

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name BAD RIVER		Waterbody ID Code 2891900	Sample ID (YYYYMMDD-CY-FD) 20161006-02-03
Sampling Location 100 m US Conley Rd Bridge		Database Key 133770676	
SWIMS Station ID 10047042	SWIMS Station Name BAD RIVER 2M US CONFLUENCE OF IRON RIVER		
Latitude 46.26929	Longitude -90.70575	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
Basin (WMU) LAKE SUPERIOR		Watershed Name UPPER BAD RIVER	County ASHLAND

Sample and Site Descriptors

Sample Collector (Last Name, First) JON KLEIST	Project Name NORTH DISTRICT NC STREAM STRATIFIED SITES 2016
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Sampling Device

☒ 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) 5	Estimated Area Sampled (m ²) 2	Number of Samples in Composite 2	Replicate No. <u>1</u> of <u>1</u>
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Reason For Sampling

☐ Least Impacted Reference	☒ Baseline	☐ Impact / Treatment Site
☐ Control Site	☐ Trend	☐ Other: _____

Water Temp. (C) 13.4	D.O. (mg/l) 10.51	D.O. (% sat.) 100.9	pH (su) 6.2	Conductivity (umhos/cm) 72	Transparency (cm) 7120
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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)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.5	Average Stream Width of reach (m) 11
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Composition of Substrate Sampled (Percent):

Bedrock: _____	Boulders (basketball or larger): <u>10</u>	Rubble (tennisball to basketball): <u>30</u>	Gravel (ladybug to tennisball): <u>40</u>
Sand: <u>20</u>	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____
Aquatic Macrophytes: _____	Leaf Snags: _____	Coarse Woody Debris: _____	Other (): _____
Embeddedness of Substrate at Sample Site (%) <u>20</u>		Canopy Cover at Sample Site (%) <u>0</u>	

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	PL	PL	Chlorine	N	N
- Filamentous Algae	N	N	Dissolved Oxygen	N	N
- Planktonic Algae	N	N	Nutrients (P, N...)	N	N
Iron Bacteria	N	U	Toxics: - Inorganic (Metals)	N	N
Macrophytes	PL	PL	- Organic (PCBs, pesticides...)	N	N
Slimes	N	N	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	N	PL
			Point Source - Specify:	N	N
Physical			Pasturing of Livestock	N	N
Bank Erosion	N	PL	Runoff: - Barnyard	N	N
Channelization: - Upstream	N	N	- Construction	N	N
- Downstream	N	N	- Cropland	N	N
Hydraulic Scour / Channel Incision	N	N	- Urban	N	PL
Impoundment: - Upstream	N	U	Septic Systems	N	N
- Downstream	N	U	Tile Drainage - Organic Soils	N	N
Low Flow	N	N	- Mineral Soils	N	N
Sedimentation	PL	PH	Springs	N	PL
Sludge	N	N	Tributary(s)	PL	PL
Thermal	N	N	Wetland	PL	PL
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Grant J. J. J.</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted 7%
Date Processed 5-2-17	Specimens Saved Subsample archived in ABL until 1 Oct 2020	

C3:194

Wisconsin Department of Natural Resources

ABL SampleNum: 20161006-02-03

Taxonomist: Dimick, Jeffrey

 Waterbody: **Bad River**
 SWIMS Database Key: **133770676**

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Plecoptera	L	1	1	Hilsenhoff 1995	imm	N
Paracappa angulata	L	III	4	Hitchcock 1974		
Acrodeura	L	1	1	Hilsenhoff 1995		
Acropenna pygmaea	L	1	1	Kilbertanz 2016		
Ephemerella	L	-	5	"	imm	N
E. invaria	L	III	3	"		
Eurylophella	L	"	2	"	imm	
Ephemerella	L	1	1	"	imm	
Heptageniidae	L	II	2	"	imm	N
Epeorus vitreus	L	1	1	"		
Rhythrogena jejuna	L	-II	7	"		
Maccaffertium	L	"	2	"	imm	N
M. modestum	L	III	4	"		
Leucocrota	L	X-1	16	"		
Leptophlebiidae	L	1	1	"	imm	N
Paraleptophlebia	L	-III	9	"	dem/imm	N
P. mollis	L	III	3	"		
Gomphidae	L	1	1	Need et al 2000	imm	
Cheumatopsyche	L	-1	6	Hilsenhoff 1995		
Ceratopsyche brenta	L	-	5	Schm., Hils. 1986		
C. sparna	L	-1	6	"		
Chimarra	L	X1	11	Hilsenhoff 1995	imm	N
Ch. socia	L	-III	8	Hilsenhoff 1982		
Psychomyia flavida	L	1	1	Hilsenhoff 1995		
Optioseurus	L	III	34	Hils., Schm. 1992	imm	N
O. trivittatus	L	X-III	18	"		
Stenelmis	L	X1	11	"		N
S. crenata	A	1	1	"		
Atherix variegata	L	1	1	Hilsenhoff 1995		
Hemerodromia	L	1	1	Court. Meir. 2008		
Anaba	L	III	3	Hilsenhoff 1995		
Dicranota	L	1	1	"		
Pseudolimnophila	L	1	1	"		
Lebertia	A	1	1	Pluchind 1984		
Tubificinae w/ capilliform chaetae	A	"	2	Klemm 1985		Y
Tubificinae w/ capilliform chaetae	A	1	1	"		Y
Lumbriculus	A	III	4	Brady Cook 1966		

Taxonomist: Dimick, Jeffrey

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