PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL



Approval no:DEV2017/887Date:4 May 2018





Natural Environment Site Strategy

Mountain Ridge Road, South Maclean 18 October 2017 7344

surveying 🛭 town planning 🖷 urban design 🖉 environmental management 📥 indscape architecture



Document Control

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Reports and/or Plans by Others

Reports and/or plans by others may be included within this Natural Environment Site Strategy to support the document.



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I. Introduction

I.I. Requirements of site strategy

This Natural Environment Site Strategy (NESS) has been compiled as per anticipated approval requirements for **Mountain Ridge Pty. Ltd.'s** South Maclean Project. While not in response to approval conditions, this NESS has been prepared based on anticipated requirements with reference to a number of approvals issued in the area and based on feedback from **Economic Development Queensland.** The following components are included within this NESS:

- i. outline measures to conserve and enhance the site's biodiversity values (areas of ecological significance, waterways and vegetation management);
- ii. identify strategies to avoid, minimise and mitigate the clearing of remnant vegetation containing endangered regional ecosystems where proven by ground truthing to be viable;
- iii. identify management plans to be provided to address the clearing of non-viable remnant vegetation containing endangered regional ecosystems;
- iv. identify rehabilitation strategies for any corridors of native vegetation to improve habitat extent and wildlife movement;
- v. identify any buffering to areas of Significant Biodiversity Values and which have associated conservation, biodiversity, habitat or scenic amenity values;
- vi. identify strategies for fauna and flora management of the site, and determine corridors, proposed road crossing designs for expected fauna utilisation and rehabilitation areas (such as for koala habitat);
- vii. Detail the measures outlining how and when Koala habitat obligations for the Greater Flagstone PDA as detailed in the PDA Guideline No. 17 Remnant Vegetation and Koala Habitat Obligation in Greater Flagstone and Yarrabilba PDAs will be delivered;
- viii. identify strategies to prevent land degradation and the management of dispersive/sodic soils;
- ix. identify strategies to rehabilitate major watercourses;
- x. identify strategies for bushfire management;
- xi. identify strategies for pest and weed management;
- xii. identify strategies for monitoring vegetation rehabilitation; and
- xiii. identify strategies for rehabilitation of stream banks of major watercourse areas previously disturbed by man-made intervention to create riparian stability

This overarching site strategy, as amended from time to time, is intended to guide future development decisions in relation to the Mountain Ridge Road, South Maclean Development.



Administration Definitions

I.2. In this site strategy:

Developer	means an entity with effective control of the development of a parcel of land within the Application Area.
Application Area	Refer to Plan 1 in Appendix 1 .
Guideline 14	means PDA Guideline no. 14 for Environmental values and sustainable resource use (May 2015)
Guideline 17	means PDA Guideline no. 17 for Remnant vegetation and koala habitat obligations in Greater Flagstone and Yarrabilba PDAs (May 2015)
ІСОР	means the Infrastructure Charging Offset Plan Greater Flagstone Urban Development Area (July 2013).
EDQ	means the Minster for Economic Development Queensland established under the Economic Development Act 2012, which supersedes the Urban Land Development Authority and repeals the Urban Land Development Authority Act 2007 (Qld)
PDA Development Scheme	means the Greater Flagstone Urban Development Area Development Scheme (October 2011)



2. Structure

2.1 This site strategy is to be read in conjunction with the reports, Whole of Site Strategies and Infrastructure Master Plans referenced in the Context Plan(s) over the relevant parts of the Application Area (and subsequent revisions and addendums to the same).

