

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name GRAND RIVER	Waterbody ID Code 159300	Sample ID (YYYYMMDD-CY-FD) 20171108-24-02
Sampling Location		Database Key 149424409

SWIMS Station ID 243032	SWIMS Station Name GRAND RIVER AT HWY 44 BELOW MARK
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Latitude 43.7007267	Longitude -89.0056091	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 UPPER GRAND RIVER	County GREEN LAKE
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Sample and Site Descriptors

Sample Collector (Last Name, First) DAVID BOLHA	Project Name EAST DISTRICT NC STREAM STRATIFIED SITES 2017
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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) 4	Estimated Area Sampled (m²) 2.0	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. (°F) 38.4°F	D.O. (mg/l) 9.7	D.O. (%sat.) 72.1	pH (su) 7.6	Conductivity (umhos/cm) 775.3	Transparency (cm) 72
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Water Color <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <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)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.2	Average Stream Width of reach (m) 8m
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 10 Gravel (ladybug to tennisball): 40
 Sand: 10 Clay: _____ Silt/Muck: 20 Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: 20 Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 60 **Canopy Cover at Sample Site (%)** 100

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter	Kate Wilcox	Taxonomist	Dimick, Jeffrey	Estimated Percent of Sample Sorted	40%
Date Processed	7/11/18	Specimens Sayed	Subsample archived in ABC m41 Nov 2021		

A3=10 E2=24 B3=15
 1=22 A1=22

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Allorhyncha</i>	L	1		Hols 1995		
<i>Taeniopteryx</i>	L	1		"	imm	
<i>Baetis flavistriga</i> group	L	11		Klub 2016		
<i>Heptageniidae</i>	L	1		"	dam/imm	N
<i>Heptagenia</i>	L	1		"	imm	N
<i>H. elegantula</i>	L	1		"		
<i>Stenonema</i>	L	011		"	imm	N
<i>S. intermedium</i>	L	0-1		"		
<i>Hydropsychidae</i>	L	1		Hols 1995	imm	N
<i>Cheumatopsyche</i>	L	1-111		"		
<i>Hydropsyche betteni</i>	L	1		Schmidt Hols 1996		
<i>Dubiraphia</i>	L	1		Hols Schim 1992		
<i>Macronema glabratus</i>	L	1		"		
<i>Stenelmis</i>	L	1		"		N
<i>S. crenata</i>	A	1		"		
<i>Malleochaeta</i>	L	1111		Hols 1995		
<i>Nemoura</i>	L	11		Coatlett 2008		
<i>Chelifera</i>	L	111		"		
<i>Simulium vittatum</i> species complex 0810217	L	1-111		Adl et al 2021		
<i>S. fibroflatum</i>	L	1		"		
<i>S. jenningsi</i> species group	L	11		"	imm	N
<i>Antocha</i>	L	1		Hols 1995		
<i>Gammarus pseudolimnoides</i>	A	11		Hols 1972		
<i>Coelocampa intermedia</i>	A	1-1		Will 1972		
<i>Spid A3 Chironomidae</i>	L	N/D				
<i>Conchapelonia</i> 08270700	L	11	2	Cran Epl 2013		
<i>Parakiefferiella</i>	L	111	3	Ander+3 2013		
<i>Parametrioctenemus</i>	L	1	1	"		
<i>Eucricotopus</i>	L	1	1	"		
<i>Orthocladus</i> (<i>Orthocladus</i>)	L	1111	4	"		
<i>Chironominae</i> 08330000	L	1111	4	Cranston 2013	mt indet	N
<i>Chironomus</i>	L	1	1	Epl et al 2013		
<i>Cryptochironomus</i>	L	1	1	"		
<i>Microsectra</i>	L	1	1	"		
<i>Microtendipes pedellus</i> group	L	11	2	"		
<i>Pheotanytarsus</i>	L	1	1	"		

23 taxa, TVAL ≤ 2.0

