

Instructions: Bold fields must be completed.

|                                                                                                                                                                                                                                                                                                                                                                            |                         |                                                                |                                                                                                                                                                                           |                                         |                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------|
| <b>Station Summary</b>                                                                                                                                                                                                                                                                                                                                                     |                         |                                                                |                                                                                                                                                                                           |                                         |                                            |
| Waterbody Name<br>BRUSH CREEK                                                                                                                                                                                                                                                                                                                                              |                         |                                                                | Waterbody ID Code<br>1198300                                                                                                                                                              |                                         | Sample ID (YYYYMMDD-CY-FD)<br>201610196327 |
| Sampling Location<br>10m downstream of Garden St. bridge                                                                                                                                                                                                                                                                                                                   |                         |                                                                |                                                                                                                                                                                           |                                         | Database Key<br>142720498                  |
| SWIMS Station ID<br>10013985                                                                                                                                                                                                                                                                                                                                               |                         | SWIMS Station Name<br>BRUSH CREEK STATION 1 - SOUTH GARDEN ST. |                                                                                                                                                                                           |                                         |                                            |
| Latitude<br>43.721535                                                                                                                                                                                                                                                                                                                                                      | Longitude<br>-90.592094 |                                                                | 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>MICHAEL MILLER                                                                                                                                                                                                                                                                                                                      |                         |                                                                | Project Name<br>KICKAPOO AND LITTLE WILLOW RIVER MACROINVERTEB                                                                                                                            |                                         |                                            |
| <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 checked="" 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>15                                                                                                                                                                                                                                                                                                                                            |                         | Estimated Area Sampled (m <sup>2</sup> )<br>1                  |                                                                                                                                                                                           | Number of Samples in Composite<br>_____ |                                            |
| 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>12.1                                                                                                                                                                                                                                                                                                                                                    | D.O. (mg/l)<br>14.0     | D.O. (%sat.)<br>100                                            | pH (su)<br>7.5                                                                                                                                                                            | Conductivity (umhos/cm)<br>548          | Transparency (cm)<br>123                   |
| 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 checked="" 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)<br>0.5                       |                                                                                                                                                                                           | Average Stream Width of reach (m)<br>4  |                                            |
| <b>Composition of Substrate Sampled (Percent):</b>                                                                                                                                                                                                                                                                                                                         |                         |                                                                |                                                                                                                                                                                           |                                         |                                            |
| Bedrock: _____                                                                                                                                                                                                                                                                                                                                                             |                         | Boulders (basketball or larger): _____                         | Rubble (tennisball to basketball): 20                                                                                                                                                     | Gravel (ladybug to tennisball): 60      |                                            |
| Sand: _____                                                                                                                                                                                                                                                                                                                                                                |                         | Clay: _____                                                    | Silt/Muck: _____                                                                                                                                                                          | Overhanging Vegetation: _____           |                                            |
| Aquatic Macrophytes: _____                                                                                                                                                                                                                                                                                                                                                 |                         | Leaf Snags: 10                                                 | Coarse Woody Debris: 10                                                                                                                                                                   | Other ( _____ ): _____                  |                                            |
| Embeddedness of Substrate at Sample Site (%)                                                                                                                                                                                                                                                                                                                               |                         | 20                                                             |                                                                                                                                                                                           | Canopy Cover at Sample Site (%)         |                                            |
|                                                                                                                                                                                                                                                                                                                                                                            |                         |                                                                |                                                                                                                                                                                           | 20                                      |                                            |

