

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

Station Summary						
<b>Waterbody Name</b> ELK CREEK			<b>Waterbody ID Code</b> 2120800		<b>Sample ID (YYYYMMDD-CY-FD)</b> 20211020-09-3	
<b>Sampling Location</b> DS bridge ~ 35 m					<b>Database Key</b> 287769798	
<b>SWIMS Station ID</b> 10030130		<b>SWIMS Station Name</b> ELK CREEK AT 35TH STREET				
<b>Latitude</b>		<b>Longitude</b>		<b>Lat/Long Determination Method (circle)</b> SWIMS    SWDV    GPS		<b>Datum Used if using GPS</b> WGS84 or NAD83
<b>Basin (WMU)</b> LOWER CHIPPEWA			<b>Watershed Name</b> MUDDY AND ELK CREEKS		<b>County</b> CHIPPEWA	
Sample and Site Descriptors						
<b>Sample Collector (Last Name, First)</b> MYCAL RALEIGH				<b>Project Name</b> WCR LONG-TERM TREND WADEABLE REFERENCE STREAM		
Sampling Device						
<input checked="" type="checkbox"/> D-Frame 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 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		
<b>Total Sampling Time (min)</b> 1	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 2		<b>Number of Samples in Composite</b> 1		<b>Replicate No.</b> 1 <b>of</b> 1	
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 checked="" type="checkbox"/> Trend		<input type="checkbox"/> Other: _____		
<b>Water Temp. (C)</b> 10.49	<b>D.O. (mg/l)</b>	<b>D.O. (% sat.)</b>	<b>pH (su)</b>	<b>Conductivity (umhos/cm)</b>		<b>Transparency (cm)</b>
Water Color				Estimated Stream Velocity (m/s)		
<input checked="" type="checkbox"/> Clear <input 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)		
<b>Measured Velocity</b> circle units m/s or f/s		<b>Average Stream Depth of reach (m)</b> 0.35		<b>Average Stream Width of reach (m)</b> 5		
Composition of Substrate Sampled (Percent):						
Bedrock: _____		Boulders (basketball or larger): _____		Rubble (tennisball to basketball): 50		Gravel (ladybug to tennisball): 30
Sand: 5		Clay: _____		Silt/Muck: _____		Overhanging Vegetation: 10
Aquatic Macrophytes: 5		Leaf Snags: _____		Coarse Woody Debris: _____		Other (____): _____
<b>Embeddedness of Substrate at Sample Site (%)</b> 10				<b>Canopy Cover at Sample Site (%)</b> 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
<b>Biological</b>				<b>Chemical</b>			
Algae: - Diatoms / Periphyton		N	U	Chlorine		U	U
- Filamentous Algae		PL	U	Dissolved Oxygen		N	U
- Planktonic Algae		N	U	Nutrients (P, N...)		U	U
Iron Bacteria		N	U	Toxics: - Inorganic (Metals)		U	U
Macrophytes		N	U	- Organic (PCBs, pesticides...)		U	U
Slimes		N	U	Other - Specify:			
Other - Specify:				<b>Sources of Stream Impacts</b>			
				Bank Erosion		PH	U
				Point Source - Specify:			
<b>Physical</b>				Pasturing of Livestock			
Bank Erosion		PH	U	Runoff: - Barnyard		PL	U
Channelization: - Upstream		N	U	- Construction		N	U
- Downstream		N	U	- Cropland		PH	U
Hydraulic Scour / Channel Incision		N	U	- Urban		N	U
Impoundment: - Upstream		N	U	Septic Systems		U	U
- Downstream		N	PH	Tile Drainage - Organic Soils		U	U
Low Flow		N	U	- Mineral Soils		U	U
Sedimentation		PH	U	Springs		U	U
Sludge		N	U	Tributary(s)		U	U
Thermal		N	U	Wetland		U	U
Turbidity		N	U	Other - Specify:			
Other - Specify:							

