

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name PRE-EMPTION CREEK		Waterbody ID Code 2895200	Sample ID (YYYYMMDD-CY-FD) 20171020-04-02
Sampling Location 35 m US Camp Eight Rd		Database Key 150692418	
SWIMS Station ID 10013195		SWIMS Station Name PRE-EMPTION CREEK-40 METERS UPSTREAM OF CAMP 8 ROAD- STATION #1	
Latitude 46.32787	Longitude -91.08734	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
Basin (WMU) LAKE SUPERIOR		Watershed Name WHITE RIVER	County BAYFIELD

Sample and Site Descriptors	
Sample Collector (Last Name, First) CRAIG P ROESLER, CHANG VANG	Project Name NOR LONG-TERM TREND WADEABLE REFERENCE STREAMS

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) 1.5	Estimated Area Sampled (m ²) 1.5	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: _____

Water Temp. (C) 10.5	D.O. (mg/l) 10.4	D.O. (%sat.) 98	pH (su) 7.5	Conductivity (umhos/cm) 106	Transparency (cm) >120
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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 circle units m/s or f/s	Average Stream Depth of reach (m) 0.25	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): 60 Gravel (ladybug to tennisball): 30
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____

Embeddedness of Substrate at Sample Site (%) 10 Canopy Cover at Sample Site (%) 100

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				Toxics: - Inorganic (Metals)			
Macrophytes				- Organic (PCBs, pesticides...)			
Slimes				Other - Specify:			
Other - Specify:				Sources of Stream Impacts			
				Bank Erosion			
				Point Source - Specify:			
				Pasturing of Livestock			
Physical				Runoff: - Barnyard			
Bank Erosion				- Construction			
Channelization: - Upstream				- Cropland			
- Downstream				- Urban			
Hydraulic Scour / Channel Incision				Septic Systems			
Impoundment: - Upstream				Tile Drainage - Organic Soils			
- Downstream				- Mineral Soils			
Low Flow				Springs			
Sedimentation				Tributary(s)			
Sludge				Wetland			
Thermal				Other - Specify:			
Turbidity							
Other - Specify:							

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Sam Lamarche</i>	Taxonomist <i>Dimrock Jeffrey</i>	Estimated Percent of Sample Sorted <i>20%</i>
Date Processed <i>10/11/18</i>	Specimens Saved <i>Subsample archived in ABL units Jan 2022</i>	

*3E 3C 1C
 54 61 77
 105*

182 SPECS

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Paracappella angulata</i>	L	811	32	Hitch 1974		
<i>Amphinemura</i>	L	1	1	Hils 1995	imm	
<i>Acronemura lycaeus</i>	L	11	2	Hitch 1974		
<i>Isonemura</i>	L	11	2	Hils 1995	imm	N
<i>I. lata</i>	L	1	1	Hils 1992		
<i>I. foensmarina</i>	L	1111	4	"		
<i>Baetis tricaudatus</i>	L	11	2	Kub 2016		
<i>Ephemera subvaria</i>	L	1	6	"		
<i>Leptageniidae</i>	L	1	1	"	dam	
<i>Proleptohylebia</i>	L	80	45	"	chr/imm	N
<i>P. mollis</i>	L	1111	4	"		
<i>Glossosoma</i>	L	81	31	Hils 1995	imm	N
<i>G. intermedium</i>	L	11	2	Wym Mar 2000		
<i>Protophila</i>	L	11	2	Hils 1995		
<i>Ceratopsyche</i>	L	1	1	"	imm	N
<i>C. glossanae</i>	L	11	2	Schm Hils 1986		
<i>C. sparna</i>	L	11	11	"		
<i>Lepidostoma</i>	L	-	5	Hils 1995		
<i>Chimarra</i>	L	11	2	"	imm	N
<i>Ch. aterrima</i>	L	1	6	Hils 1992		
<i>Rhyacophila</i>	L	1	1	Hils 1995	imm	N
<i>Zh. fuscula</i>	L	1	1	Ra Mar 2000		
<i>Zh. vibex</i>	L	1	1	"		
<i>Nigronia serricornis</i>	L	11	2	Neun 1966		
<i>Stenelmis crenata</i>	A	L	1	Hils Schm 1992		
<i>Tretania</i>	P	1	1	Ferr et al 2008		N
<i>Dysoptera</i>	A	1	1	Thorp Res 2016		
<i>split by Chironomidae</i>	L	111111				
<i>Coarctolepia 08210700</i>	L	1	1	Cran Epl 2013		
<i>Eukerreniella dampfensis group</i>	L	1	1	Anderf 3 2013		
<i>Lopescladius</i>	L	11	2	"		
<i>Parametriocnemus</i>	L	11	2	"		
<i>Tretania hawaiiensis group</i>	L	1	1	Bode 1963		
<i>Nanocladius (Pleurocoluthus)</i>	L	1	1	Anderf 3 2013	imm	N
<i>N. (P.) sp. #5 Jacobsen</i>	L	11	2	Epler 2001		
<i>Micropsectra</i>	L	1	1	Epl et al 2013		