2.2 This Overarching Site Strategy for the management of the Natural Environment is set out in the following structure:



ONGOING MONITORING, REPORTING, AND AMENDMENT



3. Guidelines and Relevant Information

- 3.1 This Natural Environment Site Strategy (NESS) is prepared within the parameters of Guideline 14 and Guideline 17. Site specific alterations or legislative departures from the above are outlined in **Sections 3 & 4** of this NESS.
- 3.2 The Application Area does not contain ground-truthed endangered regional ecosystems. Refer to Plan 3 (Appendix 1) for the Ground Truthed Remnant Vegetation that shows the Regional Ecosystems rectified on-site.
- 3.3 The Application Area contains Koala habitat areas, defined in Guideline 17 as:

An area mapped on State Planning Policy 2/10: Koala Conservation in South East Queensland, SEQ Koala Protection Area Koala Habitat Values maps as:

- bushland habitat; or
- having high and medium value suitable for rehabilitation habitat types.

Refer to **Plan 3 (Appendix 1)** for the current Koala Habitat Values Mapping.

- 3.4 It is noted that the Koala Habitat Values Mapping covering the Application Area was completed at the GIS level. Section 7 of this NESS includes a process and method for amendment of Koala Habitat Values Mapping that is generally consistent with the process and method for amendments to mapping under Schedule 11 Part 4 of the *Planning Regulation 2017*.
- 3.5 References (including references in Guideline 14 and Guideline 17) to an Act, policy, mapping or other document shall be applied as the Act, policy, mapping or document as at 10 October 2017 or as specified herein.
- 3.6 No offsets are required for Matters of Local Environmental Significance.
- 3.7 Site and project specific Bushfire Hazard Assessments and Management Plans will be prepared and submitted for endorsement / approval. The outcomes and requirements of these plans will consider the strategies adopted in this NESS.
- 3.8 Notwithstanding any of the requirements of this NESS, the Developer will not be required to perform any rectification works to parts of the site that have been transferred / dedicated to other parties and accepted off maintenance.



4. Strategies

4.1 Natural Environment Site Strategies – Flagstone Creek Corridor

Site strategies have been developed to manage environmental and development outcomes for all land included within this application area. The site strategies include 6 columns listed as Element, Overall Outcomes, Strategies / Actions, Design Standards / Resources, Timing (Indicative) and Achievement Criteria. **Mountain Ridge Pty Ltd** is responsible for the implementation, monitoring and reporting for all site strategies. For most elements strategy outcomes vary for both land use areas.

For each element, the "avoid, minimise, mitigate and restore or offset" hierarchy has been adopted. It is noted that the **Mountain Ridge Pty Ltd** South Maclean NESS is not preceded by a higher level approval and thus does not link each strategy back to an approval condition as per the majority of NESS applied within the PDA.

Riparian Zone

The following Overall Outcomes and Design Standards apply to works within and adjoining the designated Riparian Zone:

- Secure and dedicate/transfer to Council a robust and sustainable portion of the site retaining the highest quality ecological values for conservation purposes
- Undertake ecological restoration and waterway corridor restoration measures prior to dedication to Council
- Allow for controlled passive nature based recreational uses

Development Land

The Development Land is defined as the balance site area that is not included in the designated Flagstone Creek Corridor. The majority of this area will be developed to a minimum net residential density of 17 dwellings per hectare; however, there may be opportunities to retain environmental values in open space subject to earthworks and servicing requirements. It is noted that development at this density is generally prohibitive of the retention of major or functional areas of environmental values. This whole of site strategy seeks to retain the highest ecological values within the designated Riparian Zone of the Flagstone Creek Corridor (**Appendix 2**).

The following Overall Outcomes and Design Standards apply to the Development Land:

- Ensure systems and processes for assessment, reporting, protection and management are based on leading practice ecological guidelines and relevant legislative frameworks
- Explore and detail specific opportunities to retain ecological features throughout the site by incorporating detailed environmental data into the site design process
- Outlines the legislative requirements for all potential or actual threatened plants and animals as scheduled at the State Government and Commonwealth Government Level.

District Park

For District Park outcomes and design standards refer to the Landscaping Plan.



