

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

Station Summary					
Waterbody Name YELLOWSTONE RIVER		Waterbody ID Code 902500		Sample ID (YYYYMMDD-CY-FD) 20181108-33-02	
Sampling Location 100 m upstream of Gant Rd					Database Key 170070374
SWIMS Station ID 333235		SWIMS Station Name YELLOWSTONE RIVER - (BRIDGE) AT GANT RD			
Latitude 42.80161	Longitude 89.97618		Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>		Datum Used if using GPS WGS84 or NAD83
Basin (WMU) SUGAR - PECATONICA			Watershed Name YELLOWSTONE RIVER		County LAFAYETTE
Sample and Site Descriptors					
Sample Collector (Last Name, First) AMRHEIN, JAMES			Project Name SCR LONG-TERM TREND WADEABLE REFERENCE STREAM		
Sampling Device					
<input checked="" type="checkbox"/> D-Frame Kick Net		<input type="checkbox"/> Surber Sampler		<input type="checkbox"/> Eckman	
<input type="checkbox"/> Ponar		<input type="checkbox"/> Artificial Substrate		<input type="checkbox"/> Hess Sampler	
		Other: _____			
Habitat Sampled					
<input checked="" type="checkbox"/> Riffle		<input type="checkbox"/> Run		<input type="checkbox"/> Pool	
<input type="checkbox"/> Other		<input type="checkbox"/> Shoreline Composite		<input type="checkbox"/> Proportionally-Sampled Habitat	
<input type="checkbox"/> Littoral Zone		<input type="checkbox"/> Profundal Zone		<input type="checkbox"/> Wetland	
Total Sampling Time (min) 2	Estimated Area Sampled (m²) 2		Number of Samples in Composite 1		Replicate No. _____ of _____
Reason For Sampling					
<input type="checkbox"/> Least Impacted Reference		<input type="checkbox"/> Baseline		<input type="checkbox"/> Impact / Treatment Site	
<input type="checkbox"/> Control Site		<input checked="" type="checkbox"/> Trend		<input type="checkbox"/> Other: _____	
Water Temp. (C) 7.1	D.O. (mg/l) 14.61	D.O. (% sat.) 120.6	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 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): <u>50</u>	Gravel (ladybug to tennisball): <u>30</u>	
Sand: <u>20</u>		Clay: _____	Silt/Muck: _____	Overhanging Vegetation: _____	
Aquatic Macrophytes: _____		Leaf Snags: _____	Coarse Woody Debris: _____	Other (____): _____	
Embeddedness of Substrate at Sample Site (%) <u>10</u>			Canopy Cover at Sample Site (%) <u>0</u>		

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 <i>Abby Adams</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>13%</i>
Date Processed <i>10-26-19</i>	Specimens Saved <i>Subsample archived in ABL until Jan 2023</i>	

*D2 B3
 49 82*

Total = 131

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Ceratopsyche	L	III	3	Hils 1995	imm	N
C. brenta	L	III	4	Schm Hils 1986		
C. mirasa bifida form	L	III	3	"		
C. sparna	L	I	1	"		
Cheumatopsyche	L	04	22	Hils 1995		
Hydropsyche betteni	L	0	20	Schm Hils 1986		
O. fastidius	L	XI	11	"		
Stenelmis	L	III	4	"		N
S. crenata	A	III	3	"		
Simulium vittatum species complex 08110217	L	I	1	Adl et al 2004		
Antocha	L	XI	11	Hils 1995		
Gammarus pseudocinnamomeus	A	"	2	Hils 1972		
Caecidotea	A	"	2	Will 1972	fem	
Naidinae	A	XVII	17	Bronfeld 1991		
Tubificinae (without hars)	A	I	1	Klemm 1985		
Split to Chironomidae	L	" JJD				
Diamasa	L	III	3	Saeth And 2013		
Cricotopus	L	"	2	And + 3 2013		
C. (Cricotopus) tremulus group	L	I	1	"		
Eukiefferiella	L	I	1	"	dam	Y
Eu. devonica group	L	I	1	"		
Parametriocnemus	L	I	1	"		
Thienemannella	L	I	1	"	imm	
Tvetenia havarica group	L	"	2	Bode 1983		
Microtendipes pedellus group	L	"	5	Epl et al 2013		
Polypedilum (Polypedilum) illinoense group	L	"	2	Bolton 2012		
P. (Uresipedilum) aviceps	L	I	1	"		
P. (U.) flavum	L	XII	17	"		
Rheotanytarsus	L	III	4	Epl et al 2013		

< 3 taxa, TUAL ≤ 2.0