State of Wisconsin
Department of Natural Resources
PO Box 7291, Madison WI 53707-7291
dnr.wi.gov

Instructions: Bold fields must be completed.

Waterbody Name

Sampling Location

SWIMS Station ID
10049350

SWIMS Station Name
EMMONS CREEK - CONTROL REACH NEAR STRATTON LAKE RD

Latitude
44.29605

Longitude
-89.24131

Lat/Long Determination Method (circle)
SWIMS

SWDV

GPS

Datum Used if using GPS
WGS84 or NAD83

Basin (WMU)
WOLF RIVER

Watershed Name
WAUPACA RIVER

County
PORTAGE

Sample Collector (Last Name, First)
DAVID A BOLHA, MICHAEL P SHUPRYT

Project Name
EMMONS CREEK DISCHARGE REDUCTION MI FY18

Sampling Device
- D-Frame Kick Net
- Surber Sampler
- Artificial Substrate
- Eckman
- Hess Sampler

Habitat Sampled
- riffle
- run
- shoreline composite
- profundal
- littoral

Total Sampling Time (min)

Estimated Area Sampled (m²)

Number of Samples in Composite

Reason For Sampling
- Least Impacted Reference
- Control Site
- Baseline
- Trend
- Impact / Treatment Site
- Other: Special Project

Water Temp. (C)

D.O. (mg/l)

D.O. (% sat.)

pH (su)

Conductivity (umhos/cm)

Transparency (cm)

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 t/s

Average Stream Depth of reach (m)

Average Stream Width of reach (m)

Composition of Substrate Sampled (Percent):

Bedrock:
Boulders (basketball or larger):
Rubble (tennisball to basketball):
Gravel (ladybug to tennisball):

Sand:
Clay:
Slit/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

<table>
<thead>
<tr>
<th>Biological Factors that may be influencing Water Resource Integrity</th>
<th>Local</th>
<th>Watershed</th>
<th>Chemical Factors that may be influencing Water Resource Integrity</th>
<th>Local</th>
<th>Watershed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algae: - Diatoms / Periphyton</td>
<td></td>
<td></td>
<td>Chlorine</td>
<td></td>
<td></td>
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<tr>
<td>- Filamentous Algae</td>
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<td></td>
<td>Dissolved Oxygen</td>
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<tr>
<td>- Planktonic Algae</td>
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<td></td>
<td>Nutrients (P, N...)</td>
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<tr>
<td>Iron Bacteria</td>
<td></td>
<td></td>
<td>Toxics: - Inorganic (Metals)</td>
<td></td>
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<tr>
<td>Macrophytes</td>
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<td></td>
<td>- Organic (PCBs, pesticides...)</td>
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<td></td>
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<tr>
<td>Slimes</td>
<td></td>
<td></td>
<td>Other - Specify:</td>
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<tr>
<td>Other - Specify:</td>
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</tbody>
</table>

### Physical Factors that may be influencing Water Resource Integrity

<table>
<thead>
<tr>
<th>Physical</th>
<th>Local</th>
<th>Watershed</th>
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</thead>
<tbody>
<tr>
<td>Bank Erosion</td>
<td></td>
<td></td>
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<tr>
<td>Channelization: - Upstream</td>
<td></td>
<td></td>
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<tr>
<td>- Downstream</td>
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<tr>
<td>Hydraulic Scour / Channel Incision</td>
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<td>Impoundment: - Upstream</td>
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<tr>
<td>- Downstream</td>
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<tr>
<td>Low Flow</td>
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<tr>
<td>Sedimentation</td>
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<tr>
<td>Sludge</td>
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<tr>
<td>Thermal</td>
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<tr>
<td>Turbidity</td>
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<tr>
<td>Other - Specify:</td>
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</tbody>
</table>

### Sources of Stream Impacts

- Bank Erosion
- Pasturing of Livestock
- Runoff: - Barnyard
- - Construction
- - Cropland
- - Urban
- Septic Systems
- Tile Drainage
- - Organic Soils
- - Mineral Soils
- Springs
- Tributary(s)
- Wetland
- Other - Specify:

### Comments

Special Instructions for Laboratory

### For Lab Use Only

<table>
<thead>
<tr>
<th>Sample Sorter</th>
<th>Taxonomist</th>
<th>Estimated Percent of Sample Sorted</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Dimick, Jeffrey</td>
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Date Processed | Specimens Saved |
<table>
<thead>
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<tr>
<td></td>
<td>sample archived on 08/01/2022</td>
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<tr>
<td>Taxa</td>
<td>Life Stage</td>
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<tr>
<td>----------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td><em>Brachycentrus accidentalis</em></td>
<td>L</td>
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<tr>
<td><em>Clossosoma intermedium</em></td>
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<tr>
<td><em>Gammarus pseudolimnaeus</em></td>
<td>A</td>
</tr>
<tr>
<td><em>Megadryli</em> = Metagonopoda*</td>
<td>A</td>
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</tbody>
</table>