

Instructions: Bold fields must be completed.

201910247001 ⁰² JP

Station Summary

Waterbody Name WEST BRANCH WHITE RIVER	Waterbody ID Code 151700	Sample ID (YYYYMMDD-CY-FD) Macroinvertebrate 1910247001
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Sampling Location

5 M N from 22	Database Key 210950283 287754433
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SWIMS Station ID 10030594	SWIMS Station Name WEST BRANCH WHITE RIVER - HIGHWAY 22
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Latitude 44.049156	Longitude -89.29438	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) UPPER FOX	Watershed Name WHITE RIVER	County WAUSHARA
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Sample and Site Descriptors

Sample Collector (Last Name, First) MICHAEL MILLER	Project Name CENTRAL SANDS INFLUENCE OF PESTICIDES ON MACROIN
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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) 5	Estimated Area Sampled (m ²) 1	Number of Samples in Composite 1	Replicate No. _____ of _____
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Reason For Sampling

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

Water Temp. (C) 8.2	D.O. (mg/l) 11.83	D.O. (% sat.) 100.5	pH (su) 8.27	Conductivity (umhos/cm) 205.8	Transparency (cm) 122+
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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) 1 M	Average Stream Width of reach (m) 3
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Composition of Substrate Sampled (Percent):

Bedrock: _____	Boulders (basketball or larger): _____	Rubble (tennisball to basketball): _____	Gravel (ladybug to tennisball): 90%
Sand: _____	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: 10%
Aquatic Macrophytes: _____	Leaf Snags: _____	Coarse Woody Debris: _____	Other (): _____

Embeddedness of Substrate at Sample Site (%)	Canopy Cover at Sample Site (%)
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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 *fast flowing river* *healthy river*
sand & gravel substrate

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Reed, Kayla</i>	Taxonomist <i>Dimick, Jeffery</i>	Estimated Percent of Sample Sorted <i>9.4%</i>
Date Processed <i>3-9-23</i>	Specimens Saved <i>143 Subsample archived in ABL until Apr 2023</i>	

B2Q3-40 D3Q2-18
Q2-17 Q1-16
Q1-32 Q3-20
Q4- Q4-

Wisconsin Department of Natural Resources

ABL SampleNum: 20191024-70-02

Taxonomist: Dimick, Jeffrey

Waterbody: West Branch White River

SWIMS Database Key: 287759433

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Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis flavistriga</i> species complex	L	11	2	Klob 2016		
<i>Ephemera</i>	L	-	5	MCB 2019	imm	
<i>Maccaffertium vicarium</i>	L	1	1	Klob 2016		
<i>Brachycentrus americanus</i>	L	1111	9	Hils 1985		
<i>B. occidentalis</i>	L	01	21	"		
<i>Glossosoma intermedium</i>	L	11	2	WymMar 2000		
<i>Protophila</i>	L	11	2	MCB 2019		
<i>Ceratopsyche glossaria</i>	L	111	4	SchmittHils 1986		
<i>C. sparna</i>	L	11	2	"		
<i>Cheumatopsyche</i>	L	11	2	MCB 2019		
<i>Lype diversa</i>	L	1	1	Hils 1985		
<i>Neophylax</i>	L	11	7	MCB 2019	imm	N
<i>N. pliginskii</i>	L	11	2	Bright 2016		
<i>Optoservus</i>	L	211	22	MCB 2019	imm	N
<i>O. fastidiosus</i> L, 24 A, 2	L/A	0-1	26	HilsSchmitt 1982		
<i>Diamesa</i> 08260104	P	1	1	MCB 2019		
<i>Eukiefferiella</i> 08301408	P	1	1	"		
<i>Nemertodromia</i>	L	1	1	"		
<i>Gammarus pseudolimnoides</i>	A	x-1	16	Holsinger 1972		
<i>Caecidotea intermedia</i>	A	11	2	Williams 1972		
<i>Dugesidae</i>	A	1	1	ThorpZag 2016		
<i>Pisidium</i>	A	1	1	"		
<i>Naididae</i>	A	1	1	KohnBrin 1999		
<i>Lebertia</i>	A	1	1	Peck et al 1990		
<i>Spermonidae</i>	A	11	2	"		
<i>Spiliza Chironomidae</i>	L	11-1111				
<i>Parachaeocladius</i>	L	1	1	Ander et al 2013		
<i>Parametriocnemus</i>	L	1	1	"		
<i>Cladotanytarsus</i>	L	111	7	"		
<i>Rheotanytarsus</i>	L	1	1	"		
<i>Orthocladius (Mesorthocladius)</i>	L	111	3	"		
<i>Tritenia hawaiiensis</i> group	L	11	2	Bode 1983		
<i>Polypedium (Polypedium) laetum</i> group	L	1	1	Bolton 2012		
<i>P. (Unsigedium) aviceps</i>	L	1	1	"		