| Stream and Watershed Descriptors                            |       |                |                                                             |       |                |
|-------------------------------------------------------------|-------|----------------|-------------------------------------------------------------|-------|----------------|
| N = Not a problem<br>U = Uncertain                          |       |                | PL = Present, Low Impact<br>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 |
| <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:                                     |       |                |
| <b>Physical</b>                                             |       |                | Pasturing of Livestock                                      |       |                |
| Bank Erosion                                                |       |                | Runoff: - Barnyard                                          |       |                |
| Channelization: - Upstream                                  |       |                | - Construction                                              |       |                |
| - Downstream                                                |       |                | - Cropland                                                  |       |                |
| Hydraulic Scour / Channel Incision                          |       |                | - Urban                                                     |       |                |
| Impoundment: - Upstream                                     |       |                | Septic Systems                                              |       |                |
| - Downstream                                                |       |                | Tile Drainage - Organic Soils                               |       |                |
| Low Flow                                                    |       |                | - Mineral Soils                                             |       |                |
| Sedimentation                                               |       |                | Springs                                                     |       |                |
| Sludge                                                      |       |                | Tributary(s)                                                |       |                |
| Thermal                                                     |       |                | Wetland                                                     |       |                |
| Turbidity                                                   |       |                | Other - Specify:                                            |       |                |
| Other - Specify:                                            |       |                |                                                             |       |                |

Comments      Periphyton extensive but not slimey

Special Instructions for Laboratory

| For Lab Use Only |                                           |                                    |
|------------------|-------------------------------------------|------------------------------------|
| Sample Sorter    | Taxonomist                                | Estimated Percent of Sample Sorted |
| Kuhne, Alison    | Dimick, Jeffery                           | 13%                                |
| Date Processed   | Specimens Saved                           |                                    |
| 4/2/2017         | Subsample archived in ABC until Sept 2020 |                                    |

B2 - 90  
B1 - 72  
1 - 2



Instructions: Bold fields must be completed.

|                                                                                                                                                                              |                                        |                                                                                                                                                        |                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <b>Station Summary</b>                                                                                                                                                       |                                        |                                                                                                                                                        |                                                  |
| Waterbody Name <u>Brush Creek</u>                                                                                                                                            |                                        | Waterbody ID Code <u>10013985</u>                                                                                                                      | Sample ID (YYYYMMDD-CY-FD) <u>20161019-63-27</u> |
| Sampling Location <u>South Garden St. 10 m downstream of Rd cross.</u>                                                                                                       |                                        |                                                                                                                                                        |                                                  |
| SWIMS Station ID <u>10013985</u>                                                                                                                                             |                                        | SWIMS Station Name <u>Brush Creek S. Garden St.</u>                                                                                                    | Database Key                                     |
| Latitude <u>43.721595</u>                                                                                                                                                    | Longitude <u>-90.592116</u>            | Lat/Long Determination method (circle) <u>SWIMS</u> SWDV GPS                                                                                           | Datum Used if using GPS<br>NAD 27 or NAD83       |
| Basin (WMU)                                                                                                                                                                  |                                        | Watershed Name <u>Kickapoo River</u>                                                                                                                   | County <u>Vernon</u>                             |
| <b>Sample and Site Descriptors</b>                                                                                                                                           |                                        |                                                                                                                                                        |                                                  |
| Sample Collector (Last Name, First) <u>Miller, Mola</u>                                                                                                                      |                                        | Project Name <u>Willow-Kickapoo</u>                                                                                                                    |                                                  |
| Sampling Device                                                                                                                                                              |                                        |                                                                                                                                                        |                                                  |
| <input type="checkbox"/> Kick Net <input type="checkbox"/> Surber Sampler <input type="checkbox"/> Eckman                                                                    |                                        |                                                                                                                                                        |                                                  |
| <input type="checkbox"/> Ponar <input type="checkbox"/> Artificial Substrate <input type="checkbox"/> Hess Sampler <input checked="" type="checkbox"/> Other: <u>D-frame</u> |                                        |                                                                                                                                                        |                                                  |
| Habitat Sampled                                                                                                                                                              |                                        |                                                                                                                                                        |                                                  |
| <input checked="" type="checkbox"/> Riffle <input checked="" type="checkbox"/> Run <input type="checkbox"/> Pool                                                             |                                        |                                                                                                                                                        |                                                  |
| <input type="checkbox"/> Other <input type="checkbox"/> Shoreline Composite <input type="checkbox"/> Proportionally-Sampled Habitat                                          |                                        |                                                                                                                                                        |                                                  |
| <input type="checkbox"/> Littoral Zone <input type="checkbox"/> Profundal Zone <input type="checkbox"/> Wetland                                                              |                                        |                                                                                                                                                        |                                                  |
| Total Sampling Time (min) <u>15</u>                                                                                                                                          | Estimated Area Sampled (m²) <u>1</u>   | Number of Samples in Composite <u>1</u>                                                                                                                | Replicate No. <u>1</u> of <u>1</u>               |
| Reason for Sampling                                                                                                                                                          |                                        |                                                                                                                                                        |                                                  |
| <input type="checkbox"/> Least Impacted Reference <input checked="" type="checkbox"/> Baseline <input type="checkbox"/> Impact / Treatment Site                              |                                        |                                                                                                                                                        |                                                  |
| <input type="checkbox"/> Control Site <input type="checkbox"/> Trend <input type="checkbox"/> Other:                                                                         |                                        |                                                                                                                                                        |                                                  |
| Water Temp. (C) <u>12.1</u>                                                                                                                                                  | D.O. (mg/l) <u>14.0</u>                | D.O. (% sat.) <u>130?</u>                                                                                                                              | pH (su)                                          |
| Conductivity (umhos/cm) <u>548</u>                                                                                                                                           |                                        | Transparency (cm) <u>123</u>                                                                                                                           |                                                  |
| 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<br>mps or cfs             | Average Stream Depth of reach (m) <u>0.5</u>                                                                                                           | Average Stream Width of reach (m) <u>4</u>       |
| Composition of Substrate Sampled (Percent):                                                                                                                                  |                                        |                                                                                                                                                        |                                                  |
| Bedrock: _____                                                                                                                                                               | Boulders (basketball or larger): _____ | Rubble (tennisball to basketball): <u>20</u>                                                                                                           | Gravel (ladybug to tennisball.): <u>60</u>       |
| Sand: _____                                                                                                                                                                  | Clay: _____                            | Silt/Muck: _____                                                                                                                                       | Overhanging Vegetation: _____                    |
| Aquatic Macrophytes: _____                                                                                                                                                   | Leaf Snags: <u>10</u>                  | Course Woody Debris: <u>10</u>                                                                                                                         | Other ( ): _____                                 |
| Embeddedness of Substrate at Sample Site (%) <u>20</u>                                                                                                                       |                                        | Canopy Cover at Sample Site (%) <u>30</u> <u>20</u>                                                                                                    |                                                  |



