

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name EAST CREEK		Waterbody ID Code 2943500	Sample ID (YYYYMMDD-CY-FD) 20171023-26-08
Sampling Location			Database Key 148375066
SWIMS Station ID 10032146	SWIMS Station Name EAST CREEK ON UNNAMED ROAD IN IRON COUNTY FOREST		
Latitude 46.31944	Longitude -90.23756	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) LAKE SUPERIOR		Watershed Name MONTREAL RIVER	County IRON

Sample and Site Descriptors

Sample Collector (Last Name, First) JON KLEIST	Project Name MONTREAL RIVER WATERSHED TWA 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) 1	Estimated Area Sampled (m²) 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: TWA Project

Water Temp. (C) 0.8	D.O. (mg/l) 12.5	D.O. (%sat.) 87	pH (su) 8.0	Conductivity (umhos/cm) 27	Transparency (cm) 7120
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Water Color <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" 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) 0.4	Average Stream Width of reach (m) 5
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 50
 Sand: 20 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____

Embeddedness of Substrate at Sample Site (%) 30 **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	N	Chlorine		N	N
- Filamentous Algae				Dissolved Oxygen			
- Planktonic Algae				Nutrients (P, N...)			
Iron Bacteria			U	Toxics: - Inorganic (Metals)			
Macrophytes			PL	- Organic (PCBs, pesticides...)			
Slimes			N	Other - Specify:			
Other - Specify:				Sources of Stream Impacts			
				Bank Erosion		N	N
				Point Source - Specify:			
				Pasturing of Livestock			
Physical				Runoff: - Barnyard			
Bank Erosion		N	N	- Construction			
Channelization: - Upstream				- Cropland			
- Downstream				- Urban			
Hydraulic Scour / Channel Incision				Septic Systems			
Impoundment: - Upstream			U	Tile Drainage - Organic Soils			
- Downstream			U	- Mineral Soils			
Low Flow			U	Springs			U
Sedimentation				Tributary(s)			U
Sludge				Wetland		PL	PL
Thermal				Other - Specify:			
Turbidity							
Other - Specify:							

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter <i>Kyle Wilcox</i>	Taxonomist <i>Dimick Jeffrey</i>	Estimated Percent of Sample Sorted <i>7%</i>
Date Processed <i>6/14/18</i>	Specimens Saved <i>subsample archived in ABL until 1 Oct 2021</i>	

E2=Q19

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Caenis</i>	L	i	6	Kleb 2016	dam/imm	N
<i>C. latipennis</i>	L	x	10	"		
<i>Eurylophella funeralis</i>	L	i	1	"		
Heptageniidae	L	i	1	"	imm	
Leptophlebiidae	L	ii	2	"	dam/imm	N
<i>Leptophlebia</i>	L	-	5	"	imm	N
<i>L. apida</i>	L	i	1	"		
<i>Oxyethira</i>	L	i	1	Hils 1995		
<i>Mystacides</i>	L	i	1	"	imm	
<i>Dibicaphia</i>	L	xiii	14	Hils Schum 1992		
<i>Culicoides</i>	L	i	1	Hils 1995		
<i>Probezzia</i>	L	-ii	7	"		
<i>Bezzia/Palpaomyia</i>	L	ii	2	"		
<i>Hesperocorixa</i>	A	i	1	Hils 1984a		
Tubificonae (w/o hairs)	A	i	1	Brin Gled 1991		Y
Tubificonae (with hairs)	A	i	1	"		Y
<i>Lumbriculus</i>	A	i	1	Thorp 2016		
<i>Gyrodactylus deflectus</i>	A	i	1	"		
Salix Az Chironomidae	L	ii				
Chironomidae Dasyhelea	L	i	1	Hils 1995		
<i>Abiahesomyia (Abiahesomyia)</i>	L	iii	3	Coan Epl 2013	imm	
<i>Thienemannimyia</i> group	L	i	1	"	imm	
<i>Orthocladiinae</i> 08300000	L	i	1	Coan et al 2013	imm	N
<i>Parakiefferiella</i>	L	iiii	23	Ander + 3 2013		
<i>Parametriocnemus</i>	L	i	1	"		
<i>Procladius</i>	L	iii	4	Coan Epl 2013	imm	
<i>Orthocladius (Orthocladius)</i>	L	iii	3	Ander + 3 2013		
<i>O. (Symplesiocladus) annectens</i>	L	iii	3	Bolton 2012		
<i>Cricotopus (Cricotopus) bicinctus</i> group	L	i	1	Ander + 3 2013		
<i>Cladotanytarsus</i>	L	0ii	22	Epl et al 2013		
<i>Cryptochironomus</i>	L	-	5	"		
<i>Cryptotendipes</i>	L	iiii	4	"		
<i>Dicrotendipes</i>	L	xi	11	"		
<i>Microtendipes pedellus</i> group	L	iii	4	"		
<i>Nilothauma</i>	L	i	1	"		
<i>Pagastiella astansa</i>	L	iii	3	"		

