

Instructions: Bold fields must be completed.

Station Summary

| | | | |
|---|------------------|--|--|
| Waterbody Name NORTH BRANCH EMBARRASS RIVER | | Waterbody ID Code 301300 | Sample ID (YYYYMMDD-CY-FD) 20201015-59-07-ND |
| Sampling Location | | | Database Key 258672038 |
| SWIMS Station ID 10013582 | | SWIMS Station Name NORTH BRANCH EMBARRASS RIVER-LAKE RD / CHURCH RD (UPSTREAM) | |
| Latitude | Longitude | Lat/Long Determination Method (circle) SWIMS SWDV GPS | Datum Used if using GPS WGS84 or NAD83 |
| Basin (WMU) WOLF RIVER | | Watershed Name NORTH BRANCH AND MAINSTEM EMBARRA | County SHAWANO |

Sample and Site Descriptors

| | |
|--|--|
| Sample Collector (Last Name, First) ANDREW HUDAK | Project Name 2020 TWA STRASSBURG CREEK- NORTH BRANCH EMBARRA |
|--|--|

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) 3 | Estimated Area Sampled (m²) 5 | Number of Samples in Composite 1 | Replicate No. 1 of 1 |
|---------------------------------------|--|--|------------------------------------|

Reason For Sampling

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

| | | | | | |
|-------------------------------|---------------------------|----------------------------|----------------|---------------------------------------|----------------------------------|
| Water Temp. (C) 7.1 | D.O. (mg/l) 9.9 | D.O. (% sat.) 82 | pH (su) | Conductivity (umhos/cm) 401 | Transparency (cm) 7122 |
|-------------------------------|---------------------------|----------------------------|----------------|---------------------------------------|----------------------------------|

| | |
|---|--|
| Water Color <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained | Estimated Stream Velocity (m/s) <input checked="" 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 m/s or f/s | Average Stream Depth of reach (m) 0.15 | Average Stream Width of reach (m) 2 |
|--|--|---|

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): _____
 Sand: 40 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: 20 Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 30
Canopy Cover at Sample Site (%) 0

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 | | | Factors that may be influencing Water Resource Integrity | | | | |
|--|------------|------------------------------------|--|------------|----------------------------------|---|---|
| Local | Water-shed | | Local | Water-shed | | | |
| Biological | | | Chemical | | | | |
| | | Algae: - Diatoms / Periphyton | N | N | Chlorine | N | U |
| | | - Filamentous Algae | N | N | Dissolved Oxygen | N | N |
| | | - Planktonic Algae | N | N | Nutrients (P, N...) | N | U |
| | | Iron Bacteria | N | N | Toxics: - Inorganic (Metals) | N | N |
| | | Macrophytes | N | N | - Organic (PCBs, pesticides...) | N | U |
| | | Slimes | N | N | Other - Specify: | | |
| | | Other - Specify: | | | Sources of Stream Impacts | | |
| | | | | | Bank Erosion | N | U |
| | | | | | Point Source - Specify: | N | N |
| Physical | | | | | Pasturing of Livestock | N | U |
| | | Bank Erosion | N | U | Runoff: - Barnyard | N | U |
| | | Channelization: - Upstream | N | N | - Construction | N | N |
| | | - Downstream | N | N | - Cropland | N | U |
| | | Hydraulic Scour / Channel Incision | N | N | - Urban | N | N |
| | | Impoundment: - Upstream | N | N | Septic Systems | N | U |
| | | - Downstream | N | N | Tile Drainage - Organic Soils | N | U |
| | | Low Flow | N | N | - Mineral Soils | N | U |
| | | Sedimentation | N | N | Springs | U | U |
| | | Sludge | N | N | Tributary(s) | U | U |
| | | Thermal | N | N | Wetland | U | U |
| | | Turbidity | N | N | Other - Specify: | | |
| | | Other - Specify: | | | | | |

Comments

Special Instructions for Laboratory

| For Lab Use Only | | |
|-------------------------------|--|--|
| Sample Sorter Dunn, Isabel | Taxonomist Dimick, Jeffrey | Estimated Percent of Sample Sorted 9.4% |
| Date Processed 8/21/2021 | Specimens Saved Subsample archived in ABC until Oct 20 2021 | |

11.00-
4.00

B1
 4-40
 3-9
 2-20
 1

A4
 3-20
 2-20
 1-18
 4

(127)

| Taxa | Life Stage | Bench Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|----------------------------------|--------------|-----------------|-------|---------------------|-----------|--------------|
| Maccaffertium | L | I | 1 | Klub 2016 | imm | N |
| M. vicarium | L | II | 2 | " | | |
| Paraleptophlebia | L | I | 1 | " | imm | |
| Paracania angulata | L | X-II | 17 | Nitch 1974 | | |
| Amphinemura | L | I | 1 | MCB 2019 | imm | |
| Talorchestia | L | I | 1 | " | imm | |
| Glossopsoba | L | II | 2 | " | imm | N |
| G. intermedium | L | II | 2 | Wym Mar 2000 | | |
| Hydropsyche betteri | L | I | 1 | Schm Hols 1986 | | |
| Lepidostoma | L | I | 1 | MCB 2019 | | |
| Limnephilidae | L | I | 1 | " | imm | |
| Neophylax | L | II | 2 | " | imm | |
| Nigronia semicornis | L | I | 1 | Neurzig 1966 | | |
| Ephemera | L | I | 1 | MCB 2019 | dam | |
| Tritonia | P | I | 1 | " | | |
| Neoplasta | L | III | 3 | " | | |
| Tipulidae | L | I | 1 | " | dam | Y |
| Antocha | L | III | 3 | " | | |
| Dicranota | L | I | 1 | " | | |
| Cammarus pseudolimnacus | A | III | 33 | Hols 1972 | | |
| Laevapex fusus | A | I | 1 | Thorp Reg 2016 | | |
| Optiosenus | L | III | 9 | MCB 2019 | imm | |
| Pisidium | A | III | 9 | Thorp Reg 2016 | | |
| Naidinae | A | XIII | 13 | Kahn Brn 1988 | | |
| Split A2 Chironomidae | L | XIII | | | | |
| Parametopaemus | L | II | 5 | And et al 2013 | | |
| Rhyacotarsus | L | II | 6 | " | | |
| Natansia baltimorea | L | I | 1 | Epler 2001 | | |
| Thremamomyia group | L | I | 1 | And et al 2013 | imm | |
| Orthocladinae | L | II | 7 | " | imm | N |
| Brillia | L | II | 2 | " | imm | |
| Eukiefferella | L | I | 1 | " | imm | |
| Heleniella | L | I | 1 | " | | |
| Orthocladus (Orthocladus) | L | I | 1 | " | | |
| Chironominae | L | I | 1 | " | imm | N |
| Micropectra | L | I | 5 | " | | |

