

HDC-01

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) Page 1 of 2

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name
UNNAMED
Waterbody ID Code
26500
Sample ID (YYYYMMDD-CY-FD)
20201013-46-01

Sampling Location
western milwaukee river riffle
Database Key
249875086

SWIMS Station ID
10034831
SWIMS Station Name
HAWTHORNE DRIVE CREEK NEAR CONFLUENCE OR MILWAUKEE RIVER

Latitude
43.4406
Longitude
-87.9714
Lat/Long Determination Method (circle)
SWIMS SWDV GPS
Datum Used if using GPS
WGS84 or NAD83

Basin (WMU)
MILWAUKEE RIVER
Watershed Name
MILWAUKEE RIVER SOUTH
County
OZAUKEE

Sample and Site Descriptors

Sample Collector (Last Name, First)
CRAIG HELKER
Project Name
MILWAUKEE RIVER BASIN AQUATIC MACROINVERTEBRATE

Sampling Device

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

Habitat Sampled

- Riffle
 Other
 Littoral Zone
 Run
 Shoreline Composite
 Profundal Zone
 Pool
 Proportionally-Sampled Habitat
 Wetland

Total Sampling Time (min)
2
Estimated Area Sampled (m²)
2
Number of Samples in Composite
2
Replicate No. _____ of _____

Reason For Sampling

- Least Impacted Reference
 Control Site
 Baseline
 Trend
 Impact / Treatment Site
 Other: Milwaukee River Study

Water Temp. (C)
9.95
D.O. (mg/l)
10.42
D.O. (% sat.)
93.1
pH (su)

Conductivity (umhos/cm)
1116
Transparency (cm)
470

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)
.4
Average Stream Width of reach (m)
2

Composition of Substrate Sampled (Percent):

Bedrock: _____ **Boulders** (basketball or larger): _____ **Rubble** (tennisball to basketball): 40 **Gravel** (ladybug to tennisball): 20
Sand: 20 **Clay:** _____ **Silt/Muck:** _____ **Overhanging Vegetation:** 20
Aquatic Macrophytes: _____ **Leaf Snags:** _____ **Coarse Woody Debris:** _____ **Other (_____): _____**

Embeddedness of Substrate at Sample Site (%) 60 **Canopy Cover at Sample Site (%)** 70

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	Watershed	Factors that may be influencing Water Resource Integrity	Local	Watershed
Biological			Chemical		
Algae: - Diatoms / Periphyton			Chlorine		
- Filamentous Algae			Dissolved Oxygen		
- Planktonic Algae			Nutrients (P, N...)		
Iron Bacteria			Toxics: - Inorganic (Metals)		
Macrophytes			- Organic (PCBs, pesticides...)		
Slimes			Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion		
Physical			Point Source - Specify:		
Bank Erosion			Pasturing of Livestock		
Channelization: - Upstream			Runoff: - Barnyard		
- Downstream			- Construction		
Hydraulic Scour / Channel Incision			- Cropland		
Impoundment: - Upstream			- Urban		
- Downstream			Septic Systems		
Low Flow			Tile Drainage - Organic Soils		
Sedimentation			- Mineral Soils		
Sludge			Springs		
Thermal			Tributary(s)		
Turbidity			Wetland		
Other - Specify:			Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Coash, Natalie</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>25% 26/100 26/107</i>
Date Processed <i>1/18/2021</i>	Specimens Saved <i>Subsample archived in ABL until Feb 2024</i>	

E3:4 - 10
 C3:4 - 21
 E3:1 - 6
 C3:3 - 5

E3:2 + C3:1 + E3:3/C3:2 - 25
 B1:1 + B1:3 - 8
 B1:4 + B1:2 - 21
 A2 - 44

140

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicolor</i>	L	XI	11	Klub 2016		
Heptageniidae	L	I	1	MeerLummB 2019	dam	N
<i>Maccaffertium vicarium</i>	L	0-1	26	Klub 2016		
<i>Boyeria virosa</i>	L	I	1	Tennessee 2019		
<i>Calopteryx</i>	L	I	1	MeerLummB 2019	imm	
<i>Allocapnia</i>	L	I	1	"		
<i>Chumatopsyche</i>	L	XIII	13	"		
<i>Diplectrona modesta</i>	L	I	1	Hils 1995		
<i>Hydropsyche betteni</i>	L	XIII	13	Schm Hils 1986		
<i>Lype diversa</i>	L	I	1	Hils 1995		
<i>Nigronia serricornis</i>	L	III	3	Newzick 1966		
Lepidoptera	L	I	1	MeerLummB 2019	terr?	
<i>Optioservus</i>	L	I	1	"	imm	N
<i>O-fastidius</i>	L	III	3	Hils Schm 1992		
<i>Tvetenia</i>	P	II	2	MeerLummB 2019		N
<i>Neoplasta</i>	L	I	1	"		
<i>Chrysops</i>	L	I	1	"		
<i>Gammarus pseudolimnaeus</i>	A	84	32	Hols 1972		
<i>Hyalella azteca</i>	A	I	1	Soucek et al 2015		
Caecidotea	A	I	5	Thorp Bog 2016	Fem	
<i>Pisidium</i>	A	II	2	"		
Tubificinae (with hairs)	A	I	1	Kahn Bern 1998		
Split to Chironomidae	L	X+XXX				
<i>Brillia</i>	L	II	2	And et al 2013	imm	
<i>Parametropneumus</i>	L	I	1	"		
<i>Tvetenia havanaica</i> group	L	III	3	Bode 1963		
<i>Microtendipes pedellus</i> group	L	I	1	And et al 2013		
<i>Rhyotanytarsus</i>	L	I	1	"		
<i>Nilotanytus</i>	L	I	1	"		
<i>Thienemanniella</i>	L	I	1	"	dam	
<i>Microsectra</i>	L	III	3	"		
<i>Paracladopelma</i>	L	I	1	"		
<i>Polydora</i> (<i>Tripodura</i>) <i>scalabenum</i> group	L	II	2	Bolton 2012		
<i>P. (Unispidulum) aviceps</i>	L	II	2	"		