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)**
TYLER FKS	2923100	20171019-26-07

Sampling Location	**Database Key**
Upstream of Vogue Rd ≈ 30m	149418847

SWIMS Station ID	**SWIMS Station Name**
10042745	TYLER FORKS RIVER 68M US VOGUES ROAD

Latitude	**Longitude**	**Lat/Long Determination Method (circle)**	**Datum Used if using GPS**
46.41325	-90.51659	SWIMS SWDV (GPS)	WGS84 or NAD83

Basin (WMU)	**Watershed Name**	**County**
LAKE SUPERIOR	TYLER FORKS	IRON

Sample and Site Descriptors

Sample Collector (Last Name, First)	**Project Name**
~~JON KLEIST~~ Cunningham, Joseph	NOR LONG-TERM TREND WADEABLE REFERENCE STREAMS

Sampling Device

- [X] 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)	**Estimated Area Sampled (m^2)**	**Number of Samples in Composite**	**Replicate No. ____ of ____**
1 min	1 m^2	3-20 second kicks	

Reason For Sampling

- [X] 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)**
9.1	11.4	98.5	7.3	60.3	>120

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	circle units	**Average Stream Depth of reach (m)**	**Average Stream Width of reach (m)**
0.4	(m/s) or f/s	0.35 m	9 m

Composition of Substrate Sampled (Percent):

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

Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

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

Embeddedness of Substrate at Sample Site (%) 0 **Canopy Cover at Sample Site (%)** 30%

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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	Watershed
Biological		
Algae: - Diatoms / Periphyton	PL	U
- Filamentous Algae		
- Planktonic Algae		
Iron Bacteria	PL	U
Macrophytes		
Slimes		
Other - Specify:		
Physical		
Bank Erosion	PL	PL
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	Watershed
Chemical		
Chlorine		
Dissolved Oxygen		
Nutrients (P, N...)		
Toxics: - Inorganic (Metals)		
- Organic (PCBs, pesticides...)		
Other - Specify:		
Sources of Stream Impacts		
Bank Erosion	PL	PL
Point Source - Specify:		
Pasturing of Livestock		
Runoff: - Barnyard		
- Construction		
- Cropland		
- Urban		
Septic Systems		
Tile Drainage - Organic Soils		
- Mineral Soils		
Springs	PL	PL
Tributary(s)	PL	PL
Wetland	PL	PL
Other - Specify:		

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter: Kiersten Czarnecki	Taxonomist: Dimick, Jeffrey	Estimated Percent of Sample Sorted: 7 %
Date Processed: 11/12/2018	Specimens Saved: Subsample archived in ABL until Feb 2027	

AI: 175

Wisconsin Department of Natural Resources
ABL SampleNum: **20171019-26-07**
Taxonomist: Dimick, Jeffrey

Waterbody: **Tyler Forks**
SWIMS Database Key: **149418847**

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Acroneuria	L	-III	8	Wils 1995	imm	
Paragnetina media	L	I	1	"		
Isoperla signata	L	I	1	Wils 1982		
Strophopteryx fasciata	L	-III	8	Stew Stark 1993		
Taeniopteryx burksi	L	I	1	Full Stew 1980		
Acentrella turbida	L	II	2	Klub 2016		
Ephemerella	L	III	3	"	imm	N
E. invaria	L	III	3	"		
Teloganopsis deficiens	L	I	1	"		
Eperus vitreus	L	-II	12	"		
Rhithrogena jejuna	L	I	1	"		
Leucrocuta	L	-IIII	14	"		
Maccaffertium	L	-	5	"	imm	N
M. modestum	L	IIII	4	"		
M. vicarium	L	I	1	"		
Paraleptophlebia	L	II	2	"	dam	N
P. mollis	L	I	1	"		
Ceraphidae	L	I	1	Need et al 2000	imm	
Glossosoma	L	III	3	Wils 1995	imm	N
G. intermedium	L	-IIII	9	Wym Mor 2000		
Oneumatopsyche	L	I	1	Wils 1995		
Ceratopsyche morosa morosa form	L	-I	6	Schm Wils 1986		
C. walkeri	L	IIII	4	"		
Setodes	L	I	1	Wils 1995		
Bychonyia flavida	L	I	1	"		
Nicronia serricornis	L	I	1	Neun 1966		
Optioservus	L	-III	8	Wils Schm 1992	imm	N
O. ~~fast~~ trivittatus L,13 A,3	L,A	-I	16	"		
Atherix variegata	L	I	1	Wils 1995		
Hemerodromia	L	I	1	Court Merr 2008		
Antocha	L	II	2	Wils 1995		
Lumbriculus	A	-II	13	Thorp Rog 2016		
Pisidium	A	I	1	Burch 1972		
~~Split A3 Chironomidae~~	L	-IIII				
Lopescladius	L	I	1	Anderson 2013		
Tvetenia discoloripes group	L	I	1	Bode 1983		

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Nanocladius (Pleopteracoluthus)	L	II	2	Andersen 2013		
Chironomine OB330000	L	I	1	Cranston 2013	immature	N
Microtendipes pedellus group	L	-	5	Epler et al 2013		
M. rydalensis group	L	I	1	"		
Polypedilum (Uresipedilum) aviceps	L	8-II	37	Bolton 2012		
Rheotanytarsus	L	I	1	Epler et al 2013		
Sublettea	L	I	1	"		
Tanytarsus	L	II	2	"		