

Instructions: Bold fields must be completed.

<b>Station Summary</b>	
Waterbody Name BEAR CREEK	Waterbody ID Code 1186600
Sample ID (YYYYMMDD-CY-FD) 20171017-12-02	Database Key 150534837
Sampling Location	

SWIMS Station ID 10030073	SWIMS Station Name BEAR CREEK AT ORCHARDVIEW ROAD		
Latitude 43.347267	Longitude -90.764435	Lat/Long Determination Method (circle) SWIMS SWDV GPS	
Datum Used if using GPS WGS84 or NAD83		Basin (WMU) LOWER WISCONSIN	Watershed Name READS AND TAINTER CREEKS
		County CRAWFORD	

<b>Sample and Site Descriptors</b>	
Sample Collector (Last Name, First) JEAN UNMUTH	Project Name SOUTH DISTRICT NC STREAM STRATIFIED SITES 2017

**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

Total Sampling Time (min) 4.0	Estimated Area Sampled (m <sup>2</sup> ) 3.0	Number of Samples in Composite 0	Replicate No. 1 of 1
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**Reason For Sampling**

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

Water Temp. (C) 11.0	D.O. (mg/l)	D.O. (% sat.)	pH (su)	Conductivity (umhos/cm)	Transparency (cm)
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Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <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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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.15	Average Stream Width of reach (m) 2.0
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 40  
 Sand: \_\_\_\_\_ Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: 10  
 Aquatic Macrophytes: 10 Leaf Snags: 10 Coarse Woody Debris: 10 Other ( ): \_\_\_\_\_  
 Embeddedness of Substrate at Sample Site (%) 20 Canopy Cover at Sample Site (%) 50

**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	Watershed	Factors that may be influencing Water Resource Integrity		Local	Watershed
<b>Biological</b>				<b>Chemical</b>			
Algae: - Diatoms / Periphyton		N		Chlorine		N	
- Filamentous Algae		N		Dissolved Oxygen		N	
- Planktonic Algae				Nutrients (P, N...)		N	
Iron Bacteria		N		Toxics: - Inorganic (Metals)			
Macrophytes		N		- Organic (PCBs, pesticides...)			
Slimes		N		Other - Specify:			
Other - Specify:				<b>Sources of Stream Impacts</b>			
				Bank Erosion		PL	PL
				Point Source - Specify:		N	
				Pasturing of Livestock		PL	PL
<b>Physical</b>				Runoff: - Barnyard		N	
Bank Erosion		PL	PL	- Construction		N	
Channelization: - Upstream		N	N	- Cropland		N	
- Downstream		N	N	- Urban		N	
Hydraulic Scour / Channel Incision		PL	PL	Septic Systems			
Impoundment: - Upstream		N	N	Tile Drainage - Organic Soils			
- Downstream				- Mineral Soils			
Low Flow		N		Springs			
Sedimentation		PL		Tributary(s)			
Sludge		N		Wetland			
Thermal		N		Other - Specify:			
Turbidity		N					
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>13%</i>
Date Processed <i>7/31/18</i>	Specimens Saved <i>Subsample archived in DAL until Nov 2021</i>	

23112  
 21-5

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*[Signature]*

Wisconsin Department of Natural Resources  
 ABL SampleNum: 20171017-12-02  
 Taxonomist: Dimick, Jeffrey

Waterbody: Bear Creek  
 SWIMS Database Key: 150534837

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicolor</i>	L	x1	16	Klub 2016		
11 <i>B. tricaudatus</i>	L	x1	11	"		
38 <i>Brachycentrus occidentalis</i>	L	0-11	27	Hils 1985		
41 <i>Diplectroza modesta</i>	L	111	3	Hils 1985		
<i>Ceratopogonid</i>	L	1	1	Schmitt 1986		
<i>Lepidostoma</i>	L	1	1	Hils 1985		
42 <i>Ptilostomis</i>	L	1	1	"		
<i>Helichus striatus</i>	A	1	1	Hils Schmitt 1992		
<i>Dixa</i>	P	1	1	Merrill Webb 2008 dam		Y
<i>Simulium tuberosum</i> species complex	L	11	2	Adl et al 2001		
<i>S. vittatum</i> species complex	L	1	1	"		
<i>Simulium</i>	P	1	1	"		N
Muscidae	L	x	5	Grant Merr 2008		
Dicranota	L	1	1	Hils 1985		
<i>Gammarus pseudolimnoides</i>	A	0-1	61	Hils 1972		
<i>Fossaria</i>	A	1	1	Brown 1991		
<del>Sub A3 Chironomidae</del>	L	JSP				
<i>Procladius</i>	L	111	3	Cranston 2013	mt index imm	N
<i>Paratanytarsus</i>	L	1	1	Ander 13 2013		
<i>Taeniocera hawaiiensis</i> group	L	11	2	Bock 1983		
<i>Chironominae</i>	L	1111	4	Cranston 2013	imm	N
<i>Microsectra</i>	L	11	2	Epl et al 2013		
<i>Paratanytarsus longistylus</i>	L	1	1	"		
<i>Polypedilum (Uresinipedium) aviceps</i>	L	x11	12	Bolton 2012		
<i>Zheringia</i>	L	11	2	Epl et al 2013		
<i>Tanytarsus</i>	L	1	1	"		

>3 taxa, TVAL ≤ 2.0

42 >(0.1 x 151)