

sample in 2 jars

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name EAU GALLE RIVER		Waterbody ID Code 2055000	Sample ID (YYYYMMDD-CY-FD) 20171106-48-04
Sampling Location DS at confluence ~20m		Database Key 153706346	
SWIMS Station ID 10012177		SWIMS Station Name EAU GALLE 18MATCONFLUENCE W/MINES CREEK	
Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) LOWER CHIPPEWA		Watershed Name EAU GALLE RIVER	County PIERCE

Sample and Site Descriptors	
Sample Collector (Last Name, First) MYCAL RALEIGH	Project Name WEST DISTRICT FOLLOW UP MONITORING FOR IMPAIRME

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) 15 min	Estimated Area Sampled (m ²) 1.5 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: Follow Up

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 type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" 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) .35	Average Stream Width of reach (m) 5.5
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 5 Rubble (tennisball to basketball): 15 Gravel (ladybug to tennisball): 50
 Sand: 30 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____
 Embeddedness of Substrate at Sample Site (%): 70 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	U	U	Chlorine	U	U
- Filamentous Algae	N	U	Dissolved Oxygen	U	U
- Planktonic Algae	N	U	Nutrients (P, N...)	U	U
Iron Bacteria	PL	U	Toxics: - Inorganic (Metals)	U	U
Macrophytes	PL	U	- Organic (PCBs, pesticides...)	U	U
Slimes	N	U	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	N	U
Physical			Point Source - Specify:		
Bank Erosion	N	U	Pasturing of Livestock	N	U
Channelization: - Upstream	N	U	Runoff: - Barnyard	N	U
- Downstream	N	U	- Construction	N	U
Hydraulic Scour / Channel Incision	N	U	- Cropland	N	U
Impoundment: - Upstream	N	PH	- Urban	PL	U
- Downstream	N	PH	Septic Systems	U	U
Low Flow	N	U	Tile Drainage - Organic Soils	U	U
Sedimentation	PH	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 Deep, fast riffle. Mainly substrate covered by thick gravel/sand mix as seen in samples. After sampling, could see clear bottom w/ larger gravel. Mines Creek noted to have Iron bacteria and large amounts of CLP and Elodea. CLP & Elodea in sample area as well

Special Instructions for Laboratory moved lawn right to water's edge

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For Lab Use Only		
Sample Sorter	Kayla Wilcox	Taxonomist
Date Processed	2/1/18	Specimens Saved
		Subsample archived in APX until Apr 2021
		Estimated Percent of Sample Sorted
		7%

U = 690

646 + 44 690

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
1/1 <i>Brachycentrus accidentalis</i>	L	I	1	Hilsehoff 1985		
<i>Cheumatopsyche</i>	L	8-III	48	Hilsehoff 1985		
<i>Ceratopsyche</i>	L	8	30	"	imm	N
<i>C. mucosa bifida</i> form	L	888-11	177	Schm, Nils. 1966		
<i>Chimarra obscura</i>	L	III	4	Hilsehoff 1982		
<i>Optroservus</i>	L	XIII	13	Nils, Schm. 1992	imm	N
<i>O. fastiditus</i>	L	0-11	22	"		
<i>Stenelmis</i>	L	0-III	29	"		N
<i>S. crenata</i>	A	II	2	"		
2/2 <i>Atherix</i> variegata	L	I	1	Hilsehoff 1985		
<i>Nemserodromia</i>	L	III	4	Count, Merr. 2008		
<i>Simulium vittatum</i> Species Complex 08110217	L	-I	6	Adler et al 2004		
<i>Anocha</i>	L	II	2	Hilsehoff 1985		
<i>Simulium</i>	L	I	1	Adler et al 2004	imm	N
<i>Accidotea</i>	A	I	1	Williams 1972	Fem	
<i>Tricladida</i>	A	0-III	34	Kolasa 1981		
<i>Naididae</i>	A	-I	6	Bank, Gold. 1991		
<i>Tubificoid</i> Naididae w/ capilliform chaetae	A	I	1	Egense et al 2008		
Split A3 Chironomidae	L	X-III				
<i>Cerchapelepa</i>	L	X-11	17	Gran, Epler 2013		
<i>Zavelimyia</i>	L	I	1	"		
<i>Orthocladiinae</i> 08300000	L	-I	6	Granston 2013	imm	N
<i>Eukiefferiella</i>	L	X-11	12	Ander+3 2013	mit indet/ dam/imm	N
<i>Eu. brehmi</i> group	L	11	3	"		
<i>Rheocricotopus</i>	L	11	2	"	imm	
<i>Trebentia havarica</i> group	L	X-1	16	Bode 1983		
<i>Tv. discoloripes</i> group	L	8-III	39	"		
<i>Nanocladius</i>	L	-III	8	Ander+3 2013	imm	
<i>Cricotopus/orthocladius</i>	L	-11	8	Ferr. et al. 2008	imm	N
<i>Cricotopus</i>	L	I	1	Ander+3 2013		
<i>C. (Cricotopus) tremulus</i> group	L	-	5	"		
<i>Chironominae</i> 08330000	L	III	3	Granston 2013	imm	N
<i>Dicrotendipes</i>	L	III	4	Epler et al 2013		
<i>Microtendipes pedellus</i> group	L	-11	7	"		
<i>Paratanytarsus longistylus</i>	L	I	1	"		
<i>Polypedilum (Tripedure) scalareum</i> group	L	11	3	Boltan 2012		

3 taxa, TVAL ≤ 2:0

3 < (0.1 x 676)

