

-26-01

Instructions: Bold fields must be completed.

**Station Summary**

<b>Waterbody Name</b> MONTREAL RIVER		<b>Waterbody ID Code</b> 2940300	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20170929-01-11
<b>Sampling Location</b> 50 DS CTHC			<b>Database Key</b> 148375078
<b>SWIMS Station ID</b> 263012		<b>SWIMS Station Name</b> MONTREAL RIVER AT CTH C	
<b>Latitude</b> 46.38777	<b>Longitude</b> -90.14120	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV <u>GPS</u>	<b>Datum Used if using GPS</b> <u>WGS84</u> or NAD83
<b>Basin (WMU)</b> LAKE SUPERIOR		<b>Watershed Name</b> MONTREAL RIVER	<b>County</b> IRON

**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> JON KLEIST	<b>Project Name</b> 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

<b>Total Sampling Time (min)</b> 1	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1	<b>Number of Samples in Composite</b> 1	<b>Replicate No.</b> 1 <b>of</b> 1
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**Reason For Sampling**

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

<b>Water Temp. (C)</b> 13.2	<b>D.O. (mg/l)</b> 9.6	<b>D.O. (% sat.)</b> 91%	<b>pH (su)</b> 6.4	<b>Conductivity (umhos/cm)</b> 87	<b>Transparency (cm)</b> 114
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<b>Water Color</b> <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" type="checkbox"/> Stained	<b>Estimated Stream Velocity (m/s)</b> <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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<b>Measured Velocity</b> 0.4 <u>m/s</u> or f/s	<b>Average Stream Depth of reach (m)</b> 0.3	<b>Average Stream Width of reach (m)</b> 7
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 50 Gravel (ladybug to tennisball): 30  
 Sand: 20 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: \_\_\_\_\_ Other ( ): \_\_\_\_\_  
 Embeddedness of Substrate at Sample Site (%) 20 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
<b>Biological</b>			<b>Chemical</b>		
Algae: - Diatoms / Periphyton	PL	PL	Chlorine	N	N
- Filamentous Algae	N	N	Dissolved Oxygen	N	N
- Planktonic Algae	N	N	Nutrients (P, N...)	N	N
Iron Bacteria	N	U	Toxics: - Inorganic (Metals)	N	N
Macrophytes	N	N	- Organic (PCBs, pesticides...)	N	N
Slimes	N	N	Other - Specify:		
Other - Specify:			<b>Sources of Stream Impacts</b>		
			Bank Erosion	PL	PL
			Point Source - Specify:	N	N
<b>Physical</b>			Pasturing of Livestock	N	U
Bank Erosion	PL	PL	Runoff: - Barnyard	N	N
Channelization: - Upstream	N	N	- Construction	N	N
- Downstream	N	N	- Cropland	N	N
Hydraulic Scour / Channel Incision	N	N	- Urban	N	PL
Impoundment: - Upstream	N	PL	Septic Systems	N	N
- Downstream	N	PL	Tile Drainage - Organic Soils	N	N
Low Flow	N	N	- Mineral Soils	N	N
Sedimentation	N	N	Springs	N	U
Sludge	N	N	Tributary(s)	N	U
Thermal	N	N	Wetland	PL	PL
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter	<i>Kayla Wilcox</i>	Taxonomist	<i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted	<i>13%</i>
Date Processed	<i>6/12/18</i>	Specimens Saved	<i>subsample archived in JBL container Oct 2021</i>		

*CL=120  
 D3=93*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<del>Alloparania</del>	L	0	2	Nils 1995		
<del>Paracarina</del> <i>Paracarina angulata</i>	L	011	22	Nitch 1974		
<i>Acropneuria</i>	L	IIII	4	Nils 1995	imm	N
<i>A. lycorias</i>	L	11	2	Nitch 1974		
<i>Paracarina media</i>	L	1	1	Nils 1995		
Perlodidae	L	1	1	"	imm	N
<i>Isoperla</i>	L	1	1	"	imm	N
<i>I. signata</i>	L	1	1	Nils 1982		
<i>Taeniopteryx</i>	L	-III	8	Nils 1995	imm	
<i>Ephemerella</i>	L	-	5	Klob 2016	imm	Y
<i>E. subvaria</i>	L	1	1	"		
<i>Eurylophella</i>	L	1	1	"	imm	
Heptageniidae	L	1	1	"	imm	
<i>Paraleptophlebia</i>	L	IIII	4	"	dam	
<i>Glossosoma</i>	L	-	5	Nils 1995	imm	N
<i>G. intermedium</i>	L	IIII	4	Wym Mor 2000		
<i>Cheumatopsyche</i>	L	-IIII	9	Nils 1995		
<i>Ceratopsyche glossanae</i>	L	III	3	Schm Nils 1986		
<i>C. spumea</i>	L	-	5	"		
Setodes	L	1	1	Nils 1995		
Philopotamidae	L	IIII	5	"	imm	N
<i>Chimarra</i>	L	X-11	17	"	imm	N
<i>Ch. aterrima</i>	L	11	2	Nils 1982		
<i>Ch. obscura</i>	L	1	1	"		
<i>Ch. socia</i>	L	IIII	4	"		
<i>Psychomyia flavida</i>	L	11	3	Nils 1995		
<i>Nigronia serricornis</i>	L	11	2	Newn 1966		
<i>Optroservus</i>	L	-11	7	Nils Schm 1992	imm	N
<i>O. fastiditoides fastiditus</i>	L	1	1	"		
<i>O. trivittatus</i> L, 4 A, 2	L, A	-1	6	"		
<i>Stenelmis</i>	L	IIII	4	"		N
<i>S. crenata</i>	A	IIII	4	"		
<i>Nemerochromia</i>	L	11	2	Cont Merr 2008		
<i>Dicranota</i>	L	11	2	Nils 1995		
Dugesiiidae	A	1	1	Thorp Gow 2016		
Naididae	A	11	2	Brin Geld 1991		
Lumbriculus	A	1	1	Thorp Gow 2016		

