

54 GEORGE ALEXANDER WAY **COOMERA**

REHABILITATION CONCEPT PLAN
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SITE BOUNDARY

DAMS / WATER BODIES

1.

EXISTING BUILDING/ STRUCTURE

2.

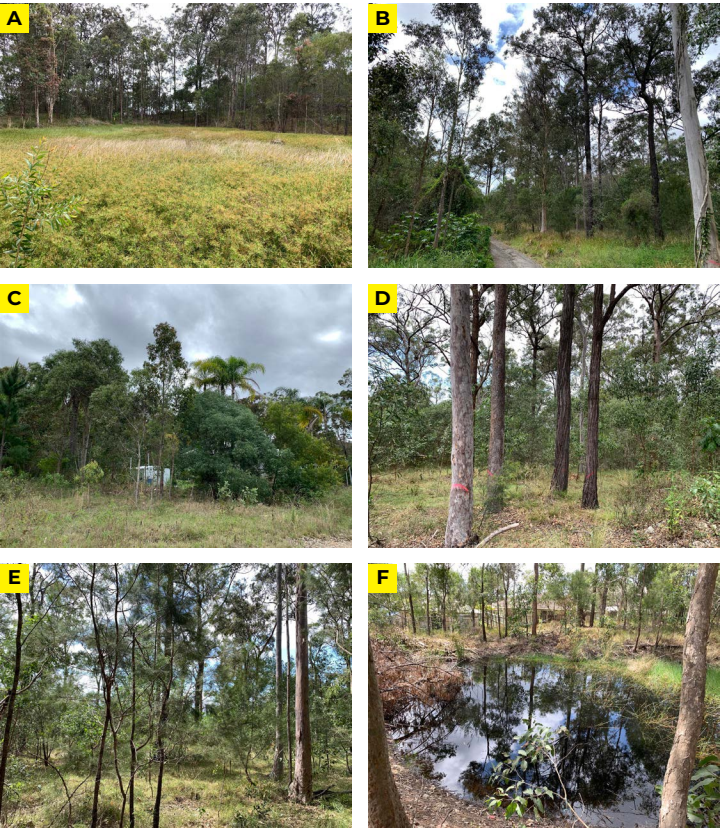
EXISTING VEGETATION THROUGHOUT

3.

ADJACENT PROPERTY

4.

ADJOINING DEVELOPMENT





1. FUTURE ROAD CONNECTION

2. ADJOINING APARTMENT AND LANDSCAPE AREAS.
Refer separate Landscape plans.

3. ADJOINING TOWNHOUSE AREAS
Refer separate Landscape plans.



INDICATIVE EXISTING CANOPY EXTENTS



EXISTING TREES
Retain and protect existing trees throughout. Allow for mulch to structural root zone / around base of trees. Refer SHG VMP for details of specific species and locations.



INDICATIVE NEW TREES



REHABILITATION WORKS AREA
Weed Management to entire zone. Retain existing canopy trees and koala habitat tree regrowth. Manage mid-story and understory per bushfire requirements. Maintain slashed grass areas to understory throughout rehabilitation area. Infill Planting with scattered Koala habitat tree planting in accordance with bushfire requirements.

REHABILITATION METHODOLOGY - SITE WORKS

Following Primary weed management works, areas requiring infill planting (assisted natural regeneration), and larger scale planting (reconstruction and fabrication) can be undertaken. Prior to installation, the following items should be considered:

- Species selection
- Sourcing plant material
- Timing of planting
- Site preparation
- Planting density
- Planting installation

Species Selection

Species selection is critical in achieving the desired ecological restoration outcomes for rehabilitation sites. Planting is typically derived from:

- Local Regional Ecosystem (RE) descriptions.
- Observed site native vegetation.
- Bioretention guideline requirements.
- Climatic and weather conditions observed on site (frost, salt-spray, etc.).
- ‘Pioneer’ species are useful in site stabilisation and encouraging native regeneration.
- Utilising flowering and fruiting species are useful to attract wildlife and result in introduction of seeds.
- Diverse vegetation layers (trees, shrubs, groundcovers).
- Species availability from seed propagation and/ or local nurseries.
- Bushfire site reporting, advice and inputs.

Refer to plant schedule for species and planting densities.

Sourcing Plant Material

There are a number of options for sourcing plant material for revegetation purposes. Propagation from site seed is a good outcome however is often limited by required timing of works. Sourcing planting from local nurseries is the commonly-chosen option and has the following benefits:

- Awareness of genetic considerations when collecting seed.
- Experience with breaking dormancy mechanisms in hard to germinate seeds.
- Highly successful propagation techniques.
- Ability to provide high quality stock to order
- Draw on industry resources.

Timing of Planting

The timing of planting should ideally be aligned with the wet season

in SEQ (summer and autumn). This minimises the need for intensive watering to establishment planting. Planting between February to May is the most beneficial as it also seeks to avoid intense heat periods of summer. Despite this, it is understood planting may occur at various times within rehabilitation areas due to development timing needs.

