

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name MISHONAGON CREEK		Waterbody ID Code 1539900	Sample ID (YYYYMMDD-CY-FD) 20190925 misckk2
Sampling Location D/S END OF STATION		Database Key 207142525 -64-04	
SWIMS Station ID 10010143	SWIMS Station Name MISHONAGON CREEK - MISHONAGON CREEK-541M BELOW MOUTH OF VERNA C		
Latitude 45.95903	Longitude -89.73262	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> 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

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) 32	Estimated Area Sampled (m²) 6	Number of Samples in Composite 1	Replicate No. _____ of _____
--	--	--	--

Reason For Sampling

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

Water Temp. (C) 18.7	D.O. (mg/l) 6.43	D.O. (% sat.) 69.8	pH (su) 7.37	Conductivity (umhos/cm) 121.0	Transparency (cm) > 92
--------------------------------	----------------------------	------------------------------	------------------------	---	----------------------------------

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 checked="" type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)
--	--

Measured Velocity 17.5	circle units m/s or f/s	Average Stream Depth of reach (m) .5	Average Stream Width of reach (m) 13.49
----------------------------------	----------------------------	--	---

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): 20 Rubble (tennisball to basketball): 80 Gravel (ladybug to tennisball): _____
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (): _____

Embeddedness of Substrate at Sample Site (%) 20 **Canopy Cover at Sample Site (%)** 100

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:			
Physical				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

42 3E = 42 3B = 66

90 2A = 48 Total = 156

For Lab Use Only		
Sample Sorter <i>Murphy</i>	Taxonomist <i>Derrick Jeffrey</i>	Estimated Percent of Sample Sorted <i>20%</i>
Date Processed <i>1/15/2020</i>	Specimens Saved <i>Subsample archived in ABL until Mar 2023</i>	

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetis flavistriga species complex	L	x	10	Kub 2016		
Maccallartum vicarium	L	1	1	"		
Boyeria vinosa	L	III	4	Need et al 2000		
Helicopsyche borealis	L	1	1	Hils 1995		
Cheumatopsyche	L	IIII	24	"		
Hydropsyche betteni	L	-1	6	Schm Hils 1986		
Lepidostoma	L	III	3	Hils 1995		
Limnephilidae	L	1	1	"	imm	
Chimarra	L	1	1	"	imm	N
C. aterrima	L	4	2	Hils 1982		
Psychomyia <i>Psychomyia</i> florida Lye <i>diversa</i>	L	1	1	Hils 1995		
<i>Ceratopogon calicoidithorax</i>	L	II	2	"		
<i>Bezzia</i> / <i>Palpomyia</i>	L	1	1	"		
<i>Hemipterodromia</i>	L	n	2	Courtner 2008		
<i>Tipula</i>	L	III	4	Hils 1995		
<i>Coeloclelea</i>	A	1	1	Will 1972	Imm	
<i>Psidium</i>	A	x-III	19	Maacke 2007		
<i>Sphaerium</i>	A	1	1	"		
Split A3 Chironomidae	L	at N/D				
<i>Tanyptera</i> <i>obscuro</i>	L	1	1	Cranston 2013		
<i>Meropelopia</i>	L	II	2	Cran Epl 2013		
<i>Nilotanyptus</i>	L	1	1	"		
<i>Thienemannimyia</i> group	L	III	4	"		
<i>Orthocladius</i> <i>obscuro</i>	L	II	2	Cranston 2013		
<i>Brillia</i>	L	II	2	And+3 2013	imm	
<i>Comptosia</i>	L	-	5	"		
<i>Parametriocnemus</i>	L	III	3	"		
<i>Rheocricotopus</i>	L	1	1	"		
<i>Thienemannella</i>	L	II	2	"	imm	
<i>Tvetenia bavarica</i> group	L	III	41	Bode 1983		
<i>Cladotanytarsus</i>	L	85-III	79	Epl et al 2013		
<i>Polydillum</i> (<i>Tripodura</i>) <i>scalaeum</i> group	L	II	2	Bolton 2012		
<i>P. (Vespedillum) flavum</i>	L	III	41	"		
<i>Zootanytarsus</i>	L	-III	9	Epl et al 2013		