State of Wisconsin
Department of Natural Resources
PO Box 7291, Madison WI 53707-7291
dnr.w i.gov

Wadeable Macroinvertebrate Field Data Report

Form 3200-081 (R 8/14)

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

Station Summary

Waterbody Name	**Waterbody ID Code**	**Sample ID (YYYYMMDD-CY-FD)**
BRANCH RIVER	71300	20161018360 8

Sampling Location	**Database Key**
	134658327

SWIMS Station ID	**SWIMS Station Name**
363299	BRANCH RIVER AT N UNION RD (2)

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
		SWIMS SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
MANITOWOC	BRANCH RIVER	MANITOWOC

Sample and Site Descriptors

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

Sampling Device

- [X] 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)	**Estimated Area Sampled (m^2)**	**Number of Samples in Composite**	**Replicate No. ____ of ____**
2	0.7	1	

Reason For Sampling

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [X] Trend
- [ ] Other: _____

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
15.1	7.8	78.6	8.1	768	

Water Color

- [ ] Clear
- [X] Turbid
- [ ] Stained

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [X] 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)**
	0.2	17

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 60

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 (%)** 30

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

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter: Andrew Kohlmann	Taxonomist: Dimick, Jeffrey	Estimated Percent of Sample Sorted: 10
Date Processed: 5/8/17	Specimens Saved: Subsample archived in ABL until Nov 2020	

Wisconsin Department of Natural Resources
ABL SampleNum: **20161018-36-08**
Taxonomist: Dimick, Jeffrey

Waterbody: **Branch River**
SWIMS Database Key: **134658327**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Paracentrella media	L	I	1	Hilsenhoff 1995		
Taeniopteryx	L	III	3	"	imm	
Baetidae	L	I	1	Kluber-Lanz 2016	dam	N
Acerpenna pygmaea	L	II	2	"		
Caenis anceps	L	-	5	"		
Leuctra	L	88×II	92	"		
Stenonema femoratum	L	I	1	"		
Maccaffertium mediopunctatum	L	⊗-I	36	"		
Maccaffertium	L	×IIII	14	"	imm	n=2 Y
Leptophlebia	L	II	2	"	imm	
Isonychia	L	/	1	"	imm	
Chimarra obscura	L	II	2	Hilsenhoff 1995		
Lepidostoma pictipes	L	I	1	"		
Optioservus	L	-III	8	Hils. Schm. 1992	imm	N
O. fastiditus	L	×-	15	"		
Stenelmis	L	×IIII	14	"		N
S. crenata	A	I	1	"		
Psephenus herricki	L	-III	8	"		
Atherix variegata	L	-	5	Hilsenhoff 1995		
Tubificinae w/o capilliform chaetae	A	II	2	Klemm 1985		
Pisidium	A	-	5	Burch 1972		
Sphaerium	A	III	3	"		
Conchapelopia	L	II	3	Cran., Epler 2013		
Orthocladius (Orthocladius)	L	IIII	4	Anderson+3 2013		