

Instructions: Bold fields must be completed.

| Station Summary   |  |  |   |
|---|--|--|---|
| <b>Waterbody Name</b><br>SMITH CONLEY CREEK   |  | <b>Waterbody ID Code</b><br>914100   | <b>Sample ID (YYYYMMDD-CY-FD)</b><br>20201028-25-03     |
| <b>Sampling Location</b><br>25 m upstream CTH K bridge  |  | <b>Database Key</b><br>252512593   |   |
| <b>SWIMS Station ID</b><br>10015141   |  | <b>SWIMS Station Name</b><br>SMITH CONLEY CREEK- (CTH K)   |   |
| <b>Latitude</b><br>42.94037   | <b>Longitude</b><br>-89.92122                      | <b>Lat/Long Determination Method (circle)</b><br>SWIMS SWDV <u>GPS</u>   | <b>Datum Used if using GPS</b><br><u>WGS84</u> or NAD83 |
| <b>Basin (WMU)</b><br>SUGAR - PECATONICA  |  | <b>Watershed Name</b><br>UPPER EAST BRANCH PECATONICA RIVER  | <b>County</b><br>IOWA                                   |
| Sample and Site Descriptors   |  |  |   |
| <b>Sample Collector (Last Name, First)</b><br>CAMILLE BRUHN   |  | <b>Project Name</b><br>2020 -RIDGEWAY BRANCH- EAST BRANCH PECATONICA RIV   |   |
| <b>Sampling Device</b>  |  |  |   |
| <input checked="" type="checkbox"/> D-Frame Kick Net <input type="checkbox"/> Surber Sampler <input type="checkbox"/> Eckman<br><input type="checkbox"/> Ponar <input type="checkbox"/> Artificial Substrate <input type="checkbox"/> Hess Sampler <input type="checkbox"/> Other: _____  |  |  |   |
| <b>Habitat Sampled</b>  |  |  |   |
| <input checked="" type="checkbox"/> Riffle <input type="checkbox"/> Run <input type="checkbox"/> Pool<br><input type="checkbox"/> Other <input type="checkbox"/> Shoreline Composite <input type="checkbox"/> Proportionally-Sampled Habitat<br><input type="checkbox"/> Littoral Zone <input type="checkbox"/> Profundal Zone <input type="checkbox"/> Wetland |  |  |   |
| <b>Total Sampling Time (min)</b><br>1   | <b>Estimated Area Sampled (m<sup>2</sup>)</b><br>1 | <b>Number of Samples in Composite</b>  | <b>Replicate No. _____ of _____</b>                     |
| <b>Reason For Sampling</b>  |  |  |   |
| <input type="checkbox"/> Least Impacted Reference <input type="checkbox"/> Baseline <input type="checkbox"/> Impact / Treatment Site <i>Ridgeway Br -</i><br><input type="checkbox"/> Control Site <input type="checkbox"/> Trend <input checked="" type="checkbox"/> Other: <i>E Branch Pecatonica TWA</i>   |  |  |   |
| <b>Water Temp. (C)</b><br>5.2   | <b>D.O. (mg/l)</b><br>11.4                         | <b>D.O. (% sat.)</b><br>93   | <b>pH (su)</b><br>8.30                                  |
| <b>Water Color</b><br><input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained  |  | <b>Conductivity (umhos/cm)</b><br>562.4  | <b>Transparency (cm)</b>                                |
| <b>Measured Velocity</b><br>circle units<br>m/s or f/s  |  | <b>Estimated Stream Velocity (m/s)</b><br><input type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s) | <b>Average Stream Depth of reach (m)</b><br>0.3         |
| <b>Average Stream Width of reach (m)</b><br>5   |  | <b>Composition of Substrate Sampled (Percent):</b>   |   |
| Bedrock: _____  |  | Boulders (basketball or larger): _____   | Rubble (tennisball to basketball): <u>100</u>           |
| Sand: _____   |  | Clay: _____  | Gravel (ladybug to tennisball): _____                   |
| Silt/Muck: _____  |  | Overhanging Vegetation: _____  |   |
| Aquatic Macrophytes: _____  |  | Leaf Snags: _____  | Coarse Woody Debris: _____                              |
| Other ( _____ ): _____  |  |  |   |
| <b>Embeddedness of Substrate at Sample Site (%)</b><br>0  |  | <b>Canopy Cover at Sample Site (%)</b><br>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 |
|--|--|-------|------------|--|--|-------|------------|
| <b>Biological</b>  |  |       |            | <b>Chemical</b>  |  |       |            |
| 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:   |  |       |            | <b>Sources of Stream Impacts</b>                         |  |       |            |
|  |  |       |            | Bank Erosion   |  |       |            |
|  |  |       |            | Point Source - Specify:                                  |  |       |            |
|  |  |       |            | Pasturing of Livestock                                   |  |       |            |
| <b>Physical</b>  |  |       |            | 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<br>Dunn, Isabel | Taxonomist<br>Dimick, Jeffrey                                  | Estimated Percent of Sample Sorted<br>8.6% |
| Date Processed<br>7/17/2021   | Specimens Saved<br>Subsample archived in ABC under 1 Sept 2021 |  |

