

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

Station Summary			
Waterbody Name TYLER FKS		Waterbody ID Code 2923100	Sample ID (YYYYMMDD-CY-FD) 20180926-26-01
Sampling Location 50 m us of Ford Crossing		Database Key 168358727	
SWIMS Station ID 10042745		SWIMS Station Name TYLER FORKS RIVER 68M US VOGUES ROAD	
Latitude 46.41299	Longitude -90.51626	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
Basin (WMU) LAKE SUPERIOR		Watershed Name TYLER FORKS	County IRON

Sample and Site Descriptors	
Sample Collector (Last Name, First) JON KLEIST	Project Name NOR LONG-TERM TREND WADEABLE REFERENCE STREAM

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) 1 min	Estimated Area Sampled (m ²) 2 m ²	Number of Samples in Composite 2-30 second kicks	Replicate No. 1 of 1
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Reason For Sampling

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

Water Temp. (C) 11.9	D.O. (mg/l) 11.6	D.O. (% sat.) 107.5	pH (su) 6.7	Conductivity (umhos/cm) 50	Transparency (cm) 7120
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Water Color <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" 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) 0.5	Average Stream Width of reach (m) 10
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 100 Gravel (ladybug to tennisball): _____
 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			Factors that may be influencing Water Resource Integrity		
Local	Water-shed		Local	Water-shed	
Biological			Chemical		
Algae: - Diatoms / Periphyton	PL	PL	Chlorine	N	N
- Filamentous Algae	N	N	Dissolved Oxygen	N	N
- Planktonic Algae	N	N	Nutrients (P, N...)	N	N
Iron Bacteria	N	U	Toxics: - Inorganic (Metals)	N	N
Macrophytes	N	N	- Organic (PCBs, pesticides...)	N	N
Slimes	N	N	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	PL	PL
			Point Source - Specify:	N	N
Physical			Pasturing of Livestock	N	N
Bank Erosion	PL	PL	Runoff: - Barnyard	N	N
Channelization: - Upstream	N	N	- Construction	N	PL
- Downstream	N	N	- Cropland	N	N
Hydraulic Scour / Channel Incision	N	N	- Urban	N	N
Impoundment: - Upstream	N	N	Septic Systems		
- Downstream	N	N	Tile Drainage - Organic Soils	N	N
Low Flow	N	N	- Mineral Soils	N	N
Sedimentation	N	N	Springs	N	PL
Sludge	N	N	Tributary(s)	N	N
Thermal	N	N	Wetland	PL	PL
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Logan Cutler</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>27%</i>
Date Processed <i>10/13/19</i>	Specimens Saved <i>47+32+40+36=155</i>	

cc AZ EI DI Total

*4.5hr 1hr
 subsample archived in ABC until Jan 2022*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Acentrella turbida</i>	L	-III	8	Klub 2016		
<i>Ephemera</i>	L	II	2	"	imm	
<i>Eurylophella</i>	L	II	1	"	imm	
Heptageniidae	L	II	2	"	dam	N
<i>Epeorus vitreus</i>	L	-III	9	"		
<i>Leucocuta</i>	L	-II	7	"		
<i>Maccaffertium</i>	L	I	1	"	imm	N
<i>M. modestum</i>	L	III	5	"		
<i>M. vicarium</i>	L	-II	8	"		
<i>Rhythrogena</i>	L	xII	12	"		
<i>Paraleptophlebia</i>	L	-III	8	"		
<i>P. mollis</i>	L	I	1	"		
Comphidae	L	II	2	Tennesen 2019	imm	N
<i>Ophibsonphus</i>	L	I	1	"	imm	
<i>Paracapnia angulata</i>	L	-	5	Hitch 1974		
<i>Acrocnemia</i>	L	II	2	Hils 1995	imm	N
<i>A. lycorias</i>	L	-II	7	Hitch 1974		
<i>Taeniopteryx</i>	L	I	1	Hils 1995	imm	
<i>Glossosoma</i>	L	I	1	"	imm	
<i>Ceratopsyche morosa</i>	L	I	1	Schm Hils 1986	imm	N
<i>C. m. bifida</i> form	L	I	1	"		
<i>C. m. morosa</i> form	L	I	1	"		
<i>Chimarra</i>	L	III	4	Hils 1995	imm	N
<i>Ch. aterrima</i>	L	III	3	Hils 1982		
<i>Psychomyia flavida</i>	L	I	1	Hils 1995		
Optoseruus	L	-II	7	Hils Schm 1992	imm	N
<i>O. trivittatus</i> L, 20 A, 2	L, A	0, II	22	"		
<i>Atherix variegata</i>	L	I	1	Hils 1995		
<i>Bezzia / Palpomyia</i>	L	I	1	"		
<i>Pseudolimnophila</i>	L	x-III	19	"		
<i>Spercha</i>	A	I	1	Pluch 1984		
<i>Naidinae</i>	A	I	1	Bornfeld 1991		
<i>Lumbriculus</i>	A	xI	11	Thorp Reg 2016		
<i>Lopescladius</i>	L	I	1	And + S 2013		
<i>Microtendipes pedellus</i> group	L	III	4	Epl et al 2013		
<i>Polypedilum (Vesipedilum) aviceps</i>	L	III	3	Bolton 2012		