

**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> 20181019-70-04	
<b>Sampling Location</b>				<b>Database Key</b> 169215341	
<b>SWIMS Station ID</b> 10037927		<b>SWIMS Station Name</b> PINE RIVER AT ANIWA ROAD			
<b>Latitude</b> N44.20285	<b>Longitude</b> W89.18585	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV <u>GPS</u>		<b>Datum Used if using GPS</b> <u>WGS84</u> or NAD83	
<b>Basin (WMU)</b> WOLF RIVER		<b>Watershed Name</b> PINE AND WILLOW RIVERS		<b>County</b> WAUSHARA	
Sample and Site Descriptors					
<b>Sample Collector (Last Name, First)</b> DAVID BOLHA			<b>Project Name</b> PINE RIVER 319 PROJECT-FUNDED TWA 2018		
<b>Sampling Device</b>					
<input checked="" type="checkbox"/> D-Frame Kick Net		<input type="checkbox"/> Surber Sampler		<input type="checkbox"/> Eckman	
<input type="checkbox"/> Ponar		<input type="checkbox"/> Artificial Substrate		<input type="checkbox"/> Hess Sampler <input type="checkbox"/> Other: _____	
<b>Habitat Sampled</b>					
<input type="checkbox"/> Riffle		<input checked="" type="checkbox"/> Run		<input type="checkbox"/> Pool	
<input type="checkbox"/> Other		<input type="checkbox"/> Shoreline Composite		<input type="checkbox"/> Proportionally-Sampled Habitat	
<input type="checkbox"/> Littoral Zone		<input type="checkbox"/> Profundal Zone		<input type="checkbox"/> 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>Reason For Sampling</b>					
<input type="checkbox"/> Least Impacted Reference		<input type="checkbox"/> Baseline		<input type="checkbox"/> Impact / Treatment Site	
<input type="checkbox"/> Control Site		<input type="checkbox"/> Trend		<input checked="" type="checkbox"/> Other: Targeted Watershed Assessment	
<b>Water Temp. (C)</b>	<b>D.O. (mg/l)</b>	<b>D.O. (% sat.)</b>	<b>pH (su)</b>	<b>Conductivity (umhos/cm)</b>	<b>Transparency (cm)</b> 120
<b>Water Color</b>				<b>Estimated Stream Velocity (m/s)</b>	
<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained				<input type="checkbox"/> Slow (< 0.15 m/s) <input checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s)	
<b>Measured Velocity</b> 2.03 circle units m/s or f/s		<b>Average Stream Depth of reach (m)</b> 0.6		<b>Average Stream Width of reach (m)</b> 6	
<b>Composition of Substrate Sampled (Percent):</b>					
Bedrock: _____		Boulders (basketball or larger): _____		Rubble (tennisball to basketball): 30	
Sand: 10		Clay: _____		Gravel (ladybug to tennisball): 60	
Aquatic Macrophytes: _____		Leaf Snags: _____		Coarse Woody Debris: _____	
Other ( ): _____		Overhanging Vegetation: _____		Other ( ): _____	
<b>Embeddedness of Substrate at Sample Site (%)</b> 20			<b>Canopy Cover at Sample Site (%)</b> 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
<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
			Pasturing of Livestock	N	PL
			Runoff: - Barnyard	N	N
			- Construction	N	N
			- Cropland	N	PL
			- Urban	N	N
			Septic Systems	N	N
			Tile Drainage - Organic Soils	PL	PL
			- Mineral Soils	PL	PL
			Springs	PL	PL
			Tributary(s)	N	N
			Wetland	N	N
			Other - Specify:		
<b>Physical</b>					
Bank Erosion	N	N			
Channelization: - Upstream	N	N			
- Downstream	N	N			
Hydraulic Scour / Channel Incision	N	N			
Impoundment: - Upstream	PL	PL			
- Downstream	N	PL			
Low Flow	N	N			
Sedimentation	PL	PL			
Sludge	N	N			
Thermal	N	N			
Turbidity	N	N			
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Logan Cutler	Taxonomist Dimitri Jeffrey	Estimated Percent of Sample Sorted 7%
Date Processed 3/9/2019	Specimens Saved 147 subsample archived in ABC until May 2022	

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
1/2	Taeniopteryx	L	11	2	Hils 1995	imm	
	Baetis brunneivolar	L	111	4	Klob 2016		
2/3	B. tricaudatus	L	1	1	"		
	B. flavistriga species complex	L	11	2	"		
	Ephemera	L	11	2	"	imm	N
3/4	E. invaria	L	1	1	"		
4/12	E. subvaria	L	111	8	"		
	Maccaffertium	L	1	1	"	imm	Y
5/5	M. vicarium	L	111	3	"		
6/16	Brachycentrus americanus	L	1	1	Hils 1985		
	Microseria	L	-	5	"		
7/7	M. gelidum	L	1	1	"		
	Chumatopsyche	L	1111	9	Hils 1995		
	Ceratopsyche	L	11	2	"	imm	N
	C. stlossonae	L	1111	4	Schm Hils 1986		
8/20	C. sparna	L	111	3	"		
	Oecetis	L	1	1	Hils 1995	imm	
	Neophylax	L	11	2	"	imm	
9/16	Nigronia serricornis	L	-1	6	Neunzig 1966		
	Optiosevus	L	011	22	Hils Schm 1992	imm	N
	O. fastidius L.10 A.1	LA	x1	11	"		
10/31	Atherix variegata	L	-	5	Hils 1995		
	Nemeroptera	L	111	5	Court Merr 2008		
	Simulium vittatum species complex 0810218	L	1	1	Ader et al 2004		
	S-jenningsi species group	L	1	1	"	imm	
	Chryseps	L	1	1	Hils 1995		
	Anocha	L	x	10			
	Diamesa	P	1	1	Feret et al 2008		
	Orthocladius (Euantocladius)	P	1	1	"		
	Gammarus pseudolimnaeus	A	1111	9	Hils 1972		
	Hydrobates	A	111	3	Ploch 1984		
	Lebertia	A	11	2	"		
	Limnesia	A	x1	11	"		
	Sperchonopsis	A	1	1	"		
	Naididae	A	1	1	Brin Geld 1991		
	Diamesa	L	1	1	Southard 2013		N

>3 taxa, TVAL <20

327 (0.1x 136)

