

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

**Station Summary**

|                                     |                                     |   |
|-------------------------------------|-------------------------------------|---|
| <b>Waterbody Name</b><br>PUFF CREEK | <b>Waterbody ID Code</b><br>1371500 | <b>Sample ID (YYYYMMDD-CY-FD)</b><br>20181022-72-02 |
|-------------------------------------|-------------------------------------|---|

|   |                                  |
|---|----------------------------------|
| <b>Sampling Location</b><br>Riffle upstream of HWY A bridge | <b>Database Key</b><br>169405412 |
|---|----------------------------------|

|                                     |  |
|-------------------------------------|--|
| <b>SWIMS Station ID</b><br>10050659 | <b>SWIMS Station Name</b><br>PUFF CREEK AT CTH A |
|-------------------------------------|--|

|                                |                                 |   |  |
|--------------------------------|---------------------------------|---|--|
| <b>Latitude</b><br>44.51856831 | <b>Longitude</b><br>-90.1298312 | <b>Lat/Long Determination Method (circle)</b><br>SWIMS SWDV GPS | <b>Datum Used if using GPS</b><br>WGS84 or NAD83 |
|--------------------------------|---------------------------------|---|--|

|   |  |                       |
|---|--|-----------------------|
| <b>Basin (WMU)</b><br>CENTRAL WISCONSIN | <b>Watershed Name</b><br>UPPER YELLOW (WOOD CO.) RIVER | <b>County</b><br>WOOD |
|---|--|-----------------------|

**Sample and Site Descriptors**

|   |  |
|---|--|
| <b>Sample Collector (Last Name, First)</b><br>TAYLOR HASZ | <b>Project Name</b><br>WEST DISTRICT NC STREAM STRATIFIED SITES 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

|  |   |  |                                    |
|--|---|--|------------------------------------|
| <b>Total Sampling Time (min)</b><br>10 | <b>Estimated Area Sampled (m<sup>2</sup>)</b><br>10 | <b>Number of Samples in Composite</b><br>1 | <b>Replicate No.</b> 1 <b>of</b> 1 |
|--|---|--|------------------------------------|

**Reason For Sampling**

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

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

|  |  |
|--|--|
| <b>Water Color</b><br><input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained | <b>Estimated Stream Velocity (m/s)</b><br><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) |
|--|--|

|  |  |  |
|--|--|--|
| <b>Measured Velocity</b><br>circle units<br>m/s or f/s | <b>Average Stream Depth of reach (m)</b> | <b>Average Stream Width of reach (m)</b> |
|--|--|--|

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

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 10 Gravel (ladybug to tennisball): 50  
 Sand: 30 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: 10 Coarse Woody Debris: \_\_\_\_\_ Other (\_\_\_\_): \_\_\_\_\_

**Embeddedness of Substrate at Sample Site (%)** 10     
**Canopy Cover at Sample Site (%)** 100

**Stream and Watershed Descriptors**

N = Not a problem      PL = Present, Low Impact  
 U = Uncertain          PH = Present, High Impact

| Factors that may be influencing Water Resource Integrity |       |            | Factors that may be influencing Water Resource Integrity |       |            |
|--|-------|------------|--|-------|------------|
|  | Local | Water-shed |  | Local | Water-shed |
| <b>Biological</b>  |       |            | <b>Chemical</b>  |       |            |
| Algae: - Diatoms / Periphyton                            | N     | ✓          | Chlorine   | U     | U          |
| - Filamentous Algae                                      | N     | ✓          | Dissolved Oxygen   | U     | U          |
| - Planktonic Algae                                       | N     | ✓          | Nutrients (P, N...)                                      | U     | U          |
| Iron Bacteria  | N     | ✓          | Toxics: - Inorganic (Metals)                             | U     | U          |
| Macrophytes  | PL    | ✓          | - Organic (PCBs, pesticides...)                          | U     | U          |
| Slimes   | N     | ✓          | Other - Specify:   |       |            |
| Other - Specify:   |       |            | <b>Sources of Stream Impacts</b>                         |       |            |
|  |       |            | Bank Erosion   | PL    | U          |
|  |       |            | Point Source - Specify:                                  | U     | U          |
| <b>Physical</b>  |       |            | Pasturing of Livestock                                   | N     | U          |
| Bank Erosion   | PL    | U          | Runoff: - Barnyard                                       | N     | U          |
| Channelization: - Upstream                               | N     | N          | - Construction   | N     | U          |
| - Downstream   | N     | N          | - Cropland   | N     | U          |
| Hydraulic Scour / Channel Incision                       | N     | U          | (Highway) - Urban  | PL    | U          |
| Impoundment: - Upstream                                  | U     | N          | Septic Systems   | N     | U          |
| - Downstream   | U     | N          | Tile Drainage - Organic Soils                            | U     | U          |
| Low Flow   | N     | N          | - Mineral Soils  | U     | U          |
| Sedimentation  | PL    | U          | Springs  | N     | U          |
| Sludge   | N     | U          | Tributary(s)   | U     | U          |
| Thermal  | N     | U          | Wetland  | N     | U          |
| Turbidity  | N     | U          | Other - Specify:   |       |            |
| Other - Specify:   |       |            |  |       |            |

Comments: sampled in riffle near HWY A bridge. water level was slightly high.

