

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

**Station Summary**

<b>Waterbody Name</b> BIG DRYWOOD CREEK	<b>Waterbody ID Code</b> 2154800	<b>Sample ID (YYYYMMDD-CY-FD)</b> 2018114-09-05
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<b>Sampling Location</b> US 1m	<b>Database Key</b> 169417054
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<b>SWIMS Station ID</b> 10008692	<b>SWIMS Station Name</b> 7- BIG DRYWOOD CREEK - 270TH ST
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<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
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<b>Basin (WMU)</b> LOWER CHIPPEWA	<b>Watershed Name</b> LOWER YELLOW (CHIPPEWA CO.) RIVER	<b>County</b> CHIPPEWA
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**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> CHRISTOPHER J WILLGER, MYCAL C RAI	<b>Project Name</b> BIG DRYWOOD/LITTLE DRYWOOD TWA 2018
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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> 1	<b>Replicate No.</b> 1 <b>of</b> 1
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**Reason For Sampling**

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

<b>Water Temp. (C)</b>	<b>D.O. (mg/l)</b>	<b>D.O. (% sat.)</b>	<b>pH (su)</b>	<b>Conductivity (umhos/cm)</b>	<b>Transparency (cm)</b>
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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> circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b> 0.2	<b>Average Stream Width of reach (m)</b> 4.5
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): 30 Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 30  
 Sand: 10 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: \_\_\_\_\_ Other ( ): \_\_\_\_\_

**Embeddedness of Substrate at Sample Site (%)** 10     
**Canopy Cover at Sample Site (%)** 0

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

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter <i>Kyla Wilcox</i>	Taxonomist <i>Dimick Jeffrey</i>	Estimated Percent of Sample Sorted <i>20%</i>
Date Processed <i>05/28/19</i>	Specimens Saved <i>Subsample archived in ABL until Jul 2022</i>	

*C1=39 B2=56  
 A1=30 125*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Allocaenia</i>	L	1	6	Hils 1995		
<i>Oemopteryx glacialis</i>	L	1	1	Stew Stark 2008		
<i>Taeniopteryx glabella nivalis</i>	L	1	1	Full Stew 1980		
<del>Neptostemidae</del>	L	1	1	Kich 2016	imm	N
<i>Stenacron</i>	L	1	1	"		
<i>Maccaferdium vicarium</i>	L	1	1	"		
<i>Leptophlebia</i>	L	11	2	"		
<i>Charmatopsyche</i>	L	11	12	Hils 1995		
<i>Hydropsyche betteni</i>	L	1	1	Schm Hils KBB		
<i>Limnephilidae</i>	L	1	1	Hils 1995	imm	
<i>Neophylax</i>	L	1	5	"	imm	
<i>Dixophlebia</i>	L	1	1	Hils Schm 1992		N
<i>D. minima</i>	A	1	1	"		
<i>Ophoseervus fastiditus</i>	L	111	4	"		
<i>Stenelmis</i>	L	1	1	"		
<i>Collicides</i>	L	1	1	Hils 1995		
<i>Probezzia</i>	L	1	1	"		
<i>Hemerodromia</i>	L	1	1	Court Meir 2018		
<i>Coelocentrus racovitzae racovitzae</i>	A	1	1	Will 1972		
<i>Mermithidae</i>	A	1	1	Trop Pog 2016	imm	
<i>Naidinae</i>	A	1	6	Brin Geld 1991		
<i>Tubificonae (without hairs)</i>	A	111	4	Klemm 1985		
<i>Gammarus pseudolimnoides</i>	A	1111	9	Hols 1972		
<i>Pisidium</i>	A	11	2	Burch 1972		
<i>Sphaerium</i>	A	1	1	"		
<del><i>Spit Azb Chironomidae</i></del>	L	111				
<del><i>Spit Azb Chironomidae</i></del>	L	111				
<i>Brillia flavifrons</i>	L	11	2	Epler 2001		
<i>Matarsia baltimorea</i>	L	1	1	"	South And 2013	
JJD <del><i>Anaesthae obsoletus</i></del> <i>Symplothastra</i>	L	1	1	Cranston 2013	mt in det	JJD
<i>Eukiefferiella claripennis group</i>	L	11	2	And + 3 2013		
<i>Hydrobaenus</i>	L	111	3	"		
<i>Parametrodanemus</i>	L	11	2	"		
<i>Paraphaenocladus</i>	L	1	1	"		
<i>Stilocladius</i>	L	1	1	"		
<i>Tretania bavarica group</i>	L	11	2	Bode 1983		