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter <i>Anna Powers</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted R1-19.3% R2-26.6%
Date Processed <i>11/18/22</i>	Specimens Saved <i>Subsamples archived in ABC until Mar 2026</i>	

*C1 Q4-6 Q1-14 Q3-12 Q2-10*  
*A3 Q3-15 Q2-5 Q1-11 Q4-8*  
*C2 Q1-6 Q2-12 Q3-10 Q4*  
*A4 Q4-13 Q1-5 Q2 Q3*  
*A1 Q4-9 Q1-6 Q3-4 Q2-5*  
*B4 Q2-15 Q4-12 Q1-6 Q3-5*  
*C3 Q1-7 Q2-4 Q3-6 Q4-4*  
*A5 Q3-11 Q1-8 Q2-14 Q4-4*  
*D1 Q4-7 Q1 Q3 Q2*  
*(131)*

Taxa	Life Stage	Organism Count			Taxonomic Reference	Condition	Unique Taxon
		Rep 1	Rep 2	Rep 3			
<i>Baetis brunneicolor</i>	L	2	1		Klub 2016		
<i>B. tricaudatus</i>	L	1	0		"		
<i>Ephemerella</i>	L	3	1		MCB 2019	imm	
<i>Maccaffertium vicarrum</i>	L	0	1		Klub 2016		
<i>Stenacron</i>	L	0	1		MCB 2019	imm	
<i>Neoleptophlebia</i>	L	5	5		"	imm	
<i>Allocapnia</i>	L	4	0		"		
<i>Paracapnia angulata</i>	L	2	4		Nitch 1974		
<i>Haploperla</i>	L	0	1		MCB 2019	imm	
<i>Amphinemura</i>	L	1	0		"		
<i>Isoperla signata</i>	L	0	3		Hils 1982		
<i>Taeniopteryx</i>	L	16	2		MCB 2019	imm	
<i>Brachycentrus americanus</i>	L	8	3		Hils 1985		
<i>B. occidentalis</i>	L	0	1		"		
<i>Ceratopsyche stossorae</i>	L	8	8		Schm/Hils 1986		
<i>Cheumatopsyche</i>	L	2	0		MCB 2019		
<i>Hydropsyche bettereri</i>	L	1	0		Schm/Hils 1986		
<i>Ceratodea</i>	L	1	0		MCB 2019		
<i>Limnephilidae</i>	L	1	0		"	imm	
<i>Dobinaphia</i>	L	0	1		"		
<i>Optocentrus</i>	L	15	13		"	imm	N
<i>O. fastiditus</i>	LA	3	5		Hils/Schm 1992		
<i>Stenelmis crenata</i>	A	2	2		"		
<i>Liodessus affinis</i>	A	1	0		Hils 1994		
<i>Hemerodromia</i>	L	1	0		MCB 2019		
<i>Simulium vittatum</i> species complex 08160218	L	1	0		Adler et al 2004		
<i>Dicranota</i>	L	3	2		MCB 2019		
<i>Tipula</i>	L	2	3		"		
<i>Gammarus pseudolimnaeus</i>	A	20	32		Hols 1972		
<i>Caecidotea racovitzae racovitzae</i>	A	27	29		Will 1972		
<i>Dugesitiidae</i>	A	1	4		Thorp Reg 2016		
<i>Anya</i>	A	5	8		"		
<i>Cypridius</i>	A	1	1		"		
<i>Pisidium</i>	A	0	1		"		
<i>Ophionais serpentina</i>	A	1	3		Kath Brn 1999		
<i>Tubificinae (with hairs)</i>	A	0	1		"		
<i>Tubificinae (without hairs)</i>	A	8	7		"		
<i>Glossiphonia complanata = G. elegans</i>	A	0	1		Thorp Reg 2016		
<i>Hydrobates</i>	A	5	4		Reck et al 1990		
<i>Lebertia</i>	A	3	2		"		

