

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

| Station Summary | | | |
|--|---|--|---|
| Waterbody Name BIG DRYWOOD CREEK | | Waterbody ID Code 2154800 | Sample ID (YYYYMMDD-CY-FD) 20181023-09-1 |
| Sampling Location US bridge 215m | | | Database Key 169413399 |
| SWIMS Station ID 10008671 | SWIMS Station Name 1-BIG DRYWOOD CREEK - HWY O [1] | | |
| Latitude | Longitude | Lat/Long Determination Method (circle) SWIMS SWDV GPS | Datum Used if using GPS WGS84 or NAD83 |
| Basin (WMU) LOWER CHIPPEWA | | Watershed Name LOWER YELLOW (CHIPPEWA CO.) RIVER | County CHIPPEWA |

| Sample and Site Descriptors | |
|--|---|
| Sample Collector (Last Name, First) ALISON P WILLMAN , CHRISTOPHER J Willger, Mycal Raloff | Project Name BIG DRYWOOD/LITTLE DRYWOOD TWA 2018 |

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) 45 sec | Estimated Area Sampled (m ²) 1m ² | Number of Samples in Composite 1 | Replicate No. <u>1</u> of <u>1</u> |
|-------------------------------------|---|-------------------------------------|------------------------------------|

Reason For Sampling

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

| | | | | | |
|-----------------|-------------|---------------|---------|-------------------------|-------------------|
| Water Temp. (C) | D.O. (mg/l) | D.O. (% sat.) | pH (su) | Conductivity (umhos/cm) | 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) .3 | Average Stream Width of reach (m) 5 |
|---|---|--|

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): _____ Gravel (ladybug to tennisball): _____
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: 70 Coarse Woody Debris: 30 Other (): _____
 Embeddedness of Substrate at Sample Site (%) — 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 | N | U | Chlorine | N | U |
| - Filamentous Algae | N | U | Dissolved Oxygen | N | U |
| - Planktonic Algae | N | U | Nutrients (P, N...) | U | U |
| Iron Bacteria | N | U | Toxics: - Inorganic (Metals) | N | U |
| Macrophytes | N | U | - Organic (PCBs, pesticides...) | N | U |
| Slimes | N | U | Other - Specify: | | |
| Other - Specify: | | | Sources of Stream Impacts | | |
| | | | Bank Erosion | PL | U |
| Physical | | | Point Source - Specify: | | |
| Bank Erosion | PL | U | Pasturing of Livestock | N | U |
| Channelization: - Upstream | N | U | Runoff: - Barnyard | N | U |
| - Downstream | N | U | - Construction | N | U |
| Hydraulic Scour / Channel Incision | N | U | - Cropland | N | U |
| Impoundment: - Upstream | N | U | - Urban | N | U |
| - Downstream | N | U | Septic Systems | U | U |
| Low Flow | N | U | Tile Drainage - Organic Soils | U | U |
| Sedimentation | N | U | - Mineral Soils | U | U |
| Sludge | N | U | Springs | U | U |
| Thermal | N | U | Tributary(s) | U | U |
| Turbidity | N | U | Wetland | U | U |
| Other - Specify: | | | Other - Specify: | | |

Comments

Special Instructions for Laboratory

For Lab Use Only

| | | |
|--------------------------------------|---|--|
| Sample Sorter <i>Keyla Wilcox</i> | Taxonomist <i>Dimick, Jeffrey</i> | Estimated Percent of Sample Sorted <i>33%</i> |
| Date Processed <i>5/10/19</i> | Specimens Saved <i>Subsample archived in ABC unit / Jul 2022</i> | |

A2 = 64 A3 = 31 C2 = 41
 E1 = 21 C1 = 8
 120... 161

| Taxa | Life Stage | Bench Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|-----------------------------------|------------|-------------|-------|---------------------|-----------|--------------|
| <i>Allocajnia</i> | L | xii | 12 | Hils 1995 | | |
| <i>Isoperla signata</i> | L | - | 5 | Hils 1982 | | |
| <i>Taeniopteryx</i> | L | - | 5 | Hils 1995 | | |
| <i>Aeocanna pygmaea</i> | L | iiii | 4 | Klob 2016 | | |
| <i>Caenis</i> | L | i | 1 | " | imm | N |
| <i>C. punctata</i> | L | i | 1 | " | | |
| Identiagenitidae | L | " | 2 | " | imm | N |
| <i>Maccaffertium</i> | L | xiiii | 9 | " | imm | n=4, Y |
| <i>M. mediopunctatum</i> | L | i | 1 | " | | |
| Leptophlebiidae | L | " | 2 | " | imm | N |
| <i>Leptophlebia</i> | L | " | 2 | " | imm | N |
| <i>L. cupida</i> | L | i | 1 | " | | |
| <i>Paraleptophlebia</i> | L | " | 2 | " | imm | |
| <i>Ceratopsyche strosserae</i> | L | ii | 5 | Schm Hils 1986 | | |
| <i>Ceraclea</i> | L | i | 1 | Hils 1995 | | |
| Limnephilidae | L | i | 1 | " | imm | |
| <i>Optioservus</i> | L | iii | 3 | Hils Schm 1992 | imm | N |
| <i>O. fastiditus</i> | A | i | 1 | " | | |
| <i>Stenelmis</i> | L | i | 1 | " | | |
| <i>Atherix variegata</i> | L | i | 1 | Hils 1995 | | |
| <i>Bezzia/Palaemyra</i> | L | i | 1 | " | | |
| <i>Stibocladus</i> | P | i | 1 | Ferr et al 2008 | | |
| <i>Tretania</i> | P | i | 1 | " | | N |
| <i>Hygrobatas</i> | A | i | 1 | Aluch 1984 | | |
| Dufesiidae | A | i | 1 | Thorp Reg 2016 | | |
| Cylenidae | A | i | 1 | " | | |
| Naidinae | A | i | 1 | Brin Geld 1991 | | |
| Spitt Aza Chironomidae | L | Bx-III | | | | |
| Spitt Aza Chironomidae | L | Bx-III | | | | |
| <i>Pottrastia longimana</i> group | L | i | 1 | South And 2013 | | |
| <i>Brillia flavifrons</i> | L | i | 1 | Epler 2001 | | |
| <i>Corynoneura</i> | L | -iiii | 9 | And + 3 2013 | | |
| <i>Parametrocnemis</i> | L | iii | 5 | " | | |
| <i>Labrundinia pilosella</i> | L | ii | 2 | Epler 2001 | | |
| <i>Nilotanytus</i> | L | i | 1 | Cran Epl 2013 | | |
| <i>Zarecolomyia</i> | L | i | 1 | " | | |

