Fish Passage Requirements for Waterway Crossings

Engineering Guidelines – CD-ROM

Introducing a CD-ROM based engineering guideline on the design, construction and maintenance of fish-friendly waterway crossing with in-built PowerPoint-based training courses.

The guidelines were written in association with the development of new National guidelines “Why do fish need to cross the road? – Fish Passage Requirements for Waterway Crossings” by Fairfull, S. and Witheridge, G. (2003). Grant Witheridge, a hydraulic engineer and principal author of numerous engineering publications, developed the guidelines to allow engineers and scientists to better apply the latest information on the design of fish-friendly waterway crossings.

The guidelines do NOT refer to dams, locks and weirs.

Features of the CD-ROM include:

- Engineering Guidelines with photos illustrating key issues
- Engineering Guidelines excluding photos to allow the speedy access to technical information
- PowerPoint-based course on how to use the CD-ROM
- PowerPoint-based training course on the design of fish-friendly waterway crossings
- PowerPoint-based training course on aspects of culvert design
- Easy-to-use Microsoft Internet Explorer navigation features

The Engineering Guidelines include:

- Guidelines on the planning, design, construction and maintenance of fish-friendly waterway crossings
- Detailed design guidelines on those aspects of waterway culverts that may influence fish passage
- Introduction to terrestrial passage requirements for waterway crossings
- Discussion on fish-friendly scour protection measures for bridges and culverts
- Introduction to Natural Channel Design principles for channel modifications adjacent to crossings
- Principles of instream sediment control during the construction and maintenance of waterway crossings

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