

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name MECAN SPRINGS	Waterbody ID Code 158600	Sample ID (YYYYMMDD-CY-FD) 20171017-70-01
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Sampling Location @ County GG	Database Key 149987666
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SWIMS Station ID 10049297	SWIMS Station Name MECAN RIVER AT COUNTY GG
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Latitude N44.05080	Longitude W89.46405	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) UPPER FOX	Watershed Name MECAN RIVER	County WAUSHARA
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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) 1.0	Estimated Area Sampled (m ²) 1.0	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) 49.6	D.O. (mg/l) 9.99	D.O. (% sat.) 87.7	pH (su) 7.95	Conductivity (umhos/cm) 374.5	Transparency (cm) 120
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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 2.6 circle units m/s or f/s	Average Stream Depth of reach (m) 0.2	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): 5	Gravel (ladybug to tennisball): 70
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Sand: 25	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____
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Aquatic Macrophytes: _____	Leaf Snags: _____	Coarse Woody Debris: _____	Other (____): _____
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Embeddedness of Substrate at Sample Site (%) 20	Canopy Cover at Sample Site (%) 0
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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		
			Point Source - Specify:		
Physical			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>Jesse Olberg</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>7%</i>
Date Processed <i>11/13/18</i>	Specimens Saved <i>Subsample archived in ADL until Feb 2022</i>	

C3 256

*157 2hr
99 2.5hr
256 4.5hr*

*Rhyacionia
statoblasts
Porifera
gemmules
in Split A*

Wisconsin Department of Natural Resources

ABL SampleNum: 20171017-70-01

Taxonomist: Dimick, Jeffrey

Waterbody: Mekan Springs
SWIMS Database Key: 149987666

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Chaetognathus</i>	L	8-11	50	Hils 1995		
<i>Ceratognathus</i>	L	over	25	"	imm	N
<i>C. morosa</i> bifida form	L	80-	65	Schm Hils 1986		
<i>Optioservus</i>	L	-III	9	Hils Schm 1992	imm	N
<i>O. fastidius</i> L, 6 A, 2	L, A	-III	8	"		
<i>Halipus</i>	L	III	4	Hils 1995		
<i>Bezzia/Palpaemia</i>	L	1	1	"		
<i>Nemerodromia</i>	L	-	5	Court Meier 2008		
<i>Cricatopus (Cricatopus)</i>	P	1	1	Coff et al 1986		N
<i>Hyalella wellborni</i>	A	8-11	44	Sowe et al 2015		
<i>Dugesidae</i>	A	III	3	Thorp 12/2016		
<i>Cladocera</i>	A	1	1	"		
<i>Enchytraeidae</i>	A	1	1	"		
<i>Naididae</i>	A	"	2	Brinkfeld 1991		
<i>Mermithidae</i>	A	1	1	Thorp 12/2016	imm	
<i>Physa</i>	A	-III	9	"		
<i>Valvat Gyrinus deflectus</i>	A	1	1	"		
<i>Amnicolidae</i>	A	-	5	Brown 1991		
<i>Valvata tricarinata</i>	A	1	1	Thorp 12/2016		
<i>Pisidium</i>	A	1	1	Burch 1972		
<i>Salt A3 Chironomidae</i>	L	+ JJD				
<i>Pagastria</i>	L	1	1	Saeth Ander 2013		
<i>Orthocladinae</i> 08300000	L	-III	8	Cranston 2013	mt infect/imm	N
<i>Corynoreura</i>	L	1	1	Ander 3 2013		
<i>Nannocladus</i>	L	1	1	"	imm	
<i>Orthocladus (Orthocladus)</i>	L	"	2	"		
<i>Cricatopus (Cricatopus) trifascia group</i>	L	"	2	"		
<i>C. (Isocladus) sylvestris group</i>	L	"	2	"		
<i>Dicretendipes</i>	L	1	1	Epl et al 2013		
<i>Microtendipes pedellus group</i>	L	-	5	"		
<i>Polypedilum (Uresipedilum) auriceps</i>	L	"	2	Bolton 2012		
<i>P. (U.) flavum</i>	L	0	25	"		
<i>Pseudochironomus</i>	L	"	2	Epl et al 2013		
<i>Rheotanytarsus</i>	L	1	1	"		