

Instructions: Bold fields must be completed.

Station Summary						
Waterbody Name Ryan Creek			Waterbody ID Code 1242500		Sample ID (YYYYMMDD-CY-FD) 20180925-25-01	
Sampling Location US CTH HH and US mouth of ^{White} Hollow Cr.					Database Key 168762859	
SWIMS Station ID 10051104		SWIMS Station Name RYAN CREEK US CTH HH				
Latitude 43.1136046		Longitude -89.9329907		Lat/Long Determination Method (circle) SWIMS SWDV GPS		Datum Used if using GPS WGS84 or NAD83
Basin (WMU) LOWER WISCONSIN			Watershed Name MILL AND BLUE MOUNDS CREEK		County IOWA	
Sample and Site Descriptors						
Sample Collector (Last Name, First) JEAN UNMUTH				Project Name MEUDT-MILL CREEK & KNIGHT HOLLOW-MILL CR. WATEI		
Sampling Device						
<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: _____
Habitat Sampled						
<input type="checkbox"/> Riffle		<input checked="" 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		
Total Sampling Time (min) 5.0		Estimated Area Sampled (m²) 3.0		Number of Samples in Composite 1		Replicate No. <u>1</u> of <u>1</u>
Reason For Sampling						
<input checked="" type="checkbox"/> Least Impacted Reference		<input checked="" type="checkbox"/> Baseline		<input type="checkbox"/> Impact / Treatment Site		
<input type="checkbox"/> Control Site		<input type="checkbox"/> Trend		<input type="checkbox"/> Other: _____		
Water Temp. (C) 16.1	D.O. (mg/l) 9.9	D.O. (% sat.) 103	pH (su) 8.0	Conductivity (umhos/cm)		Transparency (cm) 120
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)		
Measured Velocity 0.22 circle units m/s or f/s		Average Stream Depth of reach (m) 0.20		Average Stream Width of reach (m) 1.3		
Composition of Substrate Sampled (Percent):						
Bedrock: _____		Boulders (basketball or larger): _____		Rubble (tennisball to basketball): _____		Gravel (ladybug to tennisball): <u>20</u>
Sand: <u>10</u>		Clay: _____		Silt/Muck: _____		Overhanging Vegetation: _____
Aquatic Macrophytes: _____		Leaf Snags: <u>40</u>		Coarse Woody Debris: <u>30</u>		Other (_____): _____
Embeddedness of Substrate at Sample Site (%) <u>90</u>				Canopy Cover at Sample Site (%) <u>0</u>		

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Sam Lamarche</i>	Taxonomist <i>Dimick Jeffrey</i>	Estimated Percent of Sample Sorted <i>33%</i>
Date Processed <i>4/19/19</i>	Specimens Saved <i>Subsample archived in ABC units Jun 2022</i>	

A3 C1 A1 E3 D2
 25 27 28 30 28

138 total specs

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicolor</i>	L	IIII	9	Klich 2016		
<i>Brachycentrus occidentalis</i>	L	II	7	Hils 1985		
<i>Hydropsyche betteni</i>	L	III	3	Schm Hils 1986		
<i>Ceratopsyche strossneri</i>	L	II	2	"		
<i>C. sparna</i>	L	I	1	"		
<i>Lepidostoma</i>	L	III	3	Hils 1985		
<i>Oligostemis ocelligera</i>	L	I	1	"		
<i>Helichus striatus</i>	A	I	1	Hils Schm 1992		
<i>Simulium vittatum</i> species complex 08110217	L	I	1	Abel et al 2004		
<i>Tipula</i>	L	III	3	Hils 1985		
<i>Gammarus pseudolimnoides</i>	A	BBx	90	Hils 1972		
<i>Caecidotea intermedia</i>	A	x-II	17	Will 1972		
Tubificinae (without hairs)	A	I	1	Klemm 1985		Y
Tubificinae (with hairs)	A	I	1	"		Y
Megadrili = Metagynophora	A	I	1	Thorp Pgs 2016		
<i>Pseudosuccinea columella</i>	A	I	1	"		
Physa	A	II	2	"		
<i>Pisidium</i>	A	II	2	Burch 1972		
<i>Coarctoneura</i>	L	I	1	And+3 2013		
<i>Polypedium (Uresipedium) aviceps</i>	L	I	1	Bolton 2012		

>3 taxa, TVAL ≤ 2.0

12 < (0.1 x 139)