

LEVEL A CULVERT ASSESSMENT FIELD FORM (5/22/2018)

¹Site ID _____

²Culvert Number _____

³Crew _____

⁴Date _____

CULVERT DESCRIPTION

⁵Material PCC CPC CST SST CAL SPS

SPA PVC TMB MRY OTH

⁶Span _____ ⁷Rise _____ ⁸Water Depth in Culvert _____

⁹Shape RND BOX ARCH SQSH ELL OTH

¹⁰WS Drop _____ ¹¹Drop Location Outlet Inlet Interior

¹²Apron None US DS Both ¹³Total Length _____

¹⁴Culvert Slope _____ ¹⁵Road Fill Depth _____

¹⁶Countersunk Yes No ¹⁷Backwatered Yes No Unk

¹⁸Gate Yes No ¹⁹Rack Yes No ²⁰Fishway Yes No

CHANNEL DESCRIPTION

²¹Bankfull Width _____ ²²Span/Bankfull Width _____

²³Tidal Influence Yes No Unk

PLUNGE POOL DESCRIPTION

²⁴Pool Length _____ ²⁵Pool Maximum Depth _____

²⁶Pool Scour Line Width _____

BARRIER STATUS

²⁷Barrier Yes No Unk

²⁸Method LA LB Fishway Other

²⁹% Passability 0 33 67 100 Unk

³⁰Significant Reach Yes No Unk

³¹Comments _____

LEVEL A FORM INSTRUCTIONS

- 1) Database unique identifier
- 2) Culvert Number: if 1 culvert at site then 1.1, if 2 then 1.2 or 2.2, etc.
- 3) Last name(s) of field review team responsible for data
- 4) Field review date: MM/DD/YYYY format
- 5) Construction material of culvert: PCC = pre-cast concrete, CPC = cast-in-place concrete, CST = corrugated steel, SST = smooth steel, CAL = corrugated aluminum, SPS = structural plate steel, SPA = structural plate aluminum, PVC = plastic, TMB = timber, MRY = masonry, OTH = other
- 6) Width of culvert to nearest 0.01 meter
- 7) Height of culvert to nearest 0.01 meter
- 8) Water depth in culvert to nearest 0.01 meter
- 9) Cross-sectional shape of culvert: RND = round, BOX = square or rectangular, ARCH = bottomless, SQSH = squash (pipe arch), ELL = elliptical, OTH = other
- 10) The difference between any abrupt change in water surface elevation at the inlet, outlet or anywhere within culvert
- 11) Location of hydraulic drop
- 12) Presence and location of apron(s), if any
- 13) Length of culvert to nearest 0.1 meter
- 14) Slope of culvert reported as a percentage. May be positive or negative
- 15) Estimated height of road fill to nearest 1 meter
- 16) Indicates whether culvert outlet invert is embedded at least 20% of culvert rise and streambed material is present throughout entire length of culvert
- 17) Indicates whether there is little to no visible flow throughout entire length of culvert, or the average velocity through culvert is visibly slower than the average velocity in the adjacent channel
- 18) Indicates whether there is a gate associated with culvert
- 19) Indicates whether there is a rack associated with culvert
- 20) Indicates whether there is a fishway associated with culvert
- 21) Width of bank measured where water begins to overflow into floodplain
- 22) Width of culvert divided by bankfull width
- 23) Indicates whether tidal conditions affect culvert hydraulics at any time during fish passage flows
- 24) Length of plunge pool measured from culvert outlet to downstream control
- 25) Maximum depth of plunge pool
- 26) Maximum width of plunge pool measured at scour line
- 27) Barrier status
- 28) Assessment method used to determine barrier status
- 29) Estimated percent passability
- 30) Indicates whether there is 200 linear meters of potential fish habitat upstream and downstream of culvert
- 31) Concise comments pertinent to culvert and an explanation for any attribute where 'Other' is selected