

Instructions: Bold fields must be completed.

20180925-35-01

Station Summary			
Waterbody Name NORTH FORK COPPER RIVER		Waterbody ID Code 1495200	Sample ID (YYYYMMDD-CY-FD) 9/25/2018
Sampling Location upstream 50 meters		Database Key 168314687	
SWIMS Station ID 10034379		SWIMS Station Name NORTH FORK COPPER RIVER - 50M US FROM CRANBERRY TRAIL	
Latitude 45.20726	Longitude -89.87705	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) UPPER WISCONSIN		Watershed Name COPPER RIVER	County LINCOLN

Sample and Site Descriptors	
Sample Collector (Last Name, First) ALAN WIRT	Project Name NORTH DISTRICT NC STREAM STRATIFIED SITES 2018

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) 90	Estimated Area Sampled (m <sup>2</sup> ) 15	Number of Samples in Composite 1	Replicate No. _____ of _____
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Reason For Sampling

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

Water Temp. (C) 15.8	D.O. (mg/l) 7.9	D.O. (% sat.) 80	pH (su) 7.78	Conductivity (umhos/cm) 105.3	Transparency (cm) 76 cm
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Water Color

Clear    
 Turbid    
 Stained

Estimated Stream Velocity (m/s)

Slow (< 0.15 m/s)    
 Moderate (0.15 m/s - 0.5 m/s)    
 Fast (> 0.5 m/s)

Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) .4 m	Average Stream Width of reach (m) 8 m
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Composition of Substrate Sampled (Percent):

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): \_\_\_\_\_ Gravel (ladybug to tennisball): \_\_\_\_\_  
 Sand: 70 Clay: \_\_\_\_\_ Silt/Muck: 20 Overhanging Vegetation: 50  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: 10 Coarse Woody Debris: 40 Other ( ): \_\_\_\_\_

Embeddedness of Substrate at Sample Site (%) \_\_\_\_\_ Canopy Cover at Sample Site (%) 0

poor site Not sure if I have 100 bugs

**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			
- Filamentous Algae				Dissolved Oxygen			
- Planktonic Algae				Nutrients (P, N...)			
Iron Bacteria				Toxics: - Inorganic (Metals)			
Macrophytes				- Organic (PCBs, pesticides...)			
Slimes				Other - Specify:			
Other - Specify:				<b>Sources of Stream Impacts</b>			
				Bank Erosion			
				Point Source - Specify:			
				Pasturing of Livestock			
<b>Physical</b>				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 *Poor site, unsure if 100 bugs were caught.*

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter <i>Keyla Wilcox</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>20%</i>
Date Processed <i>8/20/19</i>	Specimens Saved <i>150</i>	

*E2 399 D2:51 D3 150*

*Subsample analyzed in ABL until Oct 2022*



Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Taeniopteryx	L	-1	6	Hils 1995	imm	
Baetis intercalaris	L	i	1	Klub 2016		
Acerpenna pygmaea	L	ii	2	"		
Labobaetis propinquus	L	-iiii	9	"		
Procladius	L	i	1	"	dam	
Baetidae <i>Centropetiline</i>	L	ii	2	"	dam	N
Baetisca laurentina	L	-ii	7	"		
Caenis dimorpha	L	i	1	"		
Eurylophella	L	ii	2	"	imm	
Macaferentum	L	iii	3	"	imm	Y
M. mediopunctatum	L	-ii	7	"		
M. vicarium	L	-	5	"		
Leptophlebia	L	xii	12	"	imm	
Cheumatopsyche	L	iii	3	Hils 1995		
Ceratopsyche bronza	L	ii	2	Schm Hils 1986		
Hydroptilidae	L	i	1	Hils 1995		
Limnephilidae	L	ii	3	"	imm	
Platycentropus	L	i	1	"	imm	
Chimarra obscura	L	i	1	Hils 1982		
Polycentropus	L	i	1	Hils 1995		
Basiaeschna janata	L	i	1	Need et al 2002		
Calopteryx maculata	L	ii	2	West May 1996		
Erallagma	L	i	1	"	imm	
Dibriophia	L	i	1	Hils Schm 1992		N
D. minima	A	-	5	"		
D. vittata	A	iiii	4	"		
Macromphus glabratus	L	ii	2	"		
Stenelmis	L	ii	2	"		N
S. crenata	A	iiii	4	"		
Simulium venustum species complex	L	i	1	Adl et al 2004		
Hyalella arctica	A	B/	45	Soucek et al 2015		
Raaijdootea racovitzai racovitzai	A	i	1	Will 1972		
Belostomatidae	A	i	1	Hils 1984a		
Notonecta lunata	A	i	1	"		
Physa	A	iii	3	Thompson 2016		
Pisidium	A	ii	2	Mackie 2007		
<del>Spit 13 Chironomidae</del>	<del>L</del>	<del>TWD</del>				



