State of Wisconsin
Department of Natural Resources

Non-Wadeable Macroinvertebrate Field Data Report

Form 3200-136 (R 10/11)

Station Summary

Waterbody Name	WBIC	Field Seq no. generated by SWIMS
MILWAUKEE RIVER	15000	255341679

SWIMS Station ID	SWIMS Station Name		
10012501	MILWAUKEE RIVER GRAFTON - SOUTH END OF LIME KILN PARK		
Field Sample ID (retrieval date)	**Basin (WMU)**	**Watershed Name**	**County**
20200915-46-01	MILWAUKEE RIVER	MILWAUKEE RIVER SOUTH	OZAUKEE

Project Name LARGE RIVERS MONITORING

Latitude	Longitude	Determination Method	Datum Used
43.302784 (43.30296)	-87.957085 (-87.95689)	GPS	WGS-84

Site Access Details: Deployed (R) bank, opposite and ds canoe launch ~80 m. Tied to dead tree in tree fall complex, ds end. Shallow, on stream bed.

Sample and Site Descriptors

Sampling Device

☒ Standard Non-wadeable Hester Dendy — Hester Dendy Area Calculation = Plate Size (cm) _____ Number of Plates _____

☐ Other Device: _____ — Device Area Calculation = Plate Size (cm) _____

Habitat Sampled

☐ Suspended ☒ River Bed

Snags (no./100m) _____ Avg. size (dbh) _____ Coniferous and/or Deciduous (circle)

Riparian Land Use, Vegetation, and Condition: Undeveloped, DS urban.

Substrate Composition

Bedrock _____ % Boulder _____ % Cobble 20 % Gravel 40 %

Sand 20 % Silt 20 % Clay _____ % Muck _____ %

Aquatic Macrophytes _____ % CWD _____ % Other (_____): _____ %

Field Measurements

	Deployment	Retrieval	Total Colonization Time (Days)
Date:	07/27/2020	09/15/2020	52
Time:	1200	1250	
Personnel:	Holter, Watkinson	Holter, Sabo	
Water Depth at Location (m):	.5	.5	
Sampler Height Above Substrate (m):	.15	.15	
Bank Placement: (R) L			
Distance From Bank:	3	3	
Water Temp (C):			
Water Color (clear, turbid, stained):			
D.O. (mg/L):			
pH:			
Conductivity:			
Transparency Tube (cm):	+120	+120	
Turbidity (NTUs):			
Water Velocity (m/s):	450 cfs	725 cfs	USGS station no. 04086600

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Draw Map:

Ethanol replaced the second day?	Yes	(No)
Label on inside of jar?	Yes	(No)
Label on outside of jar?	(Yes)	No

Additional Notes:

Deployment location is ( ). Different than Swims point.

Note: This station also sampled under wadeable macroinvert collection 20201007-46-03 for Milwaukee River Water monitoring project.

For Lab Use Only

Sample Sorter: Elwer, Brenden	Taxonomist: Simick, Jeffrey	Estimated Percent of Sample Sorted: 100
Date Processed: 10-14-2021	Specimens Saved: Subsample 486 archived in ABL until Nov 2024	

5 hrs.
10 hrs.
2 hrs
17 hrs

32/64 + 16/64
+8/64 +4/16

D7 -8 26 19 15 14 10
45 31 32 25 14 15
49 38 25 11 8
34 22 15 14 16

431
486

Appendix 2. River macroinvertebrate sample field sheet.

River Macroinvertebrate IBI Sampling Notes

River: Milwaukee River Station: Milwaukee River Grafton - South End of Lion Kiln Park

Sample ID (YYYMMDD-CC-FF): 20200915-46-01 SWIMS no.: 10012501

Deployment: Date: 07/27/2020 Personnel: Craig Helker, Arthur Watkinson

Retrieval: Date: 09/15/2020 Personnel: Craig Helker, Rachel Sabre

Lat: 43.30296 Long: -87.95689 Deployment : (riverbed) snag

Time: 1200 Temp._____°C D.O._____ Cond_____

Secchi_____mm Turbidity +120 ntu Water Velocity: 450 cfs m/s² USGS station 04086600

Sampler location & deployment notes: Bank: (R) L. Dist. from bank 3 m

Deployed (R) bank, opposite and ds canoe launch ~80 m. Tied to dead tree in tree fall complex, ds end. Shallow. Resting on stream bed. (Note, - within woody complex, partially protected from river flow.)

