Landscape & Revegetation Plan Ranger Road, Adare QLD 4343 Lot 191 on CSH2361



Rehabilitation Objectives:
1. Provide a strategy for the rehabilitation and maintenance of the nominated area to achieve remnant status.
2. Revegetate and rehabilitate the nominated areas to using locally endemic species.
3. Treat and eradicate weed species.
4. Minimise the spread of weeds to and from adjacent land.
5. Ensure rehabilitated areas are appropriately maintained.
7. Protect and enhance wildlife movement opportunities including flood free terrestrial fauna movement.

8. Maintain on site vegetation, including rehabilitation, to manage the threat of bushfire exposure and or severity.

LRP01: Cover Page

Site (surveyed)

Lot boundary
Easement

Legend

Plan Contents:

Drawing No.	Title
LRP01	Cover Page
LRP02	Overall Layout Plan
LRP03	Landscape & Revegetation Plan - Stage 1
LRP04	Landscape & Revegetation Plan - Stage 2
LRP05	Sections
LRP06	Planting Details
LRP07a - LRP07b	Revegetation Procedures
RP08	Weed Control Procedures

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Dan Clowes MEIANZ MESA Director Litoria Consulting B App Sc (Env.Sc.) (Hons) Dip. Arb. (AQF Level 5 Arborist)

Plan References:

NATSPEC Specification - 0253 Landscape - Planting	
NATSPEC Specification - 0251 Landscape - Soils / 0252 Landscape - Soil Preparation	
NATSPEC Specification - 0255 Landscape - Plant Procurement	
NATSPEC Specification - 0256 Landscape - Establishment	
NATSPEC Specification - 0259 Landscape - Maintenance	
Appendix C of the South East Queensland Ecological Restoration Framework	
Best Practice Erosion & Sediment Control (IECA Australasia, November 2008)	
CORVEG Regional Ecosystem Technical Descriptions	
BSD-9051 Planting General Notes	
BSD-9053 Planting - Typical Tree, Shrub and Tubestock	
Development Permit No. 2606 of 2010 (In the Planning and Environment Court, 28/02/2014) - Condition 10.	

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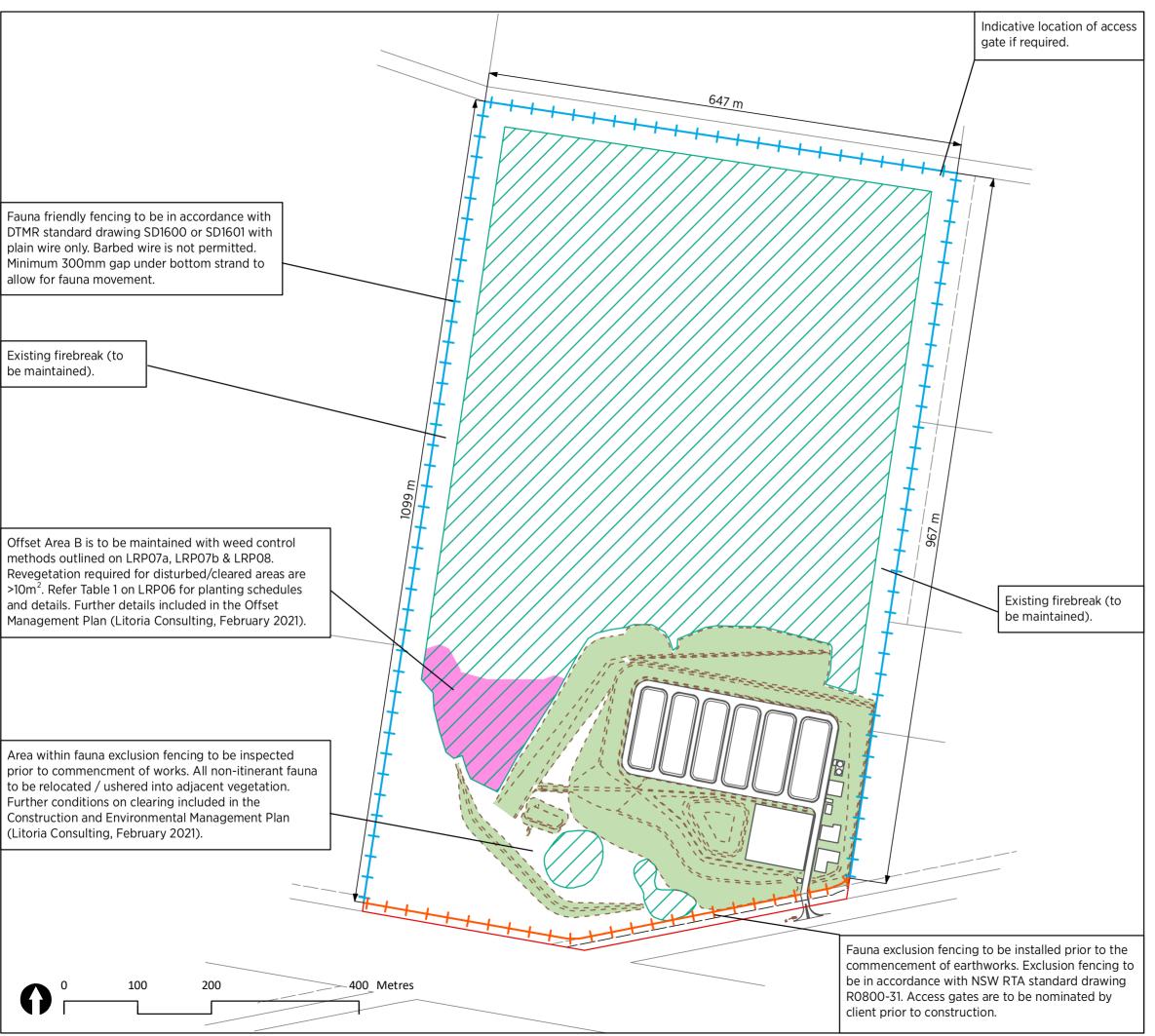
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DWG Ref.	20076 LRP01
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LRP02: Overall Layout Plan

