

Instructions: Bold fields must be completed.

Station Summary

| | | |
|---|-------------------------------------|---|
| Waterbody Name BILLINGS CREEK | Waterbody ID Code 1196900 | Sample ID (YYYYMMDD-CY-FD) 20191008-63-01 |
|---|-------------------------------------|---|

| | |
|---|----------------------------------|
| Sampling Location ~25m upstream of CTH F bridge | Database Key 212561553 |
|---|----------------------------------|

| | |
|-------------------------------------|--|
| SWIMS Station ID 10009007 | SWIMS Station Name BILLINGS CREEK STATION #3 BRG. ON CTH F |
|-------------------------------------|--|

| | | | |
|-----------------------------|-------------------------------|--|---|
| Latitude 43.70636 | Longitude -90.54340 | Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u> | Datum Used if using GPS <u>WGS84</u> or NAD83 |
|-----------------------------|-------------------------------|--|---|

| | | |
|---------------------------------------|--|-------------------------|
| Basin (WMU) LOWER WISCONSIN | Watershed Name MIDDLE KICKAPOO RIVER | County VERNON |
|---------------------------------------|--|-------------------------|

Sample and Site Descriptors

| | |
|--|--|
| Sample Collector (Last Name, First) KIMBERLY KUBER | Project Name SCR LONG-TERM TREND WADEABLE REFERENCE STREAM |
|--|--|

Sampling Device

D-Frame Kick Net
 Surber Sampler
 Eckman
 Ponar
 Artificial Substrate
 Hess Sampler
 Other: _____

Habitat Sampled

Riffle
 Run
 Pool
 Other
 Shoreline Composite
 Proportionally-Sampled Habitat
 Littoral Zone
 Profundal Zone
 Wetland

| | | | |
|---------------------------------------|--|--|-------------------------------------|
| Total Sampling Time (min) 1 | Estimated Area Sampled (m²) 1 | Number of Samples in Composite 1 | Replicate No. _____ of _____ |
|---------------------------------------|--|--|-------------------------------------|

Reason For Sampling

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

| | | | | | |
|-------------------------------|-----------------------------|------------------------------|------------------------|---|--------------------------|
| Water Temp. (C) 9.8 | D.O. (mg/l) 11.21 | D.O. (% sat.) 98.4 | pH (su) 8.36 | Conductivity (umhos/cm) 450.3 | Transparency (cm) |
|-------------------------------|-----------------------------|------------------------------|------------------------|---|--------------------------|

| | |
|--|--|
| Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained | Estimated Stream Velocity (m/s) <input type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s) |
|--|--|

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

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 60 Gravel (ladybug to tennisball): 30
 Sand: 10 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____
 Embeddedness of Substrate at Sample Site (%) 20 Canopy Cover at Sample Site (%) 100

Stream and Watershed Descriptors

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

| Factors that may be influencing Water Resource Integrity | | Local | Water-shed | Factors that may be influencing Water Resource Integrity | | Local | Water-shed |
|--|--|-------|------------|--|--|-------|------------|
| Biological | | | | Chemical | | | |
| Algae: - Diatoms / Periphyton | | | | 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 | | | |
| 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

Special Instructions for Laboratory

For Lab Use Only

| | | |
|------------------------------|---|--|
| Sample Sorter Noos, Enc | Taxonomist Dimick, Jeffrey | Estimated Percent of Sample Sorted 8.3% |
| Date Processed 10/29/2020 | Specimens Saved Subsample archived in ABL until Dec 2023 | |

01Q1 03Q2 01Q2 03Q3 01Q4
 53 20 22 15 38 = 148

| Taxa | Life Stage | Bench Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|---|------------|--------------------|-------|---------------------|--------------|--------------|
| <i>Baetis brunneicollis</i> | L | -1 | 6 | Kub 2016 | | |
| <i>B. tricaudatus</i> | L | | 4 | " | | |
| <i>B. flavistriga</i> | L | - 1 JJD | 5 | " | | |
| <i>Ephemera</i> | L | 1 | 1 | MerrLummB 2019 | imm | |
| <i>Mesochorus</i> | L | 1 | 1 | Kub 2016 | | |
| <i>M. medianus</i> | L | xii | 12 | " | | |
| <i>Brachycentrus occidentalis</i> | L | 1 | 1 | Hils 1985 | | |
| <i>Ceratopsyche alhedra</i> | L | iiii | 4 | SchmHils 1986 | | |
| <i>C. breata</i> | L | x | 10 | " | | |
| <i>C. slossonae</i> | L | xiiii | 14 | " | | |
| <i>C. sparna</i> | L | 1 | 1 | " | | |
| <i>Cheumatopsyche</i> | L | iiii | 8 | MerrLummB 2019 | | |
| <i>Hydropsyche betteni</i> | L | -ii | 7 | SchmHils 1986 | | |
| <i>Psychomyia flavida</i> | L | " | 2 | Hils 1995 | | |
| <i>Optioservus</i> | L | -ii | 7 | MerrLummB 2019 | imm | N |
| <i>O. fastiditus</i> L.5 A.2 | L/A | -ii | 7 | Hils Schm 1992 | | |
| <i>Stenelmis crenata</i> | A | iii | 3 | " | | |
| <i>Atherix variegata</i> | L | 1 | 1 | Hils 1995 | | |
| <i>Diamesa</i> | P | 1 | 1 | MerrLummB 2019 | | |
| <i>Simulium</i> | P | 1 | 1 | " | dam | |
| <i>Dicranota</i> | L | 1 | 1 | " | | |
| <i>Cammarus pseudolimnaeus</i> | A | iii | 3 | Hils 1972 | | |
| <i>Mermithidae</i> | A | " | 2 | ThorpZag 2016 | | |
| Split A.2 Chironomidae | L | 0-ii JJD | | | | |
| <i>Diamesa</i> | L | x | 10 | And et al 2013 | | N |
| <i>Eukiefferiella clarensis</i> group | L | " | 2 | " | | |
| <i>E. deventra</i> group | L | - | 5 | " | | |
| <i>Tretania bavaria</i> group | L | 1 | 1 | Bede 1983 | | |
| <i>Microtendipes pedellus</i> group | L | 1 | 1 | And et al 2013 | | |
| <i>Rheotanytarsus</i> | L | ix | 5 | " | | |
| <i>Orthocladius</i> 08300000 | L | -1 | 6 | " | mt undet/imm | N |
| <i>Cricotopus</i> | L | -1 | 6 | " | | |
| <i>Eukiefferiella</i> | L | " | 2 | " | mt undet | N |
| <i>Orthocladius (Orthocladius)</i> | L | -1 | 6 | " | | |
| <i>Thienemanniella</i> | L | 1 | 1 | " | imm | |
| <i>Polypedilum (Uresipedilum) aviceps</i> | L | m | 3 | Bolton 2012 | | |