

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

Station Summary

Waterbody Name NORTH FORK EAU CLAIRE RIVER		Waterbody ID Code 2145400	Sample ID (YYYYMMDD-CY-FD) 20181022-61-01
Sampling Location DS of Culverts 1-2m			Database Key 169406457
SWIMS Station ID 613054	SWIMS Station Name EAU CLAIRE NORTH FORK - NE1/4OFNE1/4 SEC27 (CTH A)		
Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) LOWER CHIPPEWA		Watershed Name NORTH FORK EAU CLAIRE RIVER	County TAYLOR

Sample and Site Descriptors

Sample Collector (Last Name, First) CHRISTOPHER J WILLGER, MYCAL C RALEIGH	Project Name MACROINVERTEBRATE SPATIAL ANALYSIS
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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) 1.5 min	Estimated Area Sampled (m²) 1.5	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: Spatial Analysis

Water Temp. (C) 3.8	D.O. (mg/l) 12.11	D.O. (% sat.) 92	pH (su) 7.82	Conductivity (umhos/cm) 131	Transparency (cm) >120 cm
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Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" 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) 0.2	Average Stream Width of reach (m) 6m
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Composition of Substrate Sampled (Percent):

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

Embeddedness of Substrate at Sample Site (%) 10 **Canopy Cover at Sample Site (%)** 0

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

Comments US of culverts, stream is deeper run habitat with little flow. Sampled DS of culverts to use the small amount of flow. Stream narrows to ~2-3m wide 90m DS of culverts. Mussels found near culverts. Active cattle pasturing DS of culverts. US culverts stream protected in wetland setting.

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Kyla Wilcox	Taxonomist Derrick Jeffray	Estimated Percent of Sample Sorted 20%
Date Processed 6/20/19	Specimens Saved 154	

A3=7
 E1=3 } 104

B35 154

subsample archived in ABE until Aug 2022

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Allocaenia	L	III	3	Hils 1995		
Acerentoma pygmaea	L	HTT	5	Klob 2016		
Caenis	L	III	4	"	imm	N
C. latipennis	L	-	5	"		
Heptageniidae	L	III	3	"	imm	N
Stenacron	L	II	2	"	imm	N
S. interpinetatum	L	-1	6	"		
Leptophlebia	L	III	4	"	imm	
Taeniopterygidae	L	I	1	Hils 1995	imm	
Dubiraphia	L	I	1	Hils Schm 1992		N
D. robusta	A	I	1	"		
Stenelmis	L	I	1	"		
Maidinae	A	III	3	Birnfeld 1991		
Tidificinae (without hairs)	A	III	3	Klemm 1985		
Fossaria	A	I	1	Brown 1991		
Cyclopidae	A	I	1	Thorp Reg 2016		
Split A2 Chironomidae	L	0-III-IV	10			
Chironominae 0B330000	L	II	2	Cranston 2013	dam	N
Corynephora	L	I	1	And+3 2013		
Cladotanytarsus	L	Bx-1	56	Epl et al 2013		
Microtendipes pedellus group	L	III	3	"		
Stretochironomus	L	HTT	35	"		
Meropelopia	L	I	1	Corn Epl 2013		
Natarsia baltimora	L	I	1	Epler 2001		
Orthoclaadiinae 0B300000	L	II	2	Cranston 2013	mt, medt dam	N
Parakiefferiella	L	-II	7	And+3 2013		
Orthocladus (Orthocladus) oliveri	L	II	2	Bolton 2012		
Cricotopus	L	I	1	And+3 2013		
Paratanytarsus	L	I	1	Epl et al 2013	mt medt	N
P. species B	L	-	5	Hils unpubl		
Paratendipes	L	I	1	Epl et al 2013		
Polypedium (Polypedium) illinoense group	L	I	1	Bolton 2012		
P. (Oxypedium) flavum	L	I	1	"		
Tanytarsus	L	III	3	Epl et al 2013		