

Instructions: Bold fields must be completed.

Station Summary					
Waterbody Name <u>Mill Creek</u>		Waterbody ID Code <u>1398600</u>		Sample ID (YYYYMMDD-CY-FD) <u>20211025-72-08</u>	
Sampling Location <u>Mill Creek @ CTH E</u>					
SWIMS Station ID <u>723038</u>		SWIMS Station Name <u>Mill Creek @ CTH E</u>		Database Key <u>290609889</u>	
Latitude <u>44.60768</u>	Longitude <u>90.04547</u>	Lat/Long Determination method (circle) <u>SWIMS</u> SWDV GPS		Datum Used if using GPS NAD 27 or NAD83	
Basin (WMU) <u>Central Wisconsin</u>		Watershed Name <u>Mill Creek 0707000302</u>		County <u>Wood</u>	
Sample and Site Descriptors					
Sample Collector (Last Name, First) <u>Hutchinson, Colton</u>			Project Name <u>Mill Creek TWA</u>		
Sampling Device					
<input checked="" type="checkbox"/> Kick Net <input type="checkbox"/> Surber Sampler <input type="checkbox"/> Eckman <input type="checkbox"/> Ponar <input type="checkbox"/> Artificial Substrate <input type="checkbox"/> Hess Sampler <input type="checkbox"/> Other: _____					
Habitat Sampled					
<input checked="" type="checkbox"/> Riffle <input type="checkbox"/> Run <input type="checkbox"/> Pool <input type="checkbox"/> Other <input checked="" 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) <u>5</u>	Estimated Area Sampled (m ²) <u>1</u>	Number of Samples in Composite <u>1</u>		Replicate No. <u>1</u> of <u>1</u>	
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 checked="" type="checkbox"/> Other: <u>TWA</u>					
Water Temp. (C) <u>7.45</u>	D.O. (mg/l) <u>16.74</u>	D.O. (% sat.) <u>140.1</u>	pH (su) <u>7.86</u>	Conductivity (umhos/cm) <u>1512</u>	Transparency (cm)
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 circle units mps or cfs		Average Stream Depth of reach (m)		Average Stream Width of reach (m)	
Composition of Substrate Sampled (Percent):					
Bedrock: <u>0</u>	Boulders (basketball or larger): <u>0</u>	Rubble (tennisball to basketball): <u>30</u>	Gravel (ladybug to tennisball.): <u>20</u>		
Sand: <u>15</u>	Clay: <u>0</u>	Silt/Muck: <u>0</u>	Overhanging Vegetation: <u>10</u>		
Aquatic Macrophytes: <u>20</u>	Leaf Snags: <u>0</u>	Course Woody Debris: <u>5</u>	Other (): _____		
Embeddedness of Substrate at Sample Site (%) <u>10</u>			Canopy Cover at Sample Site (%) <u>0</u>		

Wadeable Macroinvertebrate Field Data Report

Form 3200-081 (R 08/14)

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	PL	U	Chlorine	U	U
- Filamentous Algae	PH	U	Dissolved Oxygen	N	U
- Planktonic Algae	N	U	Nutrients (P, N,...)	U	U
Iron Bacteria	N	U	Toxics: - Inorganic (Metals)	U	U
Macrophytes	PL	U	- Organic (PCBs, pesticides ...)	U	U
Slimes	N	U	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
Physical			Bank Erosion	PL	PL
Bank Erosion	PL	U	Point Source - Specify:	N	U
Channelization - Upstream	N	U	Pasturing of Livestock	PL	PL
- Downstream	N	U	Runoff: - Barnyard	N	U
Hydraulic Scour / Channel Incision	N	U	- Construction	N	U
Impoundment: - Upstream	N	U	- Cropland	PL	U
- Downstream	N	U	- Urban	N	U
Low Flow	N	U	Septic Systems	N	U
Sedimentation	PL	U	Tile Drainage - Organic Soils	N	U
Sludge	N	U	- Minerals soils	N	U
Thermal	N	U	Springs	N	U
Turbidity	N	U	Tributary(s)	N	U
Other - Specify:			Wetland	N	U
			Other - Specify:		

Comments: Lots of algae growth covering rocks and sections of stream
 EWM spotted + documented
 Rusty Crayfish spotted
 High Conductivity -> Marshfield treatment plant upstream

Special Instructions for Laboratory:

For Lab Use Only		
Sample Sorter <i>McClure, Katherine</i>	Taxonomist <i>Dumick, Jeffrey</i>	Estimated Percent of Sample Sorted 31.8
Date Processed 5/23/2022	Specimens Saved Subsample archived in ABZ until Jul 2025	

A1, C4, D2, C1, B1
 30, 27, 30, 38, 36

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Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Calopteryx maculata</i>	L	i	1	West May 2006		
Coenagrionidae	L	-i	6	MCB 2019	imm	N
Enallagma	L	i	1	"	imm	
Cheumatopsyche	L	ii	2	"		
Hydropsyche betteri	L	i	1	Schmitts 1986		
Hydropsyche	L	xi	11	MCB 2019		
<i>Dobsonia vittata</i>	A	iii	3	Hilschm 1992		
<i>Ectopora kechi/renosa</i>	L	iii	3	"		
Diptera <i>Trachycera</i>	P	i	1	MCB 2019		Y
<i>Simulium vittatum</i> species complex (BUDZ)	L	BUDZ	46	Adl et al 2004		N
<i>S. vittatum</i> species complex pupa	P	i	1	"		N
<i>Hyakilla azteca</i>	A	iiii	4	Sauer et al 2005		
<i>Caecidotea intermedia</i>	A	iiii	24	Will 1972		
Phyca	A	iii	3	Thorp Res 2016		
<i>Sphaerium Musculum transversum</i>	A	i	1	Mackie 2007		
Hydridae	A	i	1	Thorp Res 2016		
Split a/b Chironomidae	L	8x10				
Split a/b Chironomidae	L	8x10				
<i>Coenagrionidae</i>	L	iii	4	Adl et al 2013		
<i>Orthocentrus</i> c/o	L	i	1	"	imm	N
<i>Cricotopus (Cricotopus) brevicus</i> group	L	iii	3	"		
<i>C. (Cricotopus) sylvestris</i> group	L	i	1	"		
<i>Dicrolendipes</i>	L	i	1	"		
<i>Microsectra</i>	L	xii	17	"		
<i>Paratanytarsus</i>	L	ii	2	"	mtndet	N
<i>P. species A</i>	L	-i	6	Hils impati		
<i>P. species B</i>	L	ii	2	"		
<i>Polypedilum (Polypedilum) illinoense</i> group	L	i	5	Bolton 2012		
<i>P. (Mesipedium) flavum</i>	L	xii	12	"		
<i>Zootanytarsus</i>	L	xii	12	Adl et al 2013		

13 taxa, TVAL 52.0