ULC-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)**
UNNAMED	21200	20201007-46-02

Sampling Location: @ Bonniwell Rd.

Database Key: 251835609

SWIMS Station ID	**SWIMS Station Name**
10028773	ULAO CREEK AT BONNIWELL RD AT ORIOLE LANE

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
43.2655	-87.2655	SWIMS (SWDV) GPS	WGS84 or NAD83

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

Sample and Site Descriptors

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

Sampling Device

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

Habitat Sampled

- [ ] Riffle
- [x] 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** ____
3	3		

Reason For Sampling

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

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
15.16	10.04	100.8		1735	+120

Water Color

- [x] Clear
- [ ] Turbid
- [ ] Stained

Estimated Stream Velocity (m/s)

- [x] 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)**	**Average Stream Width of reach (m)**
	.6	5

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 50 Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): 10

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

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

Embeddedness of Substrate at Sample Site (%) 30 **Canopy Cover at Sample Site (%)** 100

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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	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		
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	Taxonomist	Estimated Percent of Sample Sorted
Cowsh, Natalie	Dimick, Jeffrey	30.4
Date Processed	**Specimens Saved**	
12/10/2020	subsample archived in ABL until Feb 2024	

D2-1: 6 B1: 1,3,4: 28
B1-2: 4
D2-2-4: 16

B2
A3 > 63
C2
E3 — 15

132

1.64 × 2 + 0.416 + 26.67

Wisconsin Department of Natural Resources
ABL SampleNum: **20201007-46-02**
Taxonomist: Dimick, Jeffrey

Waterbody: **Unnamed (21200, Ulao Creek)**
SWIMS Database Key: **251835609**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Caenis	L	I	1	MerrCummB 2019	imm	N
C. anceps	L	I	1	Klub 2016		
Stenacron	L	I	1	MerrCummB 2019	imm	
Calopteryx maculata	L	I	1	WestMay 2006		
Coenagrionidae	L	II	2	MerrCummB 2019	imm	
Protoptila	L	I	1	"		
Cheumatopsyche	L	-I	6	"		
Hydropsyche betteni	L	II	2	SchmHils 1986		
Hydroptilidae	P	I	1	MerrCummB 2019		
Ranatra fusca	A	I	1	Hils 1984a		
Dubiraphia	L	X III	13	MerrCummB 2019		N
D. minima	A	II	2	HilsSchm 1992		
D. quadrinotata	A	-	5	"		
D. vittata	A	I	1	"		
Optioservus	L	I	1	MerrCummB 2019	imm	N
O. fastiditus	L	II	2	HilsSchm 1992		
Hemerodromia	L	III	3	MerrCummB 2019		
Gammarus pseudolimnaeus	A	-I	6	Hols 1972		
Caecidotea intermedia	A	8 X III	53	Will 1972		
Erpobdellidae	A	I	1	Thorp Rog 2016	imm	
Helobdella elrensis	A	I	1	Saglam Sawyer et al 2018		
~~Split A2 Chironomidae~~	L	X III				
Clinotanypus	L	I	1	And et al 2013		
Cryptochironomus	L	I	1	"		
Dicrotendipes	L	III	4	"		
Microtendipes pedellus group	L	X III	13	"		
Stenochironomus	L	I		"		
Chironomidae 08250000	L	I	1	MerrCummB 2019	mt inact	N
Cricotopus	L	I	1	And et al 2013		Y
C. (Cricotopus) bicinctus group	L	-	5	"		
Thienemanniella similis	L	I	1	Bolton 2012		
Chironomus	L	I	1	And et al 2013		
Rheotanytarsus	L	I	1	"		
Stictochironomus	L	II	2	"		