The following material is based principally on *Culvert Fishway Planning and Design Guidelines*, which provide designers with a basis for planning, design and implementation of fish passage facilities at road crossings and other small waterway structures.

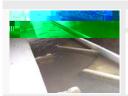
Author Ross Kapitzke
Date April 2010 – VER2.0

Available from <u>www.jcu.edu.au/fishpassagedesign/</u>

Fishway component types for small waterway structures

TS02

The configuration of fish passage facilities at a waterway structure is established on the basis of fish migration barrier characteristics of the structure and fish passage goals and other multipurpose requirements for the site. A number of fishway configuration options comprising several component types may be considered to overcome migration barriers within various hydraulic zones of the structure.



Offset Baffle fishway - Box culverts, aprons and channels

Walamar

series of low baffles fixed to structure base suited to relatively shallow high velocity flow less suited to deep slow water environments provides low velocity / shelter / flow circulation for flows within and surcharging the baffles good self-cleaning and through-flow attributes

Corner "EL" Baffle fishway - Box culverts

series of "L" shaped baffles perpendicular to wall suited to relatively deep low velocity flow less suited to shallow high velocity flow x provides low velocity zones / shelter areas for flows within and surcharging the block ridges suited for use in fishway system with offset baffle

Possible application of fishway component types for particular hydraulic zones of culverts / waterway structures

Fishway component type

Zone D: Culvert inlet and upstream channel

Zone C: Culvert barrel

Zone B: Culvert outlet