

Instructions: Bold fields must be completed.

**Station Summary**

|                                       |                                     |   |
|---------------------------------------|-------------------------------------|---|
| <b>Waterbody Name</b><br>KRAUSE CREEK | <b>Waterbody ID Code</b><br>2929000 | <b>Sample ID (YYYYMMDD-CY-FD)</b><br>20171003-02-04 |
|---------------------------------------|-------------------------------------|---|

|                                      |                                  |
|--------------------------------------|----------------------------------|
| <b>Sampling Location</b><br>@ STH 13 | <b>Database Key</b><br>149272318 |
|--------------------------------------|----------------------------------|

|                                     |  |
|-------------------------------------|--|
| <b>SWIMS Station ID</b><br>10048869 | <b>SWIMS Station Name</b><br>KRAUSE CREEK 15M US OF STH 13 |
|-------------------------------------|--|

|                             |                               |  |   |
|-----------------------------|-------------------------------|--|---|
| <b>Latitude</b><br>46.36439 | <b>Longitude</b><br>-90.68080 | <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>LAKE SUPERIOR | <b>Watershed Name</b><br>UPPER BAD RIVER | <b>County</b><br>ASHLAND |
|-------------------------------------|--|--------------------------|

**Sample and Site Descriptors**

|   |   |
|---|---|
| <b>Sample Collector (Last Name, First)</b><br>JOSEPH CUNNINGHAM | <b>Project Name</b><br>NORTH DISTRICT NC STREAM STRATIFIED SITES 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

|   |   |  |  |
|---|---|--|--|
| <b>Total Sampling Time (min)</b><br>1 min | <b>Estimated Area Sampled (m<sup>2</sup>)</b><br>1 m <sup>2</sup> | <b>Number of Samples in Composite</b><br>3-20 second kicks | <b>Replicate No.</b> _____ <b>of</b> _____ |
|---|---|--|--|

**Reason For Sampling**

Least Impacted Reference     
  Baseline     
  Impact / Treatment Site  
 Control Site     
  Trend     
  Other: Nat. Comm stratified

|                                |                           |                             |                       |                                      |                                  |
|--------------------------------|---------------------------|-----------------------------|-----------------------|--------------------------------------|----------------------------------|
| <b>Water Temp. (C)</b><br>14.8 | <b>D.O. (mg/l)</b><br>9.5 | <b>D.O. (%sat.)</b><br>94.1 | <b>pH (su)</b><br>7.4 | <b>Conductivity (umhos/cm)</b><br>40 | <b>Transparency (cm)</b><br>>120 |
|--------------------------------|---------------------------|-----------------------------|-----------------------|--------------------------------------|----------------------------------|

|  |   |
|--|---|
| <b>Water Color</b><br><input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained | <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 type="checkbox"/> Fast (> 0.5 m/s) |
|--|---|

|                                 |                              |   |   |
|---------------------------------|------------------------------|---|---|
| <b>Measured Velocity</b><br>0.5 | circle units<br>m/s or (f/s) | <b>Average Stream Depth of reach (m)</b><br>0.4 m | <b>Average Stream Width of reach (m)</b><br>2.5 m |
|---------------------------------|------------------------------|---|---|

**Composition of Substrate Sampled (Percent):**

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

**Embeddedness of Substrate at Sample Site (%)** 0     
**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 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:                                  |  |       |            |
| <b>Physical</b>  |  |       |            | Pasturing of Livestock                                   |  |       |            |
| Bank Erosion   |  |       | PL PL      | 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  |  | U     | U          |
| Sludge   |  |       |            | Tributary(s)   |  |       |            |
| Thermal  |  |       |            | Wetland  |  | U     | U          |
| Turbidity  |  |       |            | Other - Specify:   |  |       |            |
| Other - Specify:   |  |       |            |  |  |       |            |

Comments

Special Instructions for Laboratory

**For Lab Use Only**

|                                 |   |   |
|---------------------------------|---|---|
| Sample Sorter<br>Murphy Steiner | Taxonomist<br>Dimick, Jeffrey                               | Estimated Percent of Sample Sorted<br>20% |
| Date Processed<br>09/18/18      | Specimens Saved<br>Subsample archived in DBL until Dec 2021 |   |

C2 ~~40~~ 40 E3  
 E2 ~~55~~ 55 B2  
 B1 92 C1