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)**
FLUME CREEK	286600	20221027-50-03

Sampling Location: Riffles below and upstream bridge

Database Key: 323921470

SWIMS Station ID	**SWIMS Station Name**
10012724	FLUME CREEK\ STONEY HILL ROAD

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

Basin (WMU)	**Watershed Name**	**County**
WOLF RIVER	UPPER LITTLE WOLF RIVER	PORTAGE

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
DAVID BOLHA	UPPER LITTLE WOLF RIVER TWA 2022

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 ____**
4	2.5	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)**
7.8	11.9	102	8.1	477	120

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)**
	0.3	7

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 10 Rubble (tennisball to basketball): 50 Gravel (ladybug to tennisball): 40

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

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

Embeddedness of Substrate at Sample Site (%) 10 **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	N
- Filamentous Algae	PL	PL
- Planktonic Algae	N	N
Iron Bacteria	N	N
Macrophytes	N	PL
Slimes	N	N
Other - Specify:		
Physical		
Bank Erosion	PL	PL
Channelization: - Upstream	N	N
- Downstream	N	N
Hydraulic Scour / Channel Incision	N	N
Impoundment: - Upstream	N	PL
- Downstream	N	N
Low Flow	N	N
Sedimentation	PL	PL
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	PL	PL
Point Source - Specify:	N	N
Pasturing of Livestock	PL	PL
Runoff: - Barnyard	PL	PL
- Construction	N	N
- Cropland	N	PL
- Urban	N	N
Septic Systems	N	N
Tile Drainage - Organic Soils	N	N
- Mineral Soils	N	N
Springs	N	N
Tributary(s)	PL	PL
Wetland	N	N
Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Undlin, Dylan	Dimick, Jeffrey	3.9%
Date Processed	**Specimens Saved**	
3/17/23	Subsample 252 archived in WSC until Jun 2026	

B2
q4→ 81
q3→
q1→
q2→

D1
q1→ 130
q2→
q4→
q3→

B2Q3
q4→ 21
q2→ 20
q1→
q3→

Wisconsin Department of Natural Resources
ABL SampleNum: **20221027-50-03**
Taxonomist: Dimick, Jeffrey

Waterbody: **Flume Creek**
SWIMS Database Key: **323921470**

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
1/17	Baetis tricaudatus	L	x-11	17	Kluberbanz 2016		
2/24	Ephemerella	L	8-11	47	MCB 2019	imm	N
3/24	E. invaria	L	x	10	Kluberbanz 2016		
4/21	Teloganopsis deficiens	L	8-11	47	MCB 2019		
5/22	Leucrocuta	L	1	1	"		
	Maccaffertium	L	x11	12	Kluberbanz 2016		
6/34	M. modestum	L	x11	12	"		
7/39	Neoleptophlebia	L	-	5	MCB 2019	imm	
8/140	Paraleptophlebia memorata	L	1	1	Hilsenhoff 1995		
14	Isoperla signata	L	1	1	Hilsenhoff 1982		
142	I. transmarina	L	1	1	"		
143	Taeniopteryx burksi	L	1	1	Fall Stew 1980		
145	Brachycentrus occidentalis	L	11	2	Hilsenhoff 1985		
147	Micrasema rusticum	L	11	2	"		
148	Glossosoma intermedium	L	1	1	Wiggins Mose 2000		
	Hydropsychidae	L	1	1	MCB 2019	imm	N
159	Ceratopsyche sparna	L	x1	11	Schm Hils 1986		
	Cheumatopsyche	L	1	1	MCB 2019		
160	Leucotrichia pictipes	L	1	1	Hilsenhoff 1995		
189	Lepidostoma	L	0-111	29	MCB 2019		
	Neophylax	L	1	1	"	imm	
190	Nigronia serricornis	L	1	1	Wanzer 1966		
	Optioservus	L	0	20	MCB 2019	imm	N
	O. fastiditus	L	-111	8	Hils Schm 1992		
192	O. trivittatus L.1 A.1	L,A	11	2	"		
	Stenelmis	L	1	1	MCB 2019		
196	Atherix variegata	L	111	4	Hilsenhoff 1995		
	Hemerodromia	L	-	5	MCB 2019		
	Simulium vittatum species complex OBI10218	L	1	1	Adler et al 2004		
	Antocha	L	11	2	MCB 2019		
	Dicranota	L	1	1	"		
	Ferrissia rivularis	A	1	2	Thorp Rog 2016		
	~~Split Az Chironomidae~~	L	-1-33()				
	Eukiefferiella brehmi group	L	1	1	Ander et al 2013		
	Paramerocnemus	L	1	1	"		
	Cryptochironomus	L	1	1	"		

>3taxa, TVAL ≤ 2.0
196 > (0.1 x 244)

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Nilotanypus	L	1	1	Anderson et al 2013		
Potthastia gaedii group	L	1	1	"		
Cricotopus (Cricotopus) tremulus group	L	1	1	"		
Micropsectra	L	II	2	"		
Microtendipes pedellus group	L	1	1	"		