

Instructions: Bold fields must be completed.

**Station Summary**

<b>Waterbody Name</b> NORTH BRANCH MILWAUKEE RIVER		<b>Waterbody ID Code</b> 27100	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20211027-60-04
<b>Sampling Location</b> SOS		<b>Database Key</b> 288762621	
<b>SWIMS Station ID</b> 10030491		<b>SWIMS Station Name</b> NICHOLS CREEK - DS OF CTH N	
<b>Latitude</b> 43.6866	<b>Longitude</b> -88.0335	<b>Lat/Long Determination Method (circle)</b> SWIMS <u>SWDV</u> GPS	<b>Datum Used if using GPS</b> <u>WGS84</u> or NAD83
<b>Basin (WMU)</b> MILWAUKEE RIVER		<b>Watershed Name</b> NORTH BRANCH MILWAUKEE RIVER	<b>County</b> SHEBOYGAN

**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> Holtzer, Craig	<b>Project Name</b> SER LONG-TERM TREND WADEABLE REFERENCE STREAM
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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

<b>Total Sampling Time (min)</b> 3	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 3	<b>Number of Samples in Composite</b> 3	<b>Replicate No. _____ of _____</b>
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**Reason for Sampling**

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

<b>Water Temp. (C)</b> 8.81	<b>D.O. (mg/l)</b> 11.48	<b>D.O. (% sat.)</b> 99.6	<b>pH (su)</b> 8.04	<b>Conductivity (umhos/cm)</b> 746.3	<b>Transparency (cm)</b> 120
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<b>Water Color</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	<b>Estimated Stream Velocity (m/s)</b> <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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<b>Measured Velocity</b> 1.67	circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b> .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): 50 Gravel (ladybug to tennisball): 30  
 Sand: 20 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 (%)** 20%

**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 <del>11/8/22</del> Reed, Kayla	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 4.7% (PL) 5.1% (PL)
Date Processed (R) 11/8/22	Specimens Saved (R) 130	(R) 129 subsamples archived in QBL under MAR 2026

(R) A2g3:40 D2g1:57 3/64  
 94g3: > 11 90  
 94g2: 14 92  
 94g4: 8 93  
 (R) B2g1:44 D3g1:41 3.25/64  
 92:32 94g1:12  
 93  
 92

Taxa	Life Stage	Organism Count			Taxonomic Reference	Condition	Unique Taxon
		Rep 1	Rep 2	Rep 3			
<i>Baetis flavistriga</i> species complex	L	0	1		Kich 2016		
<i>Ephemera subvaria</i>	L	0	5		"		
<i>Brachycentrus americanus</i>	L	8	7		Hils 1985		
<i>Micrasema gelidum</i>	L	3	5		"		
<i>Ceratopsyche stlossonae</i>	L	15	15		Schm Hils 1986		
<i>Cheumatopsyche</i>	L	13	9		MCB 2019		
<i>Hydropsyche</i>	L	0	1		Hils 1995	dam	N
<i>H. hetteni</i>	L	1	0		Schm Hils 1986		
<i>Hydroptila</i>	L	0	1		Wiggins 1977		
<i>Lepidostoma</i>	L	5	4		MCB 2019		
Limnephilidae	L	0	1		"	imm	Y
<i>Hesperophylax designatus</i>	L	1	0		Hils 1995		
<i>Chimarra aterima</i>	L	2	2		Hils 1982		
<i>Neophylax</i>	L	1	1		MCB 2019	imm	N
<i>N. concinnus</i>	L	0	1		Brecht 2016		
<i>Optroservus</i>	L	0	3		MCB 2019	imm	N
<i>O. fastiditus</i> R1 L3 A1 R2 L4	LA	4	4		Hils Schm 1982		
<i>Simulium</i>	L	1	0		MCB 2019	imm	
<i>Antocha</i>	L	7	5		"		
<i>Gammarus pseudolimnaeus</i>	A	11	6		Hils 1972		
<i>Caecidotea</i>	A	0	1		Thorp Reg 2016	imm	
<i>Megadili = Medagynophora</i>	A	1	0		"		
<i>Naidinae</i>	A	10	1		Kahn Brin 1998		
<i>Hydrobates</i>	A	2	0		Peck et al 1990		
<i>Sprecheriidae</i>	A	0	1		"		
<del><i>Siphonura Chironomidae</i></del>	L	44	49	330			
<i>Zavrelimyia</i>	L	0	1		Anders et al 2013		
<i>Thienemannimyia</i> group	L	1	1		"	imm	
<i>Pacastia</i>	L	8	5		"		
<i>Orthocladius</i> 08300000	L	12	11		"	imm	N
<i>Brillia</i>	L	3	2		"	imm	
<i>Cricotopus (Cricotopus) brevicornis</i> group	L	2	1		"		
<i>Eukretfenella</i>	L	2	0		"	dam	N
<i>E. brehmi</i> group	L	3	4		"		
<i>E. claripennis</i> group	L	2	0		"		
<i>E. devonica</i> group	L	4	2		"		
<i>Orthocladius (Orthocladius)</i>	L	3	1		"		
<i>Parakretfenella</i>	L	1	0		"		
<i>Parametrioctenus</i>	L	0	2		"		

