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)**
MONTREAL RIVER	2940300	20181101-26-01

Sampling Location	**Database Key**
300 m US TN RD 28	168311242

SWIMS Station ID	**SWIMS Station Name**
10032009	MONTREAL RIVER - BELOW TOWN RD. 28

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
46.41645	-90.21468	SWIMS SWDV (GPS)	(WGS84) or NAD83

Basin (WMU)	**Watershed Name**	**County**
LAKE SUPERIOR	MONTREAL RIVER	IRON

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
JON KLEIST	NORTH DISTRICT NC STREAM STRATIFIED SITES 2018

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.** ___ **of** ___
1.5	2	4	1 of 1

Reason For Sampling

- [ ] Least Impacted Reference
- [X] 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)**
4.17	13.1	100.1	7.0	102	>120

Water Color

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

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [ ] Moderate (0.15 m/s - 0.5 m/s)
- [X] Fast (> 0.5 m/s)

Measured Velocity (circle units)	**Average Stream Depth of reach (m)**	**Average Stream Width of reach (m)**
0.7 (m/s) or f/s	0.4	12

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 70 Gravel (ladybug to tennisball): 30

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

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

Embeddedness of Substrate at Sample Site (%) 0 **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~~ PL	~~N~~ PL
- Filamentous Algae	N	N
- Planktonic Algae	N	N
Iron Bacteria	N	PL
Macrophytes	N	N
Slimes	N	N
Other - Specify:		
Physical		
Bank Erosion	N	PL
Channelization: - Upstream	N	N
- Downstream	N	N
Hydraulic Scour / Channel Incision	N	N
Impoundment: - Upstream	N	N
- Downstream	PL	PL
Low Flow	N	N
Sedimentation	N	N
Sludge	N	N
Thermal	N	N
Turbidity	N	N
Other - Specify:		

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter: Johanna Erickson	Taxonomist: Dimick, Jeffrey	Estimated Percent of Sample Sorted: 13%
Date Processed: 8/29/2019	Specimens Saved: Subsample archived in ABL until Nov 2022	

D1 55 | C3 91 | Total: 146

Wisconsin Department of Natural Resources
ABL SampleNum: **20181101-26-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **Montreal River**
SWIMS Database Key: **168311242**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Allocapnia	L	I	1	Hils 1995		
Paracapnia angulata	L	5	30	Hitch 1974		
Acroneuria lycorias	L	III	3	"		
Isoperla signata	L	-II	7	Hils 1982		
Baetis tricaudatus	L	I	1	Klub 2016		
Acentrella turbida	L	IIII	4	"		
Acerpenna pygmaea	L	I	1	"		
Ephemerella subvaria	L	III	3	"		
Epeorus vitreus	L	I	1	"		
Leucrocuta	L	-II	7	"		
Heptageniidae	L	-	5	"	imm	N
Maccaffertium	L	II	2	"	imm	Y
M. vicarium	L	II	2	"		
Paraleptophlebia	L	0-III	30	"	dam/imm	N
P. mollis	L	III	3	"		
Ceratopsyche morosa	L	III	3	Schm Hils 1986	imm	N
C. m. bifida form	L	I	1	"		
C. m. morosa form	L	I	1	"		
C. sparna	L	I	1	"		
Neophylax	L	I	1	Hils 1995	imm	
Optioservus	L	XIIII	14	Hils Schm 1992	imm	
O. fastiditus	L	III	3	"		
Stenelmis	L	I	1	"		
Atherix variegata	L	I	1	Hils 1995		
Lumbriculus	A	8 III	44	Thorp Rog 2016		
Laevapex fuscus	A	I	1	"		
Gyraulus deflectus	A	I	1	Burch 1989		
~~Split A3 Chironomidae~~	~~L~~	~~I=10~~				
Conchapelopia 08270700	L	I	1	CranEpl 2013		
Eukiefferiella brehmi group	L	I	1	And+3 2013		
Thienemanniella xena	L	I	1	Bolton 2012		
Cladotanytarsus	L	I	1	Ep et al 2013		
Microtendipes pedellus group	L	I	1	"		
Polypedilum (Uresipedilum) aviceps	L	X-III	18	Bolton 2012		
P. (U.) flavum	L	II	2	"		