

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

**Station Summary**

<b>Waterbody Name</b> EAST TWIN RIVER		<b>Waterbody ID Code</b> 84000	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20171012-31-08
<b>Sampling Location</b>			<b>Database Key</b> 149676006
<b>SWIMS Station ID</b> 10008204		<b>SWIMS Station Name</b> EAST TWIN RIVER - HWY J	
<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> TWIN - DOOR - KEWAUNEE		<b>Watershed Name</b> EAST TWIN RIVER	<b>County</b> KEWAUNEE

**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> MARY GANSBERG	<b>Project Name</b> EAST TWIN RIVER TWA 2017
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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> 2	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 2.3	<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: TWA

<b>Water Temp. (C)</b> 12.1	<b>D.O. (mg/l)</b> 9.5	<b>D.O. (% sat.)</b> 88.4	<b>pH (su)</b> 8.0	<b>Conductivity (umhos/cm)</b> 997	<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 checked="" type="checkbox"/> Slow (< 0.15 m/s) <input 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> 0.53	<b>Average Stream Width of reach (m)</b> 5.0
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 70 Gravel (ladybug to tennisball): 20  
 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 (%)** 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:			
				Pasturing of Livestock			
<b>Physical</b>				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

For Lab Use Only		
Sample Sorter <i>Kayla Wilcox</i>	Taxonomist <i>Dimick Jeffrey</i>	Estimated Percent of Sample Sorted <i>7%</i>
Date Processed <i>10/23</i>	Specimens Saved <i>subsample archived in ABL until Dec 2020</i>	

*E1=138*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Taeniopteryx	L	I	1	Hilkenhoff 1995	imm	
Baetis flavistriga species complex	L	I	1	Klubertanz 2016		
Acerpenna	L	I	1	"	dam	
Stenacron interpunctatum	L	I	1	"		
Leucoparta	L	II	2	"		
Maccaffertium vicarium	L	I	1	"		
Leptophlebia	L	I	1	"	imm	
Calopterygidae	L	I	1	West, May 1996	imm	
Cheumatopsyche	L	III	34	Hilkenhoff 1995		
Hydropsyche	L	I	1	"	imm	N
H. betteni	L	-II	7	Schm., Hils. 1986		
Ceratopsyche alhedra	L	II	2	"		
C. bronata	L	III	3	"		
Limnephilidae	L	II	2	Hilkenhoff 1995	imm	
Oligoneurus	L	III	3	Hils., Schm. 1992	imm	N
O. fastiditus	L	I	1	"		
Stenelmis crenata	A	I	1	"		
Antocha	L	-I	6	Hilkenhoff 1995		
Gammarus pseudolimnacus	A	III	3	Holsinger 1972		
Naididae	A	0-II	27	Brin., Celd. 1991		
<del>Split A3 Chironomidae</del>	<del>L</del>	<del>II-III</del>				
Tvetenia	P	I	1	Fer. et al. 2008		N
Paraketterella	L	II	2	Ander. + 3 2013		
Thienemanniella xera	L	II	2	Bolton 2012		
Tvetenia bavarica group	L	II	2	Bode 1983		
Cladotanytarsus	L	-III	9	Epler et al 2013		
Micropsectra	L	III	3	"		
Microtendipes pedellus group	L	I	1	"		
Pantanytarsus sp. A	L	-	5	Hilkenhoff unpubl		
Polypedilum (Uresipedilum) Pavum	L	II	2	Bolton 2012		
Rheotanytarsus	L	-III	9	Epler et al 2013		
Tanytarsus	L	II	2	"		