Natural Environment Site Strategies

Element	Overall Outcomes	Strategies / Actions	Design Standards / Resources	Timing (Indicative)	Achieve
Survey, Identification & Reporting	 Identify Significant Biodiversity Values within and adjoining the Development Land 	 Desktop assessments using Local, State and Commonwealth environment databases and mapping Robust field surveys that are appropriately timed and conducted for expected biodiversity values Use the information surveyed and identified in the Significant Biodiversity Values assessment and Ecological Assessment Report of the Flagstone Creek Corridor to prioritise environmental features 	 Where suitable, parts of the following documents and standards will assist in measuring the Overall Outcome: Guideline 14 PDA Development Scheme State and Commonwealth survey guidelines including: EPBC Significant Impact Guidelines, including specific guidelines for expected species DSITIA Terrestrial Vertebrate Fauna Survey Guidelines NCA Protected Plants Flora Survey Guidelines Database and mapping references including: EPBC PMST Database EHP Wildlife Online Database EHP NCA Protected Plants Mapping NRM Regulated Vegetation Management Mapping SARA Mapping SPP Biodiversity Values Mapping 	Context Plan or RoL application	Context accompa Values A
Confirmed Areas of Remnant Vegetation Containing Endangered Regional Ecosystems	 Retain and protect Confirmed Areas of Remnant Vegetation Containing Endangered Regional Ecosystems 	 Not Applicable – No mapped nor viable Endan 	gered remnant vegetation was identified on-site		
Other Vegetation	 Development protects and minimises impacts on native vegetation within and supporting Significant Biodiversity Values. 	 Avoid (to the greatest extent possible) the clearing of remnant, regrowth and other native vegetation, including non-juvenile Koala habitat trees within the land designated Riparian Zone and Mapped wider extents of the Flagstone Creek Corridor (Appendix 1) Unavoidable clearing can only occur for essential community infrastructure within the designated Flagstone Creek Corridor 	 Where suitable, parts of the following documents and standards will assist in measuring the Overall Outcome: Guideline 14 Guideline 17 DSDIP Significant Residual Impact Guideline Approved Site Property Map of Assessable Vegetation (PMAV) NRM Self Assessable Guidelines for land management and exemption checklist Easement rights 	Site design and continuing through stages of approved construction Annual Report (until project off maintenance)	An increa be incl Biodiver project. be adhe Ecologic are appli An increa (PFC) of e

ement Criteria

t Plan and RoL applications are banied by Significant Biodiversity Assessment Report

ease in habitat quality of vegetation to cluded in the site's Significant rsity Values at completion of the . Rehabilitation Methods and KPI's to ered to can be found in Appendix 2 – cal Site Management Plan. These KPI's licable to this NESS

ease in the Projective Foliage Cover canopy trees and quality condition of and ground cover layers within the

Element	Overall Outcomes	Strategies / Actions	Design Standards / Resources	Timing (Indicative)	Achiever
		 where this infrastructure cannot be reasonably located elsewhere Where unavoidable clearing for essential community infrastructure is required within the designated the Flagstone Creek Corridor, rehabilitate impacted areas in accordance with SEQ Restoration Guidelines and the Ecological Site Management Plan Prepare Management Plans in accordance with the Reporting and Management Section of this NESS to stage and manage the impacts of clearing as per the Ecological Site Management Plan Stage and minimise the clearing of trees for areas designated under the plan of development as schools, future park, drainage and buffer until preliminary concepts for these areas have been prepared and clearing extents identified (refer to Appendix 2) Through site earthworks, maximise the retention of remnant vegetation, regrowth and healthy isolated native tree species within waterway corridors and future recreation / open space areas where not in conflict with the purpose and use of the open space or other required infrastructure within the development land 	 Site Bushfire Management Plan Plan 3 (Appendix 1) Draft Code of Practice for the Welfare of Wild Animals affected by Land Clearing SEQ Ecological Restoration Framework Code SEQ Ecological Restoration Framework Manual Ecological Site Management Plan 		designate completio against surveys –
Koala	 Minimise clearing of Non-Juvenile Koala Habitat Trees (NJKHTs) and provide obligations in accordance with IG17 to achieve a net gain in Koala habitat for the region Minimise threats to existing local Koala populations by avoiding conflicts with roads and dogs 	 Avoid (to the greatest extent possible) the removal of NJKHT within the designated Flagstone Creek Corridor Where unavoidable clearing for essential community infrastructure is necessary within the designated Riparian Zone, all works are managed in accordance with the Reporting and Management Section of this NESS 	 Where suitable, parts of the following documents and standards will assist in measuring the Overall Outcome: EPBC Koala Referral Guidelines Nature Conservation (Koala) Conservation Plan 2006 and Management Program 2006-2016 (koala plan) EHP Koala Sensitive Design Guideline Main Roads Fauna Sensitive Design Manual Vol.2 Draft Code of Practice for the Welfare of Wild Animals affected by Land Clearing 	Site design and continuing through stages of approved construction. Annual Report (until project off maintenance)	Increase i designate strategic maintena No tempo within cl project (re

