

**Instructions:** Bold fields must be completed.

Station Summary						
<b>Waterbody Name</b> SPRANGER CREEK			<b>Waterbody ID Code</b> 308500		<b>Sample ID (YYYYMMDD-CY-FD)</b> 20181029-37-02	
<b>Sampling Location</b> US culvert ~5m					<b>Database Key</b> 171260024	
<b>SWIMS Station ID</b> 10051136		<b>SWIMS Station Name</b> SPRANGER CREEK @ CTH II				
<b>Latitude</b>		<b>Longitude</b>		<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV GPS		<b>Datum Used if using GPS</b> WGS84 or NAD83
<b>Basin (WMU)</b> WOLF RIVER			<b>Watershed Name</b> MIDDLE AND SOUTH BRANCHES EMBARRAS			<b>County</b> MARATHON
Sample and Site Descriptors						
<b>Sample Collector (Last Name, First)</b> MYCAL RALEIGH				<b>Project Name</b> WEST DISTRICT NC STREAM STRATIFIED SITES 2018		
Sampling Device						
<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		<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1		<b>Number of Samples in Composite</b> 1		<b>Replicate No.</b> 1 <b>of</b> 1
Reason For Sampling						
<input type="checkbox"/> Least Impacted Reference		<input type="checkbox"/> Baseline		<input type="checkbox"/> Impact / Treatment Site		
<input type="checkbox"/> Control Site		<input type="checkbox"/> Trend		<input checked="" type="checkbox"/> Other: NLSR		
<b>Water Temp. (C)</b>	<b>D.O. (mg/l)</b>	<b>D.O. (% sat.)</b>	<b>pH (su)</b>	<b>Conductivity (umhos/cm)</b>		<b>Transparency (cm)</b>
<b>Water Color</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained				<b>Estimated Stream Velocity (m/s)</b> <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> circle units m/s or f/s		<b>Average Stream Depth of reach (m)</b> 3		<b>Average Stream Width of reach (m)</b> 4		
Composition of Substrate Sampled (Percent):						
<b>Bedrock:</b> _____		<b>Boulders (basketball or larger):</b> 10		<b>Rubble (tennisball to basketball):</b> 30		<b>Gravel (ladybug to tennisball):</b> 30
<b>Sand:</b> 20		<b>Clay:</b> _____		<b>Silt/Muck:</b> _____		<b>Overhanging Vegetation:</b> _____
<b>Aquatic Macrophytes:</b> _____		<b>Leaf Snags:</b> _____		<b>Coarse Woody Debris:</b> _____		<b>Other ( _____ ): _____</b>
<b>Embeddedness of Substrate at Sample Site (%)</b> 20				<b>Canopy Cover at Sample Site (%)</b> 40		

**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	Watershed	Factors that may be influencing Water Resource Integrity	Local	Watershed
<b>Biological</b>			<b>Chemical</b>		
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:			<b>Sources of Stream Impacts</b>		
<b>Physical</b>			Bank Erosion	N	U
Bank Erosion	N	U	Point Source - Specify:		
Channelization: - Upstream	N	U	Pasturing of Livestock	N	U
- Downstream	N	U	Runoff: - Barnyard	N	U
Hydraulic Scour / Channel Incision	N	U	- Construction	N	U
Impoundment: - Upstream	N	U	- Cropland	PL	U
- Downstream	N	U	- Urban	N	U
Low Flow	N	U	Septic Systems	U	U
Sedimentation	PL	U	Tile Drainage - Organic Soils	U	U
Sludge	N	U	- Mineral Soils	U	U
Thermal	N	U	Springs	U	U
Turbidity	N	U	Tributary(s)	U	U
Other - Specify:			Wetland	PL	U
			Other - Specify:		

Comments

Special Instructions for Laboratory

1E = 45

~~2C =~~

3E, 3A = 89

~~1A =~~

Total = 134

For Lab Use Only

Sample Sorter Murphy Steiner	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 20%
Date Processed 9/17/19	Specimens Saved Subsample archived in ABL until Dec 2022	

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Paracapsa angulata</i>	L	1	1	Waters 1974		
<i>Taeniopteryx</i>	L	11	2	Hols 1995	imm	N
<i>T. burksi</i>	L	1	1	Full Stew 1960		
<i>Taeniopterygidae</i> <del>demo/strains</del>	L	1	1	Hols 1995	imm	Y
<i>Baetis binnenculor</i>	L	1	1	Klein 2016		
<i>B. flavistriga</i> species complex	L	11	2	"		
<i>Acanemna pygmaea</i>	L	1	1	"	det	
<i>Ephemera subvaria</i>	L	1	1	"		
<i>Eurylophella</i>	L	1	1	"	imm	
<i>Machadotritum vicarium</i>	L	111	4	"		
<i>Paraleptophlebia</i>	L	1	1	"	det	
<i>Protophila</i>	L	11	2	Hols 1995		
<i>Deliaopsycha borealis</i>	L	1	1	"		
<i>Cheumatopsyche</i>	L	1	6	"		
<i>Lepidostoma</i>	L	1	1	"		
<i>Optiosevus</i>	L	01	21	Hols Schm 1992	imm	N
<i>O. fastiditus</i> L.5 A.2	L/A	11	7	"		
<i>Hemera chromia</i>	L	1	1	Cowd/Merr 2008		
<i>Chrysops</i>	L	1	1	Hols 1995		
<i>Gommanes pseudolummaeus</i>	A	31	31	Hols 1972		
<i>Mermithidae</i>	A	1	1	Thorp 1995 2016	imm	
<i>Dugesiiidae</i>	A	111	4	"		
<i>Tubificonae (w/o hairs)</i>	A	1	1	Klemm 1985		
<del><i>Split Az chironomidae</i></del>	<del>L</del>	<del>111</del>				
<i>Conchapelopia 08210700</i>	L	1	1	Cran Epl 2013		
<i>Thienemannimyia group</i>	L	1	1	"	imm	N
<i>Brillia</i>	L	1	1	Andr 3 2013	imm	
<i>Corynoneura</i>	L	1	1	"		
<i>Parametriocnemus</i>	L	11	2	"		
<i>Tuetenia bavaria group</i>	L	1111	4	Bode 1983		
<i>Chironominae 08330000</i>	L	1	1	Cranston 2013	not det	N
<i>Paratanytarsus species A</i>	L	1	1	Hols unpubl		
<i>P. bogisavlus</i>	L	x-11	17	Epl et al 2013		
<i>Polypedium (Uresipedium)</i>	L	1	1	"	imm	N
<i>P.(U.) aviceps</i>	L	11	7	Bolton 2012		
<i>Rhectanytarsus</i>	L	11	7	Epl et al 2013		
<i>Tanytarsus</i>	L	11	2	"		