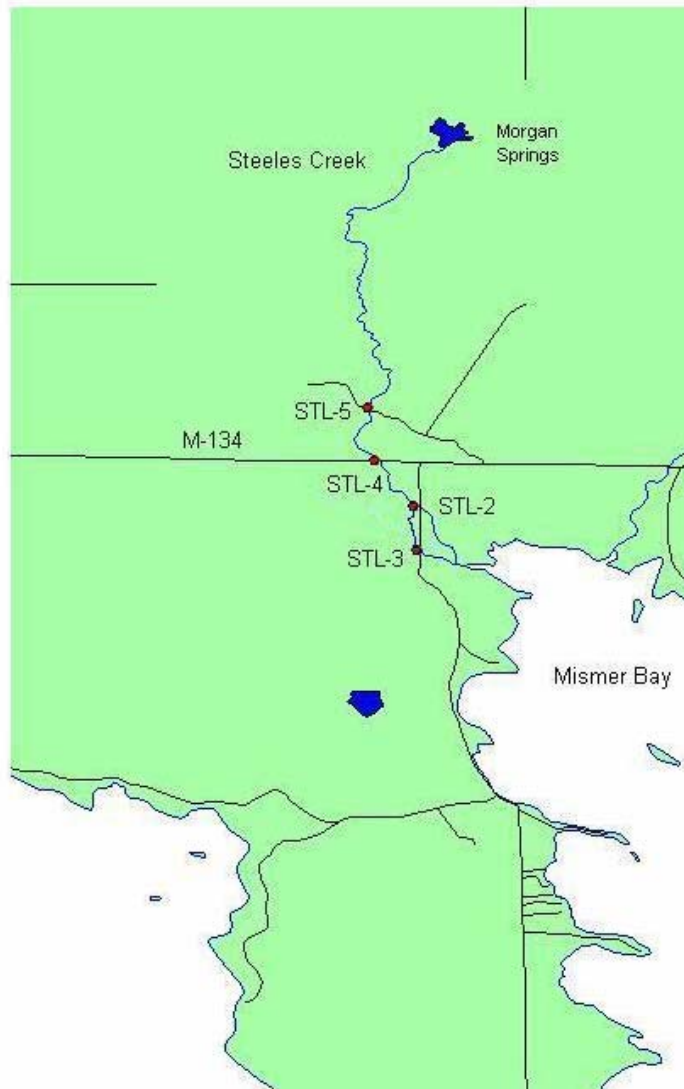


Steeles Creek

Point Brulee Road (south of STL-2)
STL-3



Upstream



Downstream



Steeles Creek

Point Brulee Road (south of STL-2)
STL-3

Steeles Creek at Point Brulee Road (south of STL-2)

Site I.D.: STL-3

GPS Coordinates: N 46.00903
W 84.47297

Township: Clark

County: Mackinac

Adjacent Landowners: Private

Road Information

Jurisdiction: MCRC

Surface: Gravel

Width at Crossing: 25 feet

Maintenance: Year around

Low point: At stream

Drainage Control Features: None

Approach Length: Left: 0.1 mile
Right: 0.3 mile

Slope: Left: 0 percent
Right: 0 percent

Ditch/shoulder vegetation: Left: Heavy
Right: Heavy

Average Width of Grade: 40 feet

Runoff Path: Ditch along adjacent wetland

Stream Characteristics

Average Width: Upstream: 3 feet
Downstream: 4 feet

Average Depth: Upstream: 12 inches
Downstream: 10 inches

Average Current: Upstream: Moderate
Downstream: Moderate

Substrate Type: Upstream: Gravel
Downstream: Sand/gravel

Adjacent Wetlands: Yes

Visible Down Cutting: No

Culvert Information

Culvert Type: Single

Length: 54.5 feet

Diameter: 3 feet

Material: Galvanized

Condition: Good

Culvert Flow: Clear

Fish Passage Problem: Yes—perched

Fill Depth: Inlet: One foot
Outlet: One foot

Embankment Slopes: Inlet: >2:1
Outlet: >2:1

Steeles Creek

Point Brulee Road (south of STL-2)
STL-3**Conditions and Treatment****Erosion Conditions**

- Embankment erosion
- Sand/soil over crossing

Recommended Treatment

- The perched culvert should be removed and replaced with a 48 inch culvert.
- The embankment should be stabilized with rip-rap and/or vegetation.

Erosion Severity Rating: Moderate (16)**Overall Condition Rating:** Minor**Cost:** See BMP Cost Tables

Comments: When flow is obstructed at STL-2, water courses along Pt. Brulee Road until it reaches STL-3. It crosses through a perched culvert and flows through a man-made channel to the natural Steeles Creek channel which empties into the bay. The erosion under the downstream culvert is calculated as 3 feet at top of gully x 1ft at bottom/2 x 1 foot deep x 2 foot long x .055 soil weight =.0165 tons/year sediment.