

# Lehigh Conservation District Road Program Approval Date 5/14/15

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

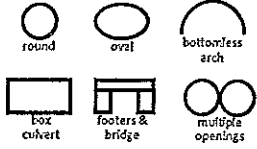
### Reviewer Information: Site Information

Date: \_\_\_\_\_

Reviewer: \_\_\_\_\_

Entity: \_\_\_\_\_

**Existing Structure (circle):**



Others:  
(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

required	<p><b>Measuring Bankfull Channel Width:</b> 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 1/2 bankfull width upstream of the first measurement. Continue spacing the width measurements 1/2 bankfull width upstream of the previous measurement until the total number (3 or 5) is collected. Take preceding measurements and average together.</p>	
	Bankfull width measurements: 1) _____ ft 2) _____ ft 3) _____ ft 4) _____ ft 5) _____ ft	
	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).
optional	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

vertical	G. Stream Bank Erosion	upstream	none	slight	moderate	high	severe
	Erosion of banks immediately upstream and downstream of structure	downstream	none	slight	moderate	high	severe
	H. Stream Bed Erosion	upstream	none	slight	moderate	high	severe
	Evidence of head-cutting at inlet or plunge pool scour at outlet	downstream	none	slight	moderate	high	severe
	J. Stream Bed Deposition	upstream	none	slight	moderate	high	severe
	Evidence of gavel bar formation	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