ment Criteria

ed Flagstone Creek Corridor by ion of the project (when measured pre-commencement baseline - reported on annually)

in the density of NJKHT within the ted Riparian Zone (Measured at intervals until project off ance)

porary fragments or islands of NJKHT clearing zones for the life of the reported annually)

Element	Overall Outcomes	Strategies / Actions	Design Standards / Resources	Timing (Indicative)	Achie
		 Minimise impacts of the clearing of NJKHT through the Development Land by staging and sequencing works commencing in the southern disturbed areas and flushing towards the northern retained areas Stage and manage the impacts of clearing NJKHT in accordance with the Reporting and Management Section of this NESS Ensure site design of open space and retained waterway areas within the Development Land minimises the clearing of NJKHT Incorporate dog off-leash facilities in recreation parkland and on lead control measures through the designated Riparian Zone Ensure site design provides for safe Koala linkage opportunities to surrounding off-site habitat by discouraging Koala movement into built up areas through a range of Koala sensitive design measures (fencing, signage, road and landscape design) Provide obligations in accordance with Guideline 17 to achieve a net gain in Koala habitat for the region for any removed NJKHT from Medium Value – Suitable for Rehabilitation and all Bushland Habitat Mapping categories. 			
EVNT Species	 Identify and avoid (to the greatest extent possible) any impacts on EVNT species 	 Avoid clearing of EVNT flora species Ensure appropriate pre-clearance checks and fauna spotter reporting provides a contemporary and more detailed review of EVNT species or potential habitat within each stage of clearing Stretch Target Where suitable within and adjoining the designated Riparian Zone, corridors or 	 Where suitable, parts of the following documents and standards will assist in measuring the Overall Outcome: NCA Protected Plants Exemption Process Fauna Spotter Pre-Clearance and Post Works Reporting SEQ Ecological Restoration Framework Code SEQ Ecological Restoration Framework Guide SEQ Ecological Restoration Framework Manual Ecological Site Management Plan 	Site design and continuing through stages of approved construction Annual reporting (until project off maintenance)	Increa with Increa usage fauna comn Ecolo

evement Criteria

rease in quality of EVNT flora species hin the designated Riparian Zone.

ease in the availability of habitat and le of the designated Riparian Zone by a when compared with benchmark premencement surveys As per the ogical Site Management Plan

