

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name PINE RIVER	Waterbody ID Code 247800	Sample ID (YYYYMMDD-CY-FD) 20181026-70-03
Sampling Location		Database Key 168915307

SWIMS Station ID 703107	SWIMS Station Name PINE RIVER - OFF 26TH RD AT E. FRATER PROP.
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Latitude 44.16676	Longitude -89.10511	Lat/Long Determination Method (circle) SWIMS <u>SWDV</u> 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	Estimated Area Sampled (m²) 1.5	Number of Samples in Composite 1	Replicate No. 1 of 2
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Reason For Sampling

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

Water Temp. (C) 8.3	D.O. (mg/l) 11.3	D.O. (% sat.) 99.0	pH (su) 7.9	Conductivity (umhos/cm) 352.7	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 2.28	circle units m/s or f/s	Average Stream Depth of reach (m) 0.5	Average Stream Width of reach (m) 7
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 100 Gravel (ladybug to tennisball): _____
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 0
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	PL	PH	Septic Systems	N	N
- Downstream	N	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	PL	PL
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

Sorter also sorts 20181026-7D-D6

For Lab Use Only		
Sample Sorter Logan Cutler	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 33%
Date Processed 3/11/19	Specimens Saved 16 + 29 + 32 + 35 + 16 = 128 A3 A1 B2 E2 A2 E3	Subsample archived in ABL mds

May 2022

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Paragnetina medra</i>	L	1	1	Hils 1985		
<i>Ephemera</i>	L	III	8	Kub 2016	imm	
<i>Teloganopsis deficiens</i>	L	III	22	"		
<i>Stenacron</i>	L	"	2	"	imm	N
<i>S. interpunctatum</i>	L	I	1	"		
<i>Maccaffertium</i>	L	0	30	"	imm	N
<i>M. medipunctatum</i>	L	III	3	"		
<i>M. modestum</i>	L	III	3	"		
<i>M. vicarium</i>	L	III	3	"		
<i>Isonychia</i>	L	I	1	"	imm	
<i>Micrasema rusticum</i>	L	I	1	Hils 1985		
<i>Protophila</i>	L	II	2	Hils 1985		
<i>Cheumatopsyche</i>	L	I	1	"		
<i>Hydropsyche betterii</i>	L	III	3	Schmitt/Hils 1986		
<i>Ceratopsyche bronca</i>	L	I	6	"		
<i>C. spama</i>	L	III	14	"		
<i>Chimarra aterrima</i>	L	I	1	Hils 1982		
<i>Macronychus glabratus</i>	L	I	1	Hils/Schm 1982		
<i>Opiosericus</i>	L	II	7	"	imm	N
<i>O. fastiditus</i>	L	III	4	"		
<i>Stenelmis crenata</i>	A	I	1	"		
<i>Nemerochromia</i>	L	III	3	Court Merr 2008		
<i>Simulium</i>	L	I	1	Adl et al 2004	dam	
<i>Eukretella</i>	P	I	1	Ferr et al 2008		
<i>Gammarus</i>	A	I	1	Hils 1972	dam	
<i>Hydropsyche</i>	A	I	1	Pluchino 1984		
<i>Limnoria</i>	A	II	2	"		
<i>Belostomatidae</i>	A	I	1	Hils 1984a		
<i>Sigara mathesani</i>	A	I	1	"		
<i>Oreonestes rusticus</i> not archived	A	I	1	Hobbs/Jass 1988		
<i>Naididae</i>	A	I	1	Brin Geld 1991		
<i>Orthocladus (Euarthocladus)</i>	L	I	1	And + 3 2013		
<i>Rheotanytarsus</i>	L	X	10	Epl et al 2013		