

Instructions: **Bold** fields must be completed.

Station Summary

Waterbody Name PINE RIVER	Waterbody ID Code 247800	Sample ID (YYYYMMDD-CY-FD) 20181026-70-02
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Sampling Location	Database Key 169821916
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SWIMS Station ID 10034803	SWIMS Station Name PINE RIVER BELOW SAXEVILLE DAM
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Latitude 44.173775	Longitude -89.11211	Lat/Long Determination Method (circle) <u>SWIMS</u> SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) WOLF RIVER	Watershed Name PINE AND WILLOW RIVERS	County WAUSHARA
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Sample and Site Descriptors

Sample Collector (Last Name, First) DAVID BOLHA	Project Name 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

Total Sampling Time (min) 2.5	Estimated Area Sampled (m²) 2.0	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) 7.9	D.O. (mg/l) 11.0	D.O. (% sat.) 94.8	pH (su) 7.9	Conductivity (umhos/cm) 358.4	Transparency (cm) 120
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Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <input type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" 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) 0.4	Average Stream Width of reach (m) 12
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 50
 Sand: 20 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 20
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
Physical			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	PH	PH	Septic Systems	N	N
- Downstream	N	PL	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)	PL	PL
Thermal	N	N	Wetland	N	PL
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Sam Lamarque	Taxonomist Dimick Jeffrey	Estimated Percent of Sample Sorted 13%
Date Processed 3/11/2019	Specimens Saved Subsample archived in ABL with May 2022	

E1 A2
 78 63 141 total

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Pamoaetina media</i>	L	I	1	Hils 1995		
<i>Taeniopteryx</i>	L	III	3	"	imm	
<i>Baetis tricaudatus</i>	L	I	1	Klich 2016		
<i>Ephemerella</i>	L	III	3	"	imm	N
<i>E. invaria</i>	L	I	1	"		
<i>E. subvaria</i>	L	I	1	"		
<i>Telecanopsis deficiens</i>	L	III	4	"		
<i>Maccaffertium</i>	L	I	1	"	imm	Y
<i>M. mediopunctatum</i>	L	I	1	"		
<i>M. vicarium</i>	L	I	1	"		
<i>Brachycentrus numerosus</i>	L	I	1	Hils 1985		
<i>Microsema</i>	L	II	2	"	imm	N
<i>M. rustrum</i>	L	III	3	"		
<i>Proptera</i>	L	III	3	Hils 1995		
<i>Helicopsyche borealis</i>	L	III	3	"		
<i>Hydropsyche betteni</i>	L	III	4	Schum Hils 1986		
<i>Ceratopsyche</i>	L	II	2	Hils 1995	imm	N
<i>C. branta</i>	L	II	2	Schum Hils 1986		
<i>Leucotrichia pictipes</i>	L	I	1	Hils 1995		
<i>Psychomyia flavida</i>	L	I	1	"		
<i>Neophylax</i>	L	I	1	"	imm	
<i>Optiservus</i>	L	X-III	19	Hils Schum 1992	imm	N
<i>D. fastiditus</i> L.27 A.1	LA	0-III	28	"		
<i>Stenelmis</i>	L	III	8	"		
<i>Atherix variegata</i>	L	III	4	Hils 1995		
<i>Nemerodromia</i>	L	XIII	14	Court Merr 2008		
<i>Antocha</i>	L	II	2	Hils 1995		
<i>Orthocladiinae</i> 06300001 small	P	I	1	Ferr et al 2008	dam	Y
<i>Gammarus pseudolimnaeus</i>	A	III	3	Hils 1972		
<i>Nyalala spinicauda</i>	A	I	5	Soucek et al 2015		
<i>Caecidotea intermedia</i>	A	III	3	Will 1972		
<i>Dugesiiidae</i>	A	I	1	Thorp 2016		
<i>Hydrobiidae</i> NOT <i>P. antypodarum</i>	A	I	2	Burch 1982		
<i>Spit</i> <i>Az</i> <i>Chironomidae</i>	L	II-III				
<i>Brillia</i>	L	I	1	And + 3 2013	imm	
<i>Milothauma</i>	L	I	1	Epl et al 2013		

