

Instructions: Bold fields must be completed.

Station Summary

| | | |
|--|-------------------------------------|---|
| Waterbody Name HOLTZLANDER CREEK | Waterbody ID Code 1300800 | Sample ID (YYYYMMDD-CY-FD) 20170919-29-03 |
|--|-------------------------------------|---|

| | |
|--------------------------|----------------------------------|
| Sampling Location | Database Key 150518969 |
|--------------------------|----------------------------------|

| | |
|-------------------------------------|--|
| SWIMS Station ID 10048857 | SWIMS Station Name HOLTZLANDER CR. US CTH-HH |
|-------------------------------------|--|

| | | | |
|-------------------------------|---------------------------------|---|--|
| Latitude 43.7263584 | Longitude -89.8807164 | Lat/Long Determination Method (circle) SWIMS SWDV GPS | Datum Used if using GPS WGS84 or NAD83 |
|-------------------------------|---------------------------------|---|--|

| | | |
|---------------------------------------|-------------------------------------|-------------------------|
| Basin (WMU) LOWER WISCONSIN | Watershed Name DELL CREEK | County JUNEAU |
|---------------------------------------|-------------------------------------|-------------------------|

Sample and Site Descriptors

| | |
|---|---|
| Sample Collector (Last Name, First) JEAN UNMUTH | Project Name DELL CREEK BMP EVALUATION TWA 2017 |
|---|---|

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) 4.0 | Estimated Area Sampled (m²) 3.0 | Number of Samples in Composite | Replicate No. _____ of _____ |
|---|--|---------------------------------------|-------------------------------------|

Reason For Sampling

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

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

| | |
|--|---|
| Water Color | Estimated Stream Velocity (m/s) |
| <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained | <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 circle units m/s or f/s | Average Stream Depth of reach (m) 0.25 | Average Stream Width of reach (m) 1.7 |
|--|--|---|

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): _____ Gravel (ladybug to tennisball): _____
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: 20
 Aquatic Macrophytes: _____ Leaf Snags: 30 Coarse Woody Debris: 50 Other (_____): _____

Embeddedness of Substrate at Sample Site (%) _____ **Canopy Cover at Sample Site (%)** 60%

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 | | N | | Chlorine | | N | |
| - Filamentous Algae | | N | | Dissolved Oxygen | | N | |
| - Planktonic Algae | | | | Nutrients (P, N...) | | N | |
| Iron Bacteria | | N | | Toxics: - Inorganic (Metals) | | | |
| Macrophytes | | N | | - Organic (PCBs, pesticides...) | | | |
| Slimes | | N | | Other - Specify: | | | |
| Other - Specify: | | | | Sources of Stream Impacts | | | |
| | | | | Bank Erosion | | PL | PL |
| | | | | Point Source - Specify: | | N | |
| Physical | | | | Pasturing of Livestock | | N | |
| Bank Erosion | | PL | PL | Runoff: - Barnyard | | N | |
| Channelization: - Upstream | | | | - Construction | | N | |
| - Downstream | | | | - Cropland | | N | |
| Hydraulic Scour / Channel Incision | | N | | - Urban | | N | |
| Impoundment: - Upstream | | N | | Septic Systems | | | |
| - Downstream | | N | | Tile Drainage - Organic Soils | | | |
| Low Flow | | N | | - Mineral Soils | | | |
| Sedimentation | | PH | | Springs | | | |
| Sludge | | N | | Tributary(s) | | | |
| Thermal | | | | Wetland | | | |
| Turbidity | | N | | Other - Specify: | | | |
| Other - Specify: | | | | | | | |

Comments

Special Instructions for Laboratory

For Lab Use Only

| | | |
|------------------------------|---|--|
| Sample Sorter Taylor Hasz | Taxonomist Dimick, Jeffray | Estimated Percent of Sample Sorted 20 |
| Date Processed 4-16-18 | Specimens Saved Subsample archived in ABL until Jul-2021 | |

B1 54
 D2 67
 D3 49
 170

| Taxa | Life Stage | Bench Tally | Count | Taxonomic Reference | Condition | Unique Taxon |
|--|--------------|---------------------|-------|---------------------|-----------|--------------|
| <i>Baetis brunneicollis</i> | L | I | 1 | Kluberhanz 2016 | | |
| <i>Heptageniidae</i> | L | I | 1 | " | dam | N |
| <i>Maccaffertium vicarium</i> | L | xI | 11 | " | | |
| <i>Boyeria vinosa</i> | L | I | 1 | Neel, et al 2000 | | |
| <i>Calopteryx</i> | L | I | 1 | West, May 1996 | imm | |
| <i>Brachycentrus occidentalis</i> | L | 80 ^x III | 73 | Hilsenhoff 1985 | | |
| <i>Hydropsychidae</i> | L | I | 1 | Hilsenhoff 1985 | imm | N |
| <i>Hydropsyche</i> | L | I | 1 | " | imm | N |
| <i>Hydropsyche</i> | L | xII | 12 | Schm, Hils. 1986 | | |
| <i>Cheumatopsyche</i> | L | I | 1 | Hilsenhoff 1985 | | |
| <i>Lepidostoma</i> | L | I | 1 | " | | |
| <i>Hydatophylax argus</i> | L | xVIII | 14 | " | | |
| <i>Ptilostomis</i> | L | I | 1 | " | | |
| <i>Macronychus dabryi</i> | A | I | 1 | Hils, Schm. 1992 | | |
| <i>Nemoura</i> | L | I | 1 | Cart, Merr. 2008 | | |
| <i>Simulium</i> | P | II | 2 | Adler et al 2001 | | |
| <i>Tipula</i> | L | II | 2 | Hilsenhoff 1985 | | |
| <i>Gammarus pseudolimnoides</i> | A | III | 3 | Nelinger 1972 | | |
| <i>Acidocera racovitzai racovitzai</i> | A | xIII | 13 | Williams 1972 | | |
| <i>Belostomatidae</i> | A | I | 1 | Hilsenhoff 1985 | | |
| <i>Dugesidae</i> | A | I | 1 | Kolasa 1991 | | |
| <i>Physa</i> | A | I | 1 | Brown 1981 | | |
| Split to Chironomidae | L | II-VI | | | | |
| <i>Chironomidae 0825000</i> | L | I | 1 | Cross, Daly 2008 | mt mdet | N |
| <i>Corynoneura</i> | L | I | 1 | Anderson 2013 | | |
| <i>Limnophyes</i> | L | I | 1 | " | | |
| <i>Parakiefferella</i> | L | I | 1 | " | | |
| <i>Theriaculops robaeki</i> | L | II | 2 | Eber 2001 | | |
| <i>Tvetenia bavaria group</i> | L | -II | 7 | Bode 1983 | | |
| <i>Chironomidae 08330000</i> | L | III | 3 | Coan et al 2013 | | |
| <i>Alypedium (Alypedium) auriceps</i> | L | I | 1 | Bolton 2012 | | |
| <i>Rhyacotarsus</i> | L | III | 3 | Epler et al 2013 | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |