

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name Un Trib to Un Trib	Waterbody ID Code 2991900	Sample ID (YYYYMMDD-CY-FD) 20181002-24-06
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Sampling Location
50 m DS Park Rd.

SWIMS Station ID 10051577	SWIMS Station Name Unnamed trib (2991900) to Unnamed water	Database Key 168776353
Latitude 46.48087	Longitude -96.25063	Lat/Long Determination method (circle) SWIMS SWDV GPS
Basin (WMU) Lake Superior	Watershed Name Montreal River	Datum Used if using GPS NAD 27 or NAD83
		County Iron

Sample and Site Descriptors

Sample Collector (Last Name, First) Kleist, Jon	Project Name Montreal R. TWA
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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) 1	Estimated Area Sampled (m²) 1.5	Number of Samples in Composite 3	Replicate No. 1 of 1
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Reason for Sampling

Least Impacted Reference Baseline Impact / Treatment Site
 Control Site Trend Other: Montreal River TWA

Water Temp. (C) 9.1	D.O. (mg/l) 9.2	D.O. (% sat.) 79.1	pH (su) 7.2	Conductivity (umhos/cm) 275	Transparency (cm) >120
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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)

Measured Velocity circle units mps or cfs	Average Stream Depth of reach (m) 0.3	Average Stream Width of reach (m) 1
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball or basketball): _____ Gravel (ladybug to tennisball.): 100
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Course Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 10 **Canopy Cover at Sample Site (%)** 90

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

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter <i>Sam Laparche</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>70%</i>
Date Processed <i>3/29/2019</i>	Specimens Saved <i>Subsample archived in HBL until Jun 2022</i>	

A3
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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Paracappria angulata</i>	L	-III	10	Hitch 1974		
<i>Baetis brunneicolor</i>	L	III	22	Klubs 2016		
B. Acapenna	L	I	1	"	dam	N
<i>A. macdonoughii</i>	L	-	5	"		
<i>Paraleptophlebia</i>	L	II	2	"	imm	
<i>Microstema solidum</i>	L	II	2	Hils 1985		
<i>Cheumatopsyche</i>	L	III	24	Hils 1995		
<i>Hydropsyche</i>	L	I	1	"	imm	N
<i>H. betteni</i>	L	-III	8	Schum Hils 1986		
<i>Dipterona modesta</i>	L	III	3	Hils 1995		
<i>Lepidostoma</i>	L	I	1	"		
<i>Rhyacophila</i>	L	I	1	"	imm	
<i>Optiosevus</i>	L	8-III	48	Hils Schum 1992	imm	N
<i>O. fastidiosus</i> L II A 7	L A	x-IV	18	"		
<i>Stenelmis crenata</i>	A	I	1	"		
<i>Bezzia/Palpa myia</i>	L	III	4	Hils 1995		
<i>Stegopterna</i>	L	I	1	Adl et al 2004		
<i>Pseudolamprophila</i>	L	II	2	Hils 1995		
<i>Tipula</i>	L	I	1	"		
<i>Corynephila</i>	P	I	1	Ferr et al 2008		
<i>Lumbriculus</i>	A	xI	11	Thorp 2016		
<i>Metagynophora = Megadrili</i>	A	I	1	"		
<i>Nephelopsis obscura</i>	A	I	1			
<i>Pisidium</i>	A	I	1	Burch 1972		
Split to Chironomidae	L	III-III				
<i>Dixaesa</i>	L	I	1	Saeth Anders 2013		
<i>Corynephila</i>	L	I	1	And + 3 2013		N
<i>Zarelimyia</i> 08273000	L	II	2	Cran Epl 2013		
<i>Thienemanniomyia</i> group	L	III	3	"	mt indet/imm	
<i>Parametrisocnemus</i>	L	II	2	And + 3 2013		
<i>Helenella</i>	L	I	1	"		
<i>Chironominae</i> 08330000	L	I	1	Cranston 2013	mt indet	N
<i>Microsestra</i>	L	I	1	Epl et al 2013		
<i>Paratanytarsus</i> species A	L	II	2	Hils unpubl		
<i>P. longistylus</i>	L	I	1	Epl et al 2013		
<i>Polypedilum (Unipedilum) aviceps</i>	L	II	2	Isolton 2012		

