

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name MECAN RIVER	Waterbody ID Code 155000	Sample ID (YYYYMMDD-CY-FD) 20171017-70-05
Sampling Location 45 Cumberland Rd		Database Key 149844347

SWIMS Station ID 10039319	SWIMS Station Name MECAN RIVER AT CUMBERLAND RD
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Latitude N44.02230	Longitude W89.42671	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> 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 (m²) 0.75	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. (°F) 9.2° 48.6 F	D.O. (mg/l) 9.5	D.O. (% sat.) 82.1	pH (su) 7.97	Conductivity (umhos/cm) 371.0	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 type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s)
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Measured Velocity 1.92	circle units m/s or <u>f/s</u>	Average Stream Depth of reach (m) 0.3	Average Stream Width of reach (m) 8
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 10 Gravel (ladybug to tennisball): 40
 Sand: 50 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 30
Canopy Cover at Sample Site (%) 50

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Sam Camacho</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>13%</i>
Date Processed <i>11/15/18</i>	Specimens Saved <i>Subsample archived in ABL until Feb 2022</i>	

3D IC
 64 69 133

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
1/1	<i>Ephemerella invarra</i>	L	i	1	Kluch 2016		
2/2	<i>Tetoganopsis deficiens</i>	L	i	1	"		
3/3	<i>Brachycentrus americanus</i>	L	xiii	13	Hils 1985		
4/4	<i>B. occidentalis</i>	L	i	1	"		
5/5	<i>Micrasema rustrum</i>	L	ii	2	"		
	<i>Cheumatopsyche</i>	L	i	1	Hils 1985		
6/3	<i>Ceratopsyche sparna</i>	L	0	25	Schum Hils 1986		
7/4	<i>Lyne diversica</i>	L	ii	2	Hils 1985		
	<i>O. fastiditus</i>	L	xiii	14	Hils Schum 1992	imm	N
	<i>O. fastiditus</i>	L	iii	4	"		
	<i>Bezzia/alpomyia</i>	L	i	1	Hils 1985		
	<i>Simulium tuberosum</i> species complex	L	i	1	Adl et al 2004		
	<i>S. vittatum</i> species complex DB11021B	L	iii	3	"		
	<i>Simulium</i>	P	ii	2	"		N
	<i>Antocha</i>	L	xv	15	Hils 1985		
	<i>Tipula</i>	L	i	1	"		
	<i>Diamesa</i>	P	ii	2	Ferr et al 2008		N
	<i>Orthocladinae</i> DB300001	P	ii	2	"	dam	N
	<i>Cricotopus (Cricotopus)</i>	P	i	1	Coff et al 1986		N
	<i>Gammarus pseudolimnoides</i>	A	i	5	Hils 1972		
	<i>Hydrobates</i>	A	iii	3	Much 1984		
	<i>Naidinae</i>	A	x	10	Brin Gold 1991		
	<i>Metasynphora</i>	A	i	1	Thorp Rog 2016		
	<i>Rheo tanytarsus</i>	L	xv	15	Epl et al 2013		
	<i>Diamesa</i>	L	i	1	Schm Ander 2013		
8/4	<i>Pogastria</i>	L	ii	3	"		
	<i>Orthocladinae</i> DB300000	L	i	1	Cranston 2013	mk indet	N
	<i>Parametricnemus</i>	L	ii	2	Ander + 3 2013		
	<i>Synorthocladus</i>	L	i	1	"		
	<i>Orthocladus (Orthocladus)</i>	L	ii	7	"		
	<i>Cricotopus (Cricotopus) bicornatus</i> group	L	i	5	"		
	<i>C. (C.) trifascia</i> group	L	iii	3	"		
	<i>Microtendipes pedellus</i> group	L	i	1	Epl et al 2013		
	<i>Tanytarsus</i>	L	i	1	"		

> 3 taxa, TVAL ≤ 2.0
 4B > (0.1 x 129)