

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

Station Summary					
Waterbody Name MANLEY CREEK			Waterbody ID Code 1261200		Sample ID (YYYYMMDD-CY-FD) 20180912-57-01
Sampling Location US STH 113				Database Key 168762675	
SWIMS Station ID 10010989		SWIMS Station Name MANLEY CREEK - MANLEY CREEK AT HWY 113 (DNR LAND)			
Latitude 43.398323	Longitude -89.67581	Lat/Long Determination Method (circle) SWIMS SWDV GPS		Datum Used if using GPS WGS84 or NAD83	
Basin (WMU) LOWER WISCONSIN		Watershed Name LAKE WISCONSIN		County SAUK	
Sample and Site Descriptors					
Sample Collector (Last Name, First) JEAN UNMUTH			Project Name SCR LONG-TERM TREND WADEABLE REFERENCE STREAM		
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)		Estimated Area Sampled (m ²)		Number of Samples in Composite	
				Replicate No. _____ of _____	
Reason For Sampling					
☒ Least Impacted Reference ☐ Baseline ☐ Impact / Treatment Site ☐ Control Site ☐ Trend ☐ Other: _____					
Water Temp. (C) 13.6	D.O. (mg/l) 10.1	D.O. (% sat.) 100	pH (su) 8.1	Conductivity (umhos/cm) 187	Transparency (cm) 85.0
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 0.03 circle units m/s or f/s		Average Stream Depth of reach (m) 0.4		Average Stream Width of reach (m) 1.0	
Composition of Substrate Sampled (Percent):					
Bedrock: _____		Boulders (basketball or larger): 20	Rubble (tennisball to basketball): 30	Gravel (ladybug to tennisball): 30	
Sand: 10		Clay: _____	Silt/Muck: _____	Overhanging Vegetation: 10	
Aquatic Macrophytes: _____		Leaf Snags: _____	Coarse Woody Debris: _____	Other (____): _____	
Embeddedness of Substrate at Sample Site (%) 10		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	N	N
- Filamentous Algae	N		Dissolved Oxygen	N	N
- Planktonic Algae			Nutrients (P, N...)	N	N
Iron Bacteria	N		Toxics: - Inorganic (Metals)		
Macrophytes	N	N	- Organic (PCBs, pesticides...)		
Slimes	N	N	Other - Specify:		
Other - Specify:			Sources of Stream Impacts		
			Bank Erosion	PL	PL
			Point Source - Specify:		
Physical			Pasturing of Livestock	N	N
Bank Erosion	PL	PL	Runoff: - Barnyard	N	N
Channelization: - Upstream	N		- Construction	N	N
- Downstream	N		- Cropland	N	N
Hydraulic Scour / Channel Incision	PL	PL	- Urban	N	N
Impoundment: - Upstream			Septic Systems		
- Downstream			Tile Drainage - Organic Soils		
Low Flow			- Mineral Soils		
Sedimentation	PL	PL	Springs	N	N
Sludge	N	N	Tributary(s)		
Thermal	N	N	Wetland		
Turbidity	N	N	Other - Specify:		
Other - Specify:					

Comments

Special Instructions for Laboratory

1D = 76

3D = 68

~~2B =~~

~~3B =~~

Total = 144

For Lab Use Only

Sample Sorter Murphy Stehinger	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 13%
Date Processed 10/23/2019	Specimens Saved Subsample archived in ABC until Jan 2023	

Wisconsin Department of Natural Resources

ABL SampleNum: 20180912-57-01

Taxonomist: Dimick, Jeffrey

Waterbody: Manley Creek
SWIMS Database Key: 168762675

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Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Baetis brunneicollis</i>	L	III	3	Klob 2016		
<i>Maccaffertium vicarium</i>	L	X	15	"		
<i>Brachycentrus occidentalis</i>	L	X-1	36	Hils 1985		
<i>Glossopsoma</i>	L	II	2	Hils 1985	imm	N
<i>Glossopsoma</i>	P	I	1	Wigg Cur 2008		
<i>Ceratopsyche stessoni</i>	L	X III	34	Schm Hils 1986		
<i>Cheumatopsyche</i>	L	-II	8	Hils 1985		
<i>Hydropsyche betteri</i>	L	II	2	Schm Hils 1986		
<i>Lepidostoma</i>	L	II	2	Hils 1985		
<i>Limnephilus</i>	L	III	3	"		
<i>Optioservus</i>	L	IV	3	Hils Schm 1992	imm	N
<i>O. fastiditus</i> L, 6 A, 2	L, A	III	8	"		
<i>Simulium venustum</i> species complex	L	I	1	Adel et al 2004		
<i>Simulium</i>	P	III	3	"	dam	N
<i>Chrysops</i>	L	I	1	Hils 1985		
<i>Aammarus pseudolomaeus</i>	A	II	2	Hils 1972		
<i>Belostomatidae flumineum</i>	A	I	1	Hils 1984a		
<i>Ferrissia nitularis</i>	A	I	1	Thorp Reg 2016		
<i>Laevapex fuscus</i>	A	II	2	"		
<i>Pseudoscorpinea columella</i>	A	I	1	Boren 1989		
<i>Physa</i>	A	-	5	Thorp Reg 2016		
<i>Pisidium</i>	A	I	1	Mackie 2007		
split A3 Chironomidae	L	III-III				
<i>Chironomidae</i> 08250000	L	I	1	Cran Daly 2013	int det	N
<i>Conchapelopia</i> 08270700	L	III	3	Cran Epl 2013		
<i>Thienemannimyia</i> group	L	-III	8	"	imm	N
<i>Orthocladius</i> 08300000	L	I	1	Cranston 2013	imm	N
<i>Orthocladius</i> (Euorthocladius)	L	III	4	And + 3 2013	imm	
<i>Parakiefferiella</i>	L	I	1	"		
<i>Synorthocladius</i>	L	I	1	"		
<i>Thienemannella</i>	L	I	1	"	imm	
<i>Tretania bavarica</i> group	L	II	2	Bode 1983		
<i>Chironominae</i> 08330000	L	I	1	Cranston 2013	imm	N
<i>Anatanytarsus longistylus</i>	L	I	1	Epl et al 2013		
<i>Polypedium</i> (Uresipedium) <i>aviceps</i>	L	I	1	Bolton 2012		