

Instructions: Bold fields must be completed.

**Station Summary**

<b>Waterbody Name</b> PINE RIVER	<b>Waterbody ID Code</b> 247800	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20181026-70-04
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<b>Sampling Location</b>	<b>Database Key</b> 169215329
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<b>SWIMS Station ID</b> 10007978	<b>SWIMS Station Name</b> PINE RIVER - WILLIAM'S PROPERTY
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<b>Latitude</b> 44.15096	<b>Longitude</b> 89.08769	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV <u>GPS</u>	<b>Datum Used if using GPS</b> <u>WGS84</u> or NAD83
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<b>Basin (WMU)</b> WOLF RIVER	<b>Watershed Name</b> PINE AND WILLOW RIVERS	<b>County</b> WAUSHARA
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**Sample and Site Descriptors**

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

<b>Total Sampling Time (min)</b> 3	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1.5	<b>Number of Samples in Composite</b> 1	<b>Replicate No.</b> 1 <b>of</b> 1
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**Reason For Sampling**

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

<b>Water Temp. (C)</b> 8.4	<b>D.O. (mg/l)</b> 11.4	<b>D.O. (% sat.)</b> 99.7	<b>pH (su)</b> 8.0	<b>Conductivity (umhos/cm)</b> 350.0	<b>Transparency (cm)</b> 120
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<b>Water Color</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	<b>Estimated Stream Velocity (m/s)</b> <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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<b>Measured Velocity</b> 1.14	circle units m/s or <u>f/s</u>	<b>Average Stream Depth of reach (m)</b> 0.5	<b>Average Stream Width of reach (m)</b> 11.5
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): \_\_\_\_\_ Gravel (ladybug to tennisball): 10  
 Sand: 10 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: 20  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: 60 Other ( \_\_\_\_\_ ): \_\_\_\_\_

**Embeddedness of Substrate at Sample Site (%)** 100 **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	Watershed	Factors that may be influencing Water Resource Integrity	Local	Watershed
<b>Biological</b>			<b>Chemical</b>		
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:			<b>Sources of Stream Impacts</b>		
			Bank Erosion	N	N
			Point Source - Specify:	N	N
<b>Physical</b>			Pasturing of Livestock	N	N
Bank Erosion	N	N	Runoff: - Barnyard	N	N
Channelization: - Upstream	N	N	- Construction	N	N
- Downstream	N	N	- Cropland	N	PL
Hydraulic Scour / Channel Incision	N	N	- Urban	N	N
Impoundment: - Upstream	N	N	Septic Systems	N	N
- Downstream	PH	PH	Tile Drainage - Organic Soils	N	PL
Low Flow	N	N	- Mineral Soils	N	PL
Sedimentation	PH	PH	Springs	N	PL
Sludge	N	N	Tributary(s)	N	PL
Thermal	N	N	Wetland	N	PL
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

IC = 24  
 3A, 1B = 37  
 61  
 3C, 3B = 83  
~~1A, 2A =~~  
~~3E, 2D~~  
 Total = 144

**For Lab Use Only**

Sample Sorter Murphy Steinger	Taxonomist Dimick Jeffrey	Estimated Percent of Sample Sorted 33%
Date Processed 3/12/2019	Specimens Saved Subsample archived in ASL until May 2022	

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Paragnetina media</i>	L	I	1	Hils 1985		
<i>Taeniopteryx</i>	L	III	3	"	imm	
<i>Baetis brunneivolar</i>	L	x-II	17	Klob 2016		
<i>Isaaxoa andka</i>	L	-I	6	"		
<i>Baetisca laurentina</i>	L	III	3	Hils 1984		
Ephemeroptera	L	I	1	Klob 2016	imm	N
<i>Ephemera</i>	L	-III	8	"	imm	N
<i>E. invaria</i>	L	III	4	"		
<i>Maccaffertium</i>	L	-II	7	"	imm	
<i>Leptophlebia</i>	L	I	1	"		
<i>Brachycentrus numerosus</i>	L	III	4	Hils 1985		
<i>Microsema rusticum</i>	L	"	2	"		
<i>Cheumatopsyche</i>	L	III	4	Hils 1985		
<i>Hydropsyche betteni</i>	L	I	1	Schm Hils 1986		
<i>H. scalaris</i>	L	III	3	"		
<i>Ceratopsyche</i>	L	-	5	Hils 1985	imm	N
<i>C. bronni</i>	L	-I	6	Schm Hils 1986		
<i>C. sparna</i>	L	x-II	12	"		
<i>Pyraopsyche</i>	L	"	2	Hils 1985		
<i>Psychomyia flavida</i>	L	III	4	"		
<i>Macronychus glabratus</i>	L	-I	6	Hils Schm 1992		
<i>Orthotrichus fastiditus</i> L3 A.1	2A	III	4	"		
<i>Stenelmis</i>	L	I	1	"		
<i>Liodessus affinis</i>	A	I	1	Hils <del>1985</del> 1994		
<i>Hemerodromia</i>	L	"	2	Court Merr 2008		
<i>Simulium</i>	L	I	1	Acker et al 2004	imm	N
<i>S. tuberosum</i> species complex	L	I	1	"		
<i>S. venustum</i> species complex	L	"	2	"		
Orthocladinae 0830001	P	I	1	Ferr et al 2008	dam	N
<i>Eukiefferiella</i>	P	I	1	"		
<i>Gammarus pseudolimnacus</i>	A	III	4	Hils 1972		
<i>Hyalella spinicauda</i>	A	"	2	Sorek et al 2015		
<i>Hygrobaes</i>	A	I	1	Pulichin 1984		
<i>Nesperocerixa obliqua</i>	A	I	1	Hils 1984a		
Naidinae	A	0-I	26	Ben Gold 1991		
Tubificinae (without hairs)	A	I	1	Klemm 1985		
<i>Physa</i>	A	"	2	Thorp Reg 2016		

