

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

Station Summary

Waterbody Name PINE RIVER		Waterbody ID Code 247800	Sample ID (YYYYMMDD-CY-FD) 20181019-70-05
Sampling Location			Database Key 168915303
SWIMS Station ID 10007883	SWIMS Station Name PINE RIVER - APACHE ROAD		
Latitude 44.19548	Longitude -89.18255	Lat/Long Determination Method (circle) SWIMS <u>SWDV</u> GPS	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
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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) 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) 9.2	D.O. (mg/l) 10.3	D.O. (% sat.) 92.4	pH (su) 7.7	Conductivity (umhos/cm) 378.0	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 1.66	circle units m/s or f/s <u>0</u>	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): _____ Gravel (ladybug to tennisball): 90
 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 (%) 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	N	PL	Septic Systems	N	N
- Downstream	N	N	Tile Drainage - Organic Soils	N	PL
Low Flow	N	N	- Mineral Soils	N	PL
Sedimentation	PH	PH	Springs	PL	PL
Sludge	N	N	Tributary(s)	PL	PL
Thermal	N	N	Wetland	N	N
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter Logan Cutler	Taxonomist Dimick, dePvey	Estimated Percent of Sample Sorted 13%
Date Processed 3/9/2019	Specimens Saved ^{total} 96 + 86 = 182 Subsample archived in dBL under May 2022	
	D2	E3
	2.5hr	2hr

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
1/1	Taeniopteryx	L	I	1	Hils 1995	imm	
	Baetis brunneicolor	L	II	2	Kido 2016		
2/2	B. tricaudatus	L	I	1	"		
	B. flavistriga species complex	L	III	3	"		
3/6	Ephemerella	L	VI	6	"	imm	N
4/4	E. invaria	L	III	4	"		
	E. subvaria	L	III	3	"		
5/21	Heptageniidae	L	I	1	"	imm	N
	Maccallertium vicarium	L	XI	12	"		
6/23	Leptophlebiidae	L	I	1	"	dam	
	Brachycentrus americanus	L	4	2	Hils 1985		
	Cheumatopsyche	L	XXII	24	Hils 1995		
7/4	Ceratopsyche slossonae	L	III	3	Schm Hils 1986		
	C. sparna	L	III	3	"		
8/27	Lepidostoma	L	I	1	Hils 1995		
	Deceit	L	I	1	"	imm	
	Neophylax	L	II	2	"	imm	
9/28	Nigronia serricornis	L	I	1	Neunzig 1966		
	Optiosevus	L	XI	11	Hils Schm 1992	imm	N
	O-fasciatus L, B A, I	LA	IIII	9	"		
10/30	Atherix variegata	L	II	2	Hils 1995		
	Hemerodromia	L	XII	12	Court Merr 2008		
	Simulium	L	I	1	Ader et al 2004	imm	N
	S. vittatum species complex 08110218	L	XI	11	Hils "		
	Simulium	P	I	1	"		N
	S. jenningsi species group	L	I	1	"	imm	
	Antocha	L	X	15	Hils 1995		
	Hexatoma	L	I	1	"		
	Tretkna	P	I	1	Ferr et al 2008		
	Nannocladius (Plecopteracladius)	P	I	1	"		
	Orthocladius (Evoorthocladius)	P	I	1	"		
	Gammarus pseudolimnaeus	A	0/	25	Hils 1972		
	Hypobates	A	X	10	Pluch 1984		
	Lebertia	A	III	9	"		
	Limnesia	A	0II	22	"		
	Sperchoropsis	A	I	1	"		
	Cyclopidae	A	I	1	Thorp Reg 2016		

> 3 taxa, TVAL ≤ 2.0

31 > (0.1 x 160)

