

Instructions: **Bold** fields must be completed.

**Station Summary**

|  |                                    |   |
|--|------------------------------------|---|
| <b>Waterbody Name</b><br>YELLOWSTONE RIVER | <b>Waterbody ID Code</b><br>902500 | <b>Sample ID (YYYYMMDD-CY-FD)</b><br>20161010-33-05 |
|--|------------------------------------|---|

|   |                                  |
|---|----------------------------------|
| <b>Sampling Location</b><br>70 m downstream of Gant Rd (lower crossing) | <b>Database Key</b><br>135037789 |
|---|----------------------------------|

|                                   |  |
|-----------------------------------|--|
| <b>SWIMS Station ID</b><br>333235 | <b>SWIMS Station Name</b><br>YELLOWSTONE RIVER - (BRIDGE) AT GANT RD |
|-----------------------------------|--|

|                             |                              |  |  |
|-----------------------------|------------------------------|--|--|
| <b>Latitude</b><br>42.79981 | <b>Longitude</b><br>89.97786 | <b>Lat/Long Determination Method (circle)</b><br>SWIMS SWDV <u>GPS</u> | <b>Datum Used if using GPS</b><br>WGS84 or NAD83 |
|-----------------------------|------------------------------|--|--|

|  |  |                            |
|--|--|----------------------------|
| <b>Basin (WMU)</b><br>SUGAR - PECATONICA | <b>Watershed Name</b><br>YELLOWSTONE RIVER | <b>County</b><br>LAFAYETTE |
|--|--|----------------------------|

**Sample and Site Descriptors**

|  |   |
|--|---|
| <b>Sample Collector (Last Name, First)</b><br>AMRHEIN, JAMES | <b>Project Name</b><br>YELLOWSTONE RIVER TWA [HUC10] 2016 |
|--|---|

**Sampling Device**

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> | <b>Estimated Area Sampled (m<sup>2</sup>)</b> | <b>Number of Samples in Composite</b> | <b>Replicate No.</b> <u>1</u> <b>of</b> <u>1</u> |
|----------------------------------|---|---------------------------------------|--|

**Reason For Sampling**

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

|                                |                            |                              |                       |                                       |                                |
|--------------------------------|----------------------------|------------------------------|-----------------------|---------------------------------------|--------------------------------|
| <b>Water Temp. (C)</b><br>13.7 | <b>D.O. (mg/l)</b><br>12.3 | <b>D.O. (%sat.)</b><br>118.8 | <b>pH (su)</b><br>8.4 | <b>Conductivity (umhos/cm)</b><br>637 | <b>Transparency (cm)</b><br>92 |
|--------------------------------|----------------------------|------------------------------|-----------------------|---------------------------------------|--------------------------------|

|  |  |
|--|--|
| <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 checked="" type="checkbox"/> Fast (> 0.5 m/s) |
|--|--|

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

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

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 50 Gravel (ladybug to tennisball): 50

Sand: \_\_\_\_\_ 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 (%) 0

**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:                                  |  |       |            |
|  |  |       |            | Pasturing of Livestock                                   |  |       |            |
| <b>Physical</b>  |  |       |            | Runoff: - Barnyard                                       |  |       |            |
| Bank Erosion   |  |       |            | - Construction   |  |       |            |
| Channelization: - Upstream                               |  |       |            | - Cropland   |  |       |            |
| - Downstream   |  |       |            | - Urban  |  |       |            |
| Hydraulic Scour / Channel Incision                       |  |       |            | 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

Special Instructions for Laboratory

**For Lab Use Only**

|                                     |  |  |
|-------------------------------------|--|--|
| Sample Sorter<br><i>Cadie Olson</i> | Taxonomist<br><i>Dimick, Jeffrey</i>                               | Estimated Percent of Sample Sorted<br><i>17%</i> |
| Date Processed<br><i>1/30/17</i>    | Specimens Saved<br><i>Subsample archived in ABC until May 2020</i> |  |

*D3: N 126*