

NBM-04

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.

20201014-60-25

Station Summary

Waterbody Name NORTH BRANCH MILWAUKEE RIVER	Waterbody ID Code 27100	Sample ID (YYYYMMDD-CY-FD) 2020.10.14.60.25.NBM-04
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Sampling Location US 45M Abbott Drive	Database Key 251163105
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SWIMS Station ID 10029086	SWIMS Station Name NORTH BRANCH MILWAUKEE RIVER - UPSTREAM OF ABBOTT DRIVE
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Latitude 43.5716	Longitude -88.0376	Lat/Long Determination Method (circle) SWIMS <u>SWDV</u> GPS	Datum Used if using GPS WGS84 or <u>NAD83</u>
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Basin (WMU) MILWAUKEE RIVER	Watershed Name NORTH BRANCH MILWAUKEE RIVER	County SHEBOYGAN
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Sample and Site Descriptors

Sample Collector (Last Name, First) Watkinson, Arthur	Project Name MILWAUKEE RIVER BASIN AQUATIC MACROINVERTEBRATE
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Sampling Device

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

Habitat Sampled

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

Total Sampling Time (min) 2	Estimated Area Sampled (m²) 1	Number of Samples in Composite	Replicate No. _____ of _____
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Reason For Sampling

Least Impacted Reference
 Baseline
 Impact / Treatment Site
 Control Site
 Trend
 Other: Milw. River Sampling

Water Temp. (C) 9.64	D.O. (mg/l) 10.16	D.O. (% sat.) 89.5	pH (su) 7.49	Conductivity (umhos/cm) 834.2	Transparency (cm) ~90
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Water Color <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <input type="checkbox"/> Slow (< 0.15 m/s) <input checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) .9	Average Stream Width of reach (m) 7
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): _____ Gravel (ladybug to tennisball): 90
Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: 10
Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 20% **Canopy Cover at Sample Site (%)** 30%

TDS 533.3

~~background photo~~

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			Factors that may be influencing Water Resource Integrity		
Local	Water-shed		Local	Water-shed	
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	
				Point Source - Specify:	
				Pasturing of Livestock	
Physical				Runoff: - Barnyard	
	Bank Erosion			- Construction	
	Channelization: - Upstream			- Cropland	
	- Downstream			- Urban	
	Hydraulic Scour / Channel Incision			Septic Systems	
	Impoundment: - Upstream			Tile Drainage - Organic Soils	
	- Downstream			- Mineral Soils	
	Low Flow			Springs	
	Sedimentation			Tributary(s)	
	Sludge			Wetland	
	Thermal			Other - Specify:	
	Turbidity				
	Other - Specify:				

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter Logan Cutler	Taxonomist Dimick Jeffray	Estimated Percent of Sample Sorted 15%
Date Processed 2/3/2021	Specimens Saved 135 subsample archived in ABL until Feb 2024	

28 64 23 20
 E3Q1,3 C3 E3Q2,4 C1Q4

Wisconsin Department of Natural Resources
 ABL SampleNum: 20201014-60-25
 Taxonomist: Dimick, Jeffrey

Waterbody: North Branch Milwaukee River
 SWIMS Database Key: 251163105

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Leucocrota	L		4	Merrillum B 2019		
Maccaffertium	L		1	Kuh 2016	dam	N
M. medipunctatum	L	-	9	"		
M. vicarium	L		1	"		
Stenacron	L		2	Merrillum B 2019	imm	
Notonecta lunata	A		1	Hils 1984a		
Microvelia pulchella	A		1	Hils 1986		
Helicopsyche borealis	L		2	Hils 1985		
Ceratopsyche branta	L		1	Schm Hils 1986		
Chamaetopsyche	L		1	Merrillum B 2019		
Limnephilidae	L		76	"	imm	N
Pycnopsyche	L		1	"		
Panatra fusca	A		1	Hils 1984a		
Protophila	L		1	Merrillum B 2019		
Optosema fastidius	L		2	Hils Schm 1982		
Stenelmis	L		1	Merrillum B 2019		N
S. crenata	A		2	Hils Schm 1982		
Liodessus affinis	A		1	Hils 1984		
Parakiefferiella	P		1	Merrillum B 2019		
Stempellonella	P		1	"		
Diptera 08000200	P		1	"		Y
Chrysops	L		2	"		
Antocha	L		2	"		
Antochaeta	L		1	"		
Pammarus pseudolimnaeus	A		15	Hils 1972		
Caecidotea	A		3	Thorp Pog 2016		
Fossaria	A		2	Thorp Lov 1991		
Tubificonae (without hairs)	A		1	Kath Brin 1998		
Split A2 Chironomidae	L	 				
Microtendipes pedellus group	L		3	And et al 2013		
Cricotopus (Cricotopus) tremulus group	L		1	"		
Parakiefferiella	L		1	"		N
Cnidobryantarsus	L		1	"		
Microseetra	L		2	"		