

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name EAST FORK RACCOON CREEK	Waterbody ID Code 874100	Sample ID (YYYYMMDD-CY-FD) 20160929-54-02
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Sampling Location 8 m upstream of Beloit - Newark Rd	Database Key 135473594
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SWIMS Station ID 10009956	SWIMS Station Name EAST FORK RACCOON CREEK AT BELOIT NEWARK RD
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Latitude 42.54079	Longitude 89.13272	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) SUGAR - PECATONICA	Watershed Name LOWER SUGAR RIVER	County ROCK
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Sample and Site Descriptors

Sample Collector (Last Name, First) AMRHEIN, JAMES	Project Name SCR LONG-TERM TREND WADEABLE REFERENCE STREAMS
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Sampling Device

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) 1	Estimated Area Sampled (m²) 1	Number of Samples in Composite 1	Replicate No. 1 of 1
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Reason For Sampling

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

Water Temp. (C) 14.2	D.O. (mg/l) 9.2	D.O. (%sat.) 89.8	pH (su) 8.1	Conductivity (umhos/cm) 620	Transparency (cm) >120
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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 type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" 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)	Average Stream Width of reach (m)
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 50 Gravel (ladybug to tennisball): 30
 Sand: 20 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____

Embeddedness of Substrate at Sample Site (%) 40
Canopy Cover at Sample Site (%) 80

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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			
- Filamentous Algae				Dissolved Oxygen			
- Planktonic Algae				Nutrients (P, N...)			
Iron Bacteria				Toxics: - Inorganic (Metals)			
Macrophytes				- Organic (PCBs, pesticides...)			
Slimes				Other - Specify:			
Other - Specify:				Sources of Stream Impacts			
				Bank Erosion			
				Point Source - Specify:			
				Pasturing of Livestock			
Physical				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>15% 13%</i>
Date Processed <i>9/18</i>	Specimens Saved <i>Subsample archived in ABL until Dec 2020</i>	

A3-58
B3-132 =190

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicolor</i>	L	x	10	Kluberantz 2016		
<i>Stenocranus interpunctatum</i>	L	III	3	"		
<i>Colopteryx maculata</i>	L	I	1	West, May 1996		
<i>Brachycentrus occidentalis</i>	L	I	1	Hilsenhoff 1995		
<i>Helicopsyche borealis</i>	L	II	2	Hilsenhoff 1995		
<i>Cheumatopsyche</i>	L	II-III	27	"		
<i>Hydropsyche</i>	L	XI	11	"	imm	N
<i>H. betteni</i>	L	II-III	38	Schm. Nils 1986		
<i>Pycnopsyche</i>	L	I	1	Hilsenhoff 1995		
<i>Optioservus</i>	L	X-III	14	Hilb. Schm. 1992	imm	N
<i>O. fastiditus</i>	L, IS	A.3	18	"		
<i>Stenelmis</i>	L	I	1	"		N
<i>S. crenata</i>	A	I	1	"		
<i>Idemeredromia</i>	L	I	1	Cant. Merr. 2008		
<i>Simulium tuberosum</i> species group	L	I	1	Adler et al 2004		
<i>Antocha</i>	L	II	2	Hilsenhoff 1995		
<i>Dicranota</i>	L	-III	8	"		
<i>Tipula</i>	L	I	1	"		
<i>Gammarus pseudolimnaeus</i>	A	III	4	Holsinger 1972		
<i>Trieladia</i>	A	I	1	Kolasa 1991		
<i>Spiliza chloromidae</i>	L	III-IV				
<i>Parametriocnemus</i>	P	I	1	Ferr. et al 2008		
<i>Diamesa</i>	L	III	4	Saath. Ander. 2013		
<i>Thienemannella</i>	L	I	1	Ander.+3 2013	dam	N
<i>Th. xena</i>	L	II	2	Bolton 2012		
<i>Tvetenia bavarica</i> group	L	-III	9	Bode 1983		
<i>Orthocladius (orthocladius)</i>	L	x	10	Ander.+3 2013		
<i>Cricotopus/orthocladius</i>	L	I	1	Ferr. et al. 2008	imm	N
<i>Chironominae</i>	L	II	2	Cranston 2013	imm	N
<i>Cladotanydarsus</i>	L	III	3	Epler et al. 2013		
<i>Polypedilum (Uresidilum) aviceps</i>	L	III	3	Bolton 2012		
<i>P.(U.) flavum</i>	L	II	2	"		
<i>Rheotanydarsus</i>	L	x-1	16	Epler et al. 2013		