

MLR-13

Instructions: Bold fields must be completed.

Station Summary		
Waterbody Name MILWAUKEE RIVER	Waterbody ID Code 15000	Sample ID (YYYYMMDD-CY-FD) 20201009-46-01
Sampling Location Riffle adjacent to Newburg STP		Database Key 251163053

SWIMS Station ID 673042	SWIMS Station Name MILWAUKEE RIVER - NEWBURG STP		
Latitude 43.4325	Longitude 88.0403	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) MILWAUKEE RIVER	Watershed Name EAST AND WEST BRANCHES MILWAUKEE R	County OZAUKEE	

Sample and Site Descriptors	
Sample Collector (Last Name, First) Heller, Craig	Project Name MILWAUKEE RIVER BASIN AQUATIC MACROINVERTEBRA

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 (m ²) 2	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: Mil. River Sampling

Water Temp. (C) 14.96	D.O. (mg/l) 15.1	D.O. (% sat.) 150.8	pH (su) *	Conductivity (umhos/cm) 1056	Transparency (cm) 120
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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 1.25	circle units m/s or f/s	Average Stream Depth of reach (m) .5	Average Stream Width of reach (m) ~30
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Composition of Substrate Sampled (Percent):

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

Embeddedness of Substrate at Sample Site (%) 50 Canopy Cover at Sample Site (%) 10

* pH not working

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	Factors that may be influencing Water Resource Integrity		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 <i>Cosh, Natalie</i>	Taxonomist <i>Dimock, Jeffrey</i>	Estimated Percent of Sample Sorted <i>8-3</i>
Date Processed <i>1/13/2021</i>	Specimens Saved <i>Subsample archived in ABL until Feb 2024</i>	

*A2:1-12 A2:4-19
 D3:1-34 D3:4-31
 A2:3-33*

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Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Acentrella parvula</i>	L	I	1	Kub 2016		
<i>Baetis</i>	L	I	1	Merrittum B 2019	dam	N
<i>B. flavistriga</i> species complex	L	III	3	Kub 2016		
<i>Isaena arcta</i>	L	II	3	"		
^{1/4} <i>Leverocata</i>	L	III	4	Merrittum B 2019		
<i>Maceallertium</i>	L	II	3	Kub 2016	imm	Y
<i>M. mediopunctatum</i>	L	II	7	"		
<i>Stenacron</i>	L	III	4	Merrittum B 2019		
<i>Tricorythodes</i>	L	III	4	"		
<i>Anthopotamus myops</i>	L	X	10	Kub 2016		
<i>Heterotarsus americana</i>	L	I	1	West May 2006		
<i>Argia</i>	L	II	2	Merrittum B 2019	imm	
^{2/10} <i>Taeniopteryx</i>	L	-I	6	"	imm	
^{3/22} <i>Proctoptila</i>	L	XII	12	"		
<i>Helicopsyche borealis</i>	L	III	3	Hils 1995		
<i>Ceratopsyche</i>	L	I	1	"	imm	N
<i>C. bronca</i>	L	II	2	Schm Hils 1986		
<i>C. morosa bifida</i> group	L	-III	8	"		
<i>Cheumatopsyche</i>	L	-I	6	Merrittum B 2019		
<i>Deceis avara</i>	L	I	1	Floyd 1995		
^{4/25} <i>Psychomyia flavida</i>	L	III	3	Hils 1995		
<i>Optiosema fastiditum</i>	L	I	1	Hils Schm 1992		
<i>Stenelmis</i>	L	-III	9	Merrittum B 2019		
<i>Psephenus hemicki</i>	L	-	5	Hils Schm 1992		
<i>Cricotopus (Cricotopus)</i>	P	I	1	Wieder 1986		
<i>Parakiefferella</i>	P	I	1	Merrittum B 2019		
<i>Simulium vittatum</i> species complex 08110218	L	II	2	Aal et al 2004		
<i>Gammarus pseudolamnaeus</i>	A	-	5	Hils 1972		
<i>Psidium</i>	A	I	1	Trappes 2016		
<i>split to Chironomidae</i>	L	01-JJA				
<i>Lopescladius</i>	L	I	1	Aal et al 2013		
<i>Microtendipes pedellus</i> group	L	III	4	"		
<i>Rheotanytarsus</i>	L	III	8	"		
<i>Orthocladius (Orthocladius)</i>	L	II	2	"		
<i>Chironominae</i> 08330000	L	I	1	"	imm	N
<i>Cladotanytarsus</i>	L	I	1	"		
<i>Polypedium</i>	L	I	1	"	mt indet	N

²¹⁰
 > 3 taxa, TVALSZID
 257 (0.1 x 112)

