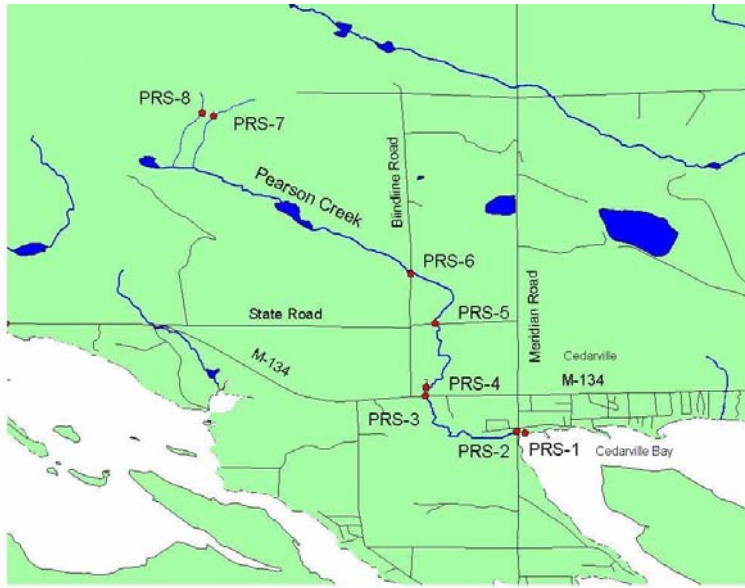


Pearson Creek

Northwest Tributary at the Snowmobile Trail
PRS-8



Upstream



Downstream



Pearson Creek

Northwest Tributary at the Snowmobile Trail
PRS-8

Pearson Creek (NW Tributary) at Snowmobile Trail

Site I.D.: PRS-8

GPS Coordinates: N 46.02673
W 84.39352

Township: Clark

County: Mackinac

Adjacent Landowners: State

Road Information

Jurisdiction: State Department of Natural Resources

Surface: Gravel

Width at Crossing: 9 feet

Maintenance: Seasonal

Low point: At stream

Drainage Control Features: None

Approach Length: Left: 51 feet
Right: 90 feet

Slope: Left: 0-5 percent
Right: 0-5 percent

Ditch/shoulder vegetation: Left: Heavy
Right: Heavy

Average Width of Grade: 16 feet

Runoff Path: Roadway

Stream Characteristics

Average Width: Upstream: 2 feet
Downstream: 2 feet

Average Depth: Upstream: 8 inches
Downstream: 5 inches

Average Current: Upstream: Moderate
Downstream: Fast

Substrate Type: Upstream: Sand
Downstream: Sand/gravel

Adjacent Wetlands:

No

Visible Down Cutting:

Culvert Information

Culvert Type: Single

Length: 18 feet

Diameter: 2 feet

Material: Galvanized

Condition: Poor

Culvert Flow: Obstructed

Fish Passage Problem: Yes

Fill Depth: Inlet: 8 inches
Outlet: 8 inches

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

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Conditions and Treatment

Erosion Conditions

- Streambank erosion beside crossing
- Embankment erosion
- Culvert outlet erosion
- Shoulder/ditch erosion
- Sand/soil over crossing

Recommended Treatment

- Replace culvert with larger bottomless culvert
- Increase length of culvert
- Stabilize embankment
- Install runoff diversions
- Revegetate
- Raise approaches

Erosion Severity Rating: Moderate (23)

Overall Condition Rating: Severe

Cost: See BMP Cost Tables

Comments: The road over this tributary is eroding away each time increased spring, fall, and rain event flows dam at this crossing. The culvert should be replaced with a larger, bottomless culvert to accommodate the natural course of the tributary. The length of the culvert should be increased to protect from road dirt to reach the tributary at the crossing. The approaches should be installed with runoff diversions so the road doesn't provide an easy route for runoff into the tributary. 10 ft long x 2 ft high x .03 ft/yr x .055 tons/cu. ft. = .03 tons/yr



Exposed culvert.



Eroded shoulder. Stream flow has eroded the soil away from the culvert inlet undermining the trail bed.