

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name ONION RIVER		Waterbody ID Code 51200	Sample ID (YYYYMMDD-CY-FD) 20171026-6003
Sampling Location R-1111 at 505			Database Key 149295976
SWIMS Station ID 603340	SWIMS Station Name ONION RIVER AT CTH E ORI		
Latitude 43.7094	Longitude -87.99107	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) SHEBOYGAN		Watershed Name ONION RIVER	County SHEBOYGAN

Sample and Site Descriptors

Sample Collector (Last Name, First) CRAIG HELKER	Project Name SER LONG-TERM TREND WADEABLE REFERENCE STREAMS
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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) 1	Estimated Area Sampled (m ²) 1	Number of Samples in Composite	Replicate No. _____ of _____
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Reason for Sampling

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

Water Temp. (C) 7.75	D.O. (mg/l) 13.0	D.O. (% sat.) 111.4	pH (su) 7.86	Conductivity (umhos/cm) 741.8	Transparency (cm) 420
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Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <input type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s)
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Measured Velocity 2.41 circle units m/s or f/s	Average Stream Depth of reach (m) 0.7	Average Stream Width of reach (m) 6.5
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): ~~50~~ **40** Gravel (ladybug to tennisball): **40**
 Sand: **20** Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____

Embeddedness of Substrate at Sample Site (%) **50** Canopy Cover at Sample Site (%) **70**

Therest-9891904

Sorter: Sam Lamorelle

Date: 11/10/18

2B 2E
117 99 | 216 total

HBI 13%

Taxonomist: Dimick, Jeffrey
Subsample archived in ABL
until 1 Jan 2022

Wisconsin Department of Natural Resources

ABL Sample Num: 20171026-60-03

Taxonomist: Dimick, Jeffrey

Waterbody: Onion River

SWIMS Database Key: 149295976

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
^{1/2} <i>Taeniopteryx</i>	L	II	2	Hils 1995	imm	
^{7/3} <i>Tetogonopsis deficiens</i>	L	I	1	Klub 2016		
^{3/4} <i>Glossosoma</i>	P	I	1	Wigg Carr 2008		
<i>Helicopsyche borealis</i>	L	I	1	Hils 1995		
<i>Charmatopsyche</i>	L	8-11	37	"		
<i>Hydropsyche betteni</i>	L	0-11	23	Schm Hils 1986		
<i>Ceratopsyche</i>	L	I	1	Hils 1995	dam	N
<i>C. alhedra</i>	L	I	1	Schm Hils 1986		
<i>C. bronze</i>	L	x-11	17	"		
<i>C. glossaria</i>	L	x	10	"		
^{4/8} <i>C. spuma</i>	L	III	4	"		
<i>Limnephilidae</i>	L	I	1	Hils 1995	imm	
<i>Optioservus</i>	L	x-11	18	Hils Schm 1992	imm	N
<i>O. fastiditus</i> L, SB A, Z	LA	80	60	"		
<i>Stenelmis crenata</i>	A	I	1	"		
<i>Simulium vittatum</i> species complex 08110217	L	I	1	Ad et al 2004		
<i>Anatopia</i>	L	I	1	Hils 1995		
<i>Gammarus pseudolimnacus</i>	A	0-1	26	Hils 1972		
<i>Caecidotea</i>	A	III	4	Will 1972	Bem/imm	
<i>Metasynopora</i>	A	I	1	Thorp Reg 2016		
<i>Salit A, Clavosomidae</i>	L	III, IV				
^{5/8} <i>Pisasteria</i>	L	I	1	Seth Ander 2013		
<i>Brillia</i>	L	I	1	Ander + J 2013	mt indet	
<i>Eukiefferiella brehmi</i> group	L	II	2	"		
<i>Ev. deponica</i> group	L	I	1	"		
<i>Parametopaenemus</i>	L	I	1	"		
<i>Orthocladus (Orthocladus)</i>	L	III	3	"		
<i>Acrotanytarsus longistilus</i>	L	II	2	Epl et al 2013		

>3 taxa, TVAL ≤ 2.0

q < (0.1 x 214)