

Instructions: Bold fields must be completed.

Station Summary		
Waterbody Name FLUME CREEK	Waterbody ID Code 286600	Sample ID (YYYYMMDD-CY-FD) 20221013-50-013
Sampling Location		Database Key 323921398

SWIMS Station ID 10008565	SWIMS Station Name FLUME CREEK CTH T SITE 9		
Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	
Basin (WMU) WOLF RIVER			Datum Used if using GPS WGS84 or NAD83
Watershed Name UPPER LITTLE WOLF RIVER		County PORTAGE	

Sample and Site Descriptors	
Sample Collector (Last Name, First) DAVID BOLHA	Project Name UPPER LITTLE WOLF RIVER TWA 2022

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) 4	Estimated Area Sampled (m²) 2.0	Number of Samples in Composite 1	Replicate No. _____ of _____
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Reason For Sampling

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

Water Temp. (C) 8.1	D.O. (mg/l) 9.6	D.O. (% sat.) 84.5	pH (su) 7.98	Conductivity (umhos/cm) 4.33	Transparency (cm) 120
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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)

Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.3	Average Stream Width of reach (m) 4
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 20 Gravel (ladybug to tennisball): 50
 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 (%)** 90

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	Watershed	Factors that may be influencing Water Resource Integrity		Local	Watershed
Biological				Chemical			
Algae: - Diatoms / Periphyton		N	N	Chlorine		N	N
- Filamentous Algae		PL	N	Dissolved Oxygen		N	N
- Planktonic Algae		N	N	Nutrients (P, N...)		N	N
Iron Bacteria		N	N	Toxics: - Inorganic (Metals)		N	N
Macrophytes		N	N	- Organic (PCBs, pesticides...)		N	N
Slimes		N	N	Other - Specify:		N	N
Other - Specify:		-	-	Sources of Stream Impacts			
				Bank Erosion		PL	PL
				Point Source - Specify:		N	N
				Pasturing of Livestock		N	N
Physical				Runoff: - Barnyard		N	N
Bank Erosion		PL	PL	- Construction		N	N
Channelization: - Upstream		N	N	- Cropland		PL	PL
- Downstream		N	N	- Urban		N	N
Hydraulic Scour / Channel Incision		N	N	Septic Systems		N	N
Impoundment: - Upstream		N	N	Tile Drainage - Organic Soils		N	N
- Downstream		N	PL	- Mineral Soils		N	N
Low Flow		N	N	Springs		N	N
Sedimentation		PL	PL	Tributary(s)		N	N
Sludge		N	N	Wetland		N	N
Thermal		N	N	Other - Specify:		N	N
Turbidity		N	N				
Other - Specify:		-	-				

Comments

No

Special Instructions for Laboratory

No

A1 A4 D4 A3 = 313
 93-10 92-19 93-11 91-16
 92-12 93-13 91-14 92-17
 94-11 94-39 94-16 94-20
 91-28 91-28 92-26 93-33

For Lab Use Only

Sample Sorter Mary Joy Relagio	Taxonomist Dimick, Jeffrey	Estimated Percent of Sample Sorted 25%
Date Processed 2/21/2023	Specimens Saved Subsample archived in ABC until Jun 2023	

Wisconsin Department of Natural Resources

ABL SampleNum: 20221013-50-03

Taxonomist: Dimick, Jeffrey

Waterbody: Flume Creek

SWIMS Database Key: 323921398

Taxa	Life Stage	Benthic Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Baetidae	L	11	2	MCB 2019	imm	N
Baetis brunneicolar	L	1111	4	Kubertanz 2016		
B. flavistriga species complex	L	1	1	"		
Ephemerella	L	1	1	MCB 2019		
E. subvarra	L	11	2	Kubertanz 2016		
Ephemera	L	11	2	MCB 2019	imm	
Maccaffertium vicarium	L	1111	4	Kubertanz 2016		
Leptophlebiidae	L	0-11	27	MCB 2019	dam/imm	N
Leptophlebia	L	1	1	"	imm	
Neoleptophlebia	L	Bx1	51	"	imm	
Colepteryx maculata	L	11	2	West May 2006		
Isoperla	L	11	2	MCB 2019	imm	
Taeniopteryx	L	1	1	"	imm	
Brachycentrus occidentalis	L	1	1	Hilsenhoff 1985		
Helicopsyche borealis	L	1	1	Hilsenhoff 1985		
Ceratopsyche sparna	L	1	1	Schmitts 1986		
Chematopsyche	L	XIII	14	MCB 2019		
Lepidostoma	L	1	1	"		
Mystacides	L	1111	4	"	imm	
Oecetis	L	111	3	"	imm	
Limnephilidae	L	1	1	"	imm	N
Pycnopsyche	L	1	1	"		
Neophylax	L	X1	11	"	imm	
Nigronia semicornis	L	1	5	Nauyig 1966		
Protophila	L	1	1	MCB 2019		
Dubiraphia	L	1	1	"		
Macronychus glabratus	L	1111	5	Hilsenhoff 1985		
Optiservus	L	B-1111	50	MCB 2019	imm	N
O-fastidiosus	L	X11	12	Hils Schmitts 1992		
Stenelmis	L	XIII	14	MCB 2019		
Lepidoptera	L	1	1	"	terr?	
Bezza/Balanyxia	L	1	1	Hilsenhoff 1985		
Simulium vittatum species complex OBVOZIB	L	1	1	Acker et al 2004		
Chrysops	L	1	5	MCB 2019		
Antocha	L	11	2	"		
Dicranota	L	-111	9	"		
Bezdolimorphita	L	1	1	"		

< 4 taxa, TVAL ≤ 2.0

70 > (0.1 x 271)

