

Instructions: Bold fields must be completed.

|                                                                                                                                                                                                                                                                                                                                                                 |                        |                                               |                                                                    |                                                                                                                                                                                |                                              |                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------|
| <b>Station Summary</b>                                                                                                                                                                                                                                                                                                                                          |                        |                                               |                                                                    |                                                                                                                                                                                |                                              |                                    |
| Waterbody Name<br>OTTER CREEK                                                                                                                                                                                                                                                                                                                                   |                        |                                               | Waterbody ID Code<br>1194200                                       |                                                                                                                                                                                | Sample ID (YYYYMMDD-CY-FD)<br>20161020-63-02 |                                    |
| Sampling Location                                                                                                                                                                                                                                                                                                                                               |                        |                                               |                                                                    |                                                                                                                                                                                | Database Key<br>135787048                    |                                    |
| SWIMS Station ID<br>10030070                                                                                                                                                                                                                                                                                                                                    |                        | SWIMS Station Name<br>OTTER CREEK AT HWY 82   |                                                                    |                                                                                                                                                                                |                                              |                                    |
| Latitude<br>43.57445                                                                                                                                                                                                                                                                                                                                            | Longitude<br>-90.65171 |                                               | Lat/Long Determination Method (circle)<br>SWIMS      SWDV      GPS |                                                                                                                                                                                | Datum Used if using GPS<br>WGS84 or NAD83    |                                    |
| Basin (WMU)<br>LOWER WISCONSIN                                                                                                                                                                                                                                                                                                                                  |                        |                                               | Watershed Name<br>MIDDLE KICKAPOO RIVER                            |                                                                                                                                                                                | County<br>VERNON                             |                                    |
| <b>Sample and Site Descriptors</b>                                                                                                                                                                                                                                                                                                                              |                        |                                               |                                                                    |                                                                                                                                                                                |                                              |                                    |
| Sample Collector (Last Name, First)<br>JOHN DELANEY                                                                                                                                                                                                                                                                                                             |                        |                                               | Project Name<br>KICKAPOO AND LITTLE WILLOW RIVER MACROINVERTEB     |                                                                                                                                                                                |                                              |                                    |
| <b>Sampling Device</b>                                                                                                                                                                                                                                                                                                                                          |                        |                                               |                                                                    |                                                                                                                                                                                |                                              |                                    |
| <input checked="" type="checkbox"/> 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 |                        |                                               |                                                                    |                                                                                                                                                                                |                                              |                                    |
| Total Sampling Time (min)<br>6.0                                                                                                                                                                                                                                                                                                                                |                        | Estimated Area Sampled (m <sup>2</sup> )<br>3 |                                                                    | Number of Samples in Composite<br>1                                                                                                                                            |                                              | Replicate No. _____ of _____       |
| <b>Reason For Sampling</b>                                                                                                                                                                                                                                                                                                                                      |                        |                                               |                                                                    |                                                                                                                                                                                |                                              |                                    |
| <input type="checkbox"/> Least Impacted Reference <input checked="" type="checkbox"/> Baseline <input type="checkbox"/> Impact / Treatment Site<br><input type="checkbox"/> Control Site <input type="checkbox"/> Trend <input type="checkbox"/> Other: _____                                                                                                   |                        |                                               |                                                                    |                                                                                                                                                                                |                                              |                                    |
| Water Temp. (C)<br>11.1                                                                                                                                                                                                                                                                                                                                         | D.O. (mg/l)<br>12.9    | D.O. (% sat.)<br>116                          | pH (su)<br>8.3                                                     | Conductivity (umhos/cm)                                                                                                                                                        |                                              | Transparency (cm)                  |
| Water Color<br><input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained                                                                                                                                                                                                                                       |                        |                                               |                                                                    | Estimated Stream Velocity (m/s)<br><input 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<br>circle units<br>m/s or f/s                                                                                                                                                                                                                                                                                                                 |                        |                                               | Average Stream Depth of reach (m)                                  |                                                                                                                                                                                | Average Stream Width of reach (m)            |                                    |
| <b>Composition of Substrate Sampled (Percent):</b>                                                                                                                                                                                                                                                                                                              |                        |                                               |                                                                    |                                                                                                                                                                                |                                              |                                    |
| Bedrock: _____                                                                                                                                                                                                                                                                                                                                                  |                        | Boulders (basketball or larger): _____        |                                                                    | Rubble (tennisball to basketball): 20                                                                                                                                          |                                              | Gravel (ladybug to tennisball): 10 |
| Sand: 10                                                                                                                                                                                                                                                                                                                                                        |                        | Clay: _____                                   |                                                                    | Silt/Muck: 10                                                                                                                                                                  |                                              | Overhanging Vegetation: 30         |
| Aquatic Macrophytes: _____                                                                                                                                                                                                                                                                                                                                      |                        | Leaf Snags: _____                             |                                                                    | Coarse Woody Debris: 20                                                                                                                                                        |                                              | Other (____): _____                |
| Embeddedness of Substrate at Sample Site (%) 20                                                                                                                                                                                                                                                                                                                 |                        |                                               |                                                                    | Canopy Cover at Sample Site (%) 70                                                                                                                                             |                                              |                                    |

Stream and Watershed Descriptors

N = Not a problem  
U = Uncertain

PL = Present, Low Impact  
PH = Present, High Impact

| Factors that may be influencing<br>Water Resource Integrity | Local | Water-<br>shed | Factors that may be influencing<br>Water Resource Integrity | Local | Water-<br>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                                                |       | PH             | - Construction                                              |       |                |
| Channelization: - Upstream                                  |       |                | - Cropland                                                  |       |                |
| - Downstream                                                |       |                | - Urban                                                     |       |                |
| Hydraulic Scour / Channel Incision                          |       | PH             | 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 Recent 10-14" rain event scoured stream bed and may have reduced macroinvertebrates

Special Instructions for Laboratory

For Lab Use Only

|                                  |                                                               |                                           |
|----------------------------------|---------------------------------------------------------------|-------------------------------------------|
| Sample Sorter<br>Andrew Kohlmann | Taxonomist<br>Dimick, Jeffery                                 | Estimated Percent of Sample Sorted<br>33% |
| Date Processed<br>3/14/17        | Specimens Saved<br>Subsample archived in ABL vials 1 Aug 2020 |                                           |

C1-1B A2-97  
D2-39 C3-142  
A3-6A