Element	Overall Outcomes	Strategies / Actions	Design Standards / Resources	Timing (Indicative)	Achieven
		open space areas, incorporate areas of <i>Melaleuca irbyana</i> and or other habitat reinstatement for EVNT Species			
Native Fauna (non EVNT Species)	 Minimise impacts on native fauna (not scheduled as Threatened) 	 Avoid negative impacts on native fauna species in the designated Riparian Zone Consolidate habitat for all native fauna into non development portions of the site (i.e. designated Riparian Zone and supporting areas) Engage a registered fauna spotter for a preclearance report and advice on clearing and sequencing methods within the Development Land Stage and manage the impacts of clearing in accordance with the Reporting and Management Section of this NESS and the Ecological Site Management Plan Minimise impacts of clearing Development Land through staging, sequencing and Management Plans prepared in accordance with the Reporting and Management Plans prepared in accordance with the Reporting and Management Plans prepared in accordance with the Reporting and Management Section of this NESS Where specific habitat features, such as mature habitat trees retaining hollows, need to be removed, complete an audit of lost habitat features. Use the audit to determine a strategy to harvest habitat features and/or design and implement a species specific nest box offset strategy as part of the FMP 	 Where suitable, parts of the following documents and standards will assist in measuring the Overall Outcome: Fauna Management Plan prepared in accordance with the Draft Code of Practice for the Welfare of Wild Animals affected by Land Clearing SEQ Ecological Restoration Framework Code SEQ Ecological Restoration Framework Guide SEQ Ecological Restoration Framework Manual Ecological Site Management Plan 	Site design and continuing through stages of approved construction Summarised through Annual Reporting (until project off maintenance)	Fauna S post clea stage of Evidence adaptive within Fa each stag
Waterways	 Retain, protect and buffer site watercourses forming part of the projects Significant Biodiversity Values 	 Avoid (to the greatest extent possible) any clearing within mapped watercourses, or other natural hydrological features within the designated Riparian Zone Avoid (to the greatest extent possible) any clearing within the identified waterway forming part of the site's Significant 	 Where suitable, parts of the following documents and standards will assist in measuring the Overall Outcome: State Code 16 DAF Mapping DAF WWBW Self Assessable Codes SEQ Ecological Restoration Framework Code SEQ Ecological Restoration Framework Guide 	Site design and continuing through stages of approved construction Within each specific	Watercou Biodiversi design Bio-condit as part of increased

ment Criteria

Spotter / Catcher pre, during and earing reports completed for each f clearing works

e within the NESS annual report of e management procedural change Fauna Spotter / Catcher Reports for age of the project

urses identified as Significant sity Values are retained through site

lition of site watercourses retained of Significant Biodiversity Values are d at completion of the project

Element	Overall Outcomes	Strategies / Actions	Design Standards / Resources	Timing (Indicative)	Ac
		 Biodiversity Values within or adjoining the Development Land (i.e. Flagstone Creek Corridor, Plan 5) Minimise impacts on the identified waterway forming part of the site's Significant Biodiversity Values through appropriately designed and located buffers (i.e. Riparian Zone, Plan 5) 	 SEQ Ecological Restoration Framework Manual CPTED Guidelines for Queensland Ecological Site Management Plan 	Management Plan (Vegetation, Fauna and Weed)	
		 Explore infrastructure designed to incorporate existing vegetation with storm water solutions through modified drainage features throughout the development portions and recreational parklands 			
		 Where unavoidable clearing (e.g. access where no other alternative exists, essential community infrastructure and/or approved waterway corridor restoration measures) is required within: 			
		 mapped watercourses or other natural hydrological features within the designated Riparian Zone; or identified waterways forming part of the site's Significant Biodiversity Values within or adjoining the Development Land; minimise the clearing footprint, mitigate impacts and compensate through ecological restoration measures. 			
		 Where unavoidable clearing is necessary within: mapped watercourses or other natural hydrological features within the designated Riparian Zone; or identified waterways forming part of the site's Significant Biodiversity Values within or adjoining the Development Land; 			

