

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name MEEME RIVER	Waterbody ID Code 62900	Sample ID (YYYYMMDD-CY-FD) 20221018-36-01
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Sampling Location 90m U.S. from start of station at riffle	Database Key 323972322
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SWIMS Station ID 603287	SWIMS Station Name MEEME RIVER AT S CLEVELAND RD (SITE MR003)
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Latitude 43.9072	Longitude -87.8080	Lat/Long Determination Method (circle) SWIMS <u>SWDV</u> GPS	Datum Used if using GPS <u>WGS84</u> or NAD83
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Basin (WMU) SHEBOYGAN	Watershed Name PIGEON RIVER	County MANITOWOC
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Sample and Site Descriptors

Sample Collector (Last Name, First) CRAIG HELKER	Project Name PIGEON RIVER TWA 2022
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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) 2	Estimated Area Sampled (m²) 2	Number of Samples in Composite	Replicate No. _____ of _____
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Reason For Sampling

Least Impacted Reference
 Baseline
 Impact / Treatment Site
 Control Site
 Trend
 Other: Pigeon R. TWA

Water Temp. (C) 4.9	D.O. (mg/l) 12.98	D.O. (% sat.) 101.4	pH (su) 8.71	Conductivity (umhos/cm) 615.0	Transparency (cm) 100
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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 checked="" 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 1.49	circle units m/s or <u>f/s</u>	Average Stream Depth of reach (m) .5	Average Stream Width of reach (m) 4.1
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 50
 Sand: 30 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 50 **Canopy Cover at Sample Site (%)** 0

20221018-36-01
 Station # 603287
 Sample 1 of 1
 Meeme River @ S Cleaveland Road
 WBIC 62900
 Craig Helker
 Pigeon River TWA 2022

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	Watershed	Factors that may be influencing Water Resource Integrity		Local	Watershed
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

C1 92-74 D3-91-31
 93-41 93-
 91-63 94-
 94-63 95-

For Lab Use Only

Sample Sorter NORDSTROM, ABIGAIL	Taxonomist Dimitri Jeffrey	Estimated Percent of Sample Sorted 7.8
Date Processed 02/12/2023	Specimens Saved 271 subsample archived in HIL until May 2026	

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Boetis flavistrigatus</i> species complex	L	I	1	Kub 2016		
<i>Isuraea anoka</i>	L	I	1	"		
<i>Haerina americana</i>	L	I	1	MCB 2019		
<i>Ceratopsyche</i>	L	III	4	Hils 1995	imm	N
<i>C. branta</i>	L	I	31	Schm Hils 1986		
<i>C. mirasa bifida</i> group	L	III	8	"		
<i>Chamaetopsyche</i>	L	BEII	22	MCB 2019		
<i>Hydropsyche hetheni</i>	L	X-III	19	Schm Hils 1986		
<i>Hydropsyche</i>	L	III	4	MCB 2019		
<i>Pedrobia</i>	L	I	1	"		
<i>Oedrosoma</i>	L	X	10	"	imm	N
<i>O. fastidius</i>	L	I	6	Hils Schm 1992		
<i>Stenelmis</i>	L	0-III	24	MCB 2019		N
<i>S. crenata</i>	A	II	3	Hils Schm 1992		
<i>Ecdyonisca leechi/nervosa</i>	L	I	1	"		
<i>Cricotopus</i> (<i>Cricotopus</i>) 08307501	P	III	5	Coff et al 1986		N
<i>Parakiefferiella</i> 08302901	P	II	2	MCB 2019		N
<i>Theremanniella</i> 08304701	P	I	1	"		N
<i>Hemerodromia</i>	L	I	6	"		
<i>Simulium vittatum</i> species complex 08110217	L	I	1	Ader et al 2004		
<i>Antocha</i>	L	I	1	MCB 2019		
<i>Nais</i>	A	VIII	4	Kahn Brin 1989		
<i>Tubificoides</i> (without hairs)	A	I	1	"		
split A2a Chironomidae	L	BEI				
split A2b Chironomidae	L	XI-III				
<i>Eokiefferiella clarypennis</i> group	L	I	1	Ader et al 2013		
<i>Parakiefferiella</i>	L	I	6	"		
<i>Cladotanytarsus</i>	L	XII	13	"		
<i>Cryptochironomus</i>	L	II	2	"		
<i>Microtanytarsus pedellus</i> group	L	III	6	"		
<i>Tychotanytarsus</i>	L	XIII	14	"		
<i>Conchapelonia</i>	L	III	3	"		
<i>Cricotopus</i> (<i>Cricotopus</i>) <i>brematus</i> group	L	I	1	"		
<i>C.(C.) fremulus</i> group	L	X	10	"		
<i>Nanocladius</i> (<i>Nanocladius</i>)	L	I	1	"	imm	
<i>Orthocladius</i> (<i>Orthocladius</i>)	L	I	6	"		

<3 taxa, TVALS20

