

Instructions: Bold fields must be completed.

**Station Summary**

<b>Waterbody Name</b> Emmons Creek		<b>Waterbody ID Code</b>	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20180318-50-11
<b>Sampling Location</b> RSS-R-41m-3g-031818			<b>Database Key</b> 159426668
<b>SWIMS Station ID</b> 10049350		<b>SWIMS Station Name</b> EMMONS CREEK - CONTROL REACH NEAR STRATTON LAKE RD	
<b>Latitude</b>	<b>Longitude</b>	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV GPS	<b>Datum Used if using GPS</b> WGS84 or NAD83
<b>Basin (WMU)</b> WOLF RIVER		<b>Watershed Name</b> WAUPACA RIVER	<b>County</b> PORTAGE

**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> DAVID A BOLHA, MICHAEL P SHUPRYT	<b>Project Name</b> EMMONS CREEK DISCHARGE REDUCTION MI FY18
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**Sampling Device**

D-Frame Kick Net   
  Surber Sampler   
  Eckman  
 Ponar   
  Artificial Substrate   
  Hess Sampler   
 Other: Core

**Habitat Sampled**

Riffle   
  Run   
  Pool  
 Other   
  Shoreline Composite   
  Proportionally-Sampled Habitat  
 Littoral Zone   
  Profundal Zone   
  Wetland

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

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

<b>Water Temp. (C)</b>	<b>D.O. (mg/l)</b>	<b>D.O. (% sat.)</b>	<b>pH (su)</b>	<b>Conductivity (umhos/cm)</b>	<b>Transparency (cm)</b>
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<b>Water Color</b>	<b>Estimated Stream Velocity (m/s)</b>
<input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	<input type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)

<b>Measured Velocity</b> circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b>	<b>Average Stream Width of reach (m)</b>
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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: \_\_\_\_\_ Coarse Woody Debris: \_\_\_\_\_ Other ( \_\_\_\_\_ ): \_\_\_\_\_

**Embeddedness of Substrate at Sample Site (%)** \_\_\_\_\_ **Canopy Cover at Sample Site (%)** \_\_\_\_\_

**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>Jacob Buntz</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>100</i>
Date Processed <i>12/07/18</i>	Specimens Saved <i>Subsample Archived in dBL until Mar 2022</i>	

