

Instructions: Bold fields must be completed.

**Station Summary**

Waterbody Name ILA CREEK		Waterbody ID Code 1540900	Sample ID (YYYYMMDD-CY-FD) 20190925 ILA CRK
Sampling Location ILA CREEK u/s Horseshoe trail			Database Key -64-02 207142529
SWIMS Station ID 10051469	SWIMS Station Name UNNAMED STREAM - NRSA SITE		
Latitude 45.90923	Longitude 89.74941	Lat/Long Determination Method (circle) SWIMS SWDV <b>GPS</b>	Datum Used if using GPS <b>WGS84</b> or NAD83
Basin (WMU) UPPER WISCONSIN		Watershed Name UPPER TOMAHAWK RIVER	County VILAS

**Sample and Site Descriptors**

Sample Collector (Last Name, First) ALAN WIRT	Project Name MISHONAGON CREEK - TOMAHAWK RIVER TWA
Sampling Device	
<input checked="" type="checkbox"/> D-Frame Kick Net	<input type="checkbox"/> Surber Sampler
<input type="checkbox"/> Ponar	<input type="checkbox"/> Artificial Substrate
<input type="checkbox"/> Eckman	<input type="checkbox"/> Hess Sampler
<input type="checkbox"/> Other: _____	

**Habitat Sampled**

<input type="checkbox"/> Riffle	<input checked="" 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) 23 min	Estimated Area Sampled (m <sup>2</sup> ) 6 m <sup>2</sup>	Number of Samples in Composite 1	Replicate No. _____ of _____
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**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 type="checkbox"/> Trend	<input type="checkbox"/> Other: _____

Water Temp. (C) 17.2	D.O. (mg/l) 7.47	D.O. (% sat.) 77.6	pH (su) 7.06	Conductivity (umhos/cm) 28.7	Transparency (cm) 7120
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Water Color	Estimated Stream Velocity (m/s)
<input type="checkbox"/> Clear <input checked="" type="checkbox"/> Turbid <input type="checkbox"/> Stained	<input type="checkbox"/> Slow (< 0.15 m/s) <input checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)

Measured Velocity circle units <b>m/s</b> or f/s	Average Stream Depth of reach (m) .20	Average Stream Width of reach (m) 1.5 m
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): \_\_\_\_\_ Gravel (ladybug to tennisball): \_\_\_\_\_

Sand: \_\_\_\_\_ Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: 60

Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: 20 Coarse Woody Debris: 40 Other ( \_\_\_\_\_ ): \_\_\_\_\_

Embeddedness of Substrate at Sample Site (%) 20 Canopy Cover at Sample Site (%) 60%

**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:			
<b>Physical</b>				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 *Sampled up stream approx 60 meters of Station  
 Poor sampling site with sand substrate > Aquatic vege: primary type.*

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter <i>Kiersten Czarnecki</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>20%</i>
Date Processed <i>1/15/2020</i>	Specimens Saved <i>Subsample archived in ABC until Mar 2023</i>	

*A1: 69 > III  
 E2: 42  
 B2: 96 → 207 specs*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicolar</i>	L	11	2	Rich 2016		
<i>Acanpenna macdunnoughi</i>	L	1	1	"		
<i>Leptophlebia</i>	L	-1	6	"	imm	
<i>Boyeria viosa</i>	L	III	3	Need et al 2000		
Colepterygidae	L	1	1	West May 1996	imm	N
<i>Colepteryx</i>	L	-	5	"	imm	N
<i>C. aequabilis</i>	L	4	2	"		
<i>C. maculata</i>	L	III	3	"		
<i>Cordulegaster</i>	L	4	2	Need et al 2000	imm	
Gomphidae	L	4	2	"	imm	
<i>Chematopsyche</i>	L	x1	11	Hils 1995		
<i>Hydropsyche</i>	L	1	1	"	imm	N
<i>H. betteni</i>	L	11	3	Schm Hils 1986		
<i>Oxyethira</i>	L	1	1	Hils 1995		
<i>Oecetis</i>	L	11	3	"	imm	
Limnephilidae	L	1	1	"	imm	
<i>Ptilostomus</i>	L	1	1	"		
<i>Ceratopogon ulricoidithorax</i>	L	-11	8	"		
<i>Hemerodromia</i>	L	11	3	Court Merr 2009		
<i>Simulium</i>	L	1	1	A21 et al 2004	imm	N
<i>S. venustum</i> species complex	L	11	3	"		
<i>Chryseis</i>	L	1	1	Hils 1995		
<i>Topula</i>	L	11	2	"		
<i>Caecidotea racovitzae racovitzae</i>	A	B5-1	76	Will 1972		
<i>Laesopex fuscus</i>	A	1	1	Thorp Reg 2016		
<i>Ayaxius deflexus</i>	A	1	1	Burch 1989		
Hydrobiidae NOT <i>P. antipodarum</i>	A	1	1	Burch 1989		
Pisidiidae = Sphaeriidae	A	111	4	Thorp Reg 2016	dam	N
<i>Pisidium</i>	A	8x111	53	Mackie 2007		
<i>Sphaerium</i>	A	111	4	"		
Tubificonae (with hairs)	A	1	1	Klemm 1985		
<i>Lumbriculus</i>	A	111	3	Thorp Reg 2016		
<i>Stenochironomus</i>	L	11	2	Epl et al 2013		
<i>Tanyptera</i> 08270000	L	11	2	Cranston 2013	imm	N
<i>Conchapelopia</i> 08270700	L	111	3	can Epl 2013		
<i>Zavelomyia</i>	L	111	4	"		
<i>Metopelopia</i>	L	x-111	19	"		



