

Instructions: Bold fields must be completed.

201910245001
07
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Station Summary		Waterbody ID Code		Sample ID (YYYYMMDD-CY-FD)	
Waterbody Name BEAR CREEK		267400		Macroinvertebrate 201910245001	
Sampling Location 5 M East of Q				Database Key 210950207 284657356	
SWIMS Station ID 10032031		SWIMS Station Name BEAR CREEK AT HWY Q			
Latitude 44.435596	Longitude -89.30891	Lat/Long Determination Method (circle) SWIMS SWDV GPS		Datum Used if using GPS WGS84 or NAD83	
Basin (WMU) WOLF RIVER		Watershed Name WAUPACA RIVER		County PORTAGE	
Sample and Site Descriptors					
Sample Collector (Last Name, First) MICHAEL MILLER			Project Name CENTRAL SANDS INFLUENCE OF PESTICIDES ON MACROIN		

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) 5	Estimated Area Sampled (m²) 1	Number of Samples in Composite 1	Replicate No. _____ of _____
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Reason For Sampling

- ☐ Least Impacted Reference ☐ Baseline ☒ Impact / Treatment Site
☐ Control Site ☐ Trend ☐ Other: _____

Water Temp. (C) 7.1	D.O. (mg/l) 11.85	D.O. (% sat.) 97.9	pH (su) 8.06	Conductivity (umhos/cm) 277.5	Transparency (cm) 122+
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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)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.5	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): _____	Gravel (ladybug to tennisball): 10%.
Sand: _____	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: 80%.
Aquatic Macrophytes: _____ Leaf Snags: 10% Coarse Woody Debris: _____ Other ():: _____			

Embeddedness of Substrate at Sample Site (%) _____	Canopy Cover at Sample Site (%) _____
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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			Chlorine		
- Filamentous Algae			Dissolved Oxygen		
- Planktonic Algae			Nutrients (P, N...)		
Iron Bacteria			Toxics: - Inorganic (Metals)		
Macrophytes			- Organic (PCBs, pesticides...)		
Slimes			Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion		
Physical			Point Source - Specify:		
Bank Erosion			Pasturing of Livestock	P	
Channelization: - Upstream			Runoff: - Barnyard		
- Downstream			- Construction		
Hydraulic Scour / Channel Incision			- Cropland		
Impoundment: - Upstream			- Urban		
- Downstream			Septic Systems		
Low Flow	N		Tile Drainage - Organic Soils		
Sedimentation	N		- Mineral Soils		
Sludge			Springs		
Thermal			Tributary(s)		
Turbidity			Wetland		
Other - Specify:			Other - Specify:		

Comments *Coarse woody habitat*

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Reed, Kayla</i>	Taxonomist <i>Amick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>6.6%</i>
Date Processed <i>3-6-2023</i>	Specimens Saved <i>126 subsample archived in ABL until Apr 2026</i>	

A2Q4-53 D3Q4-27
Q3-14 Q2-18
Q1Q3-14 Q3-
Q2- Q1-

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis bairdianus</i>	L	xiiii	14	McB 2016		
<i>B. flavistriga</i> species complex	L	iiii	4	"		
^{1/3} <i>Maccaffertium vicarium</i>	L	iii	3	"		
<i>Leptophlebia</i>	L	xiii	9	McB 2019	imm	
^{2/6} <i>Taeniopteryx</i>	L	iii	3	"	imm	
<i>Panatra fusca</i>	A	i	1	Hils RB4a		
<i>Ceratopsyche</i>	L	ii	2	Hils 1985	imm	N
<i>C. glossaria</i>	L	i	1	Schm Hils 1986		
^{3/11} <i>C. sparna</i>	L	ii	5	"		
<i>Cheumatopsyche</i>	L	iii	3	McB 2019		
<i>Hydropsyche</i>	L	i	1	Hils 1985	imm	N
<i>H. betteni</i>	L	ii	2	Schm Hils 1986		
<i>Limnephilidae</i>	L	xiii	8	McB 2019	imm	N
<i>Pycnopsyche</i>	L	ii	2	"		
<i>Optioservus</i>	L	-	5	"	imm	
<i>Dixella</i>	L	ii	2	"		
<i>Simulium vittatum</i> species complex 08110218	L	xi	34	Abdr et al 2004		
<i>Amblyops</i>	L	ii	2	McB 2019		
Split A2 Chironomidae	L	xi				
<i>Brillia</i>	L	iii	3	Ander et al 2013		
<i>B. flavifrons</i>	L	-i	6	Epler 2001		
<i>Parametropneumus</i>	L	ii	2	Ander et al 2013		
<i>Tvetenia hawaiiensis</i> group	L	ii	2	Bode 1983		
<i>Cladotanytarsus</i>	L	xiii	8	Ander et al 2013		
<i>Microtendipes pedellus</i> group	L	i	1	"		
<i>Rheotanytarsus</i>	L	i	1	"		
<i>Paratendipes</i>	L	i	1	"		
<i>Polypedilum (Polypedilum) illinoense</i> group	L	iii	3	Boldan 2012		
<i>P. (Tripodusa) scalanum</i> group	L	ii	2	"		
<i>P. (Unipedium) aviceps</i>	L	i	1	"		
<i>Tanytarsus</i>	L	i	1	Ander et al 2013		

3 taxa, TVAL ≤ 20

ii > (0.1 x 84)