

Instructions: Bold fields must be completed.

Station Summary

| | | |
|--------------------------------------|------------------------------------|---|
| Waterbody Name FLUME CREEK | Waterbody ID Code 286600 | Sample ID (YYYYMMDD-CY-FD) 20221027-50-02 |
|--------------------------------------|------------------------------------|---|

| | |
|--|----------------------------------|
| Sampling Location downstream side of bridge/culverts | Database Key 323921466 |
|--|----------------------------------|

| | |
|-------------------------------------|--|
| SWIMS Station ID 10009175 | SWIMS Station Name FLUME CREEK CTH I SITE 17 |
|-------------------------------------|--|

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

| | | |
|----------------------------------|--|--------------------------|
| Basin (WMU) WOLF RIVER | Watershed Name UPPER LITTLE WOLF RIVER | County PORTAGE |
|----------------------------------|--|--------------------------|

Sample and Site Descriptors

| | |
|---|---|
| Sample Collector (Last Name, First) DAVID BOLHA | Project Name UPPER LITTLE WOLF RIVER TWA 2022 |
|---|---|

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) 2 | 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) 5.8 | D.O. (mg/l) 11.2 | D.O. (% sat.) 91.0 | pH (su) 8.7 | Conductivity (umhos/cm) 412.6 | Transparency (cm) |
|-------------------------------|----------------------------|------------------------------|-----------------------|---|--------------------------|

| | |
|--|--|
| Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained | Estimated Stream Velocity (m/s) <input type="checkbox"/> Slow (< 0.15 m/s) <input checked="" 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) 0.2 | Average Stream Width of reach (m) 6 |
|--|---|---|

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 80
 Sand: _____ 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

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

Comments

Special Instructions for Laboratory

For Lab Use Only

| | | |
|-------------------------------------|--|--|
| Sample Sorter <i>Keed, Kayla</i> | Taxonomist <i>Dimick, Jeffrey</i> | Estimated Percent of Sample Sorted <i>6.25%</i> |
| Date Processed <i>3-16-23</i> | Specimens Saved <i>259 subsample archived in ABL until Jun 2026</i> | |

*B104-68201-50
 Q2-30+34 Q4-77
 Q1- Q2-
 Q3- Q3-*

| Taxa | Life Stage | Benthic Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|-----------------------------|------------|---------------|-------|---------------------|-----------|--------------|
| Ephemeroptera | L | I | 1 | MCB 2019 | dam | Y |
| Ephemerella | L | I | 1 | " | imm | N |
| E. invaria | L | I | 1 | Kluberhanz 2016 | | |
| E. subvaria | L | X | 10 | " | | |
| Leucocrota | L | I | 1 | MCB 2019 | | |
| Neoleptophlebia | L | X-III | 19 | " | dam/imm | N |
| N. mollis | L | III | 5 | Kluberhanz 2016 | | |
| Alloparia | L | I | 1 | MCB 2019 | | |
| Paracania angulata | L | I | 1 | Nitchcock 1974 | | |
| Amphinemura | L | I | 1 | MCB 2019 | imm | |
| Perlidae | L | I | 1 | " | imm | N |
| Isoperla signata | L | X-I | 16 | Hilsenhoff 1982 | | |
| Taeniopteryx burksi | L | I | 5 | Fell Stew 1980 | | |
| Micrasema rustrosum | L | III | 4 | Hilsenhoff 1985 | | |
| Glossosoma intermedium | L | I | 1 | Werner Morse 2002 | | |
| Hydropsychidae | L | I | 1 | MCB 2019 | imm | N |
| Ceratopsyche bronta | L | I | 1 | Schmittils 1986 | | |
| C. glossonae | L | III | 3 | " | | |
| C. sparna | L | X-I | 15 | " | | |
| Chematosyche | L | III | 4 | MCB 2019 | | |
| Hydropsyche betteri | L | I | 5 | Schmittils 1986 | | |
| Lepidostoma | L | X-II | 12 | MCB 2019 | | |
| Oecetis | L | I | 1 | " | imm | |
| Nesophylax | L | III | 4 | " | imm | |
| Nigronia semicarnis | L | II | 2 | Neunzig 1984 | | |
| Ditropia quadrinotata | A | III | 4 | Hilschum 1992 | | |
| Optiosepius | L | 0-II | 27 | MCB 2019 | imm | N |
| O. fastidius | L | I-II | 8 | Hilschum 1992 | | |
| Stenelmis | L | II | 2 | MCB 2019 | | N |
| S. crenata | A | I | 1 | Hilschum 1992 | | |
| Atherix variegata | L | I | 1 | Hilsenhoff 1995 | | |
| Orthocladius (Orthocladius) | P | I | 1 | Weder 1986 | | N |
| Amecletia | L | -II | 7 | MCB 2019 | | |
| Meoptera | L | II | 2 | " | | |
| Antocha | L | III | 8 | " | | |
| Dicranota | L | III | 3 | " | | |
| Gammarus pseudolimnoides | A | II | 2 | Halsinger 1972 | | |

