

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

Station Summary					
<b>Waterbody Name</b> OTTER CREEK			<b>Waterbody ID Code</b> 2156800		<b>Sample ID (YYYYMMDD-CY-FD)</b> 20191205-09-03
<b>Sampling Location</b> US bridge ~40 m					<b>Database Key</b> 215849310
<b>SWIMS Station ID</b> 10039383		<b>SWIMS Station Name</b> OTTER CREEK AT HWY H			
<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> LOWER YELLOW (CHIPPEWA CO.) RIVER		<b>County</b> CHIPPEWA
Sample and Site Descriptors					
<b>Sample Collector (Last Name, First)</b> Alex Kalay, Alex Selle			<b>Project Name</b> LOTZ CREEK-YELLOW RIVER/PIKE CREEK TWA 2019		
<b>Sampling Device</b>					
<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: _____	
<b>Habitat Sampled</b>					
<input checked="" type="checkbox"/> Riffle		<input 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> 0.5 min	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1 m <sup>2</sup>		<b>Number of Samples in Composite</b> 1		<b>Replicate No.</b> 1 <b>of</b> 1
<b>Reason For Sampling</b>					
<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: TWA	
<b>Water Temp. (C)</b> -1.1	<b>D.O. (mg/l)</b>	<b>D.O. (% sat.)</b>	<b>pH (su)</b>	<b>Conductivity (umhos/cm)</b>	<b>Transparency (cm)</b>
<b>Water Color</b>				<b>Estimated Stream Velocity (m/s)</b>	
<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> .25		<b>Average Stream Width of reach (m)</b> 4m	
<b>Composition of Substrate Sampled (Percent):</b>					
<b>Bedrock:</b> _____		<b>Boulders (basketball or larger):</b> _____		<b>Rubble (tennisball to basketball):</b> 90	
				<b>Gravel (ladybug to tennisball):</b> 10	
<b>Sand:</b> _____		<b>Clay:</b> _____		<b>Silt/Muck:</b> _____	
				<b>Overhanging Vegetation:</b> _____	
<b>Aquatic Macrophytes:</b> _____		<b>Leaf Snags:</b> _____		<b>Coarse Woody Debris:</b> _____	
				<b>Other ( ): _____</b>	
<b>Embeddedness of Substrate at Sample Site (%)</b> 0			<b>Canopy Cover at Sample Site (%)</b> 10		

**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	N	U	Dissolved Oxygen	U	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	N	U
			Point Source - Specify:		
<b>Physical</b>			Pasturing of Livestock	N	U
Bank Erosion	N	U	Runoff: - Barnyard	N	U
Channelization: - Upstream	N	N	- Construction	N	U
- Downstream	N	N	- Cropland	N	U
Hydraulic Scour / Channel Incision	N	U	- Urban	N	U
Impoundment: - Upstream	N	N	Septic Systems	U	U
- Downstream	N	PH	Tile Drainage - Organic Soils	U	U
Low Flow	U	U	- Mineral Soils	U	U
Sedimentation	N	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

3D = 82  
 IC = 79

Total = 161

**For Lab Use Only**

Sample Sorter Murphy Stehinger	Taxonomist Dimick Jeffrey	Estimated Percent of Sample Sorted 13%
Date Processed 2/8/2020	Specimens Saved Subsample archived in ABL until Apr 2023	

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Leucocrota	L	11	2	Kleb 2016		
Stenacron	L	1	1	"	imm	
Lentophlebia	L	11	2	"	imm	
Paraleptophlebia	L	88m	84	"	imm	N
P. mollis	L	211	13	"		
Pammapura angulata	L	11	7	Hatch 1974		
Isoperla sigrata	L	11	2	Hils 1982		
Sialis	L	1	1	Hils 1985		
Optiosecurus	L	1	1	Hils Schum 1992	imm	N
O. fastidiosus	L	1	1	"		
Liodessus affinis	A	1	1	Hils 1994		
Chrysops	L	1	1	Hils 1985		
Dicranota	L	11	2	"		
Sperchon	A	11	2	Ploduro 1984		
Tibificinae (without hairs)	A	11	3	Klemm 1985		
<del>Split Az chromonidae</del>	L	1-110				
Tanyptarinae 08270000	L	1	1	Cranston 2013	not indet	Y
Contrapeleptia 08270700	L	1	1	Cranston 2013		
Natarsia	L	1	1	"	not indet	
Orthocladinae 08300000	L	11	2	Cranston 2013		
Diplocladius	L	111	3	Andr 3 2013		
Hydrobaenus	L	11	2	"		
Orthocladus (Orthocladus) oliveri	L	111	4	Bolton 2012		
Parametriocnemus	L	11	2	Andr 3 2013		
Tvetenia bavarrica group	L	11	2	Bode 1983		
Micropspectra	L	111	4	Epl et al 2013		
Paratanytarsus sp A	L	1	1	Hils unpubl		
P. species B	L	1	1	"		
Paratendipes	L	1111	4	Epl et al 2013		
Phaenopspectra obediens group	L	1	1	Epler 2001	imm	
Polypedium (Polypedium) illinoense group	L	1	1	Bolton 2012		
P. (Unesipedium) flavum	L	1	1	"		
Stempellinella	L	11	7	Epl et al 2013		
Tanytarsus	L	11	6	"		