

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name PINE CREEK		Waterbody ID Code 79900	Sample ID (YYYYMMDD-CY-FD) 2017 1006-08-02
Sampling Location			Database Key 149675587
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

Sample and Site Descriptors	
Sample Collector (Last Name, First) MARY GANSBERG	Project Name NER LONG-TERM TREND WADEABLE REFERENCE STREAMS

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	Estimated Area Sampled (m²) 2 x 2	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) 6.4	D.O. (% sat.) 62.2	pH (su) 7.5	Conductivity (umhos/cm) 722	Transparency (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)	Average Stream Width of reach (m)
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 80 Gravel (ladybug to tennisball): 20
 Sand: _____ 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 (%)** 50

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	Watershed	Factors that may be influencing Water Resource Integrity		Local	Watershed
Biological				Chemical			
Algae: - Diatoms / Periphyton				Chlorine			
- Filamentous Algae		N		Dissolved Oxygen		N	
- Planktonic Algae				Nutrients (P, N...)		P	
Iron Bacteria		N		Toxics: - Inorganic (Metals)			
Macrophytes		N		- Organic (PCBs, pesticides...)			
Slimes				Other - Specify:			
Other - Specify:				Sources of Stream Impacts			
				Bank Erosion		N	
				Point Source - Specify:		N	
				Pasturing of Livestock			
Physical							
Bank Erosion		N		Runoff: - Barnyard			
Channelization: - Upstream				- Construction		N	
- Downstream				- Cropland		N	
Hydraulic Scour / Channel Incision				- Urban		N	
Impoundment: - Upstream		N		Septic Systems			
- Downstream		U		Tile Drainage - Organic Soils			
Low Flow		N		- 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>Czarnecki, Kiersten</i>	Taxonomist <i>D. Mick-Jeffrey</i>	Estimated Percent of Sample Sorted <i>13</i>
Date Processed <i>25 October 2018</i>	Specimens Saved <i>Subsample archived in ABC until Jan 2022</i>	

E1: 87
 A3: 127

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis brunneicollis	L	-III	8	Kluth 2016		
Chironomus	L	IIII	25	Nils 1995		
Hydropsyche	L	IIII	4	"	imm	N
H. betteni	L	IIII	43	Schm Nils Kibbe		
Ceratopsyche strossneri	L	I	1	"		
Dibriophis	L	I	1	Nils Schm 1992		N
D. quadrinotata	A	I	1	"		
D. fastiditrus	L	XII	12	"	imm	N
D. fastiditrus	L	-III	8	"		
Nemerodromia	L	-II	7	Leut Merr 2008		
Simulium fibroflatum	L	"	2	Adl et al 2004		
S. jenningsi species group	L	"	2	"	imm	N
Tipula	L	IIII	4	Nils 1995		
Corynoneura	P	I	1	Ferret et al 2008		
Parametriocnemus	P	I	1	"		
Gammarus pseudoclimacis	A	xi	31	Hols 1972		
Caecidotea	A	"	2	Will 1972	fam/imm	
Naidinae	A	"	2	Brin Geld 1991		
Tubificinae (with hairs)	A	I	1	Klemm 1985		
Metagynophora	A	I	1	Thorp Rog 2016		
Entomebridae	A	I	1	Christ Srid 2008		
Salix Chironomidae	L	I-IIII				
Thienemanniella	L	I	1	Ander + 3 2013	imm	N
Niptanypus	L	I	1	Cran EPI 2013		
Orthocladiinae 08300000	L	I	1	Cranston 2013	imm	N
Diplocladius	L	I	1	Ander + 3 2013		
Limnephys	L	II	2	"		
Parametriocnemus	L	-I	6	"		N
Thienemanniella laurocapita	L	I	1	Bolton 2012		
Tretenia havana group	L	-I	6	Bode 1983		
Chironominae 08330000	L	IIII	4	Cranston 2013	mt/ndet	N
Micransectra	L	X-	15	Epl et al 2013		
Paratanytarsus sp. A	L	III	3	Nils unpubl		
P. sp. B	L	I	1	"		
Polypedium (Polypedium) laetum group	L	I	1	Bolton 2012		
Rheotanytarsus	L	XII	12	Epl et al 2013		