

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

Station Summary

Waterbody Name EAST BRANCH ROOT RIVER CANAL	Waterbody ID Code 4900	Sample ID (YYYYMMDD-CY-FD) 20201006-52-04
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Sampling Location US bridge	Database Key 250470596
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SWIMS Station ID 10016033	SWIMS Station Name EAST BRANCH ROOT RIVER CANAL - 15 FT UPSTREAM OF CTH K RD (4 MIRD)
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Latitude 42.78619	Longitude -87.9806	Lat/Long Determination Method (circle) <u>SWIMS</u> SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) SOUTHEAST	Watershed Name ROOT RIVER	County RACINE
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Sample and Site Descriptors

Sample Collector (Last Name, First) Watkinson, Arthur	Project Name EAST DISTRICT NC STREAM STRATIFIED SITES 2019
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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

Total Sampling Time (min) 3	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: Natural Community

Water Temp. (C) 13.52	D.O. (mg/l) 10.00	D.O. (% sat.) 96.5	pH (su) 7.28	Conductivity (umhos/cm) 1500	Transparency (cm) 65
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Water Color <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <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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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.35m	Average Stream Width of reach (m) 5m
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 85 Gravel (ladybug to tennisball): 5
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 20 **Canopy Cover at Sample Site (%)** 100

under bridge rock

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Rachael Valeria</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>6.25 %</i>
Date Processed <i>10/5/21</i>	Specimens Saved <i>Subsample archived in ABC until Nov 2024</i>	

C1 A2
 Q4-28 Q3-45
 Q2-15 Q4-73
 Q3 Q2
 Q1 Q1

1601

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetidae	L		2	MCB 2019	dam	N
Baetis	L		1	"	dam	N
B. intercalaris	L		24	Klub 2016		
Caenis	L		4	MCB 2019	imm	
Heptageniidae	L	-	8	"	imm	N
Sirona	L	-	9	"	imm	N
S. interpunctatum	L		2	Klub 2016		
Hydropsychidae	L		1	MCB 2019	imm	N
Rheumatopsycha	L		23	"		
Hydropsyche	L	x	15	Hils 1985	imm	N
H. betteni	L	v	29	Schmidt 1986		
Chimarra obscura	L		2	Hils 1982		
Dubisiphia	L		1	MCB 2019		
Optio servus	L		2	"	imm	
Stenelmis	L	x-	15	"		
Hemeroptera	L		1	"		
Simulium <u>S. fibra</u>	P		1	"		Y
S. vittatum species complex 08110217	L		1	Adl et al 2004		
Gammarus pseudolimnoides	A		1	Hils 1972		
Speroneuridae	A		1	Peck et al 1990		
Dugesiidae	A		3	Thorp & 2016		
Spitz Chironomidae	L	 				
Cricotopus (Cricotopus) bianchus group	L		1	Adl et al 2013		
Parakiefferiella	L		2	"		
Chironomidae	L		1	"	imm	N
Polypedilum (vesipedilum) flavum	L	x	17	Bolton 2012		
Rheotanytarsus	L		1	Adl et al 2013		

<3 taxa, TVAL < 2.0