

Instructions: Bold fields must be completed.

**Station Summary**

<b>Waterbody Name</b> HUMPHREY CREEK	<b>Waterbody ID Code</b> 250500	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20181012-70-02
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<b>Sampling Location</b>	<b>Database Key</b> 168360436
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<b>SWIMS Station ID</b> 10007897	<b>SWIMS Station Name</b> HUMPHREY CREEK AT CTH K
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<b>Latitude</b> 44.214046	<b>Longitude</b> -89.185165	<b>Lat/Long Determination Method (circle)</b> <u>SWIMS</u> SWDV GPS	<b>Datum Used if using GPS</b> WGS84 or NAD83
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<b>Basin (WMU)</b> WOLF RIVER	<b>Watershed Name</b> PINE AND WILLOW RIVERS	<b>County</b> WAUSHARA
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**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> DAVID BOLHA	<b>Project Name</b> PINE RIVER 319 PROJECT-FUNDED 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> 4	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 2.0	<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: Targeted Watershed Assessment

<b>Water Temp. (C)</b> 7.5	<b>D.O. (mg/l)</b> 8.4	<b>D.O. (% sat.)</b> 71.8	<b>pH (su)</b> 7.3	<b>Conductivity (umhos/cm)</b> 340.7	<b>Transparency (cm)</b> 120
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<b>Water Color</b> <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" 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> 0.3	<b>Average Stream Width of reach (m)</b> 4
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): 10 Rubble (tennisball to basketball): 50 Gravel (ladybug to tennisball): 10  
 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 (%)** 30

**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	N	N	Chlorine	N	N
- Filamentous Algae	N	N	Dissolved Oxygen	N	N
- Planktonic Algae	N	N	Nutrients (P, N...)	PL	PL
Iron Bacteria	N	N	Toxics: - Inorganic (Metals)	N	N
Macrophytes	N	N	- Organic (PCBs, pesticides...)	N	N
Slimes	N	N	Other - Specify:		
Other - Specify:			<b>Sources of Stream Impacts</b>		
			Bank Erosion	N	N
			Point Source - Specify:	N	N
<b>Physical</b>			Pasturing of Livestock	N	N
Bank Erosion	N	N	Runoff: - Barnyard	N	N
Channelization: - Upstream	N	N	- Construction	N	N
- Downstream	N	N	- Cropland	N	PL
Hydraulic Scour / Channel Incision	N	N	- Urban	N	N
Impoundment: - Upstream	N	N	Septic Systems	N	N
- Downstream	N	N	Tile Drainage - Organic Soils	N	N
Low Flow	N	N	- Mineral Soils	N	N
Sedimentation	PH	PH	Springs	N	PL
Sludge	N	N	Tributary(s)	N	PL
Thermal	N	N	Wetland	N	N
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter <b>JACOB BULITZ</b>	Taxonomist <b>Dimick Jeffrey</b>	Estimated Percent of Sample Sorted <b>13.00%</b>
Date Processed <b>2/28/2019</b>	Specimens Saved <b>subsample archived in ABL until May 2022</b>	

**AZ START: 1:15 END: 2:35 SPECS: 85**  
**E1 START: 2:45 END: 3:35 SPECS: 66**  
**130min**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicolor</i>	L	-III	8	KW 2016		
<i>Maccaffertium vicarium</i>	L	I	1	"		
<i>Leptophlebia</i>	L	III	3	"	imm	
<i>Brachycentrus occidentalis</i>	L	I	5	Hils 1985		
<i>Microsema rusticum</i>	L	III	4	"		
<i>Helicopsyche borealis</i>	L	I	1	Hils 1995		
<i>Cheumatopsyche</i>	L	0 III	23	"		
<i>Hydropsyche betteni</i>	L	I	1	Schm Hils 1986		
<i>Ceratopsyche glossopoe</i>	L	II	3	"		
<i>C-sparna</i>	L	I	1	"		
<i>Neophylax</i>	L	I	1	Hils 1995	imm	
<i>Calopteryx maculata</i>	L	I	1	West May 1996		
<i>Nigronia serricornis</i>	L	II	3	Neunzig 1966		
<i>Sialis</i>	L	I	1	Hils 1995		
<i>Optiosevus</i>	L	- IIII	9	Hils Schm 1992	imm	N
<i>O.-fastiditus</i> L9 A.1	LA	X	10	"		
<i>Simulium</i>	L	I	1	Adler et al 2004	imm	Y
<i>S. terebratum</i> species complex	L	I	1	"		
<i>S. venustum</i> species complex	L	I	1	"		
<i>S. vittatum</i> species complex 08110217	L	II	2	"		
<i>Chryseps</i>	L	III	3	Hils 1995		
<i>Amoeba</i>	L	I	1	"		
<i>Hexatoma</i>	L	I	1	"		
<i>Tipula</i>	L	I	1	"		
<i>Heterotrissocladius</i>	P	I	1	Ferr et al 2008		
<i>Tvetenia</i>	P	III	3	"		N
<i>Gammarus pseudolimnoides</i>	A	X	10	Hils 1972		
<i>Mermithidae</i>	A	I	1	Thorp Reg 2016	imm	
<i>Naididae</i>	A	-I	6	Brin Gled 1991		
<i>Tubificinae (without hairs)</i>	A	III	5	Klemm 1985		Y
<i>Tubificinae (with hairs)</i>	A	"	2	"		Y
<i>Physa</i>	A	-	5	Thorp Reg 2016		
<i>Sphaerium</i>	A	II	2	Burch 1972		
<del><i>Smith A3 Chironomidae</i></del>	L	III	3			
<i>Cladotanytarsus</i>	L	0 II	22	Epi et al 2013		
<i>Eukiefferiella</i>	L	II	2	And + 3 2013	mt indet	

> 3 taxa, TVAL ≤ 2.0  
 15 < (0.1 × 154)

