

Instructions: Bold fields must be completed.

| Station Summary | | |
|-------------------------------------|-----------------------------------|---|
| Waterbody Name PINE CREEK | Waterbody ID Code 79900 | Sample ID (YYYYMMDD-CY-FD) 202010010805 |
| Sampling Location | | Database Key 249178146 |

| | | | |
|-------------------------------------|--|---|--|
| SWIMS Station ID 10020831 | SWIMS Station Name PINE CREEK - 200 FEET DOWNSTREAM FROM CTH T | | |
| Latitude 43.954803 | Longitude -88.06232 | Lat/Long Determination Method (circle) SWIMS SWDV GPS | Datum Used if using GPS WGS84 or NAD83 |
| Basin (WMU) MANTOWOC | Watershed Name SOUTH BRANCH MANTOWOC RIVER | County CALUMET | |

| Sample and Site Descriptors | |
|---|--|
| Sample Collector (Last Name, First) MARY GANSBERG | Project Name NER LONG-TERM TREND WADEABLE REFERENCE STREAM |

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) 1 | Estimated Area Sampled (m²) 0.7 | Number of Samples in Composite 1 | Replicate No. _____ of _____ |
|---------------------------------------|--|--|--|

Reason For Sampling

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

| | | | | | |
|--------------------------------|--------------------|----------------------|----------------|---------------------------------------|--------------------------|
| Water Temp. (C) 11.7 | D.O. (mg/l) | D.O. (% sat.) | pH (su) | Conductivity (umhos/cm) 284 | Transparency (cm) |
|--------------------------------|--------------------|----------------------|----------------|---------------------------------------|--------------------------|

| | |
|--|--|
| Water Color <input checked="" 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) 0.4 | Average Stream Width of reach (m) 5 |
|--|---|---|

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 (%) 10
Canopy Cover at Sample Site (%) 80

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 | | | |
| | | | | Point Source - Specify: | | | |
| | | | | Pasturing of Livestock | | | |
| Physical | | | | 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 | Raatz, Trevor | Taxonomist Dimick, Jeffrey |
| Date Processed | 12/20/2021 | Estimated Percent of Sample Sorted 9.38% |
| | | Specimens Saved Subsample archived in box until Feb 2025 |

3:25 -
5:20

C1Q3: 35
 D3Q2: 40:75
 C1Q1: 2: 77
 D3Q3: 36: 113
 C1Q4: 9: 122
 D3Q1: 43: 165
 C1Q2:
 D3Q4:

165

| Taxa | Life Stage | Bench Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|---|------------|-------------|-------|---------------------|-----------|--------------|
| <i>Baetis brunneicolar</i> | L I | I | 1 | Kub 2016 | | |
| B-flavistriga grees complex | L III | II | 7 | " | | |
| <i>Stenonema</i> | L III | III | 4 | MCB 2019 | imm | |
| Hydropsychidae | L III | III | 9 | " | imm | N |
| <i>Ceratopsyche stossnori</i> | L II | II | 2 | Schm Hils 1986 | | |
| <i>Chaumatopsyche</i> | L IV | IV | 49 | MCB 2019 | | |
| <i>Hydropsyche</i> | L III | III | 3 | Hils 1995 | imm | N |
| <i>H. betteni</i> | L I | I | 31 | Schm Hils 1986 | | |
| <i>Chimarra</i> | L I | I | 1 | MCB 2019 | imm | N |
| <i>C. atersma</i> | L II | II | 2 | Hils 1982 | | |
| <i>optiosenus</i> | L II | II | 7 | MCB 2019 | imm | N |
| <i>O. fastiditus</i> | L, XII | A, II | 14 | Hils Schm 1982 | | |
| <i>Parakiefferella</i> | P I | I | 1 | MCB 2019 | | |
| <i>Parametriocnemus</i> | P II | II | 2 | " | | N |
| <i>Tvetenia</i> | P II | II | 2 | " | | N |
| <i>Hemerochromia</i> | L III | III | 3 | " | | |
| <i>Gammarus pseudolimnoides</i> | A I-III | I-III | 8 | Hils 1972 | | |
| <i>Caecidotea</i> | A I | I | 1 | Thorp Reg 2016 | imm | |
| Dugesitidae | A III | III | 4 | " | | |
| Naidinae | A III | III | 3 | Kath Brin 1998 | | |
| <i>Enehydraeidae</i> | A I | I | 1 | Thorp Reg 2016 | | |
| <i>Whiffoniae (without hairs)</i> | A X | X | 10 | Kath Brin 1998 | | |
| Stilbiae Chironomidae | L III | III | | | | |
| <i>Parametriocnemus</i> | L I | I | 1 | And et al 2013 | | |
| <i>Tvetenia bavaria group</i> | L I | I | 1 | Bode 1983 | | |
| <i>Cladotanytarsus</i> | L II | II | 7 | And et al 2013 | | |
| <i>Microtanytarsus pedellus group</i> | L II | II | 2 | " | | |
| <i>Rhytanytarsus</i> | L II | II | 2 | " | | |
| <i>Nilotanytarsus</i> | L I | I | 1 | " | | |
| <i>Cricotopus (Cricotopus)</i> | L I | I | 1 | " | mt indet | |
| <i>Polypedilum (Cresipedium) flavum</i> | L X-III | X-III | 19 | Botton 2012 | | |
| | | | | | | |
| | | | | | | |
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