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	20221018-69-05

Sampling Location: DNR Property US Lund Rd Crossing

Database Key: 323921390

SWIMS Station ID	**SWIMS Station Name**
10022531	FLUME CREEK - LUND RD.

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
N44.59892	W89.20325	SWIMS SWDV (GPS)	(WGS84) or NAD83

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

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 ____**
3	20	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)**
6.56	12.6	105.3	8.3	488	120

Water Color

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

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [X] 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	8

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 (%) 20 **Canopy Cover at Sample Site (%)** 90

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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	N	N
- Planktonic Algae	N	N
Iron Bacteria	N	N
Macrophytes	N	N
Slimes	N	N
Other - Specify:		
Physical		
Bank Erosion	N	N
Channelization: - Upstream	N	N
- Downstream	N	N
Hydraulic Scour / Channel Incision	N	N
Impoundment: - Upstream	N	N
- Downstream	N	PL
Low Flow	N	N
Sedimentation	N	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	N	N
Point Source - Specify:	N	N
Pasturing of Livestock	N	N
Runoff: - Barnyard	N	N
- 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)	N	PL
Wetland	N	N
Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Reed, Kayla	Dimick, Jeffrey	20.3%
Date Processed	**Specimens Saved**	
13-1-2023	275 Subsample archived in ABL until Jun 2026	

D1 Q1-19 B3 Q2-21 D4Q3-27 A4Q2-28 D3 CS
Q4-13 Q4-31 Q2-25
Q2-> Q1-> 80 Q1-19
Q3-> Q3- Q4-~~28~~12

Wisconsin Department of Natural Resources
ABL SampleNum: **20221018-69-05**
Taxonomist: Dimick, Jeffrey

Waterbody: **Flume Creek**
SWIMS Database Key: **323921390**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis flavistriga species complex	L	I	1	Kluberdanz 2016		
B. tricaudatus	L	I	1	"		
Ephemerella	L	0-I	26	MCB 2019	imm	N
E. invaria	L	I	1	Kluberdanz 2016		
Eurylophella	L	I	1	MCB 2019	imm	
Teloganopsis deficiens	L	0-III	28	"		
Maccaffertium	L	IIII	5	Kluberdanz 2016	imm	N
M. modestum	L	XII	12	"		
M. vicarium	L	II	2	"		
Paracapnia angulata	L	II	2	Hitchcock 1974		
Acroneuria	L	I	1	MCB 2019	imm	
Paragnetina media	L	-II	7	Hilsenhoff 1995		
Isoperla	L	I	1	MCB 2019	imm	N
I. transmarina	L	I	1	Hilsenhoff 1982		
Taeniopteryx	L	III	3	MCB 2019	imm	
Brachycentrus americanus	L	I	1	Hilsenhoff 1985		
B. occidentalis	L	-II	7	"		
Glossosoma intermedium	L	IIIIIII	9	Wiggins Morse 2009		
Protoptila	L	II	2	MCB 2019		
Helicopsyche borealis	L	II	2	Hilsenhoff 1995		
Ceratopsyche slossonae	L	I	5	Schm Hils 1986		
C. sparna	L	8x(III)	54	"		
C. walkeri	L	I	1	"		
Cheumatopsyche	L	II	2	MCB 2019		
Lepidostoma	L	0-	25	"		
Neophylax	L	-I	6	"	imm	
Nigronia serricornis	L	I	1	Neunzig 1966		
optiosevus	L	0 0-	45	MCB 2019	imm	
O. fasciatus L, E A, Z	L,A	X	10	Hils Schm 1992		
O. trivittatus	L	III	3	"		
Atherix variegata	L	III	3	Hilsenhoff 1995		
Dixa sp.	P	II	2	MCB 2019		N
Hemerodromia	L	III	3	"		
Simulium tuberosum species complex	L	-II	7	Adler et al 2004		
S. venustum species complex	L	I	1	"		
Gammarus pseudolimnaeus	A	-I	6	Holsinger 1972		
Hemidrilidae	A	I	1	Thorp Rog 2016		

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Megadrili = Metasyngnatha	A	I	1	Thorp Rog 2006		
Diamesa	L	I	1	Andersetal 2013		
Paramerioemus	L	III	3	"		
Rheotanytarsus	L	-II	7	"		