

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name MIDDLE RIVER	Waterbody ID Code 2858800	Sample ID (YYYYMMDD-CY-FD) 20171115-16-01
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Sampling Location	Database Key 152607379
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SWIMS Station ID 10013123	SWIMS Station Name MIDDLE RIVER- 15 METERS UPSTREAM FROM BRIDGE ON TOWNLINE ROAD-- S7
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Latitude 46.47431	Longitude -91.86534	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
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Basin (WMU) LAKE SUPERIOR	Watershed Name AMNICON AND MIDDLE RIVERS	County DOUGLAS
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Sample and Site Descriptors

Sample Collector (Last Name, First) CRAIG P ROESLER, CHANG VANG	Project Name NORTH DISTRICT NC STREAM STRATIFIED SITES 2017
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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 (m²) 2	Number of Samples in Composite 4	Replicate No. 1 of 1
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Reason for Sampling

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

Water Temp. (C) 0.3	D.O. (mg/l) 10.3	D.O. (%sat.) 74	pH (su)	Conductivity (umhos/cm) 47	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)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.6	Average Stream Width of reach (m) 3.5
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Composition of Substrate Sampled (Percent):

Bedrock: _____	Boulders (basketball or larger): _____	Rubble (tennisball to basketball): _____	Gravel (ladybug to tennisball): _____
Sand: _____	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: 45
Aquatic Macrophytes: 10	Leaf Snags: _____	Coarse Woody Debris: 45	Other (): _____

Embeddedness of Substrate at Sample Site (%) NA	Canopy Cover at Sample Site (%) 0
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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		
			Point Source - Specify:		
Physical			Pasturing of Livestock		
Bank Erosion			Runoff: - Barnyard		
Channelization: - Upstream			- Construction		
- Downstream			- Cropland		
Hydraulic Scour / Channel Incision			- Urban		
Impoundment: - Upstream			Septic Systems		
- Downstream			Tile Drainage - Organic Soils		
Low Flow			- Mineral Soils		
Sedimentation			Springs		
Sludge			Tributary(s)		
Thermal			Wetland		
Turbidity			Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Kayla Wilcox</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>70%</i>
Date Processed <i>6/2/18</i>	Specimens Saved <i>Subsample archived in AS2 until Oct 2021</i>	

D1=132

Wisconsin Department of Natural Resources

ABL SampleNum: 20171115-16-01

Taxonomist: Dimick, Jeffrey

Waterbody: Middle River

SWIMS Database Key: 152607379

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
1/2 <i>Maccaffertium vicarium</i>	L	11	2	Klub 2016		
<i>Leptophlebia cupida</i>	L	111	3	"		
<i>Cheumatopsyche</i>	L	1	1	Hils 1995		
<i>Hydropsyche betteni</i>	L	1	1	Schm Hils 1986		
<i>Limnephilidae</i>	L	1	1	Hils 1995	imm	N
<i>Platycentropus amicus</i>	L	1	1	Wigg 1986		
<i>Pycnopsyche</i>	L	1	1	Hils 1995		
<i>Polycentropus</i>	L	1	1	"		
<i>Mallochphelea</i>	L	11	2	"		
<i>Probezzia</i>	L	111	3	"		
<i>Bezzia/Palpomysia</i>	L	1	1	"		
<i>Neoplasia</i>	L	1	1	Court Merr 2008		
<i>Simulium vittatum</i> species complex 08110217	L	1	1	Adler et al 2004		
<i>Simuliidae</i>	L	11	2	"	imm	N
<i>Prosimulium</i>	L	1	1	"	imm	
<i>Stegopterna</i>	L	11	2	"		
<i>Chrysops</i>	L	1	1	Hils 1995		
<i>Ptilaria</i>	L	1	1	"		
<i>Dixella</i>	L	1	1	"		
<i>Tubificinae (without hairs)</i>	A	1	1	Brink et al 1991		
<i>Spiliza chromomidae</i>	L	1				
<i>Natansia</i>	L	1	1	Corn Epl 2013		
<i>Zavrelimyia</i> 08273000	L	1	1	"		
<i>Ablabesmyia (Ablabesmyia)</i>	L	1	1	"	imm	
<i>Orthocladiinae</i> 08300000	L	111	3	Cornston 2013	mt indet / imm	Y
2/3 <i>Heterotrissocladius marcidus</i> group	L	1	1	Ander et al 2013		
<i>Parametrioctenus</i>	L	x 11	17	"		
<i>Rheocricotopus robacki</i>	L	1	1	Epler 2001		
<i>Nanocladius (Nanocladius) balticus</i> group	L	1	1	Ander et al 2013		
<i>Orthocladius (Gymptotrochus) lignicola</i>	L	1	1	"		
<i>Chironominae</i> 08330000	L	11	3	Cornston 2013		
<i>Cryptochironomus</i>	L	1	1	Epl et al 2013		
<i>Microsectra</i>	L	x 111	154	"		
<i>Paratanytarsus nigrohalsale</i>	L	11	7	"		
<i>Paratanytarsus</i>	L	1	1	"	mt indet	N
P-sp A	L	1	6	Hils unpubl.		

23 taxa, TOTAL = 2.0

Taxonomist: Dimick, Jeffrey

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[illegible]