

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

Station Summary						
Waterbody Name <i>Eighteen Mile Creek - US</i>			Waterbody ID Code <i>2895900</i>		Sample ID (YYYYMMDD-CY-FD) <i>20201007-04-04</i>	
Sampling Location <i>Upstream old HWY 63</i>						
SWIMS Station ID <i>043097</i>		SWIMS Station Name <i>Eighteen Mile Creek - 20 m Upstream Old HWY 63</i> <small>station # 3</small>			Database Key <i>265719418</i>	
Latitude <i>46.36013</i>	Longitude <i>-91.12527</i>	Lat/Long Determination method (circle) SWIMS SWDV <b>GPS</b>			Datum Used if using GPS NAD 27 or NAD83	
Basin (WMU) <i>Lake Superior</i>		Watershed Name <i>White River</i>			County <i>Bayfield</i>	
Sample and Site Descriptors						
Sample Collector (Last Name, First) <i>Cunningham, Joseph</i>				Project Name <i>NOR LTT wadeable rivers reference</i>		
Sampling Device						
<input checked="" type="checkbox"/> Kick Net <input type="checkbox"/> Surber Sampler <input type="checkbox"/> Eckman <input type="checkbox"/> Ponar <input type="checkbox"/> Artificial Substrate <input type="checkbox"/> Hess Sampler <input type="checkbox"/> Other: _____						
Habitat Sampled						
<input checked="" type="checkbox"/> Riffle <input type="checkbox"/> Run <input type="checkbox"/> Pool <input type="checkbox"/> Other <input type="checkbox"/> Shoreline Composite <input type="checkbox"/> Proportionally-Sampled Habitat <input type="checkbox"/> Littoral Zone <input type="checkbox"/> Profundal Zone <input type="checkbox"/> Wetland						
Total Sampling Time (min) <i>1 min</i>	Estimated Area Sampled (m <sup>2</sup> ) <i>1 m<sup>2</sup></i>	Number of Samples in Composite <i>3 - 20 sec kicks</i>			Replicate No. <i>1</i> of <i>1</i>	
Reason for Sampling						
<input type="checkbox"/> Least Impacted Reference <input type="checkbox"/> Baseline <input type="checkbox"/> Impact / Treatment Site <input type="checkbox"/> Control Site <input checked="" type="checkbox"/> Trend <input type="checkbox"/> Other: _____						
Water Temp. (C) <i>9.0</i>	D.O. (mg/l) <i>11.1</i>	D.O. (% sat.) <i>95.7</i>	pH (su) <i>7.3</i>	Conductivity (umhos/cm) <i>148</i>	Transparency (cm) <i>&gt;120</i>	
Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained				Estimated Stream Velocity (m/s) <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)		
Measured Velocity circle units mps or cfs	Average Stream Depth of reach (m) <i>0.3</i>		Average Stream Width of reach (m) <del>6</del> <i>6 m</i>			
Composition of Substrate Sampled (Percent):						
Bedrock: _____	Boulders (basketball or larger): _____	Rubble (tennisball or basketball): <i>40</i>	Gravel (ladybug to tennisball.): <i>40</i>			
Sand: <i>10</i>	Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____			
Aquatic Macrophytes: _____	Leaf Snags: <i>10</i>	Course Woody Debris: _____	Other ( _____ ): _____			
Embeddedness of Substrate at Sample Site (%) <i>10%</i>			Canopy Cover at Sample Site (%) <i>30%</i>			

**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				Chlorine			
- Filamentous Algae				Dissolved Oxygen			
- Planktonic Algae				Nutrients (P, N...)			
Other -Specify:				Toxics: - Inorganic (Metals)			
Iron Bacteria				- Organic (PCBs, pesticides ...)			
Macrophytes		N		Other - Specify:			
Slimes				<b>Sources of Stream Impacts</b>			
Other - Specify:				Bank Erosion		PH	U
<b>Physical</b>				Point Source - Specify:			
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				- Minerals soils			
Sludge				Springs			
Thermal				Tributary(s)			
Turbidity				Wetland		N	
Other - Specify:				Other - Specify:			

Comments ~~Logging in the area.~~

Special Instructions for Laboratory

1.5 hr  
2 hr

For Lab Use Only		
Sample Sorter Selina Walters	Taxonomist Dimitry Jeffrey	Estimated Percent of Sample Sorted 14.1%
Date Processed 2/1/2022	Specimens Saved 128 subsample archived in ABL until Mar 2025	

C3  
Q3:13  
Q1: 8  
Q4: 17  
Q2: 9

B1  
Q3:17  
Q2:15  
Q1:20  
Q4:6

D1  
Q2:23  
Q1:  
Q4:  
Q3:

D4

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis tricaudatus	L	1	1	Klob 2016		
Ephemera	L	1	1	MCB 2019	imm	Y
E-subvaria	L	10	3	Klob 2016		
Heptagenia	L	1	1	MCB 2019	imm	
Rhyacogenia	L	x-iiii	19	"	imm	N
R. imersonata	L	1	1	Klob 2016		
Z. jejuva	L	iiii	4	"		
Neoleptophlebia	L	i	2	MCB 2019	imm	
Leuctra	L	1	1	"	dam	
Isogenides frontalis	L	iii	3	Nils 1973		
Isoperla	L	ii	2	MCB 2019	imm	N
I. transmarina	L	iiii	4	Nils 1982		
Pteronarcys	L	1	1	MCB 2019	imm	
Taeniopteryx	L	ii	8	"	imm	
Trichoptera	L	i	1	"	imm	N
Brachycentrus americanus	L	1	1	Nils 1985		
Glossosoma	L	0iiii	24	MCB 2019	imm	N
G. intermedium	L	iii	4	Wym Mar 2000		
Lepidostoma	L	iii	4	MCB 2019		
Zhyacophila fuscula	L	1	1	Apr Mar 2001		
Neophylax	L	x	10	MCB 2019	imm	
Nigronia	L	1	1	"	imm	
O. fuscicornis	L	iii	3	"	imm	N
O. fastidius	A	1	1	Nils Schm 1982		
O. frivittatus	L, A	ii	3	"		
Atherix variegata	L	-	5	Nils 1985		
Diaamesa	P	ii	2	MCB 2019		
Chelifera	L	iiii	4	"		
Simulium tuberosum species group	L	-	5	Adl et al 2004		
Antocha	L	ii	2	MCB 2019		
Hexatoma	L	1	1	"		
Phantolabis lacustris	L	1	1	Bouchard 2019		
Atractides	A	1	1	Peck et al 1990		
<del>Spill A2 Chironomidae</del>	L	-ii-150				
Eukiefferiella brehmi group	L	-	5	Bré et al 2013		
Lopescladius	L	i	1	"		

