

A 'how to' Guide to Engineering Barrier Mitigation Measures



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Wildlife Movement Solutions (WMS)

- Compton Rd, Kuraby – the real beginning
- Hamilton Rd, McDowall



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Project Methodology

- Identify the problem
- Research the problem
- Considered options
- Design and Construction
- Monitoring



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Identify the Problem

- Road widening / constructing new road
- Minimise environmental impacts



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Research the Problem

- Improve pedestrian, cyclist and motorist safety
- Reduce travel time
- Maintain fauna connectivity
- Flora protection
- Fauna protection



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Considered Options

- Landbridges
- Underpasses / Culverts
(both wet and dry)
- Fauna fencing
- Fauna movement structures
- Fauna and Flora protection



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Landbridges

- Traditional bridge structure
- Steel / Concrete arch



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Underpasses / Culverts



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Fauna Fencing



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Fauna Movement - Structures

- Arboreal crossings



- Glider poles



- Fire breaks



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Flora Protection

- Removal and replanting
- Seed collection
- Revegetation
- Propagation



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Fauna Protection

- Relocate Native Bees
- Fauna boxes



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Design and Construction Compton Road

- Arched landbridge
- Wet and dry culverts
- Arboreal crossings
- Glider poles / Fauna boxes
- Fire breaks
- Revegetation



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Design and Construction Hamilton Road

- Traditional bridge landbridge
- Bridge underpasses
- Glider poles
- Fires breaks
- Relocate Native Bees
- Seed collection and propagation
- Flora removal and replanting



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Monitoring



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Project Outcomes – WMS Usage



Landbridge usage:

- Bandicoots
- Echidnas
- Parrots
- Possums
- Honeyeaters
- Red necked wallabies
- Gliders
- Ornate burrowing frog
- Wallum froglets
- Koalas
- Brood frogs
- Dunnarts



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Project Learnings

- Reliable data
- WMS infrastructure improvements
- Target what works best
- Post construction monitoring
- Compromises



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