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)**
Unnamed trib at Tower Drive	5015822	20201006-72-62

Sampling Location	**Database Key**
~30m downstream Tower Drive culvert	250467600

SWIMS Station ID	**SWIMS Station Name**
10053893	UNNAMED AT TOWER DRIVE

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
44.612563	-89.959458	SWIMS SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
CENTRAL WISCONSIN	MILL CREEK	WOOD

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
TAYLOR HASZ	MILL CREEK TWA 2020 (319 PROJECT-FUNDED)

Sampling Device

- [X] D-Frame Kick Net
- [ ] Surber Sampler
- [ ] Eckman
- [ ] Ponar
- [ ] Artificial Substrate
- [ ] Hess Sampler
- [ ] Other: _____

Habitat Sampled

- [ ] Riffle
- [X] Run
- [ ] Pool
- [X] 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.**
10	3	1	1 of 1

Reason For Sampling

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

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
9.62	4.32	38.1	7.23	785	

Water Color

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

Estimated Stream Velocity (m/s)

- [X] 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)**
	0.5	1.5

Composition of Substrate Sampled (Percent):

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

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

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

Embeddedness of Substrate at Sample Site (%) 20 **Canopy Cover at Sample Site (%)** 95

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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	PL	U
- Filamentous Algae	PL	U
- Planktonic Algae	PL	U
Iron Bacteria	N	N
Macrophytes	PL	N
Slimes	N	N
Other - Specify:		
Physical		
Bank Erosion	PL	PL
Channelization: - Upstream	N	PL
- Downstream	N	PL
Hydraulic Scour / Channel Incision	N	U
Impoundment: - Upstream	N	N
- Downstream	N	N
Low Flow	PL	U
Sedimentation	PL	U
Sludge	N	U
Thermal	N	U
Turbidity	N	U
Other - Specify:		

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

Comments
sampled 30 m downstream of Tower Drive. Stream lacking suitable riffle habitat so run and overhanging vegetation was sampled.

Special Instructions for Laboratory

4.7 + .5 = 5.2 hrs

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Reed, Kayla	Dimick, Jeffrey	21.7%
Date Processed	**Specimens Saved**	
~~5-2~~ 5-3-2021	Subsample	134 archived in AOL until Jul 2024

B3Q4 → 4
E3Q2 → 6
B3Q3 → 10
E3Q3 → 9
B3Q1 → 7
E3Q1 → 23
B3Q2 → ~~25~~ 10
E3Q4 → 25
C1Q1 → 9
C1Q2 → 5
C1Q3 → 8
C1Q4 → 2
A1Q4 → 20
A1Q2 →
A1Q3 →
A1Q1 →

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Wisconsin Department of Natural Resources
ABL SampleNum: **20201006-72-02**
Taxonomist: Dimick, Jeffrey

Waterbody: **Unnamed Tributary (5015822) to Mill Creek**
SWIMS Database Key: **250467600**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Caenis	L	0111	23	MCB 2019	imm	N
C. latipennis	L	1	6	Kich 2016		
Caenagrionidae (Coenag/Enallag)	L	11	2	MCB 2019	imm	
Corduliidae	L	11	2	"	dam	
Oecetis	L	11	2	"	imm	
Limnephilidae	L	11	2	"	dam/imm	
Limnephilus	L	1	1	"		
Platycentropus	L	1	1	"		
Ptilostomis	L	1	1	"		
Dubiraphia	L	0-111	30	"		N
D. minima	A	11	2	Ide Schm 1992		
Optioservus	L	1	1	MCB 2019	imm	
Anopheles	L	1	1	"		
Chrysops	L	11	2	"		
Pilaria	L	1	1	"		
Hyalella azteca	A	111	3	Soucek et al 2015		
Coleoptera	A	1	1	Thorp Rog 2016	imm	
Lepidoptera	L	1	1	~~Thorp~~ Johnston 1987		
Chironominae (Tanytarsini)	P	11	2	MCB 2019	dam	N
Entomobryomorpha	A	11	2	"		
Neumania	A	1	1	Peck et al 1980		
Erpobdellidae	A	1	1	Thorp Rog 2016	dam	N
Erpobdella punctata punctata	A	1	1	Klemm 1985		
Glossiphonia elegans = G. complanata	A	11	2	Thorp Rog 2016		
Helobdella echoensis	A	111	3	Sadam et al 2018		
Helisoma anceps	A	11	2	Burch 1989		
Fossaria	A	1	1	"		
Pisidium	A	X	10	Thorp Rog 2016		
Gyraulus circumstriatus	A	1	1	"		
Cyclopidae	A	1111	4	"		
Hydridae	A	1	1	"		
Dicranota	L	1	1	MCB 2019		
Naidinae	A	X	10	Kath Bon 1998		
Tubificinae (without hairs)	A	1111	6	"		
~~Split A2 Chironomidae~~	L	~~8 111~~				
Corynoneura	L	1	1	And et al 2013		
Dicrotendipes	L	8111 11	27	"		

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Micropsectra pedellus group	L	II	2	And et al 2013		
Procladius	L	II	2	"	imm	N
P. (Holotanypus)	L	/	5	"		
Zavrelimyia	L	I	1	"		
Limnophyes	L	I	1	"		
Chironomus	L	I	1	"		
JJ ~~Dicrotendipes~~ Endochironomus	L	II	2	"	imm	
Micropsectra	L	II	2	✓		
Paratendipes	L	III	3	"		
Phaenopsectra obediens group	L	I	1	Epler 2001	imm	
Polypedilum	L	I	1	And et al 2013	imm	Y
P. (Tripodura) halterale group	L	I	1	Bolton 2012		
Paratanytarsus grodhausi A	L	/	2	Hills unpubl		
Stictochironomus	L	IIII	4	And et al 2013		