

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name MUKWONAGO RIVER		Waterbody ID Code 765500	Sample ID (YYYYMMDD-CY-FD) 20211105-68-06
Sampling Location ① CTH E			Database Key 290019615
SWIMS Station ID 10029289		SWIMS Station Name MUKWONAGO RIVER 250M DS OF CTH E	
Latitude 42.852886	Longitude -88.4323	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) FOX (IL)		Watershed Name MUKWONAGO RIVER	County WAUKESHA

Sample and Site Descriptors	
Sample Collector (Last Name, First) RACHEL A SABRE, AMANDA SCHMITZ	Project Name MUKWONAGO RIVER TWA-01_2021

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

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

Water Temp. (C) 8.09	D.O. (mg/l)	D.O. (% sat.)	pH (su) 7.54	Conductivity (umhos/cm) 868	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)

Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m)	Average Stream Width of reach (m)
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): _____ Gravel (ladybug to tennisball): 80%
 Sand: 5 Clay: _____ Silt/Muck: 5 Overhanging Vegetation: _____
 Aquatic Macrophytes: 10 Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 20% Canopy Cover at Sample Site (%) 0%

20211105-68-06
 Station #10029289
 1 of 1, Mukwonago River @ 250M DS CTH E
 WBIC #765500
 Rachel Sabre
 Mukwonago TWA_01_2021

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>Katherine McClure</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>6.3%</i>
Date Processed <i>7/24/2022</i>	Specimens Saved <i>Subsample archived on ABC until Sept 2025</i>	

*D494: 33 C191: 47
 D493: 20 C193: 39
 D492: C194
 D491: C192*

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
^{1/2} <i>Trematopygus</i>	L	u	2	MCB 2019	imm	
<i>Cheumatopsyche</i>	L	1	1	"		
<i>Hydropsyche betteni</i>	L	1	1	Schm Hils 1986		
<i>Hydroptila</i>	L	1	1	MCB 2019		
<i>Neetopsyche exquisita</i>	L	1	1	Blower Floyd 2004		
<i>Chimarra obscura</i>	L	u	2	Hils 1982		
<i>Neureclipsis</i>	L	1	1	MCB 2019		
<i>Otioservus</i>	L	III	5	"	imm	N
<i>O. festidulus</i>	L	III	4	Hils Schm 1992		
<i>Stenelmis</i>	L	XII	12	MCA 2019		
<i>Nemero cinnamra</i>	L	II	2	"		
<i>Simulium vittatum</i> species complex 08110217	L	-	5	Acl et al 2004		
<i>Caecidotea</i>	A	u	2	Thorp Pgs 2016	Gen	
<i>Mermithidae</i>	A	II	2	"		
<i>Dugesidae</i>	A	III	4	"		
<i>Naidinae</i>	A	III	6	Kath Brn (1998)		
<i>Tubificinae (without hairs)</i>	A	I	1	"		
<i>Pisidium</i>	A	I	1	Thorp Pgs 2016		
<i>Hydrobates</i>	A	II	2	Peck et al 1990		
<i>Speleonidae</i>	A	II	2	"		
Split A <i>Chironomidae</i>	L	IX-III				
Split A <i>Chironomidae</i>	L	II-III				
<i>Corynoneura</i>	L	I	1	And et al 2013		
<i>Parametopaenemus</i>	L	II	2	"		
<i>Thienemannella</i>	L	III	3	"	imm	
<i>Tvetenia hawaiiensis</i> group	L	III	3	Bode 1983		
<i>Cladotanytarsus</i>	L	III	3	And et al 2013		
<i>Microtanytarsus pedellus</i> group	L	II	7	"		
<i>Rheotanytarsus</i>	L	XI	11	"		
<i>Pentoneura inconspicua</i>	L	II	2	Epler 2001		
^{2/3} <i>Pagastrea</i>	L	I	1	And et al 2013		
<i>Orthocladiinae</i>	L	III	3	"	imm	N
<i>Chaetocladius piger</i> group	L	I	1	"		
<i>Eukiefferiella brehmi</i> group	L	I	1	"		
<i>Orthocladius (Orthocladius)</i>	L	XI	11	"		
<i>Rheocricotopus</i>	L	II	7	"		

23 taxa, TVAL ≤ 2.0

