

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

**Station Summary**

<b>Waterbody Name</b> BLACK RIVER	<b>Waterbody ID Code</b> 2836900	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20161006-16-01
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<b>Sampling Location</b> near mouth	<b>Database Key</b> 134667218
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<b>SWIMS Station ID</b> 165015	<b>SWIMS Station Name</b> BLACK RIVER - MOUTH
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<b>Latitude</b> 46.58133	<b>Longitude</b> -92.13788	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV <u>GPS</u>	<b>Datum Used if using GPS</b> <u>WGS84</u> or NAD83
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<b>Basin (WMU)</b> LAKE SUPERIOR	<b>Watershed Name</b> BLACK AND UPPER NEMADJI RIVER	<b>County</b> DOUGLAS
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**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> CRAIG P ROESLER, MADELINE E ROBERTS	<b>Project Name</b> BLACK RIVER TWA TALU 2016
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**Sampling Device**

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

<b>Total Sampling Time (min)</b> 15	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 15	<b>Number of Samples in Composite</b> 4	<b>Replicate No.</b> 2 <b>of</b> 2
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**Reason For Sampling**

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

<b>Water Temp. (C)</b> 12.2	<b>D.O. (mg/l)</b> 9.0	<b>D.O. (%sat.)</b>	<b>pH (su)</b> 7.45	<b>Conductivity (umhos/cm)</b> 100	<b>Transparency (cm)</b> 89
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<b>Water Color</b> <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" type="checkbox"/> Stained	<b>Estimated Stream Velocity (m/s)</b> <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)
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<b>Measured Velocity</b> 1	circle units m/s or <u>f/s</u>	<b>Average Stream Depth of reach (m)</b> 0.5	<b>Average Stream Width of reach (m)</b> 8
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): \_\_\_\_\_ Gravel (ladybug to tennisball): \_\_\_\_\_  
 Sand: \_\_\_\_\_ Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: 40% Coarse Woody Debris: 60% Other ( \_\_\_\_\_ ): \_\_\_\_\_  
 Embeddedness of Substrate at Sample Site (%) NA Canopy Cover at Sample Site (%) 40

**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:		
<b>Physical</b>			Pasturing of Livestock		
Bank Erosion			Runoff: - Barnyard		
Channelization: - Upstream			- Construction		
- Downstream			- Cropland		
Hydraulic Scour / Channel Incision			- Urban		
Impoundment: - Upstream			Septic Systems		
- Downstream			Tile Drainage - Organic Soils		
Low Flow			- Mineral Soils		
Sedimentation			Springs		
Sludge			Tributary(s)		
Thermal			Wetland		
Turbidity			Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter	Taxonomist	Estimated Percent of Sample Sorted
McKayla Gronholm	Dimick, Jeffrey	13%
Date Processed	Specimens Saved	
11/18/16	Subsample archived in ABC until Feb 2020	

A3: 68  
 E2: 88

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