Legend Site (surveyed) Landscaping and revegetation treatments Adjacent cadastre (surveyed) Proposed treatments (Refer LRP03 & LRP04 for Lot boundary details) -- Easement Offset area B Proposed works + Fauna exclusion fence Buildings / plant area + Fauna friendly fence - Earthworks -- Easement (new)

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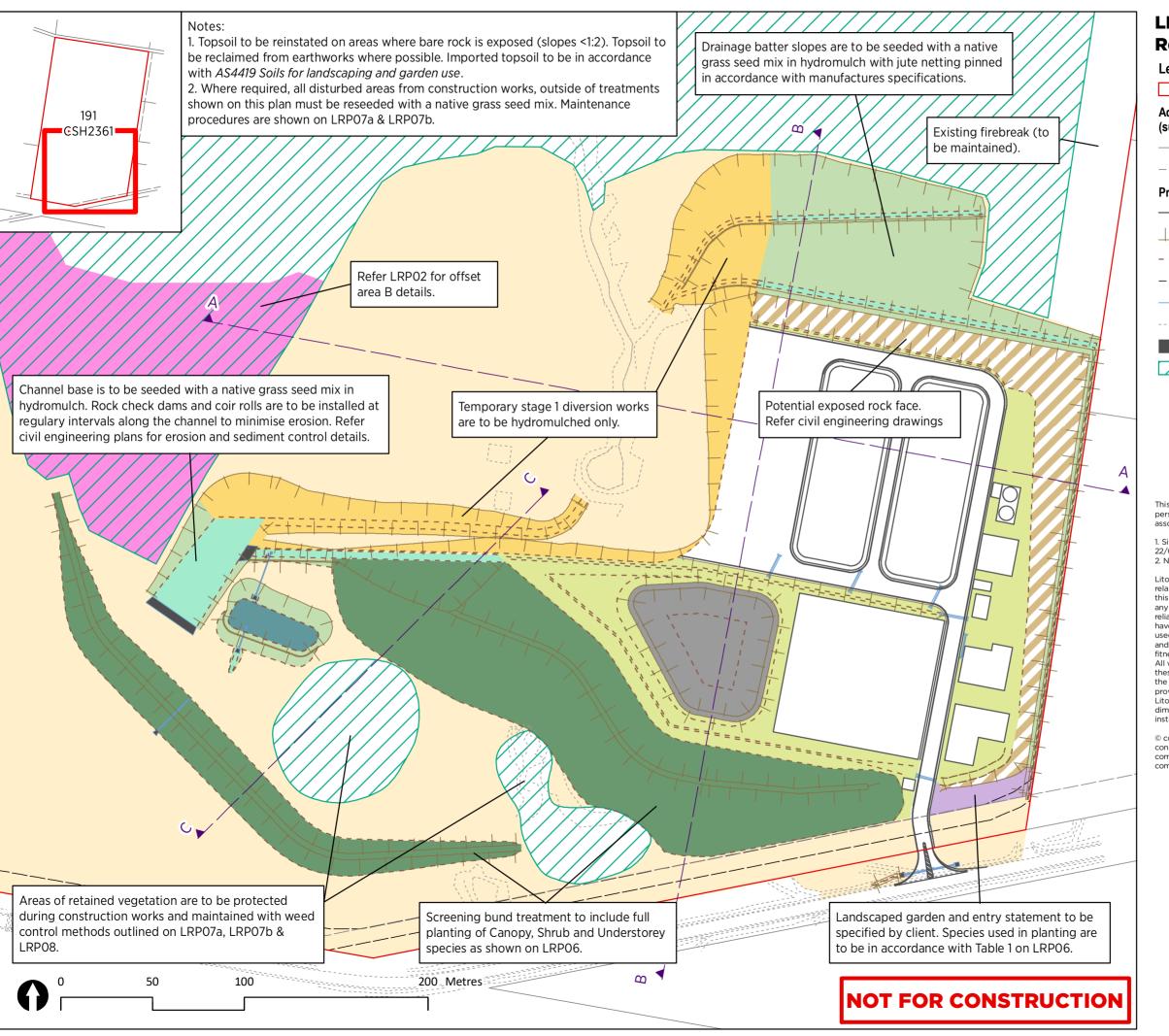
Retained vegetation