hievement Criteria

Element	Overall Outcomes	Strategies / Actions	Design Standards / Resources	Timing (Indicative)	Achieven
		ensure that all works are managed in accordance with the Reporting and Management Section of this NESS			
Land Degradation	 Avoid and manage land degradation impacts caused through works within areas of dispersive and sodic soils 	 Avoid (to the greatest extent possible) any clearing within identified waterways forming part of the site's Significant Biodiversity Values within or adjoining the Development Land (i.e. Flagstone Creek, Plan 5) Avoid (to the greatest extent possible) clearing on steep terrain greater than 20%. Where clearing on steep terrain is unavoidable, employ machinery and clearing techniques that minimise disturbance to soils Minimise clearing of any natural drainage features within the Development Land where included as part of open space, drainage channels, or future schools Mitigate the impacts of clearing of any drainage features, overland flow paths or other natural hydrological features through inclusion of a detailed erosion and sediment control plan for each stage of self-certified operational works submissions Dispersive soil mitigation measures are to be implemented during detailed design if required (such as vegetation or protection of batters, minimising velocity of stormwater flows, flattening of grades, stormwater detention, stormwater discharge into erosion resistant areas, soil re-compaction, soil stabilisers (chemical polymers) and use of sandstone/barriers) as per the endorsed waterway corridor restoration plan 	 Where suitable, parts of the following documents and standards will assist in measuring the Overall Outcome: State Code 16 DAF WWBW Self Assessable Codes SEQ Ecological Restoration Framework Code SEQ Ecological Restoration Framework Guide SEQ Ecological Restoration Framework Manual CPTED Guidelines for Queensland Ecological Site Management Plan Endorsed / approved site strategies and infrastructure master plans for: Earthworks Stormwater Waterway Restoration 	Site design and continuing through stages of approved construction.	No indire erosion Biodivers

ment Criteria

rect impacts from soil deposition or in the downstream Significant rsity Values areas



Element	Overall Outcomes	Strategies / Actions	Design Standards / Resources	Timing (Indic <u>ative)</u>	Achieve
Rehabilitation & Restoration	 Expand and improve the quality of Significant Biodiversity Values and other retained natural features. 	 Revegetate and restore to remnant status all cleared, degraded and modified areas within the designated within the Flagstone Creek Corridor as per the Ecological Site Management Plan, where not in conflict with bushfire management requirements or passive based nature recreation infrastructure Undertake rehabilitation, including planting of endemic species and weed management, within the bed and banks of retained or modified watercourses and drainage features. This rehabilitation may be utilised as part of the total site storm water management strategies, particularly with regard to stormwater quality and waterway corridor restoration Reuse cleared native vegetation (e.g. as site mulch in future revegetation works in and adjoining the designated Riparian Zone) Explore the harvesting of the A-horizon of healthy bushland areas within the development precinct for assisted natural regeneration within degraded land through and surrounding the Riparian Zone Stretch Target: Wherever practical, research and incorporate EVNT Species (flora) and Threatened Ecological Communities into site revegetation 	 Where suitable, parts of the following documents and standards will assist in measuring the Overall Outcome: SEQ Ecological Restoration Framework Guide SEQ Ecological Restoration Framework Manual Ecological Site Management Plan Endorsed / approved site strategies and infrastructure master plans for: Open space Stormwater 	Site design and continuing through stages of approved construction.	Increase areas commer
Weed and Pest Species	 Decrease in the volume and diversity of site weed and pest species 	 Identify and map major infestations of environmental and declared weeds that will be targeted for removal through the designated Riparian Zone Prepare detailed weed management and rehabilitation plans for the designated Riparian Zone, including re-vegetation using existing native species and pre-clear 	 Where suitable, parts of the following documents and standards will assist in measuring the Overall Outcome: Guideline 14 BA declared weeds and pests SEQ Ecological Restoration Framework Code SEQ Ecological Restoration Framework Guide SEQ Ecological Restoration Framework Manual Ecological Site Management Plan 	Pre-Construction Certification and / or Self Certification Reporting as per purpose specific management or	Decrease weed spo the life o

ement Criteria

d quality in the condition of retained when measured against prencement benchmarks.

se in the extent and diversity of site pecies on-site (measured annually for of the project)

