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)**
TWO SISTERS CREEK	1588100	20190925 TWO CRK

Sampling Location D/S River Rd. | **Database Key** 207258444 -44-01

SWIMS Station ID	**SWIMS Station Name**
10038496	TWO SISTERS CREEK - 128M DS RIVER RD.

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
45.785984	-89.543144	(SWIMS) SWDV GPS	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
UPPER WISCONSIN	RHINELANDER FLOWAGE	ONEIDA

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
ALAN W WIRT, TY N KRAJEWSKI	NORTH DISTRICT NC STREAM STRATIFIED SITES 2019

Sampling Device

- [X] D-Frame Kick Net
- [ ] Surber Sampler
- [ ] Eckman
- [ ] Ponar
- [ ] Artificial Substrate
- [ ] Hess Sampler
- [ ] 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** ____
20	4		

Reason For Sampling

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [ ] Trend
- [ ] Other: _____

Water Temp. (C)	**D.O. (mg/l)**	**D.O. (% sat.)**	**pH (su)**	**Conductivity (umhos/cm)**	**Transparency (cm)**
16.7	8.09	83.2	7.44	59.9	>120

Water Color

- [X] Clear
- [ ] Turbid
- [ ] Stained

Estimated Stream Velocity (m/s)

- [ ] Slow (< 0.15 m/s)
- [X] 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)**
	.5	3

Composition of Substrate Sampled (Percent):

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

Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: 60

Aquatic Macrophytes: _____ Leaf Snags: 20 Coarse Woody Debris: 20 Other (_____): _____

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

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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
Biological		
Algae: - Diatoms / Periphyton		
- Filamentous Algae		
- Planktonic Algae		
Iron Bacteria		
Macrophytes		
Slimes		
Other - Specify:		
Physical		
Bank Erosion		
Channelization: - Upstream		
- Downstream		
Hydraulic Scour / Channel Incision		
Impoundment: - Upstream		
- Downstream		
Low Flow		
Sedimentation		
Sludge		
Thermal		
Turbidity		
Other - Specify:		

Factors that may be influencing Water Resource Integrity	Local	Water-shed
Chemical		
Chlorine		
Dissolved Oxygen		
Nutrients (P, N...)		
Toxics: - Inorganic (Metals)		
- Organic (PCBs, pesticides...)		
Other - Specify:		
Sources of Stream Impacts		
Bank Erosion		
Point Source - Specify:		
Pasturing of Livestock		
Runoff: - Barnyard		
- Construction		
- Cropland		
- Urban		
Septic Systems		
Tile Drainage - Organic Soils		
- Mineral Soils		
Springs		
Tributary(s)		
Wetland		
Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
Eric Naas	Dimick, Jeffrey	13%
Date Processed	**Specimens Saved**	
8/4/2020	1 subsample archived in ADL until Oct 2023	

C1 D2
51 84 = 135

Wisconsin Department of Natural Resources
ABL SampleNum: **20190925-44-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **Two Sisters Creek**
SWIMS Database Key: **207258444**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Labiobaetis frondalis	L	I	1	Kluth 2016		
Leptophlebia	L	-III	8	MerrCumm B 2019	imm	
Caloptervgidae	L	I	1	"	imm	N
Calopteryx maculata	L	I	1	West May 2006		
1/2 Taeniopteryx	L	II	2	MerrCumm B 2019		
Cheumatopsyche	L	III	3	"		
Hydropsyche betteni	L	I	1	Schmidt 1986		
Oecetis	L	II	2	MerrCumm B 2019	imm	
Limnephilidae	L	-IIII	9	"	imm	N
Platycentropus	L	O	20	"	imm	
2/3 Lype diversa	L	I	1	Hilsenhoff 1995		
Parapoynx	L	I	1	MerrCumm B 2019		
Dubiraphia	L	II	2	"		
Simulium venustum species complex	L	X-	15	Adler et al 2004		
S. vittatum species complex 08102117	L	-	5	"		
Chrysops	L	I	1	MerrCumm B 2019		
Crangonyx pseudogracilis complex	A	I	1	Nimmo 1972		
Hyalella azteca	A	I	1	Soucek et al 2015		
Caecidotea racovitzai racovitzai	A	-I	6	Will 1972		
Fossaria	A	IIII	4	Thorp Cov 1991		
Tubificinae (with hairs)	A	I	1	Kath Brin 1998	post. frag.	
~~Spot Aza Chironomidae~~	L	~~8x JJ~~				
~~Spot Azh Chironomidae~~	L	~~IIII JJ~~				
3/5 Synorthocladius	L	II	2	And et al 2013		
Rheotanytarsus	L	IIII	7	"		
Labrundinia pilosella	L	I	1	Bolton 2012		
Thienemanniella complex	L	I	1	And et al 2013	imm	
Orthocladiinae 08300000	L	/	5	"	imm	N
Brillia	L	I	1	"	imm	
Cricotopus (Cricotopus) bicinctus group	L	IIII	4	"		
Limnophyes	L	I	1	"		
Nanocladius	L	I	1	"	imm	
Parametriocnemus	L	I	1	"		
Thienemanniella	L	I	1	"	imm	N
T. similis	L	I	1	Bolton 2012		
T. xena	L	I	1	"		
Chironominae 08330000	L	-	5	And et al 2013	imm	N

3 taxa, TVAL ≤ 20

5 < (0.1 x 102)

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Microtendipes rydalensis group	L	II	2	Ard et al 2013		
Polypedilum	L	I	1	"	mm	N
P. (Polypedilum) illinoense group	L	-IIII	9	Bolton 2012		
P. (Uresipedilum) flavum	L	II	2	"		