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)**
BULL GUS CREEK	2926700	20171019-26-08

Sampling Location	**Database Key**
Downstream of FR 703 * 60 m	149418843

SWIMS Station ID	**SWIMS Station Name**
10037096	BULL GUS CREEK 100M DS OF FR 703

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
46.30317	-90.50584	SWIMS SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
LAKE SUPERIOR	TYLER FORKS	IRON

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
~~JON KLEIST~~ Cunningham, Joseph	NOR LONG-TERM TREND WADEABLE REFERENCE STREAMS

Sampling Device

- [X] 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)	**Estimated Area Sampled (m^2)**	**Number of Samples in Composite**	**Replicate No.** ____ **of** ____
1 min	1 m^2	3-20 second kicks	

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)**
8.4	7.9	67.1	6.4	51	>120

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	**Average Stream Depth of reach (m)**	**Average Stream Width of reach (m)**
0.3	(m/s) or f/s	0.3 m	2.5 m

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 30% Gravel (ladybug to tennisball): 40%

Sand: 20% Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

Aquatic Macrophytes: _____ Leaf Snags: 10% Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 20% **Canopy Cover at Sample Site (%)** 80%

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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		
- Downstream			- Construction		
Hydraulic Scour / Channel Incision			- Cropland		
Impoundment: - Upstream			- Urban		
- Downstream			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: Logan Cutler	Taxonomist: Dimicic, Jeffrey	Estimated Percent of Sample Sorted: C3 7%
Date Processed: 11/12/18	Specimens Saved: subsample archived in ABL until Feb 2022	

C3-261

Wisconsin Department of Natural Resources
ABL SampleNum: **20171019-26-08**
Taxonomist: Dimick, Jeffrey

Waterbody: **Bull Gus Creek**
SWIMS Database Key: **149418843**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Paracapnia angulata	L	1	1	Hitch 1974		
Nemouridae	L	IIII	4	Hils 1995	imm	Y
Amphinemura	L	III	3	"	imm	
Nemoura trispinosa	L	1	1	"		
Isoperla	L	1	1	"	imm	Y
I. slossonae	L	1	1	Hils 1982		
Acerpenna	L	III	3	Klub 2016	dam	N
A. macdunnoughi	L	XIIII	14	"		
Eurylophella	L	1	1	"	imm	
Maccaffertium	L	IIII	6	"	imm	N
M. vicarium	L	II	2	"		
Leptophlebiidae	L	1	1	"	dam	N
Leptophlebia	L	1	1	"	imm	
Paraleptophlebia	L	XIIII	14	"	dam/imm	
Cordulegaster	L	IIII	4	Need et al 2000	imm	N
C. maculata	L	1	1	"		
Glossosoma intermedium	L	1	1	Wym Mor 2000		
Cheumatopsyche	L	II	2	Hils 1995		
Hydropsyche	L	1	1	"	imm	N
H. betteni	L	0	20	Schm Hils 1986		
Lepidostoma	L	-1	6	Hils 1995		
Limnephilidae	L	II	2	"	imm	
Chimarra aterrima	L	IIII	4	Hils 1982		
Nyctiophylax	L	1	1	Hils 1995		
Neophylax	L	X1	11	"	imm	
Optioservus	L	-III	8	Hils Schm 1992	imm	N
O. fastiditus L.1 A.1	L,A	II	2	"		
Atherix variegata	L	1	1	Hils 1995		
Bezzia/Palpomyia	L	1	1	"		
Simulium luteosum species complex	L	1	1	Adler et al 2004		
Prosimulium	L	X-IIII	20	"	imm	
Antocha	L	II	2	Hils 1995		
Dicranota	L	IIII	4	"		
Tubificinae (with hairs)	A	1	1	Klemm 1985		
Lumbriculus	A	DI	21	Thorp Rogs 2016		
Metastylophora	A	1	1	"		
Laevapex fuscus	A	II	2	"		
Pisidium	A	1	1	Burch 1972		

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~~Subfam Chironomidae~~	L	~~IIII~~ JJD				
Chironomidae OB250000	L	I	1	Court Mess 2008	dam	N
Tanypodinae OB270000	L	I	1	Cranston 2013	mt indet	N
Nilotanypus	L	II	2	Cran Epl 2013		
Zavrelimyia	L	I	1	"		
Thienemanimyia group	L	I	1	"	imm	
Diplocladius	L	I	1	Ander+3 2013		
Parametriocnemus	L	-III	8	"		
Tvetenia bavarica group	L	III	3	Bode 1983		
Nanocladius	L	I	1	Ander+3 2013	imm	
Cladotanytarsus	L	-I	6	Epl et al 2013		
Micropsectra	L	I	1	"		
Microtendipes rydalensis group	L	I	1	"		
Paratanytarsus longistilus	L	III	3	"		
Polypedilum (Uresipedilum) aviceps	L	X	30	Bolton 2012		
Rheotanytarsus	L	31	31	Epl et al 2013		
Stempellinella	L	I	1	"		
Tanytarsus	L	D-II	27	"		