

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

Station Summary					
<b>Waterbody Name</b> STRUTT CREEK		<b>Waterbody ID Code</b> 1244500		<b>Sample ID (YYYYMMDD-CY-FD)</b> 20180924-25-05	
<b>Sampling Location</b> us of Public lands access Bridge				<b>Database Key</b> 168762793	
<b>SWIMS Station ID</b> 10033874		<b>SWIMS Station Name</b> STRUTT CREEK AT CONFLUENCE OF LOVE CREEK			
<b>Latitude</b> 43.035015	<b>Longitude</b> -89.996346		<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV GPS		<b>Datum Used if using GPS</b> WGS84 or NAD83
<b>Basin (WMU)</b> LOWER WISCONSIN		<b>Watershed Name</b> MILL AND BLUE MOUNDS CREEK		<b>County</b> IOWA	
Sample and Site Descriptors					
<b>Sample Collector (Last Name, First)</b> JEAN UNMUTH			<b>Project Name</b> MEUDT-MILL CREEK & KNIGHT HOLLOW-MILL CR. WATEI		
<b>Sampling Device</b>					
<input checked="" type="checkbox"/> D-Frame Kick Net		<input type="checkbox"/> Surber Sampler		<input type="checkbox"/> Eckman	
<input type="checkbox"/> Ponar		<input type="checkbox"/> Artificial Substrate		<input type="checkbox"/> Hess Sampler <input type="checkbox"/> Other: _____	
<b>Habitat Sampled</b>					
<input checked="" type="checkbox"/> Riffle		<input type="checkbox"/> Run		<input type="checkbox"/> Pool	
<input type="checkbox"/> Other		<input type="checkbox"/> Shoreline Composite		<input type="checkbox"/> Proportionally-Sampled Habitat	
<input type="checkbox"/> Littoral Zone		<input type="checkbox"/> Profundal Zone		<input type="checkbox"/> Wetland	
<b>Total Sampling Time (min)</b> 4.00	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 2.0		<b>Number of Samples in Composite</b> 1		<b>Replicate No.</b> 1 of 1
<b>Reason For Sampling</b>					
<input checked="" type="checkbox"/> Least Impacted Reference		<input type="checkbox"/> Baseline		<input type="checkbox"/> Impact / Treatment Site	
<input type="checkbox"/> Control Site		<input type="checkbox"/> Trend		<input type="checkbox"/> Other: _____	
<b>Water Temp. (C)</b> 12.3	<b>D.O. (mg/l)</b> 11.3	<b>D.O. (% sat.)</b> 109	<b>pH (su)</b> 8.3	<b>Conductivity (umhos/cm)</b> 739	<b>Transparency (cm)</b> 120
<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)		
<b>Measured Velocity</b> 0.045 <small>circle units</small> m/s or f/s		<b>Average Stream Depth of reach (m)</b> 0.3		<b>Average Stream Width of reach (m)</b> 1.3	
<b>Composition of Substrate Sampled (Percent):</b>					
<b>Bedrock:</b> _____		<b>Boulders</b> (basketball or larger): 10	<b>Rubble</b> (tennisball to basketball): 20	<b>Gravel</b> (ladybug to tennisball): 30	
<b>Sand:</b> 20		<b>Clay:</b> _____		<b>Silt/Muck:</b> _____	
<b>Overhanging Vegetation:</b> _____					
<b>Aquatic Macrophytes:</b> _____		<b>Leaf Snags:</b> 10	<b>Coarse Woody Debris:</b> 10	<b>Other (_____):</b> _____	
<b>Embeddedness of Substrate at Sample Site (%)</b> 40			<b>Canopy Cover at Sample Site (%)</b> 90		

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

Comments

3 hr NZMS examination conducted on unsorted remnant JJD  
 2.5 hr image capturing exercise JJD

Special Instructions for Laboratory

2B = 44      3E = 38      ~~1D =~~  
 3C = 63      ~~2A =~~      Total = 145  
 109

For Lab Use Only

Sample Sorter Murphy Steinger	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 20%
Date Processed 4/16/19	Specimens Saved Subsample archived in ABL until Jun 2022	

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis tricaudatus</i>	L	I	1	Kluth 2016		
<i>Paraleptophlebia praepedita</i>	L	I	1	"		
<i>Brachycentrus occidentalis</i>	L	800	62	Hils 1985		
<i>Glossosoma intermedium</i>	L	I	1	Wym Mac 2000		
<i>Cheumatopsyche</i>	L	I	1	Hils 1985		
<i>Diplectrona modesta</i>	L	II	2	"		
<i>Lepidostoma</i>	L	III	3	"		
<i>Hesperophylax designatus</i>	L	XI	11	"		
<i>Limnephilus</i>	L	I	1	"		
<i>Sialis</i>	L	III	3	"		
<i>Optiosevus</i>	L	I	1	Hils Schm 1992	imm	N
<i>O. fastidius</i>	L	I	1	"		
<i>Chrysops</i>	L	II	2	Hils 1995		
<i>Discanota</i>	L	III	4	"		
<i>Dixa</i>	L	II	2	"		
<i>Heterotriisocladus</i>	A	I	1	Ferr et al 2008		
<i>Gammarus pseudolimnoides</i>	A	01	21	Hils 1972		
<i>Microvelia americana</i>	A	I	1	Hils 1986		
<i>Neoplasta</i>	L	I	1	Court Merc 2008		
<i>Naisinae</i>	A	I	1	Brin Geld 1991		
<i>Tubificinae (without hairs)</i>	A	X-III	18	Klemm 1985		
<i>Dina parva</i>	A	I	1	"		
<i>Ephydridae</i>	A	I	1	"	dam	N
<i>Physa</i>	A	880	100	Thorp Reg 2016		
<i>Potamopyrgus antipodarum</i>	A	I	1	"		
<i>Pisidium</i>	A	II	2	Burch 1972		
<del><i>Sittia</i></del> <i>Chironomidae</i>	L	III-IV				
<i>Chironomidae 08250000</i>	L	I	1	Court Merc 2008	imm	N
<i>Conchapelopia 08270700</i>	L	I	1	Coan Epl 2013		
<i>Orthocladiinae 08300000</i>	L	I	5	Cranston 2013	imm	N
<i>Brillia flavifrons</i>	L	I	1	Epler 2001		
<i>Parakiefferella</i>	L	III	4	And + 3 2013		
<i>Parametrisiponemus</i>	L	I	1	"		
<i>Tritenia bavarica group</i>	L	III	3	Bode 1983		
<i>Orthocladius (Orthocladius)</i>	L	I	5	And + 3 2013		
<i>Microsectra</i>	L	I	1	Epl et al 2013		

