

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name GRAHAM CREEK	Waterbody ID Code 2124700	Sample ID (YYYYMMDD-CY-FD) 20181031-18-05
Sampling Location US bridge ~ 5m		Database Key 169645831

SWIMS Station ID 10009825	SWIMS Station Name GRAHAM CREEK - STATION 1 SPRUCE RD
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Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) LOWER CHIPPEWA	Watershed Name LOWES AND ROCK CREEKS	County EAU CLAIRE
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Sample and Site Descriptors

Sample Collector (Last Name, First) MYCAL RALEIGH	Project Name WCR LONG-TERM TREND WADEABLE REFERENCE STREAM
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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 (m²) 1.5	Number of Samples in Composite 1	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)	D.O. (mg/l)	D.O. (% sat.)	pH (su)	Conductivity (umhos/cm)	Transparency (cm)
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Water Color <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" 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 circle units m/s or f/s	Average Stream Depth of reach (m) 1	Average Stream Width of reach (m) 4
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 80 Gravel (ladybug to tennisball): 10
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 10 **Canopy Cover at Sample Site (%)** 70

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		N	U	Chlorine		U	U
- Filamentous Algae		N	U	Dissolved Oxygen		U	U
- Planktonic Algae		N	U	Nutrients (P, N...)		U	U
Iron Bacteria		N	U	Toxics: - Inorganic (Metals)		U	U
Macrophytes		N	U	- Organic (PCBs, pesticides...)		U	U
Slimes		N	U	Other - Specify:			
Other - Specify:				Sources of Stream Impacts			
				Bank Erosion		PL	U
				Point Source - Specify:			
Physical							
Bank Erosion		PL	U	Pasturing of Livestock		N	U
Channelization: - Upstream		N	U	Runoff: - Barnyard		N	U
- Downstream		N	U	- Construction		N	U
Hydraulic Scour / Channel Incision		N	U	- Cropland		PL	U
Impoundment: - Upstream		N	U	- Urban		N	N
- Downstream		N	U	Septic Systems		U	U
Low Flow		N	U	Tile Drainage - Organic Soils		U	U
Sedimentation		N	U	- Mineral Soils		U	U
Sludge		N	U	Springs		U	U
Thermal		N	U	Tributary(s)		U	U
Turbidity		N	U	Wetland		U	U
Other - Specify:				Other - Specify:			

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Abby Adams	Taxonomist Dimitry Jeffrey	Estimated Percent of Sample Sorted 27%
Date Processed 11-4-19	Specimens Saved Subsample archived in ABL until Jan 2023	

D3 A3 A1 C3
 35 19 41 33
 Total specs = 128

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicolar</i>	L	/1	6	Klub 2016		
<i>B. tricaudatus</i>	L	-11	7	"		
<i>Acanthopneura</i>	L	1	1	"	dam	N
<i>A. macdunnoughi</i>	L	-111	8	"		
Ephemerellidae	L	11	2	"	imm	N
<i>Ephemerella</i>	L	x1	11	"	imm	N
<i>E. excrucians</i>	L	2111	29	"		
<i>Maccaffertium vicarium</i>	L	111	3	"		
Leptophlebiidae	L	111	3	"	dam/imm	N
<i>Leptophlebia</i>	L	1	1	"		
<i>Paraleptophlebia</i>	L	0	20	"	imm	
<i>Alloaenidia</i>	L	1	1	Hils 1995		
<i>Amphinemura</i>	L	1111	4	"	imm	
<i>Isoperla transmarina</i>	L	1	1	Hils 1982		
<i>Glossosoma nigrum</i>	L	1	1	Wym Mar 2000		
<i>Ceratopsyche glossonae</i>	L	/	5	Schm Hils 1986		
<i>Cheumatopsyche</i>	L	1	1	Hils 1995		
<i>Hydropsyche betteni</i>	L	1	1	Schm Hils 1986		
<i>Neophylax</i>	L	1	1	Hils 1995	imm	
<i>Optioservus fastidius</i>	L	111	4	Hils Schm 1992		
<i>Bezzia/Palomyia</i>	L	1	1	Hils 1995		
Simuliidae	L	1	1	"	imm	Y
<i>Simulium</i>	L	1	1	Adl et al 2004	imm	
<i>Antocha</i>	L	1	1	Hils 1995		
<i>Dicranota</i>	L	11	2	"		
<i>Tipula</i>	L	11	2	"		
Dugesidae	A	1	1	Thorp 2016		
Naididae	A	/	5	Brin Geld 1991		
Spitt Ag Chironomidae	L	1111				
<i>Parametriocnemus</i>	L	11	2	Adl et al 2013		
<i>Tretania bavarica</i> group	L	111	3	Bede 1983		
<i>Paratanytarsus longistilus</i>	L	1	1	Edl et al 2013		
<i>Polypedilum (Uresipedilum) anceps</i>	L	11	2	Bolton 2012		
<i>Tanytarsus</i>	L	1	1	Edl et al 2013		