Habitat:

Substrate %: boulder_____. cobble 20. gravel 40. sand 20. silt 20. clay_____.

Snags: no. / 100m_____. Avg. size_____dbh. (Deciduous) Coniferous

Riparian land use, vegetation, and condition Undeveloped. DS urban.

Water depth at sampler location: At deployment .5 m. At retrieval .5 m.

Sampler height above substrate .15 m.

Retrieval notes:_____

Wisconsin Department of Natural Resources
ABL SampleNum: **20200915-46-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **Milwaukee River**
SWIMS Database Key: **255341679**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon	L/R Y/N
Baetis intercalaris	L	IIII	4	Kleb 2016			N
Caenis	L	I	1	MCB 2019	dam		
Heptageniidae	L	X-HHHH	25	"	dam/imm	N	
Leucrocuta	L	I	1	"			
Maccaffertium	L	OIII	23	Kleb 2016	imm	N	
M. exiguum	L	II	2	"			
M. mediopunctatum	L	X-II	17	"			
Stenacron	L	XI	11	MCB 2019	imm	N	
S. interpunctatum	L	I	1	Kleb 2016			
Tricorythodes	L	IIII	4	MCB 2019			
Anthopotamus	L	I	1	"	imm		
Calopterygidae	L	I	1	"	imm	N	
Hetaerina	L	I	1	"	dam		
Ephemeroptera	L	I	1	"	imm	N	
Hydropsychidae	L	HHHI	6	"	imm	N	
Ceratopsyche	L	II	2	Hils 1995	imm	N	
C. morosa bifida form	L	II	2	Schm Hils 1986			
Cheumatopsyche	L	X-HHH	40	MCB 2019			
Hydropsyche cuanis	L	I	1	Schm Hils 1986			
Philopotamidae	L	-HHHI	11	MCB 2019	dam/imm	N	
Chimarra obscura	L	XXIIII	114	Hils 1982			
Trichoptera ~~Hydroptila~~	L	I	1	MCB 2019	imm	N	
Macronychus glabratus L.L 4.19	L/A	O-	25	Hils Schm 1992			
Corynoneura	P	II	2	MCB 2019			
Chironominae	P	IIII	4	"	dam	N	
Rheotanytarsus	P	III	3	"			
Empididae	L	II	2	"	dam	N	
Hemerodromia	L	-HHHI	11	"			
Simulium jenningsi species complex	L	I	1	Adler et al 2004			
Coecidotea	A	II	2	Thorp Rog 2016	fem/imm		
Dugesiidae	A	II	2	"			↓
~~Split Aza Chironomidae~~	L	X-JJ					
~~Split Azb Chironomidae~~	L	X-JJ					
~~Split Azc Chironomidae~~	L	-II-JJ					
Corynoneura	L	X-IIII	19	And et al 2013		N	N
Rheotanytarsus	L	XXII	82	"		N	
Tanypodinae	L	IIII	4	"	imm	N	
Conchapelopia	L	III	3	"			
Nilotanypus	L	-IIII	9	"	dam	N	↓

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon	L/R Y/N
Nilotanypus fimbriatus	L	I	6	Bolton 2012			N
Thienemanniomyia group	L	III	8	And et al 2013	imm	Y	
Orthocladinae	L	III	3	"	imm	N	
Nanocladius (Nanocladius)	L	II	7	"	imm	N	
N.(N.) spiniplenus	L	I	1	Bolton 2012			
N.(N.) crassicornus/cf. rectinervis	L	I	1	"			
Orthocladius (Orthocladius)	L	I	1	And et al 2013			
Parakiefferiella	L	I	1	"			
Thienemanniella	L	III	3	"	pre/imm	N	
T. xena	L	X	10	Bolton 2012			
Chironomini	L	/	5	And et al 2013	imm	N	
Micropendipes pedellus group	L	II	2	"			
Polypedilum (Polypedilum) illinoense group	L	/	5	Bolton 2012			
P. (Tripodura) scalaenum group	L	I	1	"			
P. (Uresipedilum) flavum	L	IX	25	"			
Tanytarsus	L	I	1	And et al 2013			