

Instructions: Bold fields must be completed.

|                                                                                                                                                                                                                                                                                                                                                      |                                          |                                                                                                                                             |                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>Station Summary</b>                                                                                                                                                                                                                                                                                                                               |                                          |                                                                                                                                             |                                             |
| Waterbody Name<br>EMMONS CREEK                                                                                                                                                                                                                                                                                                                       |                                          | Waterbody ID Code<br>261300                                                                                                                 | Sample ID (YYYYMMDD-CY-FD)<br>20190416-50-9 |
| Sampling Location<br>RSS-R-87m-4g-041619                                                                                                                                                                                                                                                                                                             |                                          | Database Key<br>200246526                                                                                                                   |                                             |
| SWIMS Station ID<br>10049342                                                                                                                                                                                                                                                                                                                         |                                          | SWIMS Station Name<br>Control<br>EMMONS CREEK - EXPERIMENTAL REACH NEAR STRATTON LAKE RD                                                    |                                             |
| Latitude                                                                                                                                                                                                                                                                                                                                             | Longitude                                | Lat/Long Determination Method (circle)<br>SWIMS SWDV GPS                                                                                    | Datum Used if using GPS<br>WGS84 or NAD83   |
| Basin (WMU)<br>WOLF RIVER                                                                                                                                                                                                                                                                                                                            |                                          | Watershed Name<br>WAUPACA RIVER                                                                                                             | County<br>PORTAGE                           |
| <b>Sample and Site Descriptors</b>                                                                                                                                                                                                                                                                                                                   |                                          |                                                                                                                                             |                                             |
| Sample Collector (Last Name, First)<br>DAVID A BOLHA, MICHAEL P SHUPRYT                                                                                                                                                                                                                                                                              |                                          | Project Name<br>EMMONS CREEK DISCHARGE REDUCTION MI FY18                                                                                    |                                             |
| <b>Sampling Device</b>                                                                                                                                                                                                                                                                                                                               |                                          |                                                                                                                                             |                                             |
| <input type="checkbox"/> D-Frame Kick Net <input type="checkbox"/> Surber Sampler <input type="checkbox"/> Eckman<br><input type="checkbox"/> Ponar <input type="checkbox"/> Artificial Substrate <input type="checkbox"/> Hess Sampler <input checked="" type="checkbox"/> Other: Core                                                              |                                          |                                                                                                                                             |                                             |
| <b>Habitat Sampled</b>                                                                                                                                                                                                                                                                                                                               |                                          |                                                                                                                                             |                                             |
| <input type="checkbox"/> Riffle <input type="checkbox"/> Run <input type="checkbox"/> Pool<br><input type="checkbox"/> Other <input type="checkbox"/> Shoreline Composite <input type="checkbox"/> Proportionally-Sampled Habitat<br><input type="checkbox"/> Littoral Zone <input type="checkbox"/> Profundal Zone <input type="checkbox"/> Wetland |                                          |                                                                                                                                             |                                             |
| Total Sampling Time (min)                                                                                                                                                                                                                                                                                                                            | Estimated Area Sampled (m <sup>2</sup> ) | Number of Samples in Composite                                                                                                              | Replicate No. _____ of _____                |
| <b>Reason For Sampling</b>                                                                                                                                                                                                                                                                                                                           |                                          |                                                                                                                                             |                                             |
| <input type="checkbox"/> Least Impacted Reference <input type="checkbox"/> Baseline <input type="checkbox"/> Impact / Treatment Site<br><input type="checkbox"/> Control Site <input type="checkbox"/> Trend <input checked="" type="checkbox"/> Other: Special Project                                                                              |                                          |                                                                                                                                             |                                             |
| Water Temp. (C)                                                                                                                                                                                                                                                                                                                                      | D.O. (mg/l)                              | D.O. (% sat.)                                                                                                                               | pH (su)                                     |
| Conductivity (umhos/cm)                                                                                                                                                                                                                                                                                                                              |                                          | Transparency (cm)                                                                                                                           |                                             |
| <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) |                                             |
| Measured Velocity                                                                                                                                                                                                                                                                                                                                    | circle units<br>m/s or f/s               | Average Stream Depth of reach (m)                                                                                                           | Average Stream Width of reach (m)           |
| <b>Composition of Substrate Sampled (Percent):</b>                                                                                                                                                                                                                                                                                                   |                                          |                                                                                                                                             |                                             |
| 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 (%)                                                                                                             |                                             |

# Wadeable Macroinvertebrate Field Data Report

Form 3200-081 (R 8/14)

Page 2 of 2

## 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  | Taxonomist<br><i>Dimick Jeffrey</i>                             | Estimated Percent of Sample Sorted |
| Date Processed | Specimens Saved<br><i>Sample archived in ABC until Nov 2022</i> |                                    |

Waterbody: **Emmons Creek**  
SWIMS Database Key: **200246526**  
Taxonomist: **Dimick, Jeffrey**