

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name ONION RIVER	Waterbody ID Code 51200	Sample ID (YYYYMMDD-CY-FD) 20181112-60-01
--------------------------------------	-----------------------------------	---

Sampling Location 505 riffle	Database Key 168915219
--	----------------------------------

SWIMS Station ID 10032113	SWIMS Station Name ONION RIVER UPSTREAM OF CTH OO
-------------------------------------	---

Latitude 43.6516	Longitude -87.8218	Lat/Long Determination Method (circle) SWIMS <u>SWDV</u> GPS	Datum Used if using GPS WGS84 or NAD83
----------------------------	------------------------------	--	--

Basin (WMU) SHEBOYGAN	Watershed Name ONION RIVER	County SHEBOYGAN
---------------------------------	--------------------------------------	----------------------------

Sample and Site Descriptors

Sample Collector (Last Name, First) CRAIG HELKER	Project Name ONION RIVER EASTERN DISTRICT TWA 2018
--	--

Sampling Device

D-Frame Kick Net
 Surber Sampler
 Eckman
 Ponar
 Artificial Substrate
 Hess Sampler
 Other: Pool

Habitat Sampled

Riffle
 Run
 Pool
 Other
 Shoreline Composite
 Proportionally-Sampled Habitat
 Littoral Zone
 Profundal Zone
 Wetland

Total Sampling Time (min) 2	Estimated Area Sampled (m²) 2	Number of Samples in Composite	Replicate No. _____ of _____
---------------------------------------	--	---------------------------------------	--

Reason For Sampling

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

Water Temp. (C) 3.15	D.O. (mg/l) 12.27	D.O. (% sat.) 92.1	pH (su) 7.48	Conductivity (umhos/cm) 694.2	Transparency (cm) 1120
--------------------------------	-----------------------------	------------------------------	------------------------	---	----------------------------------

Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <input type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s)
--	--

Measured Velocity 2.11	circle units m/s or f/s <u>60</u>	Average Stream Depth of reach (m) 1.0	Average Stream Width of reach (m) 10
----------------------------------	--------------------------------------	---	--

Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 40 Gravel (ladybug to tennisball): 30
 Sand: 30 Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (_____): _____

Embeddedness of Substrate at Sample Site (%) 30
Canopy Cover at Sample Site (%) 70

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

Comments

Special Instructions for Laboratory

For Lab Use Only

Sample Sorter <i>Sam Lamarche</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>27%</i>
Date Processed <i>3/30/2019</i>	Specimens Saved <i>Subsample archived in ABC until Jun 2022</i>	

B1. A1 B2 C3
 24 53 42 37 156 total

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Taeniopteryx	L	1	1	Hils 1995	imm	
Baetis intercalaris	L	1	1	Kilb 2016		
Stenonema interpunctatum	L	II	7	"		
Helicopsyche borealis	L	I	1	Hils 1995		
Cheumatopsyche	L	DATA	25	"		
Ceratopsyche	L	-1	6	"	imm	N
C. boozii	L	0	20	Schm Hils 1986		
C. morosa bifida form	L	III	8	"		
Hydroptila	L	I	1	Hils 1995		
Chimarra obscura	L	I	1	Hils 1982		
Dubiraphia	L	I	1	Hils Schm 1992		N
D. vittata	A	I	1	"		
Macronychus glabratus	L	I	1	"		
Ophrosenus fastidius	L	II	2	"		
Stenelmis	L	XII	12	"		N
S. crenata	A	XI	11	"		
S. grossa	A	"	2	"		
Hemerochroma	L	III	4	Court Merr 2008		
Simulium vittatum species complex 08110217	L	III	3	Adl et al 2004		
Chrysope	L	I	1	Hils 1995		
Argia moesta	L	300	1	West May 1996		
Aeschna	A	III	3	Will 1972	Pen/imm	
Tubificidae (without hairs)	A	I	1	Klemm 1985		
Laevigex fuscus	A	II	2	Thorp Raj 2016		
Spit A3 Chironomidae	L	III + JVD				
Thienemannimyia	L	-1	6	Cran Epl 2013		
Eukiefferiella clavigeris group	L	III	4	And + 3 2013		
Orthocladius (orthocladius)	L	I	1	"		
Cladotanytarsus	L	II	2	Epl et al 2013		
Dicentendipes	L	III	3	"		
Microtendipes pedellus group	L	III	4	"		
Nilotrauma	L	I	1	"		
Paratanytarsus	L	II	2	"	mt undet	
Polypedilum (Triopedium) scaberrum group	L	II	2	Bolton 2012		
P. (Lresipedilum) flavum	L	XI	11	"		
Rheotanytarsus	L	II	3	Epl et al 2013		
Tanytarsus	L	II	3	"		

< 3 taxa, TVAL ≤ 2.0