

Wadeable Macroinvertebrate Field Data Report

Form 3200-081 (R 8/14)

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Instructions: Bold fields must be completed.

Station Summary

Waterbody Name UNNAMED		Waterbody ID Code 5014920	Sample ID (YYYYMMDD-CY-FD) 20161010-10-02
Sampling Location US 25m from bridge			Database Key 133642260
SWIMS Station ID 10044933	SWIMS Station Name UNNAMED CREEK (5014920) AT CTH H		
Latitude 44.6545802	Longitude -90.5211092	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) BLACK RIVER		Watershed Name CAWLEY AND ROCK CREEKS	County CLARK

Sample and Site Descriptors

Sample Collector (Last Name, First) Raleigh Mychal	Project Name WEST DISTRICT NC STREAM STRATIFIED SITES 2016
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Sampling Device

☒ 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 min	Estimated Area Sampled (m²) 3 m ²	Number of Samples in Composite 1	Replicate No. <u>1</u> of <u>1</u>
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Reason For Sampling

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

Water Temp. (C) 54°F	D.O. (mg/l)	D.O. (% sat.)	pH (su)	Conductivity (umhos/cm)	Transparency (cm)
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Water Color ☒ Clear ☐ Turbid ☐ Stained	Estimated Stream Velocity (m/s) ☒ Slow (< 0.15 m/s) ☐ Moderate (0.15 m/s - 0.5 m/s) ☐ Fast (> 0.5 m/s)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) .2 m	Average Stream Width of reach (m) 1 m
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Composition of Substrate Sampled (Percent):

Bedrock: _____	Boulders (basketball or larger): _____	Rubble (tennisball to basketball): <u>60</u>	Gravel (ladybug to tennisball): <u>30</u>
Sand: <u>10</u>	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____

Aquatic Macrophytes: _____	Leaf Snags: _____	Coarse Woody Debris: _____	Other (): _____
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Embeddedness of Substrate at Sample Site (%) <u>10</u>	Canopy Cover at Sample Site (%) <u>0</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
Biological			Chemical		
Algae: - Diatoms / Periphyton	PL		Chlorine		
- Filamentous Algae	N		Dissolved Oxygen		
- Planktonic Algae	N		Nutrients (P, N...)		
Iron Bacteria	U		Toxics: - Inorganic (Metals)		
Macrophytes	N		- Organic (PCBs, pesticides...)		
Slimes	N		Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	N	
			Point Source - Specify:		
Physical			Pasturing of Livestock	U	
Bank Erosion	N		Runoff: - Barnyard	PL	
Channelization: - Upstream	N		- Construction	N	
- Downstream	N		- Cropland	PH	
Hydraulic Scour / Channel Incision	N		- Urban	N	
Impoundment: - Upstream	N		Septic Systems		
- Downstream	N		Tile Drainage - Organic Soils		
Low Flow	U		- Mineral Soils		
Sedimentation	U		Springs		
Sludge	N		Tributary(s)		
Thermal	U		Wetland		
Turbidity	N		Other - Specify:		
Other - Specify:					

Comments

Upstream appears to be old cattle pasture, runs into woodland ~150 yards
Special Instructions for Laboratory
from road. Cropland all around. Can see sand mining from road,
DS direction ~1/4 - 1/2 mile away.

For Lab Use Only

Sample Sorter Taylor Hov2	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 20%
Date Processed 4/11/17	Specimens Saved subsample archived in ABL mtd 1 Oct 2020	

D1 48
B2 53
D3 64

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicolar</i>	L	I	1	Kluebert et al. 2016		
<i>Caenis</i>	L	-	5	"	dam/imm	N
<i>C. latipennis</i>	L	III	3	"		
<i>Eurylophella</i>	L	I	1	"	imm	
<i>Stenocranus interpunctatum</i>	L	III	4	"		
<i>Leptophlebia cupida</i>	L	II	2	"		
<i>Basiaeschna janata</i>	L	I	1	Nord. et al. 2000		
<i>Calopteryx aequabilis</i>	L	II	2	Ward, May 1996		
<i>C. maculata</i>	L	II	2	"		
<i>Cheumatopsyche</i>	L	I	1	Hilsenhoff 1995		
<i>Ceratopsyche mureosa bifida form</i>	L	I	1	Schm., Hils. 1986		
<i>Dicranophia</i>	L	I-III	29	Hils., Schm. 1992		N
<i>D. minima</i>	A	II	2	"		
<i>Optioservus</i>	L	XI	11	"	imm	N
<i>D. festinus</i>	L	I	1	"		
<i>Dicranota</i>	L	I	1	Hilsenhoff 1995		
<i>Hyalella</i>	A	III	3	Pennak 1978		
<i>Caecidotea racovitzai racovitzai</i>	A, J	Bi	41	Williams 1972		
<i>Belostomatidae</i>	A	I	1	Hilsenhoff 1984a		
<i>Enchytraeidae</i>	A	II	2	Brin, Gold. 1991		
<i>Naididae</i>	A	II	2	"		
<i>Tubificinae</i> w/ capilliform chaetae	A	XI	11	Klemm 1985		
<i>Conchapelopia</i>	L	I	1	Cran, Epler 2013		
<i>Labrundinia pilosella</i>	L	I	1	Epler 2001		
<i>Meropelopia</i>	L	II	2	Cran, Epler 2013		
<i>Natarsia baltimorea</i>	L	II	2	Epler 2001		
<i>Procladius (Holotanypus)</i>	L	I	1	Cran, Epler 2013		
<i>Diamesa</i>	L	I	1	Saeth, Ander. 2013		
<i>Corynoneura</i>	L	III	4	Ander. + 3 2013		
<i>Stilbocladus</i>	L	II	2	"		
<i>Thienemannella</i>	L	I	1	"		
<i>Orthocladus (Orthocladus)</i>	L	I	1	"		
<i>Cryptochironomus</i>	L	I	1	Epler et al 2013		
<i>Dicrotendipes</i>	L	II	2	"		
<i>Micronsectra</i>	L	III	3	"		
<i>Paratanypus</i> sp. A	L	I	1	Hilsenhoff unpubl.		

[illegible]