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LRP03: Landscape & Revegetation Plan - Stage 1

Legend

Site (surveyed)

Adjacent cadastre (surveyed)

—— Lot boundary

-- Easement

Proposed works (Stage 1)

Buildings / plant area

____ Top of batter

- - - Bottom of batter- - Easement (new)

---- Stormwater

Existing features

Scour protection

Retained trees

Landscaping and revegetation treatments (Stage 1)

Screening amenity bund (2.55ha)

Drainage slopes (1.23ha)

Exposed rock face (slopes >1:2)

Channel base (0.30ha)

Garden and entry statement (0.07ha)

Maintained grass (includes pathways between buildings) (1.18ha)

Bioretention basin (Refer civil engineers drawings)

Evaporation pond (Refer civil engineers drawings)

Offset area B
Temporary diversion
(1.07ha)

Disturbed reseed (where required)

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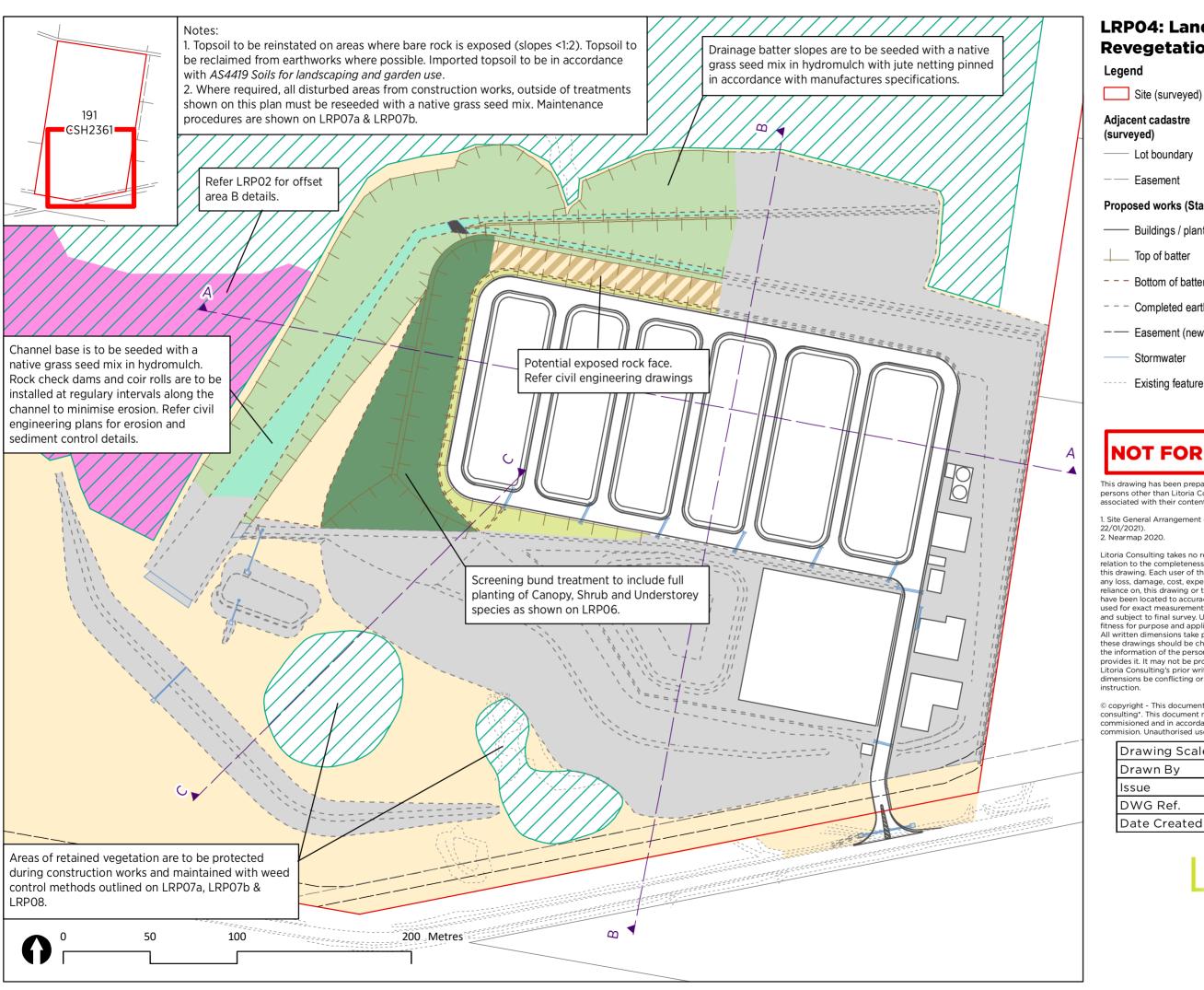
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LRP04: Landscape & Revegetation Plan - Stage 2

