0.6	12

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 80 Gravel (ladybug to tennisball): _____

Sand: 20 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

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

Embeddedness of Substrate at Sample Site (%) 0 **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	N	N
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	PL	PH
- Downstream	N	PH
Low Flow	N	N
Sedimentation	PH	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	PL
- Mineral Soils	N	PL
Springs	N	PL
Tributary(s)	PL	PL
Wetland	N	PL
Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter: Sam Lamarche	Taxonomist: Dimick, Jeffrey	Estimated Percent of Sample Sorted: 60%
Date Processed: 3/12/19	Specimens Saved: Subsample archived in ABL until May 2022	

B2	E3	C3	A2	A1	E2	C2	B1	D2	
17	12	18	13	11	28	9	13	14	135 total species

Wisconsin Department of Natural Resources
ABL SampleNum: **20181026-70-05**
Taxonomist: Dimick, Jeffrey

Waterbody: **Pine River**
SWIMS Database Key: **168915319**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Parogretina mecia	L	I	1	Hils 1995		
Isoperla	L	I	1	"	imm	
Taeniopteryx	L	IIII	4	"	imm	
Baetis flavistriga species complex	L	I	1	Klub 2016		
Baetisca laurentina	L	II	2	"		
Baetisca	L	I	1	"	imm	N
Stenacron interpunctatum	L	III	3	"		
Maccaffertium	L	5-III	38	"	imm	Y
M. mediopunctatum	L	-	5	"		
M. vicarium	L	-IIII	9	"		
Heptageniidae	L	II	2	"	dam	N
Leptophlebia	L	II	2	"		
Brachycentrus numerosus	L	III	3	Hils 1985		
Cheumatopsyche	L	XIII	13	Hils 1995		
Ceratopsyche bronta	L	III	3	Schm Hils 1986		
C. slossonae	L	I	1	"		
C. spama	L	II	2	"		
Leucotrichia pictipes	L	I	1	Hils 1995		
Limnephilidae	L	I	1	"	imm	N
Pycnopsyche	L	I	1	"		
Psychomyia flavida	L	I	1	"		
Rhyacophila	L	I	1	Hils Schm 1992		
Optioservus fastiditus	L	I	1	"		
Ledessus affinis	A	I	1	Hils 1994		
Probezzia	L	I	1	Hils 1995		
Nemerodromia	L	-	5	Court Meir 2008		
Simulium	L	II	2	Adler et al 2004	imm	N
S. venustum species complex	L	I	1	"		
Simulium	P	I	1	"		N
Chrysops	L	I	1	Hils 1995		
Antocha	L	I	1	"		
Gammarus pseudolimnaeus	A	IIII	4	Hols 1972		
Hyalella azteca	A	I	1	Soucek et al 2015		
Mermithidae	A	I	1	Thorp Rog 2016	imm	
Tubificinae (without hairs)	A	I	1	Klemm 1985		
Cyclopidae	A	I	1	Thorp Rog 2016		
Pisidium	A	I	1	Burch 1972		

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Microtendipes pedellus group	L	1	1	Epl et al 2013		
Corixidae	A	1	1	Hils 1995	imm	N
Sigara solensis	A	1	1	Hils 1984a		
Parametriocnemus	L	1	1	And + 3 2013		
Paratanytarsus	L	1	1	Epl et al 2013	mt indet	N
P. species A	L	1	1	Hils unpbl		
Polypedilum (Tripodura) scalaenum group	L	1111	4	Bolton 2012		
Rheotanytarsus	L	1	1	Epl et al 2013		