

Stream Crossing Data Sheet

Site ID: _____

General Information

Stream Name: _____ Road Name: _____

Name of Observer(s): _____ Date: _____

GPS Waypoint: _____ GPS Lat/Long: _____

County: _____ Township: _____ Range: _____ Sec: _____

Adjacent Landowner Information: _____ Additional Comments: _____

Crossing Information

Crossing Type: Culvert(s) no.: _____ Bridge _____ Ford _____ Dam _____ Other: _____

Structure Shape: Round _____ Square/Rectangle _____ Open Bottom Square/Rectangle _____ Pipe Arch _____ Open Bottom Arch _____ Ellipse _____

Inlet Type: Projecting _____ Mitered _____ Headwall _____ Apron _____ Wingwall 10-30° or 30-70° _____ Trash Rack _____ Other _____

Outlet Type: At Stream Grade _____ Cascade over Riprap _____ Freefall into Pool _____ Freefall onto Riprap _____ Outlet Apron _____ Other _____

Structure Material: Metal _____ Concrete _____ Plastic _____ Wood _____

Substrate in Structure: None _____ Sand _____ Gravel _____ Rock _____ Mixture _____

General Condition: New _____ Good _____ Fair _____ Poor _____

Plugged: _____ % Inlet _____ Outlet _____ In Pipe _____

Crushed: _____ % Inlet _____ Outlet _____ In Pipe _____

Rusted Through? Yes _____ No _____ Structure Interior: Smooth _____ Corrugated _____

Multiple Culverts/Spans				
Number the culverts/spans left to right, facing downstream. Include #s in site sketch on back page				
Culvert/ Span #	Width (ft)	Length (ft)	Height (ft)	Material

Structure Length (ft):¹ _____ Structure Width (ft):¹ _____ Structure Height (ft):¹ _____

Structure Water Depth (ft):¹ inlet _____ outlet _____ Perch Height (ft):¹ _____ or NA

Embedded Depth of Structure (ft):¹ inlet _____ outlet _____

Structure Water Velocity (ft/sec):¹ inlet _____ outlet _____

Structure Water Velocity Measured: At Surface _____ Or _____ ft Below Surface Measured With: Meter _____ or _____ Float Test

Stream Information

Stream Flow: None _____ < ½ Bankfull _____ < Bankfull _____ = Bankfull _____ > Bankfull _____

Scour Pool (if present) Length: _____ Width: _____ Depth: _____ Upstream Pond (if present) Length: _____ Width: _____

Riffle Information

 (measured in a riffle outside of zone of influence of crossing)

Water Depth (ft): _____ Bankfull Width (ft): _____ Wetted Width (ft): _____ Water Velocity (ft/sec): _____

Dominant Substrate: Cobble _____ Gravel _____ Sand _____ Organics _____ Clay _____ Bedrock _____ Silt _____ Measured With: Meter _____ or _____ Float Test

Road Information

Type: Federal _____ State _____ County _____ Town _____ Tribal _____ Private _____ Other: _____

Road Surface: Paved _____ Gravel _____ Sand _____ Native Surface _____ Condition: Good _____ Fair _____ Poor _____

Road Width at Culvert (ft): _____ Location of Low Point: At Stream _____ Other _____ Runoff Path: Roadway _____ Ditch _____

Embankment: Upstream Fill Depth (ft): _____ Slope: Vertical _____ 1:1.5 _____ 1:2 _____ >1:2 _____

Downstream Fill Depth (ft): _____ Slope: Vertical _____ 1:1.5 _____ 1:2 _____ >1:2 _____

Left Approach: Length (ft): _____ Slope: 0% _____ 1-5% _____ 6-10% _____ >10% _____ Ditch Vegetation: None _____ Partial _____ Heavy _____

Right Approach: Length (ft): _____ Slope: 0% _____ 1-5% _____ 6-10% _____ >10% _____ Ditch Vegetation: None _____ Partial _____ Heavy _____

¹ - Fill out for primary culvert (culvert #1). If multiple culverts are used, number each and use embedded table.

Erosion Information

Use a new row for each distinct gully/erosion location. Note prominent streambank erosion within 50 feet of crossing.

Location of Erosion Ditch, approach, or streambank Left or right facing downstream	Erosion Dimensions (ft)			Eroded Material Reaching Stream?		Material Eroded Sand, Silt, Clay, Gravel, Loam, Sandy Loam or Gravelly Loam.
	Length	Width	Depth	Yes	No	
				Yes	No	
				Yes	No	
				Yes	No	
				Yes	No	
				Yes	No	

If there is erosion occurring, can corrective actions, such as road drainage measures, be installed to address the problem? **Y N**

Extent of Erosion: Minor Moderate Severe Very Severe Stabilized

Erosion Notes:

Photos – enter photo number in blank corresponding to location

- Site ID _____
- Inlet _____
- Outlet _____
- Upstream Conditions _____
- Road Approach – Left _____
- Downstream Conditions _____
- Road Approach – Right _____

Summary Information

Would you consider this a priority site? Fish Passage Erosion Why?

Would you recommend a future visit to this site? Yes No **Why?**

Were any non-native invasive species observed at the site? Yes No **If yes, what species were observed?**

Site Sketch

Draw an overhead sketch of crossing. Be sure to mark North on the map and to indicate the direction of flow. Include major features documented on form, such as erosion sites, multiple culverts, scour pool, impounded water, etc.

Additional Information**Comments****Fill Depth (ft):** calculated

Average between upstream/downstream fill depths

Is this a Great Lakes 1st Barrier

Yes No

Head height

Calculated from difference in water depths from inlet and outlet of structure (no longer on form)

Structure Slope

Calculated from difference in inlet invert and outlet invert elevations compared to structure length

Height from road surface to bottom of stream

Calculated from a combination of other height measurements.

Miles Reconnect (Upstream)

Calculated in GIS

Pollutant Loading_____ **Sediment tons/year**_____ **Phosphorous lbs./year**_____ **Nitrogen lbs./year****Passability Score**

0 .5 .9 1

Erosion calculation for each gully in table on page 2 (L * D * W)**Summing gully erosion at bottom of table**

These gully erosion calcs will NOT be included in total loading calculations. They are info only.

Cost Estimate (\$)

\$ _____