

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name PINE CREEK	Waterbody ID Code 66300	Sample ID (YYYYMMDD-CY-FD) 201609293602
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Sampling Location	Database Key 134665542
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SWIMS Station ID 363295	SWIMS Station Name PINE CREEK AT CARSTENS LAKE RD
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Latitude	Longitude	Lat/Long Determination Method (circle) SWIMS SWDV GPS	Datum Used if using GPS WGS84 or NAD83
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Basin (WMU) MANITOWOC	Watershed Name SEVENMILE AND SILVER CREEKS	County MANITOWOC
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Sample and Site Descriptors

Sample Collector (Last Name, First) MARY GANSBERG	Project Name PINE AND CALVIN CREEK FRONTAL LAKE MICHIGAN TWA
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Sampling Device

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) 8	Estimated Area Sampled (m²) 0.1	Number of Samples in Composite	Replicate No. _____ of _____
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Reason for Sampling

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

Water Temp. (C) 15.1	D.O. (mg/l) 5.3	D.O. (% sat.) 52.7	pH (su) 7.5	Conductivity (umhos/cm) 815	Transparency (cm)
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Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <input checked="" type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)
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Measured Velocity circle units m/s or f/s	Average Stream Depth of reach (m) 0.1	Average Stream Width of reach (m) 1.0
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Composition of Substrate Sampled (Percent):

Bedrock: _____
 Boulders (basketball or larger): _____
 Rubble (tennisball to basketball): 10
 Gravel (ladybug to tennisball): 80

Sand: 10
 Clay: _____
 Silt/Muck: _____
 Overhanging Vegetation: _____

Aquatic Macrophytes: _____
 Leaf Snags: _____
 Coarse Woody Debris: _____
 Other (____): _____

Embeddedness of Substrate at Sample Site (%) 25
Canopy Cover at Sample Site (%) 95

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			
				Runoff: - Barnyard			
				- Construction			
				- Cropland			
				- Urban			
				Septic Systems			
				Tile Drainage - Organic Soils			
				- Mineral Soils			
				Springs			
				Tributary(s)			
				Wetland			
				Other - Specify:			
Physical							
Bank Erosion							
Channelization: - Upstream							
- Downstream							
Hydraulic Scour / Channel Incision							
Impoundment: - Upstream							
- Downstream							
Low Flow							
Sedimentation							
Sludge							
Thermal							
Turbidity							
Other - Specify:							

Comments

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter Cadie Olson	Taxonomist K. Kamke	Estimated Percent of Sample Sorted 20%
Date Processed 11/16/16	Specimens Saved subsample archived in ABL until Feb 2020	

C2: 55 E2: 56
 D3: 41 = 152