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.

2019102477001

Station Summary

Waterbody Name	Waterbody ID Code	Sample ID (YYYYMMDD-CY-FD)
PINE RIVER	247800	Macroinvertebrate 20191024 7001

Sampling Location	Database Key
5M from Rd.	210950259 287759371

SWIMS Station ID	SWIMS Station Name
10007883	PINE RIVER - APACHE ROAD

Latitude	Longitude	Lat/Long Determination Method (circle)	Datum Used if using GPS
44.195847	-89.18284	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
MICHAEL MILLER	CENTRAL SANDS INFLUENCE OF PESTICIDES ON MACROIN

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 ____
5	1	1	

Reason For Sampling

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

Water Temp. (C)	D.O. (mg/l)	D.O. (% sat.)	pH (su)	Conductivity (umhos/cm)	Transparency (cm)
8.1	12.11	102.1	8.13	234.5	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)
	1 M	5 M

Composition of Substrate Sampled (Percent):

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

Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: 70 %

Aquatic Macrophytes: 30 % Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

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

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)

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	P	
- Downstream	P	
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	P	
Other - Specify:		

Comments Benthic habitat for inverts limited by sandy substrate

Special Instructions for Laboratory

C3
91-7
94-13
93-12
92-16

D1
93-2
92-7
91-5
94-25

C1
93-2
92-9
91-14
94-2

A1
94-5
91-5
93-5
92-5

= 134

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Mary Joy Rebagio	Dimick, Jeffrey	25 %
Date Processed	**Specimens Saved**	
3-9-2023	Subsample archived in ABL until Apr 2026	

Wisconsin Department of Natural Resources
ABL SampleNum: **20191024-70-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **Pine River**
SWIMS Database Key: **287759371**

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
	Baetis brunneicolor	L	0	20	Klub 2016		
1/1	Ephemerella invaria	L	I	1	"		
2/2	E. subvaria	L	I	1	"		
	Maccaffertium	L	I	1	"	imm	
	Leptophlebia	L	II	2	MCB 2019	imm	
	Calopteryx maculata	L	I	1	West May 2006		
	Coenagrionidae	L	I	1	MCB 2019	dam	
	Corixidae	A	I	1	"	dam	Y
	Hesperocorixa atopodonta	A	⁄II	7	Hils 1984a		
	H. minorella	A	⁄I	6	"		
	H. semilucida	A	I	1	"		
	H. vulgaris	A	II	2	"		
	Baetis flavistriga species complex	L	I	1	Klub 2016		
3/3	Brachycentrus americanus	L	I	1	Hils 1985		
4/4	B. occidentalis	L	I	1	"		
5/17	Lepidostoma	L	XIII	13	MCB 2019		
	Cheumatopsyche	L	II	2	"		
	Limnephilidae	L	⁄II	7	"	imm	N
	Pycnopsyche	L	I	1	"		
	Molanna blenda	L	I	1	Sherbwall 1971		
	Lepidoptera	L	I	1	MCB 2019	terr?	
	Dubiraphia	L	I	1	"		
	Gyrinus lecontei	A	I	1	Hils 1990		
6/18	Atherix variegata	L	I	1	Hils 1995		
	Simulium venustum species complex	L	II	2	Adler et al 2004		
	S. vittatum species complex 08110218	L	0IIII	24	"		
	Gammarus pseudolimnaeus	A	81	31	Holsinger 1972		
	Physa	A	X	10	Thorp Rog 2016		
	Pisidium	A	8-IIII	39	"	imm	N
	P. dubium	A	III	3	Mackie 2007		
	Lumbriculidae	A	I	1	Thorp Rog 2016	dam	
	Naidinae	A	I	1	Kath Brin 1999		
	Tubificinae (without hairs)	A	XIIII	14	"		
JD	~~Splotchs~~ ~~Chironomidae~~ Polypedilum (Tripodura) scalaenum group	L	II	2			
	Cladotanytarsus	L	II	2	Ander et al 2013		
	Cryptochironomus	L	II	2	"		

>3 taxa, TVAL ≤ 2.0
18 ? (0.1 x 93)