State of Wisconsin
Department of Natural Resources
PO Box 7291, Madison WI 53707-7291
dnr.wi.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)**
BEAVER CREEK	2129400	20170802-18-04

Sampling Location	**Database Key**
~20m DS of bridge	148368952

SWIMS Station ID	**SWIMS Station Name**
183079	BEAVER CREEK AT 140TH AVE BDGE

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
44.814518	-91.24745	SWIMS SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
LOWER CHIPPEWA	LOWER EAU CLAIRE RIVER	EAU CLAIRE

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
MYCAL RALEIGH	WCR LONG-TERM TREND WADEABLE REFERENCE STREAMS

Sampling Device

- [X] D-Frame Kick Net
- [ ] Surber Sampler
- [ ] Eckman
- [ ] Ponar
- [ ] Artificial Substrate
- [ ] Hess Sampler
- [ ] Other: _____

Habitat Sampled

- [X] 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.**
(20sec) .5min	1 m^2	1	1 of 1

Reason For Sampling

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

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (%sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
13.35	10.36	99.1	7.05	91	

Water Color

- [X] 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)**
	.15	5m

Composition of Substrate Sampled (Percent):

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

Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 30 **Canopy Cover at Sample Site (%)** 0

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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
Biological		
Algae: - Diatoms / Periphyton	N	U
- Filamentous Algae	PL	U
- Planktonic Algae	N	U
Iron Bacteria	N	N
Macrophytes	N	U
Slimes	U	U
Other - Specify:		
Physical		
Bank Erosion	PH	U
Channelization: - Upstream	N	N
- Dow nstream	N	N
Hydraulic Scour / Channel Incision	PH	U
Impoundment: - Upstream	N	N
- Dow nstream	N	N
Low Flow	N	N
Sedimentation	PL	U
Sludge	N	N
Thermal	N	U
Turbidity	N	N
Other - Specify:		

Factors that may be influencing Water Resource Integrity	Local	Water-shed
Chemical		
Chlorine		
Dissolved Oxygen		
Nutrients (P, N...)		
Toxics: - Inorganic (Metals)		
- Organic (PCBs, pesticides...)		
Other - Specify:		
Sources of Stream Impacts		
Bank Erosion	U	U
Point Source - Specify:		
Pasturing of Livestock	N	
Runoff: - Barnyard	N	
- Construction	N	
- Cropland	N	
- Urban	N	
Septic Systems	N	N
Tile Drainage - Organic Soils	U	U
- Mineral Soils	U	U
Springs	U	U
Tributary(s)	U	U
Wetland	U	U
Other - Specify:		

Comments Stream experiences scouring during high rain events, most noticeably under bridge

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Sam Lamarche	Dimick, Jeffrey	13%
Date Processed	**Specimens Saved**	
10/31/18	Subsample archived in DBL until Jan 2022	

2E 3D

90 149 = 239

Wisconsin Department of Natural Resources
ABL SampleNum: **20171002-18-04**
Taxonomist: Dimick, Jeffrey

Waterbody: **Beaver Creek**
SWIMS Database Key: **148368952**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Allocapnia	L	I	1	Nils 1995		
Paracapnia angulata	L	-	5	Hitch 1974		
Nemoura trispinosa	L	I	1	Nils 1995		
Isoperla	L	III	3	"	imm	N
I. transmarina	L	-III	8	Nils 1982		
Pteronarcys	L	III	3	Nils 1995	imm	N
Pt. dorsata	L	I	1	Hart Mick 1952		
Taeniopteryx	L	-HH	10	Nils 1995	imm	
Baetidae	L	II	2	Kirb 2016	dam	N
Baetis brunneicolor	L	8-I	36	"		
B. tricaudatus	L	IIII	4	"		
B. flavistriga species complex	L	-	5	"		
Ephemerellidae	L	I	1	"	dam	N
Ephemerella	L	0-	25	"	imm	N
E. invaria	L	III	3	"		
Maccaffertium	L	II	2	"	imm	N
M. vicarium	L	IIII	4	"		
Leptophlebiidae	L	I	1	"	dam	N
Paraleptophlebia	L	8-II	37	"	imm	
Brachycentrus americanus	L	-I	6	Nils 1985		
Chematopsyche	L	I	1	Nils 1995		
Ceratopsyche	L	III	3	"	imm	N
C. sparna	L	-HH	17	Schm Nils 1986		
Glossosoma	P	I	1	Wiggins 2008		
Ordobrevia	L	II	2	Nils Schm 1992	imm	N
O. fastidiosus L, 2 A, 2	LA	IIII	4	"		
Lidodessus affinis	A	I	1	Nils 1994		
Atherix variegata	L	-II	7	Nils 1995		
Simulium tuberosum species complex	L	II	2	Adler et al 2004		
Pseudolimnophila	L	I	1	Nils 1995		
Tipula	L	II	2	"		
Caecidotea	A	I	1	Will 1972	imm	
Naidinae	A	I	1	Brinkhurst 1971		
Lumbriculus	A	II	2	Thorp Rogs 2010		
~~Split A3 Chironomidae~~	~~L~~	~~-I~~ JJD				
Tvetenia bavarica group	L	I	1	Bode 1983		

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Conchapelopia 08270700	L	I	1	Cran Epl 2013		
Orthocladiinae 08300000	L	I	1	Cranston 2013	imm	N
Brillia	L	I	1	Andert3 2013	imm	
Eukiefferella claripennis group	L	/	5	"		
Parametriocnemus	L	II	2	"		
Thienemanniella	L	I	1	"	imm	N
Thienemanniella	L	I	1	Bolton 2012		
Orthocladius (Orthocladius)	L	II	2	Andert3 2013		
Chironominae 08330000	L	I	1	Cranston 2013	imm	N
Cladotanytarsus	L	III	3	Epl et al 2013		
Micropsectra	L	I	1	"		
Paracladopelma	L	I	1	"		
Paratanytarsus longistilus	L	XII	12	"		
Polypedilum	L	II	2	"	imm	
Rheotanytarsus	L	I	1	"		
Tanytarsus	L	I	1	"		