Site Preparation

Site or planting preparation includes:

- Fencing to exclude grazing animals and people (if required).
- Pre-spraying of exotic grasses and other weeds to planting areas.
- Consideration of source of water for new planting (access tracks, temporary irrigation).
- Arranging delivery of mulch, jute netting and tree guards (if required).
- Treatment of heavily compacted soils by ripping and/or application of gypsum.
- Soil amelioration as required

Planting Density

Plant density is calculated on a zone by zone basis. This allows planting to cater for various requirements including standard revegetation, infill only requirements such as canopy trees at low densities, as well dense bioretention plantings as per Bioretention Technical Guidelines (where/ if applicable). Refer to plant schedule for species and planting densities.

Methods of Ecological Restoration

Consolidation and linking of the habitat will be achieved by way of: (i) assisted natural regeneration in areas of existing regrowth; and (ii) reconstruction to exposed batters/ areas. These methods of ecological reconstruction are described by MBRC (2015b).

2. Assisted natural-regeneration
Assisted natural-regeneration applies to areas capable of regenerating and which may require some intervention to control weeds and / or ameliorate soil. Introduction of plants, seeds, spores and vegetation material may be necessary to help establish a functioning community. The informed inclusion or exclusion of fire may assist natural – regeneration. Assisted natural-regeneration is a preferred restoration method for maintaining local genetic biodiversity.

3. Reconstruction
Reconstruction applies to highly degraded areas not capable of naturally regenerating and where the planting of key plant community specific canopy and pioneer species are necessary to re-establish the original regional ecosystem.

- Extract from Methods of Ecological Restoration (Environmental Areas and Corridors Planning Scheme Policy) (MBRC, 2015)

NOTE: FINAL DETAILS/ SPECIFICATIONS TO BE DETERMINED AT OPERATIONAL WORKS PHASE





TYPICAL ESTABLISHMENT AND MAINTENANCE RESPONSIBILITIES

- Watering to occur to sufficient levels to ensure all plants and turf/ grass/ seeding are actively growing and free from moisture stress. Watering regime to be adaptive to suit site and seasonal needs to achieve long term plant and turf/ grass health and deep rooted systems
- Weed management to all contract work areas to best practices, local government standards and in accordance with Biosecurity Act utilising manual control, mechanical removal and chemical control adapted to site requirements- specifically site waterways including waterway sensitive chemicals
- Restaking of all plant stock as required for effective establishment
- Removal of all staking once plant stock establishment and self supporting
- Repinning all jutemat/ jute netting/ tecmatting
- Repairing site scours including refitting jute matting and/ or rockwork
- Removal of all sediment deposits from works including stormwater devices
- Pest and disease management
- Replacing failed, failing and stolen plants. Replaced plant stock during maintenance periods to be undertaken in accordance with approved documentation. Root/ plant hormone/ fertiliser application at installation and ongoing as required.
- Topping up all soil and mulch to depths specified
- Removal/ trimming of plant growth, formative pruning and dead-wooding to all retained vegetation (including qualified arborist review and approvals to AS4373).
- Ongoing slashing turf and grass areas where required to achieve bushfire management requirements.

PRIMARY REHABILITATION SPECIES MIX

Allowance of scattered koala habitat tree species and ground cover species to infill and supplement plant, in accordance with brushfire requirements to reinforce fauna connectivity to corridor.

Typical species mix to consist of species from RE 12.11.5 & 12.11.24 and species found on site and in adjoining vegetation areas. Refer SHG Ecological Assessment/ report for more detailed site assessment and vegetation structure details.



SPECIES

PLANT FORM

POT SIZE

TREES

1.	EUCALYPTUS Siderophloia - Grey Ironbark	Tree	Tube
2.	EUCALYPTUS tereticornis - Forest Red Gum	Tree	Tube
3.	EUCALYPTUS Seeana - Narrow-leaved gum	Tree	Tube
4.	EUCALYPTUS Crebra - Narrow-leaved Ironbark	Tree	Tube
5.	EUCALYPTUS Microcorys - Tallowood	Tree	Tube
6.	EUCALYPTUS Propinqua - Small-fruited Grey Gum	Tree	Tube

GROUNDCOVERS

7.	CYMBOPOGON refractus - Barbed Wire Grass	Ground	Tube
8.	DIANELLA caerulea - Blue Flax Lily	Ground	Tube
9.	DIANELLA revoluta - Blue Berry Lily	Ground	Tube
10.	EREMOPHILA debilis - Winter Apple	Ground	Tube
11.	HARDENBERGIA Violacea - Purple Coral Pea	Ground	Tube
12.	LEPIDOSPERMA laterale - Variable swordedge	Ground	Tube
13.	LOMANDRA hystrix- Green Mat Rush	Ground	Tube
14.	LOMANDRA longifolia - Mat Rush	Ground	Tube
15.	OTTOCHLOA gracillim - Ottochloa	Ground	Tube
16.	PTERIDIUM esculentum - Bracken Fern	Ground	Tube
17.	THEMEDA triandra - Kangaroo Grass	Ground	Tube

ADDITIONAL SPECIES TO BE DETERMINED AT DETAILED DESIGN PHASE.



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