

Instructions: Bold fields must be completed.

Station Summary		
Waterbody Name MECAN RIVER	Waterbody ID Code 155000	Sample ID (YYYYMMDD-CY-FD) 20171018-39-06
Sampling Location @ Dixie Ave		Database Key 149844307

SWIMS Station ID 10029369	SWIMS Station Name MECAN RIVER AT DIXIE AVE	
Latitude N 43.95197	Longitude W 89.32537	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>
Datum Used if using GPS <u>WGS84</u> or NAD83		
Basin (WMU) UPPER FOX	Watershed Name MECAN RIVER	County MARQUETTE

Sample and Site Descriptors	
Sample Collector (Last Name, First) DAVID BOLHA	Project Name MACROINVERTEBRATE SPATIAL ANALYSIS

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) 2.0	Estimated Area Sampled (m ²) 2.0	Number of Samples in Composite 1	Replicate No. <u>2</u> of <u>2</u>
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Reason For Sampling

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

Water Temp. (°C) <u>10.0</u> F	D.O. (mg/l) 8.51	D.O. (% sat.) 75.4	pH (su) 7.69	Conductivity (umhos/cm) 342.3	Transparency (cm)
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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 type="checkbox"/> Fast (> 0.5 m/s)
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Measured Velocity 1.35	circle units m/s or <u>(f/s)</u>	Average Stream Depth of reach (m) 0.8	Average Stream Width of reach (m) 11.0
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): _____ Gravel (ladybug to tennisball): _____
 Sand: 50 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: 25 Leaf Snags: _____ Coarse Woody Debris: 25 Other (____): _____
 Embeddedness of Substrate at Sample Site (%) _____ Canopy Cover at Sample Site (%) 20

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			
				Point Source - Specify:			
				Pasturing of Livestock			
Bank Erosion				Runoff: - Barnyard			
Channelization: - Upstream				- Construction			
- Downstream				- Cropland			
Hydraulic Scour / Channel Incision				- Urban			
Impoundment: - Upstream				Septic Systems			
- Downstream				Tile Drainage - Organic Soils			
Low Flow				- Mineral Soils			
Sedimentation				Springs			
Sludge				Tributary(s)			
Thermal				Wetland			
Turbidity				Other - Specify:			
Other - Specify:							

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter <i>Kayla Wilson</i>	Taxonomist <i>D. Nick Jeffrey</i>	Estimated Percent of Sample Sorted <i>70%</i>
Date Processed <i>11/28/18</i>	Specimens Saved <i>Subsample archived in ABL until Feb 2022</i>	

A2 300

Wisconsin Department of Natural Resources

ABL SampleNum: 20171018-39-06

Taxonomist: Dimick, Jeffrey

Waterbody: Mekan River

SWIMS Database Key: 149844307

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
19 Taeniopteryx	L	-1111	9	Hils 1995	imm	
Baetis brunneicolar	L	1111	4	Klob 2016		
Isonychia anka	L	5-4	37	"		
Ephemerella	L	11	2	"	imm	
Maccaffertium	L	x	10	"	imm	Y
M. medipunctatum	L	1	1	"		
Leptophlebia	L	1111	4	"	imm	
262 Brachycentrus numerosus	L	x111	13	Hils 1995		
323 B. occidentalis	L	1	1	"		
Chaumatopsyche	L	0-1	26	Hils 1995		
Hydropsyche betteni	L	-11	7	Schm Hils 1986		
425 H. scalaris	L	11	2	"		
Ceratopsyche	L	1	1	Hils 1995	imm	N
C. bronata	L	11	2	Schm Hils 1986		
C. slossonae	L	1	1	"		
540 C. spina	L	x	15	"		
Hydroptila	L	1	1	Hils 1995		
Decetis	L	11	2	"	imm	
Triaenodes melicus	L	1	1	Glover 1996		
Limnephilidae	L	1	1	Hils 1995	imm	
Dubiraphia	L	1	1	Hils Schm 1992		
Optiosecurus	L	1111	4	"	imm	N
O. fastiditus	L	1	1	"		
Nemerodromia	L	11	2	Coart Meier 2008		
Neonasta	L	1	1	"		
Ephydriidae	L	11	2	"		
Simulium vittatum species complex 0810218	L	1	1	Adl et al 2004		
Simulium	P	11	2	"		
Antocha	L	1	1	Hils 1995		
Malleochorella	L	1	1	"		
Gammarus pseudolimnacus	A	11	2	Hols 1972		
Hyalella wellborni	A	-11	7			
Lebertia	A	1	1	Pluch 1984		
Hesperocorixa minorella	A	1	1	Hils 1984a		
Tubificorae (without hairs)	A	1	1	Klemm 1985		
Physa	A	1111	4	Thorp Reg 2016		

>3 taxa, TVAL ≤ 2.0

41 > (0.1 x 220)

