

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name UNNAMED		Waterbody ID Code 3000102	Sample ID (YYYYMMDD-CY-FD) 20161013-69-03
Sampling Location DS Kopitzke Rd			Database Key 133649567
SWIMS Station ID 10043171		SWIMS Station Name UNNAMED TRIB TO N BRANCH PIGEON RIVER AT KOPITZKE RD	
Latitude 44.6793896	Longitude -88.920898	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) WOLF RIVER		Watershed Name PIGEON RIVER	County WAUPACA

Sample and Site Descriptors	
Sample Collector (Last Name, First) DAVID BOLHA	Project Name UPPER PIGEON RIVER WATERSHED ASSESSMENT - EAST_2

Sampling Device

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) 4	Estimated Area Sampled (m ²) 2	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: _____

Water Temp. (°C) 9.4°C	D.O. (mg/l) 4.9	D.O. (% sat.) 6.23	pH (su) 5.5	6.9	Conductivity (umhos/cm) 675.9	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 checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input 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) 0.2	Average Stream Width of reach (m) 2.5
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 70
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____
 Embeddedness of Substrate at Sample Site (%) 40 Canopy Cover at Sample Site (%) 80

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			Factors that may be influencing Water Resource Integrity		
Local	Water-shed		Local	Water-shed	
Biological			Chemical		
Algae: - Diatoms / Periphyton	PL	PL	Chlorine	N	N
- Filamentous Algae	N	N	Dissolved Oxygen	PL	PL
- Planktonic Algae	N	N	Nutrients (P, N...)	PH	PH
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	PL	PL
Physical			Point Source - Specify:	N	N
Bank Erosion	PL	PL	Pasturing of Livestock	PL	PL
Channelization: - Upstream	PL	PL	Runoff: - Barnyard	PH	PH
- Downstream	N	N	- Construction	N	N
Hydraulic Scour / Channel Incision	N	N	- Cropland	PL	PH
Impoundment: - Upstream	N	N	- Urban	N	N
- Downstream	N	N	Septic Systems	N	N
Low Flow	N	N	Tile Drainage - Organic Soils	N	N
Sedimentation	PL	PL	- Mineral Soils	N	N
Sludge	N	N	Springs	PL	PL
Thermal	N	N	Tributary(s)	N	N
Turbidity	N	N	Wetland	N	N
Other - Specify:			Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Taylor Hasz	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 7%
Date Processed 4/4/17	Specimens Saved Subsample archived in ABL mtl Sept 2020	

E1 247

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis flavistriga</i> Species Complex	L	I	1	Kluehertz 2016		
<i>Brachycentrus occidentalis</i>	L	II	2	Hilsenhoff 1985		
<i>Hydropsyche hotteni</i>	L	IIII	4	Schm., Hils. 1986		
Limnephilidae	L	III	3	Hilsenhoff 1985	imm	N
<i>Pycnopsyche</i>	L	II	2	"		
<i>Oligostomis ocelligera</i>	L	I	1	"		
<i>Ptilostomis</i>	L	I	1	"		
<i>Neophylax</i>	L	I	1	"	imm	
<i>Opatoservus</i>	L	XIIII	14	Hils., Schm. 1992	imm	N
<i>O-gastiditus</i>	L	III	4	"		
<i>Stenelmis</i>	L	I	1	"		
<i>Nemerochroma</i>	L	III	3	Court., Mein. 2008		
<i>Antocha</i>	L	I	1	Hilsenhoff 1985		
<i>Bammamus pseudolimnaeus</i>	A, I	Box	55	Heisinger 1972		
Tubificinae w/o capilliform chaetae		I	1	Klemm 1985		
<i>Sphaerium</i>	A	-III	8	Burch 1972		
Group A's Chironomidae	L	IIII-VI				
<i>Conchapelopia</i>	L	I	1	Grass, Epler 2013		
<i>Thienemannimyia</i> group	L	I	1	"	imm	N
<i>Orthocladiinae</i>	L	II	2	Cranston 2013	mt indet	Y
<i>Corynoneura</i>	L	II	2	Ander.+3 2013		
<i>Paratanytarsus</i>	L	X	10	"		
<i>Tretenia bavarica</i> group	L	X	2	Boke 1983		
Chironominae	L	IIII	4	Cranston 2013	mt indet	N
<i>Cryptochironomus</i>	L	II	2	Epler et al 2013		
<i>Micropsectra</i>	L	0-1	26	"		
<i>Microtendipes pedellus</i> group	L	-I	6	"		
<i>Paratanytarsus longistylus</i>	L	III	3	"		
<i>Paratendipes</i>	L	I	1	"		
<i>Polypedium</i>	L	I	1	"	dam	Y
<i>P. (Tripodum) scalaenum</i> group	L	III	3	Bolton 2012		
<i>P. (Unesipedium)</i>	L	II	2	Epler et al 2013		N
<i>P. (U.) aviceps</i>	L	I	1	Bolton 2012		
<i>P. (U.) flavum</i>	L	II	2	"		
<i>Rheotanytarsus</i>	L	-I	6	Epler et al 2013		
<i>Tanytarsus</i>	L	I	1	"		