

PA Dirt Gravel and Low Volume Road Program—Stream Crossing Evaluation Form




Reviewer Information: Site Information




Date: _____

Reviewer: _____

Entity: _____

Existing Structure (circle):

 round
  oval
  bottomless arch

 box culvert
  footers & bridge
  multiple openings

Other : _____
(describe/draw)

County _____	Township _____
Road Owning Entity _____	Structure Owning Entity _____
Road Name _____	Stream Name _____ <small>"UNT" for unnamed tributary to</small>
Latitude _____ N	Longitude _____ W
Site notes: _____	

Existing Conditions: quantitative assessment

Measuring Bankfull Channel Width: Begin first measurement, outside the area of influence of the structure (preferably upstream and at least 5 bankfull widths away from structure) and in a relatively stable area free from influences that may impact cross section (such as debris jams, floodplain obstructions such as fill/roads/etc.). Additional bankfull widths should be measured so that a total of three (with 5 preferred) are collected upstream of the crossing. The second bankfull width measurement should be collected ½ bankfull width upstream of the first measurement. Continue spacing the width measurements ½ bankfull width upstream of the previous measurement until the total number (3 or 5) is collected. Take preceding measurements and average together.

required

Bankfull width measurements: 1) _____ ft 2) _____ ft 3) _____ ft 4) _____ ft 5) _____ ft

optional

A. Avg. Reference bankfull width _____ ft If it is impossible to obtain reference bankfull widths upstream of the structure, downstream widths can be used if they are taken out of the structure influence area.

B. Existing structure width _____ ft Width of structure at narrowest point. Add structure widths for multiple baseflow openings (not including any elevated floodplain pipes).

C. Structure / Bankfull ratio _____ % Structure width divided by average bankfull width. (Line B divided by line A)

D. Max downstream pool width _____ ft Width of widest spot on plunge pool (if applicable).

E. Max downstream pool depth _____ ft Depth of water in plunge pool at typical flow (if applicable).

F. Vertical Drop at outlet _____ in Drop or "waterfall" from structure outlet to water level in plunge pool at typical flow.

Existing Conditions: qualitative assessment

G. Stream Bank Erosion	upstream	none	slight	moderate	high	severe
	downstream	none	slight	moderate	high	severe
H. Stream Bed Erosion	upstream	none	slight	moderate	high	severe
	downstream	none	slight	moderate	high	severe
J. Stream Bed Deposition	upstream	none	slight	moderate	high	severe
	downstream	none	slight	moderate	high	severe
K. Bank Armoring		unknown	none	intact	failing	

Eligibility for Crossing Structural Replacement with Program Funds

Is the existing structure opening is equal to or less than 7 square feet (equivalent to a 36" diameter round pipe): **NO-see below** **YES-Eligible**

For larger structures, the **all three** criteria below must be met in order to be eligible for replacement with Program funds:

Existing structure to bankfull width ratio of 50% or less. What is the existing structure to bankfull ration (line C above): _____ %

Show signs of streambank erosion. Is stream bank erosion present (line G above): **YES** **NO**

Show signs of streambed erosion/aggradation. Is streambed erosion/aggradation present (line H&J above): **YES** **NO**

Is this stream crossing eligible for replacement with Program funds? YES NO