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)**
EIGHTEENMILE CREEK	2895900	20211007-04-04

Sampling Location	**Database Key**
	293547171

SWIMS Station ID	**SWIMS Station Name**
043097	EIGHTEEN MILE CREEK - 20 M UPSTREAM OLD HWY 63 - STATION #3

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
46.36021	-91.12518	SWIMS SWDV (GPS)	(WGS84) or NAD83

Basin (WMU)	**Watershed Name**	**County**
LAKE SUPERIOR	WHITE RIVER	BAYFIELD

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
JOSEPH CUNNINGHAM	NOR LONG-TERM TREND WADEABLE REFERENCE STREAM

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	1 / 1

Reason For Sampling

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

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
13.8	9.9	98.8		120	>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 m/s **or** f/s)	**Average Stream Depth of reach (m)**	**Average Stream Width of reach (m)**
	0.4	8 m

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 10 Rubble (tennisball to basketball): 60 Gravel (ladybug to tennisball): 20

Sand: 10 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 (%)** 40

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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		
- Filamentous Algae		
- Planktonic Algae		
Iron Bacteria		
Macrophytes		
Slimes		
Other - Specify:		
Physical		
Bank Erosion	PH	U
Channelization: - Upstream		
- Downstream		
Hydraulic Scour / Channel Incision		
Impoundment: - Upstream		
- Downstream		
Low Flow		
Sedimentation		
Sludge		
Thermal		
Turbidity		
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	PH	U
Point Source - Specify:		
Pasturing of Livestock		
Runoff: - Barnyard		
- Construction		
- Cropland		
- Urban		
Septic Systems		
Tile Drainage - Organic Soils		
- Mineral Soils		
Springs		
Tributary(s)		
Wetland		
Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Reed, Kayla	Dimick, Jeffrey	(R1) 15, 16 % | 12.5 %
Date Processed	**Specimens Saved**	
(R1) 10-19-22 | (R2) 10-20-22	(R1) 133 | 131 subsamples archived in ABL info	Jan 2026

(R1) C2 q2:11 q4:16 q1:10 q3:19 | D4 q4:12 q3:6 q2:6 q1:11 | A8 q2:24 q1:18 q3 q4:

(R2) A2 q3:10 C3 q3:22 q4:16 q2:21 q2 29 q4 q1:22 q1 11 | 69 DB

Wisconsin Department of Natural Resources
ABL SampleNum: **20211007-04-04**
Taxonomist: Dimick, Jeffrey

Waterbody: **Eighteenmile Creek**
SWIMS Database Key: **293547171**

Taxa	Life Stage	Organism Count Rep 1	Rep 2	Rep 3	Taxonomic Reference	Condition	Unique Taxon
Baetis tricaudatus	L	1	0		KWb 2016		
Ephemerella	L	0	2		MCB 2019	imm	Y
E. subvaria	L	9	10		KWb 2016		
Epeorus vitreus	L	4	3		"		
Heptagenia pulla	L	4	2		"		
Rhithrogena	L	22	21		MCB 2019	dam/imm	N
R. impersonata	L	1	2		KWb 2016		
Leptophlebiidae	L	0	1		MCB 2019	dam	N
Neoleptophlebia	L	8	6		"	dam	
Paracapnia angulata	L	1	0		Hilsenhoff 1974		
Acroneuria lycorias	L	2	0		"		
Isogenoides frontalis	L	3	4		Hilsenhoff 1973		
Isoperla transmarina	L	5	3		Hilsenhoff 1982		
Pteronarcys	L	1	1		MCB 2019	imm	N
P. pictetii	L	1	1		Myers Kondratieff 2017		
Taeniopteryx	L	5	4		MCB 2019	imm	
Brachycentrus americanus	L	1	0		Hilsenhoff 1985		
Glossosoma	L	15	24		MCB 2019	imm	N
G. intermedium	L	3	3		Wiggins Mackay 2000		
Ceratopsyche slossonae	L	1	0		Schmude Hilsenhoff 1986		
C. sparna	L	0	1		"		
Lepidostoma	L	2	2		MCB 2019		
Goera stylata	L	2	1		Hilsenhoff 1995		
Rhyacophila	L	1	2		MCB 2019	imm	N
R. fuscula	L	0	3		Roth Mackay 2001		
Neophylax	L	2	1		MCB 2019		
Trichoptera	L	1	0		"	imm	N
Optioservus	L	4	5		"	imm	N
O. fastiditus	A	0	1		Hilsenhoff Schmude 1992		
O. trivittatus R1 L.1 A.2 R2 L.2 A.1	L,A	3	3		"		
Atherix variegata	L	16	13		Hilsenhoff 1995		
Simulium tuberosum species complex	L	0	2		Adler et al 2004		
Antocha	L	2	1		MCB 2019		
Pisidium	A	1	0		Thorp Rogers 2016		
Aulodrilus pluriseta	A	0	1		Kathman Brinkhurst 1998		
~~Subfam. Chironomidae~~	~~L~~	~~12~~	~~9~~ 350				
Orthocladiinae	L	3	0		Andersen et al 2013	imm	N
Eukiefferiella	L	0	1		"	imm	Y
E. claripennis group	L	1	0		"		

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Nanocladius (Plecopteracolothrix)	L	6	6		Anderet al 2013	imm	
Parakiefferiella	L	1	0		"		
Rheosmittia	L	0	1		"		
Chironomidae	L	1	0		"	imm	Y
Neostempellina reissi	L	3	1		"		