Legend

Scour protection Retained trees Landscaping and revegetation

treatments (Stage 2)

>1:2)

Screening amenity bund

Drainage slope / rock face (where required slopes

Channel base (0.31ha)

Maintained grass (0.21ha)

Lot boundary

(0.77ha) Proposed works (Stage 2) Drainage slope (1.65ha)

Buildings / plant area

Top of batter

Bottom of batter

Completed earthworks

Easement (new) Stormwater

Existing features

Offset area B Disturbed reseed (where

required) Works completed as part of stage 1

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Notes: 1. Refer to drawings LRP03 and LRP04 for relevant details of the sections shown on this plan. 2. Vegetation shown on this plan is indicative only. It is shown to demonstrate the potential vegetation structure at full maturity. 3. Existing vegetation and plant treatments not shown for clarity. bdy Covenant bdy Screening bund roperty Drainage slope Plant area (Stage 2) Plant area (Stage 1) Drainage 🕹 and channel slope No interference with Existing surface Design surface existing vegetation (Offset area B). Section A-A Covenant bdy Screening bund Property bdy Plant area (Stage 1) Evaporation pond Drainage slope No interference with Design surface existing vegetation Existing surface Section B-B Plant area (Stage 2) Screening bund (Stage 1) Screening bund Retained vegetation No interference with existing vegetation

Section C-C

Design surface

Existing surface

LRP05: Sections

Legend	
	Existing surface
	Design surface

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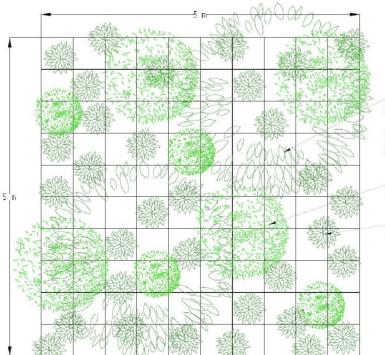


Table 1: Screening Amenity bund treatment

Botanical Name	Common Name	Planted Size	Planted density
Canopy			
Angophora leiocarpa	Smooth-barked Apple	75mm	
Corymbia citriodora subsp. variegata	Spotted Gum	75mm	
Corymbia intermedia	Pink Bloodwood	75mm	1/9m2
Eucalyptus creba	Narrow-leaved Ironbark	75mm]
Eucalyptus tessellaris	Moreton Bay Ash	75mm	
Eucalyptus tereticornis	Queensland Blue Gum	75mm	
Mid-storey		.	
Acacia disparrima subsp. disparrima	Hickory Wattle	75mm	
Acacia leiocalyx	Early Black Wattle	75mm	
Allocasuarina luehmannii	Bull Oak	75mm	
Allocasuarina torulosa	Forest Oak	75mm	1/3m2
Alphitonia excelsa	Soap Tree	75mm	
Brachychiton populneus	Kurrajong	75mm	
Hovea acutifolia	Purple Pea Bush	75mm	
Jacksonia scoparia	Dogwood	75mm	
Pittosporum angustifolium	Weeping Pittosporum	75mm	
Groundcovers	•		-
Aristrida vagans	Threeawn Speargrass	75mm	
Cymbopogon refractus	Barbed Wire Grass	75mm]
Dianella revoluta	Blue Flax-lily	75mm]
Entolasia stricta	Wiry Panic	75mm	
Eremochloa bimaculata	Poverty Grass	75mm	0/10
Eremophola debilis	Winter Apple	75mm	2/1m2
Imperata cylindrica	Blady Grass	75mm	
Hardenbergia violacea	Native Sarsaparilla	75mm]
Lomandra longifolia	Mat Rush	75mm]
Themeda triandra	Kangaroo Grass	75mm	

