Big Creek Dewey Ave

GPS Coordinates: 44.4973817,-84.7782186 T N R Sec Information collected by: Huron Pines

Fish Passability: Not a Barrier Structure is NOT Perched Total Erosion: 0.01 tons/year Overall Score: 6 Severity: Minor Date Inventoried: 4/29/2022



Road Approach - Left



Outlet

Crossing Information*



Downstream Conditions

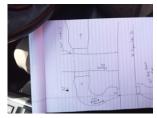


Inlet

Representative Reach



Upstream Conditions



Site Sketch

Type of Crossing: Culvert(s) Number of Structures: 1 Structure Shape: Pipe Arch Inlet Type: Projecting Outlet Type: At Stream Grade Structure Material: Metal Structure Substrate: Sand General Conditions: No deficiencies. New structure or nearly new condition.

Structure Interior: Corrugated Is Structure Rusted through? No Dimensions of Structure: Length 40 ft. Width 5.5 ft. Height 4.5 ft. Percentage Plugged: None or 0% Percentage Crushed: None or 0% Structure is NOT Perched

<u>Structure Inlet</u> Water Depth: 0.7 ft. Embedded Depth of Structure: 0.1 ft. Water Velocity*: 3.6 ft./sec. Structure Outlet Water Depth: 1.3 ft. Embedded Depth of Structure: 0.1 ft. Water Velocity*: 0.4 ft./sec.

*Water Velocities were measured 0.5 ft. below the surface (via Flow Meter).

Stream Information

Stream Flow: < Bankfull – The stream channel is more than half filled with water, but is not full. Stream Flow Type: Perennial (if flowing during the time of assessment.) Is Scour Pool Present? No Is Upstream Ponding Present? No

Riffle Information

Water Depth: 0.8 ft. Bankfull Width: 11 ft. Wetted Width: 10.7 ft. Water Velocity: 1.3 ft./sec. (measured via Flow Meter) Dominant Substrate: Sand – particles are smaller than a pinhead and feel gritty between fingers

Road Information

Road Surface: Paved Owner: County Road Condition: New Pavement or Well Graded, Same condition as initial placement. Road Core Integrity: Good (no symptoms of lack of integrity) Road Width at Culvert: 22 ft. Location of Low Point: Other Runoff Path: Ditch

Embankments

<u>Upstream</u> Fill Depth: 1.7 ft. Slope: Moderate, 2:1, 22.5°, or 41%

Approaches

Left Approach Length: 375 ft. Slope: < 1% Vegetation: Partial, Ditch has some vegetation and some bare, eroding places. Erosion Estimate: 0.01 tons/year

Erosion Information

Estimate of Total Erosion at Crossing: 0.01 tons/year

Summary Information

Fish Passability: Not a Barrier Is a future visit to this site recommended? No Were any non-native species observerd at this site? No Site Comments: Culvert replaced in 2021. Brook trout and suckers observed upstream or culvert.

*These data are maintained in the Michigan DNR Road Stream Crossing Inventory. <u>View MDNR Map</u>

Downstream Fill Depth: 2 ft. Slope: Moderate, 2:1, 22.5°, or 41%

<u>Right Approach</u> Length: 100 ft. Slope: < 1% Vegetation: None, Ditch has been recently graded and is bare of vegetation.