

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name UNNAMED TRIBUTARY TO POKEGAMA R.		Waterbody ID Code 5601128	Sample ID (YYYYMMDD-CY-FD) 20171013-16-01
Sampling Location 30 m DS BARNES RD		Database Key 149840509	
SWIMS Station ID 10049196		SWIMS Station Name UNNAMED TRIBUTARY OF THE POKEGAMA RIVER 6M US OF BARNES RD.	
Latitude 46.58556	Longitude -92.24459	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
Basin (WMU) LAKE SUPERIOR		Watershed Name ST. LOUIS AND LOWER NEMADJI RIVER	County DOUGLAS

Sample and Site Descriptors	
Sample Collector (Last Name, First) CRAIG P ROESLER, CHANG VANG	Project Name NORTHERN DISTRICT TWA 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

Total Sampling Time (min) 2	Estimated Area Sampled (m ²) 2	Number of Samples in Composite 3	Replicate No. <u>1</u> of <u>1</u>
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Reason For Sampling

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

Water Temp. (C) 9.8	D.O. (mg/l) 8.6	D.O. (%sat.) 78	pH (su) 7.3	Conductivity (umhos/cm) 124	Transparency (cm) 12
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Water Color

Clear
 Turbid
 Stained

Estimated Stream Velocity (m/s)

Slow (< 0.15 m/s)
 Moderate (0.15 m/s - 0.5 m/s)
 Fast (> 0.5 m/s)

Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.2	Average Stream Width of reach (m) 2
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 30 Gravel (ladybug to tennisball): 70
 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
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			
Physical				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>Kayla Wilcox</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>40%</i>
Date Processed <i>12/12/17</i>	Specimens Saved <i>Subsample archived in ABC until Apr 2021</i>	

E3-9 B3-39 C2=29 (44)
D1-20 C1=8 A1=39

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Allocaenia</i>	L	x1	11	Nilsenhoff 1995		
<i>caenis latipennis</i>	L	III	4	Klubertanz 2016		
<i>Stenonema femoratum</i>	L	I	1	"		
Leptophlebiidae	L	I	1	"	dam	N
<i>Leptophlebia cupida</i>	L	III	3	"		
<i>Chironomus</i>	L	IX-XII	53	Nilsenhoff 1995		
<i>Hydropsyche betteni</i>	L	XI	11	Schm. Hils. 1986		
Limnephilidae	L	I	1	Nilsenhoff 1995	imm	
<i>Optioservus fastiditus</i>	A	I	1	Nils. Schm. 1992		
<i>Simulium</i>	L	I	1	Adler et al 2004	imm	Y
<i>S. venustum</i> species complex	L	X-11	17	"		
<i>S. vittatum</i> species complex DB110217	L	"	2	"		
Enchytraeidae	A	I	1	Bom. Ge. W. 1991		
Tubificoid Naididae w/o capilliform chaetae	A	I	1	Ersev et al 2008		
<i>Dina dubia</i>	A	I	1	Klamm 1985		
<i>Epitidella punctata punctata</i>	A	I	1	"		
Conchapelonia	L	I	1	Cram. Epler 2013		
Thienemannimyia group	L	I	1	"	mt indet	N
Meronelebia	L	I	1	"		
Di Diplocladius	L	III	3	Anders+3 2013		
<i>Eukiefferiella claripennis</i> group	L	I	1	"		
<i>Corynoneura</i>	L	I	1	"		
<i>Psephenodes</i>	L	III	3	"		
<i>Cricotopus (Cricotopus) tremulus</i> group	L	I	1	"		
<i>Cladotanytarsus</i>	L	II	2	Epler et al 2013		
<i>Micronsectra</i>	L	III	4	"		
<i>Microtendipes pedellus</i> group	L	II	2	"		
<i>Paratanytarsus</i>	L	I	1	"		
<i>Polypedium (Uresipedium) flavum</i>	L	I	1	Bolton 2012		
<i>Rhytanytarsus</i>	L	III	4	Epler et al 2013		
<i>Sitochironomus</i>	L	-I	6	"		
<i>Tanytarsus</i>	L	-I	6	"		

23 taxa, TVAL ≤ 2.0