

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 <sup>2</sup> ) 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
<b>Biological</b>				<b>Chemical</b>			
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:				<b>Sources of Stream Impacts</b>			
				Bank Erosion			
				Point Source - Specify:			
				Pasturing of Livestock			
<b>Physical</b>				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*