

Instructions: Bold fields must be completed.

Station Summary		
Waterbody Name PINE CREEK	Waterbody ID Code 79900	Sample ID (YYYYMMDD-CY-FD) 201609290801
Sampling Location		Database Key 134658323

SWIMS Station ID 10020831	SWIMS Station Name PINE CREEK - 200 FEET DOWNSTREAM FROM CTH T		
Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	
			Datum Used if using GPS WGS84 or NAD83

Basin (WMU) MANITOWOC	Watershed Name SOUTH BRANCH MANITOWOC RIVER	County CALUMET
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Sample and Site Descriptors	
Sample Collector (Last Name, First) MARY GANSBERG	Project Name NER LONG-TERM TREND WADEABLE REFERENCE STREAMS

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) 8	Estimated Area Sampled (m²) 4	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) 14.1	D.O. (mg/l) 7.1	D.O. (% sat.) 68.8	pH (su) 7.6	Conductivity (umhos/cm) 751	Transparency (cm)
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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 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) 0.1	Average Stream Width of reach (m) 5
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 80 Gravel (ladybug to tennisball): 10
 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 (%) 90

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter Andrew Kohlmann	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 13%
Date Processed 5/7/17	Specimens Saved subsample archived in ABL until Nov 2020	

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicolar</i>	L	xii	12	Kliker et al 2016		
<i>B. flavistriga</i> species complex	L	ii	2	"		
<i>Stenocranus interpunctatum</i>	L	ii	2	"		
<i>Cheumatopsyche</i>	L	Beri	66	Hilsenrath 1995		
<i>Hydropsyche</i>	L	ii	2	"	imm	N
<i>H. beuteni</i>	L	xiii	14	Schum. Hils. 1986		
<i>Ceratopsyche glossanae</i>	L	i	1	"		
<i>Oedrosia</i>	L	x xi	11	Hils. Schum. 1992	imm	N
<i>O. fastidius</i>	L, A	xiii	14	"		
<i>Dicranota</i>	L	xii	12	Hilsenrath 1995		
<i>Gammarus pseudolimnoides</i>	A	0	20	Hoblinger 1972		
Caecidotea	A	iii	3	Williams 1972	Per/imm	
Tricladina	A	iiii	4	Kobza 1991		
Tubificidae w/ capilliform chaetae	A	i	1	Klemm 1985		
<i>Laevarex fuscus</i>	A	i	1	Burch 1982		
<i>Sphaerium</i>	A	i	1	Burch 1972	imm	
Spitzia Chironomidae	L	ii				
<i>Tvelenia bavarica</i> group	L	i	1	Bork 1983		
<i>Cleodanyparsus</i>	L	i	1	Epler et al 2013		
<i>Paratanytarsus longistilus</i>	L	i	1	"		
<i>Rheptanytarsus</i>	L	iii	3	"		