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

# Wadeable Macroinvertebrate Field Data Report

Form 3200-081 (R 8/14) 

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

## Station Summary

| **Waterbody Name** | **Waterbody ID Code** | **Sample ID (YYYYMMDD-CY-FD)** |
|---|---|---|
| BRANCH RIVER | 71300 | 20170919-36-02 |

| **Sampling Location** | **Database Key** |
|---|---|
| | 149675591 |

| **SWIMS Station ID** | **SWIMS Station Name** |
|---|---|
| 363299 | BRANCH RIVER AT N UNION RD (2) |

| **Latitude** | **Longitude** | **Lat/Long Determination Method (circle)** | **Datum Used if using GPS** |
|---|---|---|---|
| 44.135389 | -87.765653 | SWIMS SWDV GPS | WGS84 or NAD83 |

| **Basin (WMU)** | **Watershed Name** | **County** |
|---|---|---|
| MANITOWOC | BRANCH RIVER | MANITOWOC |

## Sample and Site Descriptors

| **Sample Collector (Last Name, First)** | **Project Name** |
|---|---|
| ~~MARY GANSBERG~~, Benes, Joshua | NER LONG-TERM TREND WADEABLE REFERENCE STREAMS |

**Sampling Device**

- [x] D-Frame Kick Net
- [ ] Surber Sampler
- [ ] Eckman
- [ ] Ponar
- [ ] Artificial Substrate
- [ ] Hess Sampler
- [ ] Other: _____

**Habitat Sampled**

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

| **Total Sampling Time (min)** | **Estimated Area Sampled ($m^2$)** | **Number of Samples in Composite** | **Replicate No.** ___ **of** ___ |
|---|---|---|---|
| 3 | 15 | | Replicate No. 1 of 1 |

**Reason For Sampling**

- [ ] Least Impacted Reference
- [ ] Baseline
- [ ] Impact / Treatment Site
- [ ] Control Site
- [x] Trend
- [ ] Other: _____

| **Water Temp. (C)** | **D.O. (mg/l)** | **D.O. (% sat.)** | **pH (su)** | **Conductivity (umhos/cm)** | **Transparency (cm)** |
|---|---|---|---|---|---|
| 17.8 | 11.2 | 118.2 | 8.4 | 682 | |

**Water Color**

- [x] Clear
- [ ] Turbid
- [ ] Stained

**Estimated Stream Velocity (m/s)**

- [ ] Slow (< 0.15 m/s)
- [x] Moderate (0.15 m/s - 0.5 m/s)
- [ ] Fast (> 0.5 m/s)

| **Measured Velocity** (circle units m/s **or** f/s) | **Average Stream Depth of reach (m)** | **Average Stream Width of reach (m)** |
|---|---|---|
| | 0.20 | 15.0 |

**Composition of Substrate Sampled (Percent):**

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 70

Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____

Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

**Embeddedness of Substrate at Sample Site (%)** 30 **Canopy Cover at Sample Site (%)** 50

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## 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 |
|---|---|---|---|---|---|
| **Biological** | | | **Chemical** | | |
| 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: | | | **Sources of Stream Impacts** | | |
| | | | Bank Erosion | | |
| **Physical** | | | Point Source - Specify: | | |
| Bank Erosion | | | Pasturing of Livestock | | |
| Channelization: - Upstream | | | Runoff: - Barnyard | | |
| - Downstream | | | - Construction | | |
| Hydraulic Scour / Channel Incision | | | - Cropland | | |
| Impoundment: - Upstream | | | - Urban | | |
| - Downstream | | | Septic Systems | | |
| Low Flow | | | Tile Drainage - Organic Soils | | |
| Sedimentation | | | - Mineral Soils | | |
| Sludge | | | Springs | | |
| Thermal | | | Tributary(s) | | |
| Turbidity | | | Wetland | | |
| Other - Specify: | | | Other - Specify: | | |

