

Instructions: Bold fields must be completed.

**Station Summary**

<b>Waterbody Name</b> BIG BROOK		<b>Waterbody ID Code</b> 2729100	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20190904-58-05
<b>Sampling Location</b> US Sunset Rd			<b>Database Key</b> 204308333
<b>SWIMS Station ID</b> 10016431		<b>SWIMS Station Name</b> BIG BROOK - 90 M UPSTREAM FROM BRIDGE (SUNSETDRIVE OFF B)	
<b>Latitude</b> 46.19875	<b>Longitude</b> -91.32271	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV <u>GPS</u>	<b>Datum Used if using GPS</b> <u>WGS84</u> or NAD83
<b>Basin (WMU)</b> ST. CROIX		<b>Watershed Name</b> UPPER NAMEKAGON RIVER	<b>County</b> BAYFIELD

**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> CRAIG ROESLER	<b>Project Name</b> NORTH DISTRICT NC STREAM STRATIFIED SITES 2019
<b>Sampling Device</b>	
<input checked="" type="checkbox"/> D-Frame Kick Net <input type="checkbox"/> Surber Sampler <input type="checkbox"/> Eckman <input type="checkbox"/> Ponar <input type="checkbox"/> Artificial Substrate <input type="checkbox"/> Hess Sampler <input type="checkbox"/> Other: _____	

**Habitat Sampled**

<input type="checkbox"/> Riffle	<input checked="" type="checkbox"/> Run	<input type="checkbox"/> Pool
<input type="checkbox"/> Other	<input type="checkbox"/> Shoreline Composite	<input type="checkbox"/> Proportionally-Sampled Habitat
<input type="checkbox"/> Littoral Zone	<input type="checkbox"/> Profundal Zone	<input type="checkbox"/> Wetland

<b>Total Sampling Time (min)</b> 1.5	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1.5	<b>Number of Samples in Composite</b> 3	<b>Replicate No.</b> <u>1</u> <b>of</b> <u>1</u>
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**Reason For Sampling**

<input type="checkbox"/> Least Impacted Reference	<input checked="" type="checkbox"/> Baseline	<input type="checkbox"/> Impact / Treatment Site
<input type="checkbox"/> Control Site	<input type="checkbox"/> Trend	<input type="checkbox"/> Other: _____

<b>Water Temp. (C)</b> 15.3	<b>D.O. (mg/l)</b> 10.5	<b>D.O. (% sat.)</b> 109.2	<b>pH (su)</b> 7.7	<b>Conductivity (umhos/cm)</b> 96	<b>Transparency (cm)</b> >120
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<b>Water Color</b>	<b>Estimated Stream Velocity (m/s)</b>
<input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" type="checkbox"/> Stained	<input type="checkbox"/> Slow (< 0.15 m/s) <input checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)

<b>Measured Velocity</b> 0.3	circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b> 0.4	<b>Average Stream Width of reach (m)</b> 8
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**Composition of Substrate Sampled (Percent):**

Bedrock: _____	Boulders (basketball or larger): _____	Rubble (tennisball to basketball): <u>20</u>	Gravel (ladybug to tennisball): <u>70</u>
Sand: <u>10</u>	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____
Aquatic Macrophytes: _____	Leaf Snags: _____	Coarse Woody Debris: _____	Other (____): _____

<b>Embeddedness of Substrate at Sample Site (%)</b> <u>30</u>	<b>Canopy Cover at Sample Site (%)</b> <u>30</u>
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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
<b>Biological</b>				<b>Chemical</b>			
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:				<b>Sources of Stream Impacts</b>			
				Bank Erosion			
				Point Source - Specify:			
				Pasturing of Livestock			
<b>Physical</b>				Runoff: - Barnyard			
Bank Erosion				- Construction			
Channelization: - Upstream				- Cropland			
- Downstream				- Urban			
Hydraulic Scour / Channel Incision				Septic Systems			
Impoundment: - Upstream				Tile Drainage - Organic Soils			
- Downstream				- Mineral Soils			
Low Flow				Springs			
Sedimentation				Tributary(s)			
Sludge				Wetland			
Thermal				Other - Specify:			
Turbidity							
Other - Specify:							

Comments

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Special Instructions for Laboratory

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For Lab Use Only		
Sample Sorter Eric Naas	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 13%
Date Processed 8/3/2020	Specimens Saved Subsample archived in ABL until Oct 2023	

DZ C2  
 95 75 = 170

## Wisconsin Department of Natural Resources

ABL SampleNum: 20190904-58-05

Taxonomist: Dimick, Jeffrey

Waterbody: Big Brook

SWIMS Database Key: 204308333

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis	L	I	1	Merrittum B 2019	dam	N
B. brunneicolor	L	II	2	Klob 2016		
B. flavistriga species complex	L	I	6	"		
Maccaffertium	L	I	1	"		
M. vicarium	L	II	2	"		
Stenacron	L	I	1	Merrittum B 2019		
Leptophlebiidae	L	III	3	"	dam	N
Paraleptophlebia	L	II	2	Klob 2016		
Ophlogomphus	L	I	1	Merrittum B 2019	imm	
Brachycentrus americanus	L	II	2	Hils 1985		
Helicopsyche borealis	L	III	4	Hils 1985		
Ceratopsyche	L	II	2	"	imm	N
C. morosa	L	I	1	Schm Hils 1986		
C. spama	L	III	4			
Cheumatopsyche	L	I	1	Merrittum B 2019		
Hydropsyche	L	II	2	Hils 1985	imm	N
H. betteri	L	I	1	Schm Hils 1986		
Mystacides sepulchralis	L	I	1	Yama Wigg 1964		
Acnopsyche	L	I	1	Merrittum B 2019		
Molanna fryphena	L	I	1	Brent 2013		
Chimarra aterrima	L	III	3	Hils 1982		
Psychomyia flavida	L	I	1	Hils 1985		
Nigronia serricornis	L	I	1	Menzies 1966		
Optiosepus	L	X-II	17	Merrittum B 2019		
O. fastidius	L	II	3	Hils Schm 1992		
O. trivittatus	L	II	2	"		
Hemerodromia	L	IV	4	Merrittum B 2019		
Glossosoma	L	I	1	"	imm	
Antocha	L	III	4	"		
Dicranota	L	I	1	"		
Parametriocnemus	P	III	3	"		
Chironominae 08330001 Tanytarsini CMT	P	I	1	"	dam	N
Gammarus pseudolimnaeus	A	III	24	Hils 1972		
Caecidotea	A	I	1	Thorp Bog 2016	fem	
Ferrissia rivularis	A	I	1	"		
Physa	A	II	2	"		
Gyraulus circumstriatus	A	I	1	"		

