

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name OTTER CREEK	Waterbody ID Code 2156800	Sample ID (YYYYMMDD-CY-FD) 2017/03/09-02
Sampling Location		Database Key 150431330

SWIMS Station ID 10008713	SWIMS Station Name OTTER CREEK - CTHS G AND S
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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 LOWER YELLOW (CHIPPEWA CO.) RIVER	County CHIPPEWA
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Sample and Site Descriptors

Sample Collector (Last Name, First) MYCAL RALEIGH	Project Name WEST 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) 12 min (30 sec)	Estimated Area Sampled (m²) 1 m ²	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: NCSR

Water Temp. (C)	D.O. (mg/l)	D.O. (% sat.)	pH (su)	Conductivity (umhos/cm)	Transparency (cm)
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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)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) .2	Average Stream Width of reach (m) 4.5m
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 95 Gravel (ladybug to tennisball): _____
 Sand: 5 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 0 **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			Factors that may be influencing Water Resource Integrity		
Local	Water-shed		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	U	U
Physical			Point Source - Specify:		
Bank Erosion	N	U	Pasturing of Livestock	PH	U
Channelization: - Upstream	N	U	Runoff: - Barnyard	N	U
- Downstream	N	U	- Construction	N	U
Hydraulic Scour / Channel Incision	U	U	- Cropland	PL	U
Impoundment: - Upstream	U	U	- Urban	N	U
- Downstream	U	U	Septic Systems		
Low Flow	N	U	Tile Drainage - Organic Soils	U	U
Sedimentation	N	U	- Mineral Soils	U	U
Sludge	N	U	Springs	U	U
Thermal	U	U	Tributary(s)	U	U
Turbidity	N	U	Wetland	U	U
Other - Specify:			Other - Specify:		

Comments: Flow out of Otter Lake. Heavy pasturing DS to US 950m. Cropland all around

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Kayla Wilcox</i>	Taxonomist <i>Dimick LeMay</i>	Estimated Percent of Sample Sorted <i>79</i>
Date Processed <i>8/15/14</i>	Specimens Saved <i>Subsample archived in ABL until Dec 2020</i>	

D2 = 179

	Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
	<i>Allocaenia</i>	L	III	4	Hils 1995		
1/3	<i>Paracania angulata</i>	L	III	3	Hitch 1974		
	<i>Isopoda</i>	L	I	1	Hils 1995	imm	
2/5	<i>Taeniopteryx</i>	L	II	2	"	imm	
	<i>Oemopteryx / Strophopteryx</i>	L	II	2	Schm unpubl	imm	
	<i>Maccaffertium</i>	L	I	1	Kleb 2016	imm	Y
	<i>M. medianum</i>	L	III	4	"		
	<i>Leptanthebiidae</i>	L	III	5	"	dam	
3/6	<i>Paraleptanthebia mollis</i>	L	I	1	"		
	<i>Idiosyncrasis</i>	L	I	1	Hils 1995	dam	N
	<i>Cheumatopsyche</i>	L	-I	6	"		
	<i>Ceratopsyche branta</i>	L	I	1	Schm Hils 1986		
1/8	<i>Leucotrichia pictipes</i>	L	II	2	Hils 1995		
	<i>Chimarra</i>	L	I	1	"	imm	N
	<i>C. obscura</i>	L	II	2	Hils 1982		
	<i>notoservis</i>	L	I	1	Hilg Schm 1992	imm	N
	<i>O. fastiditus</i>	L	I	1	"		
1/11	<i>O. trivittatus</i>	L	III	3	"		
	<i>Stenelmis</i>	L	-III	10	"		
1/2	<i>Atherix variegata</i>	L	I	1	Hils 1995		
	<i>Hemerodromia</i>	L	I	1	Coat Meir 2008		
	<i>Simuliidae</i>	L	-I	6	Coat Meir 2008	imm	Y
	<i>Simulium vittatum</i> species complex	L	I-III	28	Adl et al 2004		
	<i>Dicranota</i>	L	III	4	Hils 1995		
	<i>Dugesiiidae</i>	A	II	2	Thorp 2016		
	<i>Nannidae</i>	A	II	2	"		
	<i>Naididae</i>	A	III	43	Brauer 1991		
	<i>Tubificinae</i> (without hairs)	A	II	2	Klemm 1985		
	<i>Limnocalanus macrurus</i>	A	I	1	Thorp 2016		
	<i>Bezzia / Palpomyia</i>	L	I		Hils 1995		
	<i>Cochyloptera</i> 08270700	L	I	1	Gen Ed 2013		
	<i>Nilotanyptus</i>	L	III	3	"		
	<i>Thienemannimyia</i> group	L	II	2	"	imm	Y
	<i>Diplocladius</i>	L	I	1	Adler + 3 2013		
	<i>Eukiefferella clavigeris</i> group	L	I	1	"		
	<i>Lopescladius</i>	L	III	4	"		

>3 taxa, TVAL ≤ 2.0

12 < (0.1 x 133)