Table 2: Native grass seed mix

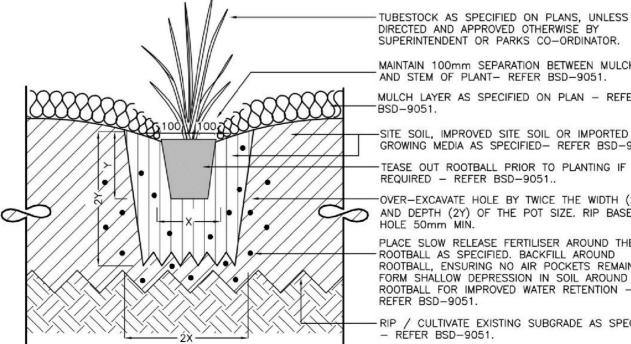
Botanical Name	Common Name	Application
Groundcovers	•	•
Aristrida vagans	Threeawn Speargrass	
Cymbopogon refractus	Barbed Wire Grass	
Entolasia stricta	Wiry Panic	To be
Eremochloa bimaculata	Poverty Grass	included in hydromulch
Imperata cylindrica	Blady Grass	mix
Lomandra longifolia	Mat Rush	
Themeda triandra	Kangaroo Grass	



Sample Planting Layout

Canopy planting at 1 per 9 sq. metres. Canopy species not be planted within 3 metres of any building Shrub layer planting at 1 per 3 sq. metres Groundcover planting at 2 per 1 sq. metre.

(to be acheived by off-maintenance).



TUBESTOCK AS SPECIFIED ON PLANS, UNLESS DIRECTED AND APPROVED OTHERWISE BY SUPERINTENDENT OR PARKS CO-ORDINATOR.

MAINTAIN 100mm SEPARATION BETWEEN MULCH AND STEM OF PLANT- REFER BSD-9051.

MULCH LAYER AS SPECIFIED ON PLAN - REFER BSD-9051.

GROWING MEDIA AS SPECIFIED- REFER BSD-9051, TEASE OUT ROOTBALL PRIOR TO PLANTING IF

REQUIRED - REFER BSD-9051.. OVER-EXCAVATE HOLE BY TWICE THE WIDTH (2X)

AND DEPTH (2Y) OF THE POT SIZE. RIP BASE OF HOLE 50mm MIN.

PLACE SLOW RELEASE FERTILISER AROUND THE ROOTBALL AS SPECIFIED. BACKFILL AROUND ROOTBALL, ENSURING NO AIR POCKETS REMAIN. FORM SHALLOW DEPRESSION IN SOIL AROUND ROOTBALL FOR IMPROVED WATER RETENTION -REFER BSD-9051.

RIP / CULTIVATE EXISTING SUBGRADE AS SPECIFIED - RÉFER BSD-9051.

Tubestock Planting Detail (BSD-9053)

LRP06: Planting details

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Table 3: Revegetation Procedures