8:00 -  
12:30

A1  
1-30  
4-25  
2-14  
3

C2  
1-29  
2-26  
3(HI)-12  
4

136

| Taxa   | Life Stage   | Bench Tally    | Count         | Taxonomic Reference | Condition     | Unique Taxon |
|--|--------------|----------------|---------------|---------------------|---------------|--------------|
| <i>Baetis brunneator</i>                                   | L            | I              | 1             | Kuh 2016            |               |              |
| <i>B. tricaudatus</i>                                      | L            | I              | 1             | "                   |               |              |
| <i>Ephemerella</i>   | L            | III            | 3             | MCB 2019            | imm           |              |
| <i>Brachycentrus occidentalis</i>                          | L            | III            | 4             | Hils 1985           |               |              |
| <i>Ceratopsyche</i>  | L            | I              | 1             | Hils 1995           | imm           | N            |
| <i>C. broadi</i> <i>Clossonae</i>                          | L            | III            | 10            | Schmitts 1966       |               |              |
| <i>C. spang</i>  | L            | I              | 1             | "                   |               |              |
| <i>Cheumatopsyche</i>                                      | L            | 8-III          | 49            | MCB 2019            |               |              |
| <i>Hydropsyche betterii</i>                                | L            | (I)            | 2             | Schmitts 1966       |               |              |
| <i>Ptilostomis</i>   | L            | I              | 1             | MCB 2019            |               |              |
| <i>Optiosenus</i>  | L            | II             | 2             | "                   | imm           |              |
| <i>Neoplasta</i>   | L            | I              | 1             | "                   |               |              |
| <i>Simulium</i> <u>Stuber SC</u>                           | P            | II             | 2             | "                   |               | Y            |
| <i>S. vittatum</i> species complex 08110217                | L            | x-1            | 16            | Ad et al 2004       |               |              |
| <i>Limnophila</i>  | L            | I              | 1             | MCB 2019            |               |              |
| <i>Gammarus pseudolimnoides</i>                            | A            | III            | 4             | Hils 1972           |               |              |
| <i>Caecidotea</i>  | A            | I              | 1             | Thorp & Ros 2016    | Fem           |              |
| <i>Mermithidae</i>   | A            | I              | 1             | "                   |               |              |
| <i>Dugesiiidae</i>   | A            | -              | 5             | "                   |               |              |
| <i>Tubificidae</i> (without hairs)                         | A            | I              | 1             | Kahn & Brin 1998    |               |              |
| <i>Naididae</i>  | A            | I              | 1             | "                   |               |              |
| <del><i>Split A2 Chironomidae</i></del>                    | <del>L</del> | <del>x-1</del> | <del>16</del> | <del>"</del>        |               |              |
| <i>Brillia</i>   | L            | II             | 2             | And et al 2013      | imm           | N            |
| <i>B. flavifrons</i>                                       | L            | I              | 1             | Epler 2001          |               |              |
| <i>Parametrioctenemus</i>                                  | L            | III            | 3             | And et al 2013      |               |              |
| <i>Taenia bavarica</i> group                               | L            | II             | 2             | Bode 1983           |               |              |
| <i>Rheotanytarsus</i>                                      | L            | x-11           | 12            | And et al 2013      |               |              |
| <i>Orthocladiinae</i>                                      | L            | I              | 1             | "                   | imm           | N            |
| <i>Orthocladius</i> ( <i>Orthocladius</i> )                | L            | I              | 1             | "                   |               |              |
| <i>Chironomidae</i> n=2, <i>Microps/Tanytarsus</i>         | L            | III            | 5             | "                   | not indet imm | n=2, Y       |
| <i>Paratanytarsus longistilus</i>                          | L            | I              | 1             | "                   |               |              |
| <i>Polypectilum</i> ( <i>Unespectilum</i> ) <i>ariceps</i> | L            | III            | 4             | Bolton 2012         |               |              |
| <i>P.(U.) flavum</i>                                       | L            | II             | 2             | "                   |               |              |

3 taxa, TVAL ≤ 2.0  
 6 < (0.1 × 105)