

RESEARCH

Project 4.1

Project 4.2

Project 4.3

PROJECT 4.5

Main Roads Strategic Alliance

Project Leader: Associate Professor Steve Turton (CRC)

Since 1993, the Rainforest CRC has undertaken a significant number of research projects related to roads and powerline corridors within tropical rainforest areas. While some of this work was integral to core Centre research, other aspects have been tied to specific contracts for research users like the Wet Tropics Management Authority (WTMA) and Queensland Department of Main Roads (QDMR).

KURANDA RANGE ROAD STUDIES

[Kuranda Range Road Upgrade](#)

[CRC findings on integrity](#)

[CRC findings on scenic amenity](#)

REPORTS

[Supplementary Study # 10 - Kuranda Range: Applying Research to Planning and Design Review](#)

[Supplementary Study # 11 - Kuranda Range Proposed Upgrade: Assessment of Net Adverse Impacts](#)

[Supplementary Study # 15 -](#)

In May 2002, a formal alliance was proposed between QDMR and the Rainforest CRC to expand upon roads research to date and apply it to future roads planning, construction and maintenance in the Wet Tropics. The proposal aimed to identify key research needs and opportunities that would both meet QDMR requirements and become part of the Centre's core research program. It also provided an avenue for application of existing Rainforest CRC research in long and medium term environmental monitoring, baseline data, compliance and impact assessment and management extension materials.

LINKS AND DOWNLOADS

[Culvert Fishways Project Description](#)

[Wildlife Surveillance Assessment - Compton Road Upgrade 2005](#)

Prepared in February 2006, a report to the NSW Roads and Traffic Authority prepared by David Bax of Thiess Pty Ltd describes the effectiveness of aerial fauna crossings constructed at the Karuah Bypass north of Sydney, NSW. The structure of faunal rope tunnels was adopted from designs used by the James Cook University research team. [Download report.](#)

Rainforest CRC research into the use of faunal over- and under-passes has also appeared in the journal of the [Wildlife Preservation Society of Queensland](#), *Wildlife Australia Magazine*:

'Bridging the Rainforest Gap', featured in the Summer 2000/2001 edition. [Download the article](#)

[Vegetation and Connectivity Under Bridges](#)

[Supplementary Study # 3 - Water Quality Issues \(CRC Reports are in Appendices D and E\)](#)

(PDF 6.01Mb). PDF file is best viewed using the 'facing pages' feature in Acrobat Reader.

'Under and Over' featured in the Spring 2002 edition. [Download the article](#) (PDF 5.22Mb). PDF file is best viewed using the 'facing pages' feature in Acrobat Reader.

POSTGRADUATE STUDENTS

Kerry O'BRIEN (JCU) Hons

Best practice cut design for rainforest roads in the Wet Tropics World Heritage Area



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