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)** |
|---|---|---|
| KINNICKINNIC RIVER | 2601800 | 20201202-48-01 |

| **Sampling Location** | **Database Key** |
|---|---|
| FIRST RIFFLE DOWNSTREAM FROM POWELL DAM | 256826600 |

| **SWIMS Station ID** | **SWIMS Station Name** |
|---|---|
| 10048610 | KINNICKINNIC RIVER DS LOWER RESERVOIR (WBIC 2603000) |

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

| **Basin (WMU)** | **Watershed Name** | **County** |
|---|---|---|
| ST. CROIX | KINNICKINNIC RIVER | PIERCE |

## Sample and Site Descriptors

| **Sample Collector (Last Name, First)** | **Project Name** |
|---|---|
| KURT RASMUSSEN | RESPONSE MONITORING - 319 WATERSHED |

**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** |
|---|---|---|---|
| 1 | 1 | — | 1 / 1 |

**Reason For Sampling**

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

| **Water Temp. (C)** | **D.O. (mg/l)** | **D.O. (% sat.)** | **pH (su)** | **Conductivity (umhos/cm)** | **Transparency (cm)** |
|---|---|---|---|---|---|
| 3.0 | 13.36 | 99.3 | 7.94 | 486.1 | >120 |

**Water Color**

- [X] Clear
- [ ] Turbid
- [ ] Stained

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

- [ ] Slow (< 0.15 m/s)
- [ ] Moderate (0.15 m/s - 0.5 m/s)
- [X] 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)** |
|---|---|---|
| — | 0.3 | 10 M |

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

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

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

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

**Embeddedness of Substrate at Sample Site (%)** 20% **Canopy Cover at Sample Site (%)** 0%

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) 

## 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 |
|---|---|---|
| **Biological** | | |
| Algae: - Diatoms / Periphyton | N | N |
| - Filamentous Algae | N | N |
| - Planktonic Algae | N | N |
| Iron Bacteria | N | N |
| Macrophytes | N | N |
| Slimes | N | N |
| Other - Specify: | N | N |
| **Physical** | | |
| Bank Erosion | PH | PL |
| Channelization: - Upstream | N | N |
| - Downstream | N | N |
| Hydraulic Scour / Channel Incision | PH | N |
| Impoundment: - Upstream | PH | PL |
| - Downstream | N | N |
| Low Flow | N | N |
| Sedimentation | PH | PL |
| Sludge | N | N |
| Thermal | PH | N |
| Turbidity | PH | N |
| Other - Specify: | N | N |

| Factors that may be influencing Water Resource Integrity | Local | Water-shed |
|---|---|---|
| **Chemical** | | |
| Chlorine | N | N |
| Dissolved Oxygen | PL | N |
| Nutrients (P, N...) | PL | PL |
| Toxics: - Inorganic (Metals) | N | N |
| - Organic (PCBs, pesticides...) | N | N |
| Other - Specify: | N | N |
| **Sources of Stream Impacts** | | |
| Bank Erosion | PH | PL |
| Point Source - Specify: | PH | N |
| Pasturing of Livestock | N | N |
| Runoff: - Barnyard | N | N |
| - Construction | N | N |
| - Cropland | N | N |
| - Urban | PL | N |
| Septic Systems | N | N |
| Tile Drainage - Organic Soils | N | N |
| - Mineral Soils | N | N |
| Springs | N | N |
| Tributary(s) | N | N |
| Wetland | N | N |
| Other - Specify: | N | N |

Comments

THIS SAMPLE WAS COLLECTED POST EMERGENCY DRAWDOWN OF LAKE LOUISE.

Special Instructions for Laboratory

SAMPLE COLLECTED IN 319 ELIGIBLE WATERSHED

## For Lab Use Only

| Sample Sorter | Taxonomist | Estimated Percent of Sample Sorted |
|---|---|---|
| Raatz, Trevor | Dimick, Jeffrey | 56.2 % |
| **Date Processed** | **Specimens Saved** | |
| 9/29/2021 | Subsample archived in ABL until Oct 2024 | |

A2Q3:6
D1Q1:3:9
A2Q4:3:12

[A2, D1, B2, C3, B3]: +38 + 13 + 7 : 58 : 70

[D4, A3, C2, D2] : + 30 + 32 : 62 : 132

132

**Wisconsin Department of Natural Resources**
ABL SampleNum: **20201202-48-01**
Taxonomist: Dimick, Jeffrey

Waterbody: **Kinnickinnic River**
SWIMS Database Key: **256826600**



| Taxa | Life Stage | Bench Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|---|---|---|---|---|---|---|
| Taeniopteryx nivalis | L | III | 32 | Full Stew 1980 | | |
| Ceratopsyche alhedra | L | 0x1 | 31 | Schm Hils 1986 | | |
| C. slossonae | L | IIII | 4 | " | | |
| Hydropsyche betteni | L | I | 1 | " | | |
| Psychomyia flavida | L | I | 1 | Hils 1995 | | |
| Oporoservus | L | II | 2 | MCB 2019 | imm | N |
| O. fastidiosus L, 6 A.1 | L, A | -II | 7 | Hils Schm 1992 | | |
| Stenelmis | L | I | 1 | MCB 2019 | | |
| Atherix variegata | L | I | 1 | Hils 1995 | | |
| Simulium tuberosum species complex | L | I | 1 | Adler et al 2004 | | |
| Gammarus pseudolimnaeus | A | x-I | 16 | Hols 1972 | | |
| Dugesiidae | A | I | 1 | Thorp Rog 2016 | | |
| Naidinae | A | -HHII | 12 | Kathman 1998 | | Y |
| Ophidonais serpentina | A | I | 1 | " | | |
| Tubificinae (without hairs) | A | -I | 6 | " | | |
| Megadrili = Metasynephora = Lumbricidae | A | I | 1 | Thorp Rog 2016 | | |
| | | | | | | |
| ~~Split to Chironomidae~~ | ~~L~~ | ~~0-III~~ | | | | |
| Diamesa | L | x-III | 18 | And et al 2013 | | |
| Pagastia | L | I | 1 | " | | |
| Brillia flavifrons | L | I | 1 | Epler 2001 | | |
| Eukiefferiella devonica group | L | VII | 3 | And et al 2013 | | |
| Parametriocnemus | L | II | 2 | " | | |
| Microtendipes pedellus group | L | OIII | 23 | " | | |
| Orthocladius (Orthocladius) | L | I | 1 | " | | Y |
| O. (O.) oliveri | L | II | 2 | Bolton 2012 | | |
| Tvetenia bavarica group | L | II | 2 | Bode 1983 | | |
| Dicrotendipes | L | - | 5 | And et al 2013 | | |
| Polypedilum (Uresipedilum) | L | I | 1 | " | imm | N |
| P. (U.) aviceps | L | -II | 7 | Bolton 2012 | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |