

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name UNNAMED <u>Meads Creek</u>		Waterbody ID Code 2942600	Sample ID (YYYYMMDD-CY-FD) <u>20171023-26-09</u>
Sampling Location <u>upstream Spring Camp Rd ≈ 70 m</u>		Database Key 148375070	
SWIMS Station ID 10032141	SWIMS Station Name MEADS CREEK ON SPRING CAMP ROAD		
Latitude <u>46.40529</u>	Longitude <u>-90.25836</u>	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) <u>1 min</u>	Estimated Area Sampled (m²) <u>2 m²</u>	Number of Samples in Composite <u>3 sweeps</u>	Replicate No. _____ of _____
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Reason For Sampling

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

Water Temp. (C) <u>10.2</u>	D.O. (mg/l) <u>10.0</u>	D.O. (%sat.) <u>89.3</u>	pH (su) <u>7.2</u>	Conductivity (umhos/cm) <u>57.0</u>	Transparency (cm) <u>>120</u>
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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 checked="" type="checkbox"/> Slow (< 0.15 m/s) <input 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) <u>0.2 m</u>	Average Stream Width of reach (m) <u>2 m</u>
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Composition of Substrate Sampled (Percent):

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

Embeddedness of Substrate at Sample Site (%) 40%
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
Biological				Chemical			
Algae: - Diatoms / Periphyton				Chlorine			
- Filamentous Algae				Dissolved Oxygen			
- Planktonic Algae				Nutrients (P, N...)			
Iron Bacteria		PL	U	Toxics: - Inorganic (Metals)			
Macrophytes				- Organic (PCBs, pesticides...)			
Slimes				Other - Specify:			
Other - Specify:				Sources of Stream Impacts			
				Bank Erosion		PH	U
				Point Source - Specify:			
Physical							
Bank Erosion		PH	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			
Thermal				Tributary(s)			
Turbidity				Wetland		PL	U
Other - Specify:				Other - Specify:			

Comments

Beaver impacts upstream and downstream. ~~already submitted~~

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>7%</i>
Date Processed	<i>6/15/18</i>	Specimens Saved	<i>Subsample archived in ABL until Oct 2021</i>		

E3=150

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Allocapnia</i>	L	1	1	Hils 1995		
<i>Paracapnia angulata</i>	L	-1	6	Hitch 1974		
<i>Amphinemura</i>	L	-LTT	10	Hils 1995	imm	
<i>Taeniopteryx burksi</i>	L	III	3	Full Stew 1980		
<i>Baetis tricaudatus</i>	L	1	1	Klob 2016		
<i>Acenanna</i>	L	II	2	"	dam	N
<i>A. macdunnoughii</i>	L	-1	6	"		
<i>Baetis</i>	L	1	1	"	imm	N
<i>Ephemerella subvaria</i>	L	III	3	"		
<i>Maccaffertium vicarium</i>	L	II	2	"		
<i>Leptophlebiidae</i>	L	III	3	"	dam	N
<i>Leptophlebia</i>	L	-III	8	"	imm	N
<i>L. cupida</i>	L	-III	9	"		
<i>ParaLeptophlebia</i>	L	xIII	13	"	dam/imm	
<i>Cheumatopsyche</i>	L	1	1	Hils 1995		
<i>Hydropsyche betteni</i>	L	1	1	Schm Hils 1986		
<i>Ceratopsyche slossonae</i>	L	II	2	"		
<i>Lepidostoma</i>	L	III	3	Hils 1995		
<i>Molanna</i>	L	II	2	"	imm	
<i>Lyre diversa</i>	L	1	1	"		
<i>Neophylax</i>	L	-1	6	"	imm	
<i>Notipseonus fastiditus</i>	L	1	1	Hils Schm 1992		
<i>Neoplasta</i>	L	II	2	Gant Merr 2008		
<i>Prosimulium</i>	L	x-1	16	Adler et al 2004	imm	
<i>Stegopterna</i>	L	-	5	"		
<i>Chrysops</i>	L	II	2	Hils 1995		
<i>Dicranota</i>	L	1	1	"		
<i>Microvelia americana</i>	A	1	1	Hils 1986		
Split A3 Chironomidae	L	II JJD				
<i>Zavelimyia</i>	L	II	2	Cran Epl 2013		
<i>Thienemannimyia</i> group	L	1	1	"	imm	
<i>Brillia parva</i>	L	II	2	Epler 2001		
<i>Parametropoecus</i>	L	II	2	Adert+3 2013		
<i>Tvetenia hawaiiensis</i> group	L	1	1	Bode 1983		
<i>Microsectra</i>	L	-	5	Epler et al 2013		
<i>Paratanytarsus longistilus</i>	L	1	1	"		

