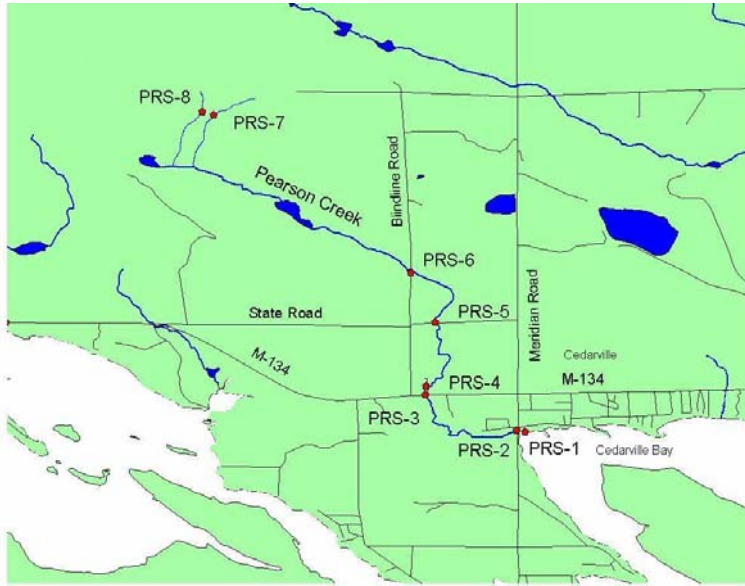


Pearson Creek

Northeast Tributary at the Snowmobile Trail
PRS-7



Upstream



Downstream



Pearson Creek

Northeast Tributary at the Snowmobile Trail
PRS-7

Pearson Creek (NE Tributary) at Snowmobile Trail

Site I.D.: PRS-7

GPS Coordinates: N 46.02638
W 84.39327

Township: Clark

County: Mackinac

Adjacent Landowners: State

Road Information

Jurisdiction: State Department of Natural Resources

Surface: Sand/gravel

Width at Crossing: 9 feet

Maintenance: Seasonal

Low point: At stream

Drainage Control Features: None

Approach Length: Left: 125 feet
Right: 0.25 mile

Slope: Left:
Right:

Ditch/shoulder vegetation: Left: Heavy
Right: Partial

Average Width of Grade: 18 feet

Runoff Path: Roadway

Stream Characteristics

Average Width: Upstream: 4 feet
Downstream: 2 feet

Average Depth: Upstream: 8 inches
Downstream: 6 inches

Average Current: Upstream: Slow
Downstream: Moderate

Substrate Type: Upstream: Silt/detritus
Downstream: Sand/detritus

Adjacent Wetlands: Yes

Visible Down Cutting: Yes

Culvert Information

Culvert Type: Single

Length: 19 feet

Diameter: 2 feet

Material: Galvanized

Condition: Poor

Culvert Flow: Obstructed

Fish Passage Problem: Yes

Fill Depth: Inlet: 12 inches
Outlet: 12 inches

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

Pearson Creek

Northeast Tributary at the Snowmobile Trail
PRS-7**Conditions and Treatment****Erosion Conditions**

- Embankment erosion
- Shoulder/ditch erosion
- Sand/soil over crossing

Recommended Treatment

- Bottomless culvert
- Extend length of culvert
- Install runoff diversions
- Stabilize embankment
- Raise approaches
- Revegetate

Erosion Severity Rating: Moderate (27)**Overall Condition Rating:** Severe**Cost:** See BMP Cost Tables

Comments: This small tributary of Pearson Creek crosses the airport snowmobile trail through a tiny, damaged culvert that causes the creek to dam up at the road in the spring, and erode the road, dumping sediment into the tributary. 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. Erosion area = 10 ft long x 2 ft high x .03 ft/yr x .055 tons/cu.ft = .03 tons/yr

