

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

Station Summary			
Waterbody Name FLOOD CREEK		Waterbody ID Code 2941700	Sample ID (YYYYMMDD-CY-FD) 20151009-26-08
Sampling Location 30 m vs Kimball Rd.		Database Key 209649644	
SWIMS Station ID 10043216		SWIMS Station Name FLOOD CREEK AT W. KIMBALL RD	
Latitude 46.47865	Longitude -90.29279	Lat/Long Determination Method (circle) SWIMS SWDV GPS	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) JOSEPH CUNNINGHAM	Project Name MONTREAL RIVER TWA 2017-2018-2019

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 (m ²) 1	Number of Samples in Composite 3	Replicate No. <u>1</u> of <u>1</u>
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Reason For Sampling

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

Water Temp. (C) 12.2	D.O. (mg/l) 10.0	D.O. (% sat.) 92.8	pH (su) 7.9	Conductivity (umhos/cm) 140	Transparency (cm) 7120
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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 0.6	circle units m/s or f/s	Average Stream Depth of reach (m) 0.2	Average Stream Width of reach (m) 3
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 80 Gravel (ladybug to tennisball): 20
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 0 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			Factors that may be influencing Water Resource Integrity		
Local	Water-shed		Local	Water-shed	
Biological			Chemical		
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	PL	PL	Toxics: - Inorganic (Metals)	N	N
Macrophytes	N	N	- Organic (PCBs, pesticides...)	N	N
Slimes	N	N	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	PL	PL
			Point Source - Specify:	N	N
Physical			Pasturing of Livestock	N	PL
Bank Erosion	PL	PL	Runoff: - Barnyard	N	PL
Channelization: - Upstream	N	N	- Construction	N	N
- Downstream	N	PL	- Cropland	N	PL
Hydraulic Scour / Channel Incision	N	N	- Urban	N	N
Impoundment: - Upstream	N	N	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	N	PL
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

IB = 174

Total = 174

Caddis x 111
 Stone x 1
 may x 1

For Lab Use Only		
Sample Sorter Murphy Steinhilber	Taxonomist Dimick Jeffrey	Estimated Percent of Sample Sorted 7%
Date Processed 2/28/2020	Specimens Saved 174 H3 OARL = 187 sorted	

subsample archived in ABL until Jul 2023

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis tricaudatus</i>	L	III	5	Kleb 2016		
Ephemerelellidae	L	I	1	"	dam	N
Ephemerelella	L	I	1	"	imm	N
<i>E. subvarra</i>	L	III	4	"		
<i>Eurylophella</i>	L	I	1	"	imm	
<i>Epeorus vitreus</i>	L	0 III 23	22	"		
<i>Leucocyta</i>	L	X-1	16	"		
<i>Paraleptanthebia</i>	L	-III	9	"	dam/imm	N
<i>P. mollis</i>	L	X-1	16	"		
<i>Paracania angulata</i>	L	-III	9	Witch 1971		
<i>Leuctra</i>	L	I	1	Hils 1995	dam	
<i>Paragnetina media</i>	L	II	3	"		
<i>Isoperla</i>	L	I	1	"	imm	
<i>Isoperla</i>	L	II	2	"	imm	
<i>Taeniopteryx</i>	L	II	2	"	imm	
<i>Glossosoma nigrum</i>	L	I	1	WymMarwood		
<i>Ceratopsyche alhedra</i>	L	III	4	Schmitts 1986		
<i>C. glossosoma</i>	L	0 I	21	"		
<i>C. sparna</i>	L	II	3	"		
<i>Diplectrona modesta</i>	L	I	1	Hils 1995		
<i>Lepidostoma</i>	L	X-III 16	12	"		
<i>Polophilodes distinctus</i>	L	X-	15	"		
<i>Nigronia serricornis</i>	L	I	1	Nauzig 1966		
<i>Optioservus fastiditus</i>	A	I	1	Hils Schim 1992		
<i>Atherix variegata</i>	L	II	3	Hils 1995		
<i>Tipula</i>	L	I	1	"		
<i>Lumbriculus</i>	A	-I	6	Thorp Res 2016		
<i>Physa</i>	A	L	1	"		
<i>Glossosoma</i>	L	I	1	Hils 1995	imm	N
Spit A2 Chironomidae	L	0-III 23				
<i>Brillia</i>	L	I	1	And+3 2013		
<i>Parametriocnemus</i>	L	III	3	"		
<i>Tvetenia bavarica group</i>	L	II	2	Bode 1983		
<i>Rheotanytarsus</i>	L	II	2	Epl et al 2013		
<i>Tanyptera</i> OB270000	L	I	1	Cranston 2013	imm	N
<i>Conchapelonia</i> OB270700	L	I	1	Cran Epl 2013		
<i>Nilotanytus</i>	L	I	1	"		
<i>Thienemannimyia group</i>	L	I	1	"	imm	N

