

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name PINE RIVER		Waterbody ID Code 247800	Sample ID (YYYYMMDD-CY-FD) 20181017-70-05
Sampling Location			Database Key 169215552
SWIMS Station ID 703049	SWIMS Station Name PINE RIVER - .5 MI BELOW A		
Latitude 44.18974 44.18974	Longitude 89.24394 89.24394	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> 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 (m ²) 1.5	Number of Samples in Composite 1	Replicate No. <u>1</u> of <u>1</u>
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Reason For Sampling

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

Water Temp. (C) 8.2	D.O. (mg/l) 11.7	D.O. (% sat.) 101.1	pH (su) 7.8	Conductivity (umhos/cm) 385.6	Transparency (cm) 120
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Water Color

Clear
 Turbid
 Stained

Estimated Stream Velocity (m/s)

Slow (< 0.15 m/s)
 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) 0.2	Average Stream Width of reach (m) 6
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 70 Gravel (ladybug to tennisball): 20
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____

Embeddedness of Substrate at Sample Site (%) 10
 Canopy Cover at Sample Site (%) 100

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	PL
Bank Erosion	N	N	- Construction	N	N
Channelization: - Upstream	N	N	- Cropland	N	PL
- Downstream	N	N	- Urban	N	N
Hydraulic Scour / Channel Incision	N	N	Septic Systems	N	N
Impoundment: - Upstream	PH	PH	Tile Drainage - Organic Soils	N	PL
- Downstream	N	PL	- Mineral Soils	N	PL
Low Flow	N	N	Springs	PL	PL
Sedimentation	PL	PL	Tributary(s)	PL	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 Dimick, Jeffrey	Estimated Percent of Sample Sorted 130%
Date Processed 3/7/19	Specimens Saved Subsample archived in ABL until May 2022	

A3 B1
 107 98 205 total

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicolar</i>	L	-	5	Klub 2016		
B. flavistriata species complex	L	4	2	"		
<i>Stenonema interpunctatum</i>	L	11	2	"		
<i>Maccaffertium vicarium</i>	L	-119	8	"		
<i>Procladius</i>	L	1	1	Hols 1995		
Hydropsychidae	L	1	1	"		
<i>Cheumatopsyche</i>	L	8-1	46	"		
<i>Hydropsyche</i>	L	-	5	"	imm	N
<i>H. bettereri</i>	L	8-111	39	Schm Hols 1986		
<i>Ceratopsyche slossonae</i>	L	-	5	"		
<i>C. sparna</i>	L	x	10	"		
<i>Deceit</i>	L	1	1	Hols 1995	imm	
<i>Neophylax</i>	L	1111	4	"	imm	
<i>Nigronia serricornis</i>	L	-11	7	Nunzig 1966		
<i>Othioservus</i>	L	01	21	Hols Schm 1992	imm	N
<i>O. fastiditus</i> L, 7 A, 1	LA	-111	8	"		
<i>Antocha</i>	L	1	1	Hols 1995		
<i>Limnophila</i>	L	1	1	"		
<i>Diamesa</i>	P	111	3	Ferr et al 2008		
<i>Gammarus pseudolimnacus</i>	A	x1	11	Hols 1972		
Dugesitiidae	A	1	1	Thap, Reg 2016		
Tubificinae (with hairs)	A	1	1	Klemm 1995		
Split Az Chironomidae	L	- JD				
<i>Conchapelopia</i> 08270700	L	1	1	Cran Epl 2013		
<i>Parakiefferiella</i>	L	1	1	And + 3 2013		
<i>Thienemanniella</i>	L	1	1	"	dam	
<i>Tvetenia bavarica</i> group	L	1	1	Bode 1983		
<i>Cladotanytarsus</i>	L	1	1	Epl et al 2013		
<i>Polypedilum (Vespedilum) aviceps</i>	L	11	2	Balden 2012		
<i>P. (V.) flavum</i>	L	11	2	"		
<i>Rheotanytarsus</i>	L	x-11	17	Epl et al 2013		
<i>Tanytarsus</i>	L	1	1	"		