

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name <b>YELLOWSTONE RIVER</b>		Waterbody ID Code 902500	Sample ID (YYYYMMDD-CY-FD) 20171017-33-02
Sampling Location <i>70 m downstream of Gant Rd</i>		Database Key 150694237	
SWIMS Station ID 333235		SWIMS Station Name <b>YELLOWSTONE RIVER - (BRIDGE) AT GANT RD</b>	
Latitude <i>42.79983</i>	Longitude <i>89.97791</i>	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) <b>SUGAR - PECATONICA</b>		Watershed Name <b>YELLOWSTONE RIVER</b>	County <b>LAFAYETTE</b>

Sample and Site Descriptors	
Sample Collector (Last Name, First) <b>AMRHEIN, JAMES</b>	Project Name <b>SCR LONG-TERM TREND WADEABLE REFERENCE STREAMS</b>

**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) <i>1</i>	Estimated Area Sampled (m <sup>2</sup> ) <i>1</i>	Number of Samples in Composite <i>1</i>	Replicate No. _____ of _____
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**Reason For Sampling**

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

Water Temp. (C) <i>11.7</i>	D.O. (mg/l) <i>11.83</i>	D.O. (% sat.) <i>109.1</i>	pH (su) <i>7.97</i>	Conductivity (umhos/cm) <i>649</i>	Transparency (cm)
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Water Color <input type="checkbox"/> Clear <input checked="" 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)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m)	Average Stream Width of reach (m)
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): *40* Gravel (ladybug to tennisball): *50*  
 Sand: *10* 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 <i>Jesse Oberg</i>	Taxonomist <i>Dimock, Jeffrey</i>	Estimated Percent of Sample Sorted <i>13%</i>
Date Processed <i>10/16/18</i>	Specimens Saved <i>Subsample archived in ABL until Jan 2022</i>	

A2 109 3.75 #226 6.75 hr  
 B1 117 3

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicollis</i>	L	ii	2	Klub 2016		
<i>B. tricaudatus</i>	L	i	1	"		
<i>B. flavistriga</i> species complex	L	ii	7	"		
Hydropsychidae	L	ii	2	Hils 1995	dam/imm	N
<i>Ceratomyza</i>	L	iii	32	"		
<i>Hydropsyche betteni</i>	L	ii	7	Schm Hils 1986		
<i>Ceratomyza</i>	L	iii	3	Hils 1995	imm	N
<i>C. bipuncta</i>	L	iii	4	Schm Hils 1986		
<i>C. morosa bifida</i> form	L	xi	4	"		
<i>C. slosserae</i>	L	iii	5	"		
Ochrotrichia	L	ii	2	Wigg 1996		
Dubirania	L	i	1	Hils Schm 1992		
<i>Optioseius fastiditus</i> L,9 A,1	LA	x	10	"		
<i>Stenelmis</i>	L	ii	2	"		N
<i>S. crenata</i>	A	ii	2	"		
<i>S. grossa</i>	A	i	1	"		
<i>Hemerodromia</i>	L	i	1	Coat Meier 2008		
<i>Simulium</i>	L	ii	2	Adl et al 2004	imm	N
<i>S. vittatum</i> species complex 08110217	L	x	10	"		
<i>Antocha</i>	L	x	15	Hils 1995		
Orthocladiinae 08300001	P	i	1	Ferr et al 2009		
<i>Eukiefferiella</i>	P	iii	4	"		N
<i>Cricotopus (Cricotopus)</i>	P	i	1	Coff et al 1986		N
<i>Gammarus pseudolimnensis</i>	A	iii	8	Hils 1972		
<i>Caecidotea intermedia</i>	A	i	1	Will 1972		
Maidinae	A	iii	4	Braunfeld 1991		
Erpobdellidae	A	i	1	Thorp Pog 2016	dam	
<del>Split A3 Chironomidae</del>	<del>L</del>	<del>iii</del>	<del>11</del>			
Orthocladiinae 08300000	L	i	1	Cranston 2013	imm mt indiv imm	N
<i>Eukiefferiella</i>	L	iii	3	Anderson 2013		N
<i>Eu. claripennis</i> group	L	ii	7	"		
<i>Eu. densica</i> group	L	x	10	"		
<i>Parakiefferiella</i>	L	i	1	"		
<i>Parameletrocnemus</i>	L	ii	2	"		
<i>Thiermannella</i>	L	i	1	"	imm	
<i>Tvetenia bavarica</i> group	L	iii	3	Boede 1983		

< 3 taxa, TVAL < 2.0