Activity	Mar	nagement Response	Responsible Party
Appointment of contractor	1	Appointment of contractor with demonstrated experience in bushland rehabilitation. Relevant qualifications include a certificate in Conservation Land Management - natural Area Restoration or a degree in a related field such as ecology or vegetation management. Contractors must hold applicable licences such as: - Commercial operator's licence (ground application of herbicides) issued under the <i>Agricultural Chemicals</i>	Project Manager
		Distribution Control Act 1966; - Senior First Aid certificate; - White Card i.e. General Safety Induction (Construction Industry); and,	
Review Rehabilitation	1	- Relevant Ecoaccess permits issued by the relevant State department. Rehabilitation Plan must be reviewed by contractor prior to commencement of site work.	Project Manager, Contractor
Plan	2	All relevant personnel sign a register noting that they have reviewed and will comply with the requirements of the Rehabilitation Plan.	Project Manager, Contractor
Rehabilitation	1	Staging to be in accordance with LRP03 & LRP04 of this plan.	Contractor
staging	2	All stages of rehabiliation works are to be completed prior to establishment period. 24 month maintenance period to include all stages of rehabilitation.	Contractor
	3	Prior to commencement of any stage, spotter/catcher is to inspect stage area. Observed fauna is to be relocated outside of the stage boundary into already completed rehabilitation areas or adjcent vegetation.	Contractor / Fauna Spotter Catcher
	4	Any amphibians encountered during inspections, works or monitoring are to be handled in accordance with the <i>Interim hygiene protocol for handing amphibians</i> (DEHP).	Fauna Spotter Catcher
Site preparation	1	Bare topsoil in rehabilitation areas will be appropriately prepared prior to planting.	Contractor
	2	Bare soil in rehabilitation areas affected by earthworks is to be tined to a minimum depth of 300mm prior to planting and covered with 200mm reclaimed topsoil.	Contractor
	3	Import topsoil similar to naturally occurring topsoil, suitable for the establishment and on-going viability of the selected vegetation, free of weed propagules and contaminants, and which achieves the requirements of AS 4419 Soils for landscaping and garden use.	Contractor
	4	Avoid differential subsidence and excess compaction and produce a finished topsoil surface which has the following characteristics:	Contractor
	а	Finished to design levels.	Contractor
	b	Smooth and free from stones or lumps of soil.	Contractor
	С	Graded to drain freely, without pending, to catchment points.	Contractor
	d	Graded evenly into adjoining ground surfaces.	Contractor
	е	Ready for planting.	Contractor
	5	In areas of exposed soil, install mulch which is free of deleterious and extraneous matter such as soil, weeds and sticks.	Contractor
	6	Mulch is to be from native trees removed from site where possible. Otherwise native organic mulch is to be imported in accordance with AS 4454-2012 Composts, soil conditioners and mulches.	Contractor
Erosion and sediment	1	Temporary erosion and sediment control fencing to be installed in accordance with Best Practice Erosion and Sediment Control (IECA Australia, November 2008).	Contractor
Adaptive management,	1	Project Ecologist to conduct regular inspections to ensure compliance with procedures outlined in this plan.	Project Ecologist
monitoring and compliance	2	Project Ecologist to issue notice of compliance to contractor for non-conforming works and any remedial works to ensure compliance.	Project Ecologist
Plant procurement	1	Plant species and sizes to be supplied in accordance with Table 1.	Contractor
procurement	2	Plants will be supplied in weed-free containers of the required size. Open rooted stock is not to be supplied. All plants are to be healthy and vigorous. Root bound, diseased and poor stock will not be accepted.	Contractor
	3	Supply plants with foliage size, texture and colour at time of delivery consistent with the size, texture and colour shown in healthy specimens of the nominated species.	Contractor
	4	Supply plants with extension growth consistent with that exhibited in vigorous specimens of the species nominated.	Contractor
	5	Supply plants free from damage and from restricted habit due to growth in nursery rows.	Contractor
	6	Supply plants free from stress resulting from inadequate watering, excessive shade or excessive sunlight experienced at any time during their development.	Contractor
	7	Supply plants that have been grown and hardened off to suit the conditions that could reasonably be anticipated to exist on site at the time of delivery.	Contractor
	8	Supply plants with foliage free from attack by pests or disease.	Contractor
	9	No single species shall constitute more than 30% of the total individuals planted.	Contractor
	10	All plant material is to be sourced from local provenance stock.	Contractor
	11	Plant substitution is not permitted and alternative species must be confirmed with Litoria Consulting and/or	i

