

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

**Station Summary**

<b>Waterbody Name</b> POTATO RIVER	<b>Waterbody ID Code</b> 2906200	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20181024-26-01
<b>Sampling Location</b>		<b>Database Key</b> 169639851

<b>SWIMS Station ID</b> 10041399	<b>SWIMS Station Name</b> POTATO RIVER OFF OF RICCA RD (T45N R1E S12)
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<b>Latitude</b> 46.3875	<b>Longitude</b> -90.3091	<b>Lat/Long Determination Method (circle)</b> <u>SWIMS</u> SWDV GPS	<b>Datum Used if using GPS</b> WGS84 or NAD83
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<b>Basin (WMU)</b> LAKE SUPERIOR	<b>Watershed Name</b> POTATO RIVER	<b>County</b> IRON
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**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> MICHAEL SHUPRYT	<b>Project Name</b> MACROINVERTEBRATE SPATIAL ANALYSIS
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**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

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

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

<b>Water Temp. (C)</b> 3.1	<b>D.O. (mg/l)</b> 12.1	<b>D.O. (% sat.)</b> 90.2	<b>pH (su)</b> 6.4	<b>Conductivity (umhos/cm)</b> 44	<b>Transparency (cm)</b> 7120
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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)

<b>Measured Velocity</b> 0.6	circle units m/s or f/s	<b>Average Stream Depth of reach (m)</b> 0.3	<b>Average Stream Width of reach (m)</b> 1.5
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_     
 Boulders (basketball or larger): \_\_\_\_\_     
 Rubble (tennisball to basketball): 40     
 Gravel (ladybug to tennisball): 30  
 Sand: 30     
 Clay: \_\_\_\_\_     
 Silt/Muck: \_\_\_\_\_     
 Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_     
 Leaf Snags: \_\_\_\_\_     
 Coarse Woody Debris: \_\_\_\_\_     
 Other ( \_\_\_\_\_ ): \_\_\_\_\_

**Embeddedness of Substrate at Sample Site (%)** 10     
**Canopy Cover at Sample Site (%)** 100

PR-1

**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>Logan Sutter</i>	Taxonomist <i>Demick Jeffrey</i>	Estimated Percent of Sample Sorted <i>20%</i>
Date Processed <i>6/25/19</i>	Specimens Saved <i>62 - 24 + 48 = 134</i>	

*C2 E3 B2*  
*3hr*  
*subsample archived in ABL in MI Sept 2022*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Allocapnia	L	xiii	9	Hils 1995		
Paracapnia angulata	L	xii	12	Witch 1974		
Baetis brunneicolor	L	i	1	Klob 2016		
Leptophlebia	L	-i	6	"	imm	
Odonata <u>Cordulidae?</u>	L	i	1	Cran Daly 2008	dam	
Cheumatopsyche	L	i	1	Hils 1995		
Ceratopsyche alhedra	L	<del>iii</del> i	1	Schmitts 1986		
Dipterona modesta	L	iii	3	Hils 1995		
Goera stylata	L	i	1	"		
Optiosevus	L	i	1	Hils Schm 1992	imm	N
O. fastiditus	L	ii	2	"		
Ceratopogon ulicordithorax	L	i	1	Hils 1995		
Culicoides	L	i	1	"		
Dasyhelea	L	i	1	"		
Simulium silvestre	L	i	1	Adl et al 2004		
Stegopterna	L	iiii	4	"	imm	
Prosimulium	L	ii	2	"	imm	
Dicraneta	L	i	1	Hils 1995		
<del>Trambidoformes</del> <u>Trentulid?</u>	A	i	1	<del>Pluch</del> Tharp Reg 2016		1
Leberdia	A	i	1	Pluch 1984		
Naidinae	A	i	1	Brinkel 1991		
Lumbriculus	A	<del>iiii</del> iii	14	Tharp Reg 2016		
Dina parva	A	i	1	Klemm 1985		
Ancyliidae	A	i	1	Tharp Reg 2016	dam	
Pisidium	A	i	1	Mackie 2007		
Cyclopidae	A	ii	2	Tharp Reg 2016		
<del>Spitt Aza Chironomidae</del>	L	<del>8x</del> <del>ii</del>				
<del>Spitt Az b Chironomidae</del>	L	<del>0</del> <del>ii</del>				
Parametriocnemus	L	xiii	14	And + 3 2013		
Cladotanytarsus	L	i	1	Epl et al 2013		
Neostemella reissi	L	i	1	"		
Conchapelona 08270700	L	i	1	Cran Epl 2013		
Meropelopia	L	i	1	"		
Natarsia	L	i	1	"		
Zavelomyia 08273000	L	i	1	"		
Chaetocladius	L	i	1	And + 3 2013		



