NBM-02

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)**
NORTH BRANCH MILWAUKEE RIVER	27100	20201013-60-B1

Sampling Location	**Database Key**
US bridge	251163109

SWIMS Station ID	**SWIMS Station Name**
10008861	NORTH BRANCH MILWAUKEE RIVER AT HWY. 28 CASCADE

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
43.6583	-88.0077	SWIMS (SWDV) GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
MILWAUKEE RIVER	NORTH BRANCH MILWAUKEE RIVER	SHEBOYGAN

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
Schmitz, Amanda	MILWAUKEE RIVER BASIN AQUATIC MACROINVERTEBRAT

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** ____
2	1		

Reason For Sampling

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [ ] Trend
- [x] Other: Milw. River Supl.

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
9.45	11.18	98.2	X	759.1	75

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)
- [x] 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)**
	.3	~3.5

Composition of Substrate Sampled (Percent):

Bedrock:	Boulders (basketball or larger):	Rubble (tennisball to basketball):	Gravel (ladybug to tennisball):
		50	30

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

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

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

pH not working

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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		
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		
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
Logan Cutler	Dimick, Jeffrey	10%
Date Processed	**Specimens Saved**	
1/26/2021	126 subsample archived in ABL until Feb 2024	

27 A2Q2 11 D3Q2 18 A2Q3 48 D3Q1,3 22 A2Q1

2.5 hrs

Wisconsin Department of Natural Resources
ABL SampleNum: **20201013-60-31**
Taxonomist: Dimick, Jeffrey

Waterbody: **North Branch Milwaukee River**
SWIMS Database Key: **251163109**

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
	Baetis brunneicolor	L	I	1	Klub 2016		
1/1	B. tricaudatus	L	I	1	"		
	Diphetor hageni	L	I	1	MerrCummB 2019		
	Maccaffertium mediopunctatum	L	I	1	Klub 2016		
2/3	M. vicarium	L	III	3	"		
3/8	Paraleptophlebia	L	/	5	"		
4/10	Isoperla signata	L	II	2	Hils 1982		
5/11	Protoptila	L	I	1	MerrCummB 2019		
	Hydropsychidae	L	II	2	"	rmm	N
	Ceratopsyche bronta	L	II	2	SchmHils 1986		
	C. slossonae	L	I	1	"		
	Cheumatopsyche	L	XX	15	MerrCummB 2019		
	Hydropsyche	L	II	2	Hils 1995	rmm	N
	H. betteni	L	-II	7	SchmHils 1986		
	Chimarra aterrima	L	-III	8	Hils 1982		
	Optioservus	L	-II	7	MerrCummB 2019	rmm	N
	O. fastiditus	L	IIII	4	Hils Schm 1992		
	Stenelmis	L	-IIII	9	MerrCummB 2019		
	Eukiefferiella (E. devonica group)	P	III	3	"		N
	Tvetenia	P	IIII	4	"		N
	Nemerodromia	L	II	2	"		
	Neoplasta	L	I	1	"		
	Parametriocnemus	P	I	1	"		
	Simulium venustum species complex	L	I	1	Adl et al 2004		
	S. vittatum species complex 08110218	L	III	4	"		
	Crangonyx pseudogracilis	A	III	3	Hobbs 1972		
	Caecidotea intermedia	A	II	2	Will 1972		
	Hygrobates	A	I	1	Peck et al 1990		
11/7	Dugesiidae	A	III	3	ThorpRos 2016		
	Antocha	L	I	1	MerrCummB 2019		
	~~Split A2 Chironomidae~~	L	~~III~~				
	Diamesa	L	I	1	Adl et al 2013		
6/13	Pagastia	L	II	2	"		
	Eukiefferiella devonica group	L	III	3	"		
	Tvetenia bavarica group	L	IIII	4	Bode 1983		
	Microtendipes pedellus group	L	I	1	Adl et al 2013		
	Conchapelopia 08270700	L	I	1	"		

>3 taxa, TVAL ≤2.0

13 > (0.1 × 110)

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Brillia	L	|	1	And et al 2013	imm	
Eukiefferiella brehmi group	L	||	2	"		
Orthocladius (Orthocladius)	L	X-|||	18	"		