

Instructions: Bold fields must be completed.

Station Summary

Waterbody Name THORNAPPLE RIVER		Waterbody ID Code 2360800	Sample ID (YYYYMMDD-CY-FD) 20190917-58-04
Sampling Location 80m downstream Thornapple Grade Rd			Database Key 206243688
SWIMS Station ID 10020731		SWIMS Station Name THORNAPPLE RIVER-170 YDS UPSTREAM OF THORNAPPLE GRADE RD.	
Latitude 45.65598	Longitude 90.98124	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
Basin (WMU) UPPER CHIPPEWA		Watershed Name THORNAPPLE RIVER	County SAWYER

Sample and Site Descriptors

Sample Collector (Last Name, First) JON KLEIST	Project Name NORTH DISTRICT NC STREAM STRATIFIED SITES 2019
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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) 2	Estimated Area Sampled (m²) 2	Number of Samples in Composite 3	Replicate No. 1 of 1
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Reason For Sampling

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

Water Temp. (C) 19.2	D.O. (mg/l) 8.6	D.O. (% sat.) 97	pH (su) 7.2	Conductivity (umhos/cm) 59	Transparency (cm) >120
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Water Color <input 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)
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Measured Velocity 2.0	circle units m/s or <u>f/s</u>	Average Stream Depth of reach (m) 0.6	Average Stream Width of reach (m) 18
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Composition of Substrate Sampled (Percent):

Bedrock: _____ Boulders (basketball or larger): _____ Rubble (tennisball to basketball): 90 Gravel (ladybug to tennisball): 10
 Sand: _____ Clay: _____ Silt/Muck: _____ Overhanging Vegetation: _____
 Aquatic Macrophytes: _____ Leaf Snags: _____ Coarse Woody Debris: _____ Other (____): _____

Embeddedness of Substrate at Sample Site (%) 0 **Canopy Cover at Sample Site (%)** 0