Activity	Mar	nagement Response	Responsible Part
Planting	1	Do not plant in unsuitable weather conditions such as extreme heat, cold, wind or rain. In other than sandy	Contractor
	<u>_</u>	soils, suspend excavation when the soil is wet, or during frost periods.	
	2	Planting of designated areas in accordance with the planting schedule, densities and planting detail described in this Rehabilitation Plan.	Contractor
	3	Planting layout of designated areas requires a random planting layout, in accordance with the Sample	
		Planting Layout, Tubestock Planting Detail shown in this Rehabilitation Plan.	
	4	Generally planting holes for trees are to be a minimum of 1.5 times the diameter of the rootball and twice	Contractor
	_	the depth of the rootball.	Contractor
	5	Planting pit is to have roughened sides and decompacted base.	Contractor
	6	Install water retention crystals to manufacturer's specifications (approximately 5 grams per plant).	Contractor
	7	Remove the plant from the container with minimum disturbance to the root ball, ensure that the root ball is	
		moist and place it in its final position, in the centre of the hole and plumb, and with the top soil level of the	Contractor
	<u>_</u>	plant root ball level with the finished surface of the surrounding soil.	
	8	Backfill with topsoil mixture. Lightly tamp and water to eliminate air pockets. Ensure that topsoil is not placed over the top of the root ball, so that the plant stem remains the same height above ground as it was	Contractor
		in the container.	Contractor
Weed control	1	Prior to the commencement of weed removal / control, contractor to inspect site to confirm weed species	6 1 1
		and/or extents for control.	Contractor
	2	Weed species / extents are flagged on-site (as required).	Contractor
	3	Weed control, subject to site monitoring, undertaken every 3 months following planting and carried out in	Contractor
		accordance with requirements listed in this Rehabilitation Plan.	Contractor
	4	During the establishment and 12 month maintenance period all rehabilitation treatments shall be	Contractor
	F	maintained in a weed free condition.	
	5	Weed control is carried out in accordance with best practice methods according to the requirements of individual species and/or environmental conditions as specified in Table 4 and Table 5.	Contractor
	6	Weed control will be undertaken in a manner which does not promote erosion or instability of soil,	_
		especially in waterways or high velocity flow zones.	Contractor
	7	Avoid application of herbicides on windy days or if rain is likely to follow within 12 hours.	Contractor
	8	Apply herbicides:	Contractor
	a	To the manufacturer's instructions and material data and safety sheets.	Contractor
	b	When the weather is humid with moderate temperatures and maximum sunlight.	Contractor
	С	When the ground has adequate soil moisture.	Contractor
	d	Where in close proximity to waterways, undertake weed control in accordance with the following	Contractor
	u	quidelines:	
		1. Do not spray herbicides over waterbody.	
		2. Direct spray away from waterbody where possible.	C
		3. Spray only to the extent of covering foliage with droplets.	Contractor
		4. Spray when weather is calm.	
		5. Use a flat fan nozzle and low pump pressure to reduce likelihood of spray drift.	
	_	6. Do not spray when rain is forecast within 6 hours.	
	9	Undertake any 'make good' works arising from meetings with either Council or Litoria Consulting, resulting in no declared plant pests or environmental weeds (i.e. 0%).	Contractor
stablishment	1	Ensure the general appearance and presentation of the landscape and the quality of plant material at date	
		of practical completion is maintained for the full planting establishment period.	Contractor
	2	Replace failed, dead and/or damaged plants at maximum 3 week intervals as necessary throughout the	Contractor
	_	full plant establishment period.	Contractor
Vatering	1	Thoroughly water the plants before planting, immediately after planting, and as required to maintain	Contractor
	2	growth rates free of stress.	Ct
	\vdash	Subject to prevailing weather conditions, watering to occur:	Contractor
	a	Daily for first week (5 waterings)	Contractor
	b	3/week for weeks 2-4 (9 waterings)	Contractor
	С	2/week for weeks 5-8 (8 waterings)	Contractor
	3	Manually water all planting areas, soaking to a depth of 300 mm. Avoid frequent dampening of the	Contractor
	\vdash	surface. Allow the surface of the soil to partially dry out between waterings.	COHLICTOR
	4	Water at times of day to minimise water evaporation loss. Do not water during the hottest period of	Contractor
		Summer days.	

LRP07a: Revegetation procedures

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Issue	В
DWG Ref.	20076 LRP07a
Date Created	26/02/2021



Table 3: Revegetation Procedures (cont)

Activity	Management Response		Responsible Party		
Maintenance	1	Maintain appropriate planting densities and replace dead / dying / diseased stock every 3 months.	Contractor		
	2	Provide replacement plants as follows:	Contractor		
	a	Of the same species and size listed in Table 1 & Table 2.			
	b	Of uniformly high quality stock equal to the best commercially available.	Contractor		
	С	Representative of optimum growth for the species as restricted by the container size.	Contractor		
e Without signs of have		With a balanced root system in relation to the size of the plant and conducive to successful transpiration. Inspect the root conditions of plants by knocking plants from their containers.	Contractor		
		Without signs of having been stressed at any stage during their development due to inadequate watering, excessive shade/sunlight, suffered physical damage or have restricted habit due to growth in nursery rows.	Contractor		
	9 Well rooted and without any indication of having been restricted (pot bound) or damaged at any time.		Contractor		
			Contractor		
			Contractor		
	3	Water to a depth of 300 mm. Avoid frequent dampening of the surface. Allow the surface of the soil to partially dry out between waterings. Water at times of day to minimise water evaporation loss. Do not water during the hottest period of Summer days.	Contractor		
	4	Provide progress report to Council at minimum 12 months after acceptance on-maintenance.	Contractor		

