

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name ELK CREEK		Waterbody ID Code 2120800	Sample ID (YYYYMMDD-CY-FD) 20171002-09-03
Sampling Location DS of bridge ~ 35m		Database Key 148368960	
SWIMS Station ID 10030130		SWIMS Station Name ELK CREEK AT 35TH STREET	
Latitude 44.93927	Longitude -91.60007	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) LOWER CHIPPEWA		Watershed Name MUDDY AND ELK CREEKS	County CHIPPEWA

Sample and Site Descriptors	
Sample Collector (Last Name, First) MYCAL RALEIGH	Project Name WCR LONG-TERM TREND WADEABLE REFERENCE STREAMS

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) 5 min 30 sec	Estimated Area Sampled (m ²) 1m ²	Number of Samples in Composite 1	Replicate No. <u>1</u> of <u>1</u>
---	---	-------------------------------------	------------------------------------

Reason For Sampling

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

Water Temp. (C) 12.19	D.O. (mg/l) 10.89	D.O. (%sat.) 101.5	pH (su) 7.02	Conductivity (umhos/cm) 152	Transparency (cm)
--------------------------	----------------------	-----------------------	-----------------	--------------------------------	-------------------

Water Color <input checked="" type="checkbox"/> Clear <input 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)
---	---

Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) .3	Average Stream Width of reach (m) 5m
---	---	---

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 50
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: 30 Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____

Embeddedness of Substrate at Sample Site (%) 40% Canopy Cover at Sample Site (%) 0%

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

Comments Stream heavily pastured U.S. by horses, traps surround stream U.S. & D.S. Habitat sampled was large creek under the run. Area of aquatic macrophytes, grasses, rocks, and sand, some a bit of crop debris in watershed.

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Kayla W/COV</i>	Taxonomist <i>Dimick Jeffray</i>	Estimated Percent of Sample Sorted <i>710</i>
Date Processed <i>11/27/18</i>	Specimens Saved <i>Subsample returned in ABL with 1 Jan 2022</i>	

A3 = ~~27~~ 267

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Allocapnia</i>	L	i	1	Hils 1995		
<i>Isoperla signata</i>	L	iii	3	Hils 1992		
<i>I. slossonae</i>	L	iii	3	"		
<i>I. transmarina</i>	L	i	1	"		
<i>Taeniopteryx</i>	L	-ii	7	Hils 1995		
<i>Baetis brunneicolor</i>	L	iii	3	Klub 2016		
<i>Ephemera</i>	L	x-iii	18	"	imm	N
<i>E. excrucians</i>	L	ii	2	"		
<i>Paraleptophlebia</i>	L	iii	3	"	imm	
<i>Brachycentrus americanus</i>	L	-ii	7	Hils 1995		
<i>B. occidentalis</i>	L	i	1	"		
<i>Microsema</i>	L	i	1	"	imm	
<i>Hydropsyche betterii</i>	L	iii	3	Schim Hils 1986		
<i>Ceratopsyche slossonae</i>	L	0-ii	27	"		
<i>Hydropsyche</i>	L	i	1	Wigg 1977		
<i>Ceratopsyche spuma</i>	L	i	1	Schim Hils 1986		
<i>Otosema</i>	L	iii	5	Hils Schim 1992	imm	N
<i>O. fastidius</i>	L, A	-ii	7	"		
<i>O. rivittatus</i>	A	i	1	"		
<i>Stenelmis crenata</i>	A	iii	4	"		
<i>Hemerodromia</i>	L	i	1	Count Merr 2008		
<i>Neonasta</i>	L	i	1	"		
<i>Simulium</i>	L	iii	3	Adl et al 2004	imm	N
<i>S. venustum</i> species complex	L	i	1	"		
<i>S. jenningsi</i> species group	L	i	1	"		
<i>Amblyops</i>	L	iii	3	Hils 1995		
<i>Dirranota</i>	L	ii	2	"		
<i>Hesperocanona dolichophallus</i>	L	ii	2	"		
<i>Atherix variegata</i>	L	i	1	"		
<i>Gammarus pseudolimnoides</i>	A	-i	6	Hils 1972		
<i>Psephenidae</i>	A	-ii	7	Will 1972	feimimm	
<i>Hydrobiidae</i>	A	-iii	8	Pluch 1984		
<i>Leuctica</i>	A	x	10	"		
<i>Limnesia</i>	A	ii	2	"		
<i>Smerchanopsis</i>	A	i	1	"		
<i>Belostomatidae</i>	A	i	1	Hils 1984a		

