

Instructions: Bold fields must be completed.

**Station Summary**

Waterbody Name <i>Mecan River</i>	Waterbody ID Code	Sample ID (YYYYMMDD-CY-FD) <i>20171017-39-01</i>
Sampling Location <i>-Crystal Lake Access Road off of 14th Ave</i>		Database Key 149844351

SWIMS Station ID 10049296	SWIMS Station Name MECAN RIVER-CRYSTAL LAKE ACCESS ROAD
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Latitude <i>N 43.97617</i>	Longitude <i>W 89.35065</i>	Lat/Long Determination Method (circle) SWIMS SWDV <b>GPS</b>	Datum Used if using GPS <b>WGS84</b> or NAD83
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Basin (WMU) <i>Upper Fox</i>	Watershed Name <i>Mecan River</i>	County <i>Marquette</i>
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**Sample and Site Descriptors**

Sample Collector (Last Name, First) DAVID BOLHA	Project Name MACROINVERTEBRATE SPATIAL ANALYSIS
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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) <i>2.0</i>	Estimated Area Sampled (m <sup>2</sup> ) <i>1.0</i>	Number of Samples in Composite <i>1</i>	Replicate No. _____ of _____
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**Reason For Sampling**

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

Water Temp. (°C) <i>10.7</i> <del><i>51.3</i></del>	D.O. (mg/l) <i>10.32</i>	D.O. (% sat.) <i>92.7</i>	pH (su) <i>8.26</i>	Conductivity (umhos/cm) <i>357.4</i>	Transparency (cm) <i>120</i>
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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 <i>1.84</i> circle units m/s or <b>f/s</b>	Average Stream Depth of reach (m) <del><i>0.9</i></del> <i>0.9</i>	Average Stream Width of reach (m) <del><i>7</i></del> <i>7</i>
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**Composition of Substrate Sampled (Percent):**

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

*All run, little coarse substrate*

**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				Chlorine			
- Filamentous Algae				Dissolved Oxygen			
- Planktonic Algae				Nutrients (P, N...)			
Iron Bacteria				Toxics: - Inorganic (Metals)			
Macrophytes				- Organic (PCBs, pesticides...)			
Slimes				Other - Specify:			
Other - Specify:				<b>Sources of Stream Impacts</b>			
				Bank Erosion			
				Point Source - Specify:			
<b>Physical</b>				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>Kiersten Czarniecki</i>	Taxonomist <i>Dimick Jeffrey</i>	Estimated Percent of Sample Sorted <i>13%</i>
Date Processed <i>11/13/2018</i>	Specimens Saved <i>Subsample archived in ABC until Feb 2022</i>	

A3=88  
 B1=45

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Wisconsin Department of Natural Resources

ABL SampleNum: 20171017-39-01

Taxonomist: Dimick, Jeffrey

Waterbody: Mecan River  
SWIMS Database Key: 149844351

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
1/2	Taeniopteryx	L	"	1	Hils 1995	imm	
	Baetis bivanicolar	L	xiii	14	Kleb 2016		
	B. flavistriga species complex	L	i	1	"		
	Isuraea andka	L	iii	4	"		
	Baetisca laurentina	L	i	1	"		
	Maccaffertium	L	i	1	"	imm	Y
2/3	M. vicarium	L	i	1	"		
	Leptophlebia	L	i	1	"	imm	
3/4	Brachycentrus occidentalis	L	i	1	Hils 1985		
	Ceratopsycha	L	i	1	Hils 1995	imm	N
	C. hirsuta	L	i	1	Schm Hils 1986		
4/6	C. glossocae	L	iii	3	"		
	C. sparna	L	"	2	"		
	Limnephilidae	L	iii	3	Hils 1995	imm	N
	Pycnopsycha	L	i	1	"		
5/7	Teloganopsis deficiens	L	i	1	Kleb 2016		
	Optioservus fastiditus	L	i	1	Hils Schm 1992		
	Simulium venustum species complex	L	ii	2	Adl et al 2004		
	S. vittatum species complex OB10217	L	iii	3	"		
	S. fibrinflatum	L	i	1	"		
	Gammarus pseudolimnoides	L	-ii	7	Hols 1972		
	Hygrobatas	L	"	2	Pluch 1984		
	Lebertia	L	i	1	"		
	Cladotanytarsus	L	Bx-iii	58	Epl et al 2013		
4/8	Thienemannimyia group	L	i	1	Cran Epl 2013	imm	
	Pasastria	L	i	1	Saeth Ander 2013		
	Orthocladinae OB300000	L	i	1	Cranston 2013	imm	Y
	Brillia flavifrons	L	i	1	Epler 2001		
	Orthocladus (Orthocladus)	L	i	1	Ander + 3 2013		
	Cryptochironomus	L	iii	3	Epl et al 2013		
	Polypedilum (Polypedilum) illinoense group	L	i	1	Bolton 2012		
	P. (Tripodura) scalarenum group	L	iii	3	"		
	P. (Urespedilum) aviceps	L	ii	2	"		
	Zootanytarsus	L	-iii	8	Epl et al 2013		

> 3 taxa, TVAL ≤ 2.0

B < (0.1 × 122)