Special Instructions for Laboratory

**For Lab Use Only**

|                                      |                                     |  |
|--------------------------------------|-------------------------------------|--|
| Sample Sorter<br><i>Keyla Wilcox</i> | Taxonomist<br><i>Dimick Jeffrey</i> | Estimated Percent of Sample Sorted<br><i>29%</i> |
| Date Processed<br><i>5/27/2019</i>   | Specimens Saved<br><i>146</i>       |  |

C3 = 60 D1 = 16  
 A2 = 36 B3 = 34      146

subsample archived in ABL until Oct 2022

| Taxa   | Life Stage | Bench Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|--|------------|-------------|-------|---------------------|-----------|--------------|
| <i>Allocaenia</i>                                      | L          | III         | 3     | Hils 1995           |           |              |
| <i>Maccartertium</i>                                   | L          | I           | 1     | Klub 2016           | imm       | N            |
| <i>M. medianatum</i>                                   | L          | III         | 5     | "                   |           |              |
| <i>M. vicarium</i>                                     | L          | I           | 1     | "                   |           |              |
| <i>Leptophlebia</i>                                    | L          | I           | 1     | "                   |           |              |
| <i>Cheumatopsyche</i>                                  | L          | I           | 1     | Hils 1995           |           |              |
| <i>Anaxonyx variegatus</i>                             | A          | I           | 1     | Hils Schm 1992      |           |              |
| <i>Opiroservus</i>                                     | L          | x-III       | 18    | "                   | imm       | N            |
| <i>O. fastidiosus</i> L, 17 A, 11                      | 2, A       | 0-III       | 28    | "                   |           |              |
| <i>Stenelmis</i>                                       | L          | x-1         | 16    | "                   |           | N            |
| <i>S. crenata</i>                                      | A          | III         | 4     | "                   |           |              |
| <i>Atherix variegata</i>                               | L          | -III        | 8     | Hils 1995           |           |              |
| <i>Simulium jenningsi</i> species complex              | L          | I           | 1     | Adl et al 2004      |           |              |
| <i>Dicranopta</i>                                      | L          | -           | 5     | Hils 1995           |           |              |
| <i>Caecidotea</i>                                      | A          | I           | 1     | Will 1972           | dam       |              |
| <i>Oreonestes rusticus</i>                             | A          | "           | 2     | Hobbs Jags 1988     |           |              |
| <i>Naidinae</i>  | A          | "           | 2     | Braun et al 1991    |           |              |
| <i>Tubificinae</i> (without hairs)                     | A          | -           | 5     | Klemm 1985          |           |              |
| <i>Lumbriculus</i>                                     | A          | I           | 1     | Thompson 2016       |           |              |
| <i>Pisidium</i>  | A          | 0III        | 23    | Mackie 2007         |           |              |
| <del><i>Split A3 Chironomidae</i></del>                | L          | III-III     |       |                     |           |              |
| <i>Natarsia balthorea</i>                              | L          | "           | 2     | Epler 2001          |           |              |
| <i>Nilotanytus</i>                                     | L          | I           | 1     | Cran Epl 2013       |           |              |
| <i>Thienemannimyia</i> group                           | L          | I           | 1     | "                   | imm       |              |
| <i>Orthocladiinae</i> 08300000                         | L          | -1          | 6     | Cranston 2013       | dam/imm   | N            |
| <i>Corynoneura</i>                                     | L          | I           | 1     | And+3 2013          |           |              |
| <i>Diplocladius</i>                                    | L          | I           | 1     | "                   |           |              |
| <i>Orthocladius</i> ( <i>Orthocladius</i> )            | L          | I           | 1     | "                   | nd, indet | N            |
| <i>O. (O.) oliveri</i>                                 | L          | III         | 3     | Bolton 2012         |           |              |
| <i>Parakiefferiella</i>                                | L          | I           | 1     | And+3 2013          |           |              |
| <i>Rheosmittia</i>                                     | L          | I           | 1     | "                   |           |              |
| <i>Cladotanytarsus</i>                                 | L          | x-1         | 16    | Epl et al 2013      |           |              |
| <i>Microtendipes pedellus</i> group                    | L          | III         | 4     | "                   |           |              |
| <i>Polypedium</i> ( <i>Uresipedium</i> ) <i>flavum</i> | L          | III         | 3     | Bolton 2012         |           |              |
| <i>Rheotanytarsus</i>                                  | L          | "           | 2     | Epl et al 2013      |           |              |
| <i>Stretochironomus</i>                                | L          | x-III       | 14    | "                   |           |              |
| <i>Tanytarsus</i>                                      | L          | "           | 2     | "                   |           |              |