Table 4: Maintenance and Monitoring Procedures

Task	Objective	Action	Timing	Maintenance frequency	Responsible Party
	1	laccordance with this I andscape &	Prior to completion of maintenance period	Every 3 months during maintenance period	Current owners / proprietors of the land
areas	restoration areas (i.e. 0%)	laccordance with this I andscape &	Prior to completion of maintenance period	Every 3 months during maintenance period	Current owners / proprietors of the land
Establishment and survival of all plants		Replacement or supplementary planting in accordance with this Landscape & Rehabilitation Plan.	Prior to completion of maintenance period	Every 3 months during maintenance period	Current owners / proprietors of the land
Maintain appropriate planting densities	Planting densities are in accordance with this Landscape & Rehabilitation Plan.	Injanting in accordance with this	Prior to completion of maintenance period	Every 3 months during maintenance period	Current owners / proprietors of the land
Rubbish removal	No rubbish within restoration areas	Remove rubbish and dispose offsite.	Prior to on-maintenance inspection.	-	Contractor / current owners / proprietors of the land

Table 5: Performance Outcomes

Period	Weed content	Planting densities	Structure, growth & health	Diversity
On-maintenance inspection	<20%	-80% (±5%) of target density	Species from canopy, shrub and understorey present.	Planted species in accordance with LRP06, with no species to constitute more than 30% of planted individuals.
Off-maintenance inspection	<10%	-90% (±5%) of target density	Species from canopy, shrub and understorey present, exhibiting healthy plant growth typical for 24 month for each species.	Planted species in accordance with LRP06, with no species to constitute more than 30% of planted individuals.

LRP07b: Revegetation procedures

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Issue	В
DWG Ref.	20076 LRP07b
Date Created	26/02/2021



Table 6: Weed Control Procedures

Method	Details
Complete removal	This technique is used for plants which regrow from bulbs, tubers or other plant parts, such as runners. Remove all plant parts, including roots by hand pulling. Plant parts should be removed from the site and disposed of via landfill or composting.
Stem scraping	This method is suitable for treating small shrubs and vines with thin and relatively soft bark tissue, which are actively growing and not stressed. Stem scraping or scrape and paint is perfect for treating vine species, especially Madeira Vine. The aim of this technique is to remove a small portion of the bark. This will allow the herbicide to penetrate into the plant's sapwood travelling to the tubers and effectively destroying the plant. Using the knife, scrape away 100 millimetres to expose the sap wood. Immediately (within 15 seconds) apply the herbicide to
	the exposed stem. Failure to apply the herbicide immediately will result in the plant sealing itself off and not all the herbicide to effectively penetrate into it.
Cut stump	This method is a quick and effective way of treating small shrubs, large trees, woody plants and vines without aerial tubers. This method allows accurate placement of the herbicide with minimal hazard to the environment and the operator. The intention of this method is to apply the herbicide to the actively growing plant sapwood. The herbicide will move through the plant into its roots and effectively kill it.
	Using the saw, machete, cane knife or secateurs, cut the plant at least 150mm above the ground. Immediately (within 15 seconds) apply the herbicide to the base of the stump. Failure to apply the herbicide immediately will result in the plant sealing itself off and not allow the herbicide to effectively penetrate into it.
	This technique is suitable for treating grasses, herbs and shrubs up to 6 metres tall and involves spraying individual and small clumps of weeds with diluted herbicide.
	Avoid spraying on rainy or windy days and make sure the plants are actively growing. Ideal conditions for spraying are immediately after rain and once all the dew has evaporated.
Overall wet spray	In terms of application technique: 1. Spray close to the target plants to avoid spray drift onto other valuable (i.e. native) plants.
	2. Spray to cover all leaves and stems to the point of visible wetness.
	3. Use short sweeping strokes.
	4. Start from the far corner of the infestation working away from sprayed areas.
	5. Be systematic to avoid spraying the same area twice.

Table 7: Weeds & Recommended Control

Scientific Name	Common Name	Control Method
Bidens pilosa	Cobbler's Pegs	Complete removal
Cirsium vulgare	Spear Thistle	Overall wet spray
Conyza bonariensis	Flaxleaf Fleabane	Overall wet spray
Gomphocarpus physocarpus	Balloon Cotton Bush	Overall wet spray
Gomphrena celosioides	Gomphrena Weed	Overall wet spray
Lantana camara	Lantana	Cut stump, stem scraping
Lantana montevidensis	Creeping Lantana	Cut stump, stem scraping
Melinis repens	Red Natal Grass	Overall wet spray
Optunia stricta	Prickly Pear	Complete removal
Paspalum dilatatum	Paspalum	Overall wet spray, slashing and mowing
Verbena bonariensis	Purpletop	Overall wet spray

LRP08: Weed control procedures

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Drawing Scale	NA
Drawn By	JA
Issue	В
DWG Ref.	20076 LRP08
Date Created	26/02/2021