Element	Overall Outcomes	Strategies / Actions	Design Standards / Resources	Timing (Indicative)	Achiev
		 Regional Ecosystem communities, to strengthen the riparian vegetation cover Prepare detailed weed management and rehabilitation plans for all portions of open space, including waterways and drainage features, relative to the stage in which they are proposed to be created Manage weeds and pests in accordance with the requirements of the <i>Biosecurity Act 2014</i> Explore methods to minimise impacts of domestic animals on environmental features surrounding the community, such as implementing educational and control measures for areas of the project adjoining or with the potential to influence the designated Riparian Zone 		rehabilitation plan Summary reporting as part of annual report (until project off maintenance)	
Monitoring, Management Plans & Reporting	 Ensure monitoring, management and reporting to collect adequate information to contribute towards the avoid, minimise, restore and offset principles of this NESS 	 Prepare Vegetation Management Plans (VMPs) for each phase of clearing works incorporating the requirements of AS 4970-2009 VMPs are to be approved by: self-certification where prepared in accordance with AS 4970 -2009 and external to Significant Biodiversity Values areas; or compliance assessment for unavoidable clearing within Significant Biodiversity Values areas Monitoring and reporting to occur as per requirements of each VMP (e.g. photo monitoring, tree health, assessment post works) Prepare Fauna Management Plans (FMPs) for each stage of development involving vegetation clearing works. FMPs are to 	 Where suitable, parts of the following documents and standards will assist in measuring the Overall Outcome: Guideline 14 Regulated Vegetation Management Mapping, PMAV and Pre-Clear Mapping Management plan specific monitoring and reporting requirements. Draft Code of Practice for the Welfare of Wild Animals affected by Land Clearing Australian Standard (AS) 4970 -2009 Protection of trees on development sites. DSDIP Significant Residual Impact Guideline EOP SEQ Ecological Restoration Framework Code SEQ Ecological Restoration Framework Manual Ecological Site Management Plan 	All stages – reported annually (until project off maintenance)	Annual and re to cont all othe

I evidence monitoring, management eporting measures have used findings tribute to the adaptive management of er NESS site procedures



Element	Overall Outcomes	Strategies / Actions	Design Standards / Resources	Timing (Indicative)	Achiever
		 mandate the use of EHP registered fauna spotters FMPs are to be approved by self-certification where prepared in accordance with the Draft Code of Practice for the Welfare of Wild Animals affected by Land-Clearing Monitoring and reporting to occur as per the requirement of each specific FMP, incorporating the reporting requirements of the engaged fauna spotter Prepare and implement Weed Management and Rehabilitation Plans for retained vegetation areas, drainage tributaries and other existing or reinstated vegetation areas Monitoring and reporting to occur as per the requirements of each specific Weed Management and Rehabilitation Plans for retained vegetation areas Monitoring and reporting to occur as per the requirements of each specific Weed Management and Rehabilitation Plan (e.g. photo monitoring, quadrant and transect surveys etc.) showing reductions in site weed cover and expanded vegetation regeneration area Create a data repository of all environmental surveys, reports, management plans and monitoring data to inform future government and non-government decision making in Greater Flagstone and broader areas 			

ment Criteria

5. Natural Environmental Features

- 5.1 At the whole of site scale, core natural environment features include:
 - a) Remnant Vegetation
 - b) Confirmed Waterway Areas
 - c) Waterway buffer areas
 - d) Areas of juvenile native vegetation

5.2 Each of these core features is detailed on **Plan 5 (Appendix 1**) and briefly described below.

a) Remnant Vegetation

As part of the PMAV assessment, Endangered Remnant Vegetation has been rectified on site. These areas primarily occur within the designated Riparian Zone. While not being protected specifically by Guideline 14 and Guideline 17, only a small proportion of these remnant vegetated areas are to be cleared.

b) Confirmed Waterway Areas

Confirmed Waterway Areas reflect drainage features on-site that recorded consistent features and values to be defined as a watercourse under the *Fisheries Act 1994*. These areas displayed more evidence of conveying run-off and areas of greater diversity through mesic variants to the broader habitats in which they are contained.

c) Flagstone Creek Corridor

Waterway buffers have been applied as per the outcomes of the Significant Biodiversity Assessment as follows:

- Riparian Zone 50 m for Centreline or too of high bank whichever is larger
- District Park Rehabilitation Carried out as per the specifications of **Appendix 2**
- d) Areas of Juvenile Native Regeneration

