

**Instructions:** Bold fields must be completed.

Station Summary			
<b>Waterbody Name</b> UNNAMED - Osman Tributary		<b>Waterbody ID Code</b> 5025264	<b>Sample ID (YYYYMMDD-CY-FD)</b> 201810093630
<b>Sampling Location</b>		<b>Database Key</b> 168907425	
<b>SWIMS Station ID</b> 10022195		<b>SWIMS Station Name</b> UNNAMED TRIBUTARY TO MEEME RIVER	
<b>Latitude</b>	<b>Longitude</b>	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV GPS	<b>Datum Used if using GPS</b> WGS84 or NAD83
<b>Basin (WMU)</b> SHEBOYGAN		<b>Watershed Name</b> PIGEON RIVER	<b>County</b> MANITOWOC

Sample and Site Descriptors	
<b>Sample Collector (Last Name, First)</b> HOLLY STEGEMANN	<b>Project Name</b> NE LAKESHORE TMDL SUPPLEMENTAL MONITORING

**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

<b>Total Sampling Time (min)</b> 8	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 9	<b>Number of Samples in Composite</b> 1	<b>Replicate No.</b> _____ <b>of</b> _____
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**Reason For Sampling**

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

<b>Water Temp. (C)</b> 15.1	<b>D.O. (mg/l)</b> 7.8	<b>D.O. (% sat.)</b> 77.9	<b>pH (su)</b> 7.4	<b>Conductivity (umhos/cm)</b> 551	<b>Transparency (cm)</b>
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<b>Water Color</b>	<b>Estimated Stream Velocity (m/s)</b>
<input type="checkbox"/> Clear <input checked="" type="checkbox"/> Turbid <input type="checkbox"/> Stained	<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)

<b>Measured Velocity</b> circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b> 0.5	<b>Average Stream Width of reach (m)</b> 1.5
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 40  
 Sand: 20 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: 10  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: \_\_\_\_\_ Other ( ): \_\_\_\_\_  
 Embeddedness of Substrate at Sample Site (%) 30 Canopy Cover at Sample Site (%) 10

**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>Kayla Wilcox</i>	Taxonomist <i>Demick Jeffrey</i>	Estimated Percent of Sample Sorted <i>20%</i>
Date Processed	Specimens Saved <i>157</i>	

*C1-68*  
*A3-139*  
*117*  
*EK 50*  
*157*

*subsample archived in ABL until Aug 2022*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetidae	L	I	1	Kleb 2016	dam	N
<del>SD</del> B. intercalaris Baetis	L	I	1	"		
B. brunneicolar	L	I	1	"		
Stenacron	L	I	1	"	imm	
Cheumatopsyche	L	-I	6	Hils 1995		
Limnephilidae	L	I	1	"	imm	
Dobinaphia	L	-III	4	Hils Schm 1992		
Optioservus	L	II	2	"	imm	
Thremanniella	P	I	1	Fer et al 2008		N
Gammarus pseudolimnaeus	A	-III	8	Ho B 1972		
Caecidotea intermedia	A	0-II	27	Will 1972		
Mermithidae	A	II	2	Thompson 2016	imm	
Diplostraca	A	I	1	"		
Citellata	A	I	1	"	dam	N
Tubificinae (without hairs)	A	8-I	36	Klemm 1985		Y
Tubificinae (with hairs)	A	I	5	"		Y
Sphaerium	A	II	2	Mackie 2007		
<del>Split Aa Chironomidae</del>	L	8x III				
<del>Split Ab Chironomidae</del>	L	8x III				
<del>Split Ac Chironomidae</del>	L	8x III				
Limnophyes	L	II	2	Andt 3 2013		
Thremanniella xena	L	I	1	Bolton 2012		
Cricatopus (Cricatopus) bicinctus group	L	I	1	Andt 3 2013		
Chironomus	L	I	1	Epl et al 2013		
cladotanytarsus	L	I	1	"		
Cryptochironomus	L	I	1	"		
Dicrotendipes	L	xIII	13	"		
Microtendipes pedellus group	L	x-III	18	"		
Paratanytarsus	L	III	3	"	not indet	N
P. species A	L	II	2	Hils unpubl		
P. species B	L	III	4	"		
Polypedilum (Polypedilum) illinoense group	L	I	1	Bolton 2012		
Stictochironomus	L	8or	65	Epl et al 2013		