Comments

Special Instructions for Laboratory

## For Lab Use Only

| Sample Sorter | Taxonomist | Estimated Percent of Sample Sorted |
|---|---|---|
| Sam Lamarche | Dimick, Jeffrey | 7% |
| **Date Processed** | **Specimens Saved** | |
| 10/24/18 | Subsample archived in ABL until Jan 2022 | |

3E
362

**Wisconsin Department of Natural Resources**
ABL SampleNum: **20170919-36-02**
Taxonomist: Dimick, Jeffrey

Waterbody: **Branch River**
SWIMS Database Key: **149675591**



| Taxa | Life Stage | Bench Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|---|---|---|---|---|---|---|
| 1/1 Paracladius medius | L | I | 1 | Hils 1995 | | |
| Baetis | L | ×I | 11 | Kluh 2016 | dam | N |
| B. intercalaris | L | -III | 8 | " | | |
| B. flavistriga species complex | L | 8×II | 52 | " | | |
| Acerpenna | L | I | 1 | " | dam | |
| Caenis | L | I | 1 | " | imm | N |
| C. anceps | L | 0 | 20 | " | | |
| C. latipennis | L | I | 1 | " | | |
| 2/2 Telecanopsis deficiens | L | I | 1 | " | | |
| Heptageniidae | L | -I | 6 | " | dam | N |
| 3/62 Leucrocuta | L | 88 | 80 | " | | |
| Maccaffertium | L | 0III | 22 | " | imm | Y |
| M. mediopunctatum | L | 8×II | 52 | " | | |
| Trichorythodes | L | II | 2 | " | | |
| 4/63 Isonychia | L | III | 3 | " | imm | |
| Hydropsychidae | L | I | 1 | Hils 1995 | imm | N |
| Cheumatopsyche | L | -IIII | 10 | " | | |
| Hydropsyche betteni | L | I | 1 | Schm Hils KBG | | |
| Chimarra obscura | L | I | 1 | Hils 1982 | | |
| Argia | L | II | 2 | West May 1996 | imm | |
| Oecetis cavus | L | ×II | 12 | Hils Schm 1992 | imm | N |
| O. fastidiosus | L | 0III | 23 | " | | |
| Stenelmis | L | IIII | 4 | " | | N |
| S. crenata | A | I | 1 | " | | |
| Psephenus herricki | L | × | 10 | " | | |
| Simulium vittatum species complex 08110218 | L | II | 2 | Adler et al 2004 | | |
| S. jenningsi species group | L | ×- | 15 | " | | |
| Antocha | L | II | 2 | Hils 1995 | | |
| Dicranota | L | I | 1 | " | | |
| Eukiefferiella | P | I | 1 | Ferr et al 2008 | | N |
| Parametriocnemus | P | -I | 6 | " | | |
| | | | | | | |
| Tubificinae (without hairs) | A | I | 1 | Klemm 1985 | | |
| Pisidium | A | I | 1 | Burch 1972 | | |
| | | | | | | |
| Cardiocladius obscurus | L | IIII | 4 | Epler 2001 | | |
| Eukiefferiella devonica group | L | II | 2 | Ander et al 2013 | | |
| Thienemanniella xena | L | I | 1 | Bolton 2012 | | |

>33 taxa, TVAL ≤2.0

857 (0.1 × 322)

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|---|---|---|---|---|---|---|
| Tvetenia bavarica group | L | 11 | 2 | Bode 1983 | | |
| Orthocladius (Orthocladius) | L | 1 | 1 | Andersen 2013 | | |
| Cricotopus/Orthocladius | L | 1 | 1 | Ferr et al 2008 | | N |
| Microtendipes pedellus group | L | 11 | 2 | Epl et al 2013 | | |
| Polypedilum (Uresipedilum) flavum | L | 1 | 1 | Bolton 2012 | | |
| Rheotanytarsus | L | 1 | 1 | Epl et al 2013 | | |