

Phase: Pre- Construction

Threatened animal- BTF

Nesting Near the Alignment:

- Avoid clearance/slashing for perimeter fence in breeding season: Feb- June
- Pre-clearance survey before early works commence in this area
- Fencing barriers and toolbox talks
- Minimise clearing of grassland habitat

Phase: Pre- Construction

Threatened animal- BTF and Squatter pigeon

Land Management:

- No construction vehicle access outside TRR4 road reserve on adjacent state land
- Weed control
- Fire management

Phase: Pre- Construction

Threatened animal- BTF and Squatter pigeon

Weed Management:

- Weed wash down for all vehicles coming into and exiting the site

Phase: Construction and Operation

Threatened animal- BTF and Squatter pigeon

Site Access onto adjacent state land restricted by:

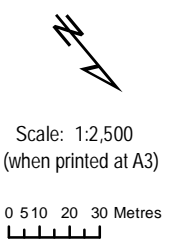
- Fencing of road reserve
- Signage to restrict public access
- Stock deterrent fencing



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Property Boundary, Regional Ecosystem, High Value regrowth - QLD Gov.2013
 Roads, Watercourse - © 2010 PSMA Australia Pty Ltd
 Survey Corridors, Surevs - AECOM, NRA 2013

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Known Weed Locations	Squatter Pigeon AECOM Survey	BTF Breeding Habitats	Potential Habitat for Bare-rumped Sheathtail Bat
NRA Field BTF Sighting and Nest Records (December 2012, April 2013 data)	Squatter Pigeon NRA Survey	Higher Probability BTF Habitat	Roosting (optimal)/foraging
BTF Sightings (AECOM Survey)	TRR4 Project	Higher Probability BTF Supporting Habitat	Roosting (marginal)/foraging
Bog Figwort Population	Extent of Proposed Disturbed Area	Lower Probability BTF	Roosting (very marginal)/foraging
		Lower Probability BTF Supporting Habitat	

TOWNSVILLE RING ROAD SECTION 4

Detailed Design Mitigation