

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name PINE RIVER		Waterbody ID Code 247800	Sample ID (YYYYMMDD-CY-FD) 20181031-70-01
Sampling Location		Database Key 168915327	
SWIMS Station ID 10050462		SWIMS Station Name PINE RIVER AT PATTY ANDERSON FARM BRIDGE DOWNSTREAM OF POY SIPPI	
Latitude 44.12651	Longitude -88.96267	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) WOLF RIVER		Watershed Name PINE AND WILLOW RIVERS	County WAUSHARA

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

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) 3	Estimated Area Sampled (m²) 1.5	Number of Samples in Composite 1	Replicate No. 1 of 1
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Reason For Sampling

Least Impacted Reference
 Baseline
 Impact / Treatment Site
 Control Site
 Trend
 Other: Targeted Watershed Assessment

Water Temp. (C) 9.0	D.O. (mg/l) 11.1	D.O. (% sat.) 98.8	pH (su) 7.9	Conductivity (umhos/cm) 344.4	Transparency (cm) 109
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Water Color <input checked="" type="checkbox"/> Clear <input checked="" type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <input type="checkbox"/> Slow (< 0.15 m/s) <input checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.5	Average Stream Width of reach (m) 10
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 10 Gravel (ladybug to tennisball): 50
 Sand: 20 Clay: 20 Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 40 **Canopy Cover at Sample Site (%)** 0

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	Factors that may be influencing Water Resource Integrity	Local	Water-shed
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...)	N	N
Iron Bacteria	N	N	Toxics: - Inorganic (Metals)	N	N
Macrophytes	N	N	- Organic (PCBs, pesticides...)	N	N
Slimes	N	N	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	N	N
			Point Source - Specify:	N	N
			Pasturing of Livestock	N	N
Physical			Runoff: - Barnyard	N	N
Bank Erosion	N	N	- Construction	N	N
Channelization: - Upstream	N	N	- Cropland	PL	PL
- Downstream	N	N	- Urban	N	N
Hydraulic Scour / Channel Incision	N	N	Septic Systems	N	N
Impoundment: - Upstream	PL	PH	Tile Drainage - Organic Soils	PL	PL
- Downstream	N	N	- Mineral Soils	PL	PL
Low Flow	N	N	Springs	N	PL
Sedimentation	PH	PH	Tributary(s)	N	PL
Sludge	N	N	Wetland	N	PL
Thermal	N	N	Other - Specify:		
Turbidity	N	N			
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Sam Lamarche	Taxonomist Dimock, Jeffrey	Estimated Percent of Sample Sorted 2090
Date Processed 3/14/19	Specimens Saved Subsample archived in ABL until May 2022	

C3 B1 E3
 46 47 35 128 total

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
1/1	<i>Paragnetina medra</i>	L	1	1	Hils 1995		
2/4	<i>Taeniopteryx</i>	L	III	3	"	imm	
	<i>Isurion anoka</i>	L	II	2	Klub 2016		
	<i>Baetisca</i>	L	I	1	"	imm	
	<i>Heptageniidae</i>	L	III	3	"	dam	N
	<i>Heptagenia elegantula</i>	L	I	1	"		
	<i>Maccaffertium</i>	L	II	2	"	ima	Y
	<i>M. medionotatum</i>	L	X	10	"		
3/5	<i>Brachycentrus numerosus</i>	L	XI	11	Hils 1985		
	<i>Microsema</i>	L	I	1	"	imm	
	<i>Helicopsyche borealis</i>	L	II	2	Hils 1995		
4/16	<i>Ceratopsyche sparna</i>	L	I	1	Schm Hils 1986		
	<i>Hydrophila</i>	L	I	1	Hils 1995		
5/17	<i>Psychomyia flavida</i>	L	I	1	"		
	<i>Anaxonyx variegatus</i>	L	I	1	Hils Schm 1992		
	<i>Dubiraphia</i>	L	I	1	"		N
	<i>D. vittata</i>	A	I	1	"		
	<i>Macronychus glabratus</i>	L	I	1	"		
	<i>Optocervus</i>	L	X	10	Hils Schm 1992	imm	N
	<i>O. fastidius</i> L, 19 A.4 ←	4A	0111	23	"		
6/22	<i>O. trivittatus</i>	L	I	5	"		
	<i>Stenelmis</i>	L	VI	7	"		
	<i>Hemerodromia</i>	L	II	7	Cont Merr 2008		
	<i>Simulium vittatum</i> species complex 08110218	L	II	2	Adler et al 2004		
	<i>S. jenningsi</i> species group	L	III	3	"	imm	
	<i>Simulium</i>	P	II	2	"		N
	<i>Gammarus pseudolimnoides</i>	A	0111	24	Hils 1972		
	<i>Caecidotea</i>	A	I	1	Will 1972	fem	
	<i>Lebertia</i>	A	I	1	Pluchino 1984		
	<i>Belostomatina pluminea</i>	A	I	1	Hils 1984a		
	<i>Dicrotendipes</i>	L	I	1	Ep et al 2013		
	<i>Polypedilum (Uresipedilum) flavum</i>	L	I	1	Bolton 2012		

>3 taxa, TVAL ≤ 2.0
22 > (0.1 x 117)