

**Instructions:** Bold fields must be completed.

**Station Summary**

<b>Waterbody Name</b> Unnamed Trib to Montreal River	<b>Waterbody ID Code</b> 2940700	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20191008-26-02
<b>Sampling Location</b> Downstream CTH B		<b>Database Key</b> 226463898

<b>SWIMS Station ID</b> 10052982	<b>SWIMS Station Name</b> UNNAMED TRIBUTARY (2940700) TO MONTREAL RIVER DS CTH B
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<b>Latitude</b> 46.52943	<b>Longitude</b> -90.38729	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV <u>GPS</u>	<b>Datum Used if using GPS</b> WGS84 or <u>NAD83</u>
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<b>Basin (WMU)</b> LAKE SUPERIOR	<b>Watershed Name</b> MONTREAL RIVER	<b>County</b> IRON
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**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> JOSEPH CUNNINGHAM	<b>Project Name</b> MONTREAL RIVER TWA 2017-2018-2019 (2021 WQPLAN)
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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 min	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1 m <sup>2</sup>	<b>Number of Samples in Composite</b> 3-20 second kicks	<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: \_\_\_\_\_

<b>Water Temp. (C)</b> 10.5	<b>D.O. (mg/l)</b> 9.9	<b>D.O. (% sat.)</b> 88.6	<b>pH (su)</b> 7.7	<b>Conductivity (umhos/cm)</b> 258	<b>Transparency (cm)</b> >120
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<b>Water Color</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input 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> circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b> 0.15 m	<b>Average Stream Width of reach (m)</b> 1.5 m
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): 40  
 Sand: 10 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: 10 Coarse Woody Debris: \_\_\_\_\_ Other ( ): \_\_\_\_\_

**Embeddedness of Substrate at Sample Site (%)** 20     
**Canopy Cover at Sample Site (%)** 70

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

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter Logan Cutler	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 15%
Date Processed 2/23/2020	Specimens Saved 90 + 164 = 254	

D1 D3 Total

2 hr  
 subsample archived in ABL cabinet Jan 2023

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Acephenax macdonoughi</i>	L	1	1	Kitch 2016		
<i>Maccaffertium</i>	L	"	2	"	imm	
<i>Leptophlebia</i>	L		4	"		
<i>Cordulegaster</i>	L	1	1	Need et al 2014	imm	
<i>Allocaenia</i>	L	"	2	Hils 1995		
<i>Paracaenia angulata</i>	L	8888	150	Hitch 1974		
Perlodidae	L	1	1	Hils 1995	imm	
<i>Ceratopsyche slovicanae</i>	L	"	2	Schm Hils 1986		
<i>Chaumatopsyche</i>	L	01	25	Hils 1995		
<i>Diplectrona modesta</i>	L	-14	8	"		
<i>Hydropsyche betteni</i>	L	1	1	Schm Hils 1986		
<i>Polycentropus</i>	L		4	Hils 1995		
<i>Neophylax</i>	L	1	1	"	imm	
<i>Stalis</i>	L	1	1	"		
<i>Helichus striatus</i>	A	1	1	Hils Schm 1992		
<i>Optroservus</i>	L	-	9	"	imm	N
<i>O-fastiditus</i>	LA	-11	7	"		
<i>Stenelmis</i>	L	"	2	"		
<i>Ceratopogon colicoidithorax</i>	L		4	Hils 1995		
<i>Bezzia/Palpomysia</i>	L	"	2	"		
<i>Oreanota</i>	L		4	"		
<i>Diamesa</i>	P	-	5	MerrCommB 2019		
<i>Orthocladus</i>	P	1	1	"		
<i>Nyctobates</i>	A	1	1	Pluch 1984		
Empidellidae	A	1	1	Thorp Reg 2016	imm	
Planorbidae	A	1	1	"	imm	
<i>Diamesa</i>	L	1	1	Soeth and 2013		N
<i>Parametrocnemus</i>	L	-11	7	And+3 2013		
<i>Tanypodinae 08210000</i>	L	1	1	Cranston 2013	imm	
<i>Heleniella</i>	L	1	1	And+3 2013		
<i>Rheosmittia</i>	L	1	1	"		
<i>Chironomidae 08330000</i>	L	1	1	Cranston 2013	dam	N
<i>Cladotanytarsus</i>	L	1	1	Epl et al 2013		
<i>Micropsectra</i>	L		3	"		
<i>Paratanytarsus longistylus</i>	L	1	5	"		
<i>Polypedilum (Polypedilum) illinoense group</i>	L	1	1	Bolton 2012		
<i>Tanytarsus</i>	L	-	8	Epl et al 2013		