| Stream and Watershed Descriptors                            |       |                |                                                             |       |                |
|-------------------------------------------------------------|-------|----------------|-------------------------------------------------------------|-------|----------------|
| N = Not a problem<br>U = Uncertain                          |       |                | PL= Present, Low Impact<br>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                                   |       |                |
| Physical                                                    |       |                | Bank Erosion                                                |       |                |
| Bank Erosion                                                | X     | X              | Point Source - Specify:                                     |       |                |
| Channelization - Upstream                                   |       |                | Pasturing of Livestock                                      |       |                |
| - Downstream                                                |       |                | Runoff: - Barnyard                                          |       |                |
| Hydraulic Scour / Channel Incision                          | X     | X              | - Construction                                              |       |                |
| Impoundment: - Upstream                                     |       |                | - Cropland                                                  |       |                |
| - Downstream                                                |       |                | - Urban                                                     |       |                |
| Low Flow                                                    |       |                | Septic Systems                                              |       |                |
| Sedimentation                                               | X     | X              | Tile Drainage - Organic Soils                               |       |                |
| Sludge                                                      |       |                | - Minerals soils                                            |       |                |
| Thermal                                                     |       |                | Springs                                                     |       |                |
| Turbidity                                                   |       |                | Tributary(s)                                                |       |                |
| Other - Specify:                                            |       |                | Wetland                                                     |       |                |
|                                                             |       |                | Other - Specify:                                            |       |                |

Comments: No evidence of storm flow, periphyton  
extensive not scuzzy

Special Instructions for Laboratory:

| For Lab Use Only |                 |                                    |
|------------------|-----------------|------------------------------------|
| Sample Sorter    | Taxonomist      | Estimated Percent of Sample Sorted |
| Date Processed   | Specimens Saved |                                    |