

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name BILLINGS CREEK	Waterbody ID Code 1196900	Sample ID (YYYYMMDD-CY-FD) 20201105-63-01
---	-------------------------------------	---

Sampling Location ~30 m upstream CTH F	Database Key 250465617
--	----------------------------------

SWIMS Station ID 10009007	SWIMS Station Name BILLINGS CREEK STATION #3 BRG. ON CTH F
-------------------------------------	--

Latitude 43.70646	Longitude -90.54340	Lat/Long Determination Method (circle) <u>SWIMS</u> SWDV GPS	Datum Used if using GPS <u>WGS84</u> or NAD83
-----------------------------	-------------------------------	--	---

Basin (WMU) LOWER WISCONSIN	Watershed Name MIDDLE KICKAPOO RIVER	County VERNON
---------------------------------------	--	-------------------------

Sample and Site Descriptors

Sample Collector (Last Name, First) JAMES F AMRHEIN, CAMILLE M BRUHN, KIMBERLY KUBER	Project Name SCR LONG-TERM TREND WADEABLE REFERENCE STREAM
--	--

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 (m²) 1	Number of Samples in Composite	Replicate No. _____ of _____
---------------------------------------	--	---------------------------------------	-------------------------------------

Reason For Sampling

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

Water Temp. (C) 9.0	D.O. (mg/l) 14.0	D.O. (% sat.) 125	pH (su) 8.51	Conductivity (umhos/cm) 487.7	Transparency (cm)
-------------------------------	----------------------------	-----------------------------	------------------------	---	--------------------------

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)
--	--

Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.2	Average Stream Width of reach (m) 5.5
--	---	---

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 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 (%) 20 Canopy Cover at Sample Site (%) 50

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>Reed, Kayla</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>6.25%</i>
Date Processed <i>1-31-2022</i>	Specimens Saved <i>subsample 126 to 127 analyzed in ABC until Mar 2025</i>	

*D3Q4 → 29
 B1Q2 → 24
 D8Q3 → 27
 B1Q3 → 46*

Wisconsin Department of Natural Resources

ABL SampleNum: 20201105-63-01

Taxonomist: Dimick, Jeffrey

Waterbody: Billings Creek
SWIMS Database Key: 250465617

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
1/1	<i>Baetis tricaudatus</i>	L	I	1	Kleb 2016		
	<i>B. flavistriga</i> species complex	L	II	2	"		
	<i>Ephemerella</i>	L	I	1	MCB 2019	imm	N
2/1	<i>E. excrucians</i>	L	-I	6	Kleb 2016		
	<i>Maccaffertium mediopunctatum</i>	L	-I	5	"		
3/1	<i>M. vicarium</i>	L	I	1	"		
4/1	<i>Brachycentrus occidentalis</i>	L	I	1	Hols 1985		
5/1	<i>Glossopsoma intermedium</i>	L	I	1	Wym/Mor 2000		
	<i>Ceratopsyche</i>	L	I	1	Hols 1985	imm	N
	<i>C. albedra</i>	L	II	2	Schm/Hols 1986		
	<i>C. bronta</i>	L	II	2	"		
6/1	<i>C. morosa bifida</i> form spina	L	I	1	"		
	<i>Cheumatopsyche</i>	L	-III	8	MCB 2019		
	<i>Ceratopsyche glossopae</i>	L	I	1	Schm/Hols 1986		
	<i>Hydropsyche bettari</i>	L	I	1	"		
7/1	<i>Psychomyia flavida</i>	L	II	2	Hols 1985		
	<i>Optiosewus</i>	L	II	2	MCB 2019	imm	N
	<i>O-fastiditus</i> L, 10 A, 1	L, A	XI	11	Hols Schm 1992		
	<i>Orthocladinae</i>	P	I	1	MCB 2019	dam	N
	<i>Orthocladus</i> (<i>Orthocladus</i>)	P	II	2	Coff et al 1986		N
	<i>Simulium vittatum</i> species complex 0811021B	L	III	3	Adl et al 2004		
	<i>Antocha</i>	L	II	2	MCB 2019		
	<i>Dicranota</i>	L	L	1	"		
	<i>Gammarus pseudolimnacus</i>	A	III	4	Hols 1972		
	<i>Dugesidae</i>	A	I	1	Thorp/Pog 2016		
	<i>Naicmae</i>	A	Sum	34	Kath/Brin 1998		
	Split to Chironomidae	L	8 + 20				
	<i>Diamesa</i>	L	I	1	And et al 2013		
	<i>Cricotopus</i> (<i>Cricotopus</i>) <i>tritascia</i> group	L	II	2	"		
	<i>Eukiefferiella</i> <i>divorrea</i> group	L	IV	5	"		
	<i>Twelenia</i> <i>bavarrica</i> group	L	III	3	Bock 1983		
	<i>Microdendipes</i> <i>pedellus</i> group	L	II	4	And et al 2013		
	<i>Rheotanytarsus</i>	L	0-IV	30	"		
	<i>Chironomidae</i>	L	I	1	MCB 2019	mbindet	N
	<i>Orthocladinae</i>	L	III	3	And et al 2013	imm	N
	<i>Cricotopus</i> (<i>Cricotopus</i>)	L	III	4	"		Y

> 3 taxa, TVAL ≤ 2.0

13 > (0.1 x 121)