A number of Category X areas retain relatively dense immature native regrowth. These areas vary diversely in health and relative value

environmental management natural environment site strategy



Ongoing Monitoring and Reporting

- 6.1 Ongoing monitoring of achievement of the Natural Environment Site Strategies will occur in accordance with specific management plans (e.g. as specified in VMPs, FMPs, Rehabilitation Plans, etc.) and the Ecological Site Management Plan
- 6.2 The Developer undertakes to complete monitoring and reporting in accordance with each approved management plans
- 6.3 Further specific methods for monitoring and reporting will be developed where required in conjunction with Context Plans, Plans of Development, and Compliance Submissions
- 6.4 This document has been prepared with consideration of adaptive management principles being adopted into each report and management plan prepared over the project. This NESS sets the overarching outcome and achievement metric for measurement in stage or works specific documents



7. Koala Habitat Values Mapping

7.1 Koala Habitat Values Mapping can be amended through the use of the following methods which are generally consistent with the *Planning Regulation 2017*:

Determination of koala habitat type for certain land

- 1. As part of, or prior to, the lodgement of a development application, an applicant may request the assessment manager to make a determination that land, which is part of that development application, is of a different Koala habitat type than the Koala habitat type shown for the land on the Map of Assessable Development Area Koala Habitat Values
- 2. An applicant who makes a request must provide sufficient information, and (if requested) as part of the response to the information request, for the assessment manager to make the determination
- 3. Sufficient information includes, but is not limited to, a report by a suitably-qualified and experienced professional in respect of the habitat located on, and in connection with, the land for which the determination is requested
- 4. An assessment manager who receives a request may determine, as part of its decision, that any part of the land that is the subject of the request is:
 - a. of a Koala habitat type different to that shown on a Map of Assessable Development Area Koala Habitat Values; or
 - b. an area where Koalas are generally not present.
- 5. The assessment manager may only make the determination where it is reasonably satisfied that the Koala habitat type associated with the relevant land is identified on the Map of Assessable Development Area Koala Habitat Values incorrectly
- 6. A determination of the Koala habitat type, which applies to the land the subject of the determination for the purpose of applying any rules, guidelines, offsets or other considerations relating to the Koala species
- 7. Further guidance on the technical information and considerations to be incorporated into an application for a redetermination of the Koala habitat values maps can be drawn from Schedule 11 of the Planning Regulations 2017.



8. Definitions / References / Acronyms

Term / Acronym		Definition	Date	Author / Organisation
Application Area	means	the land parcels identified in Plan 1 (Appendix 1)		
AS 4970-2009	means	Australian Standard AS4970-2009 Protection of trees on development sites (incorporating Amendment No. 1)	Mar 2010	Standards Australia
AS	means	Australian Standards		
ASRIS	means	Australian Soil Resource Information System		
ВА	means	Biosecurity Act 2014	3 Jul 2017	State of Queensland
Biosecurity Act 2014	means	Biosecurity Act 2014	3 Jul 2017	State of Queensland
Category B Vegetation	means	as defined by the Vegetation Management Act 1999, section 20A.		
Category X Vegetation	means	as defined by the Vegetation Management Act 1999, section 20A.		
Confirmed Areas of Remnant Vegetation Containing Endangered Regional Ecosystems	means	Not Applicable.		
Confirmed Waterway Areas	means	Confirmed Waterway Areas as shown on Plan 5 (Appendix 1)		
Context Plan	means	a context plan as contemplated under Section 3.2.8 of the PDA Development Scheme		
CPTED	means	Crime Prevention through Environmental Design		

Term / Acronym		Definition	Date	Author / Organisation
CPTED Guidelines for Queensland	means	Crime Prevention through Environmental Design- Guidelines for Queensland - Part B: Implementation Guide	Oct 2007	State of Queensland
DAF	means	Department of Agriculture and Fisheries (Qld)		
DAF Mapping	means	<i>Fisheries Act 1994</i> Queensland waterways for waterway barrier works spatial layer (QSpatial)	15 Jan 2013	State of Queensland
DAF WWBW Self Assessable Codes	means	Self- assessable codes for waterway barrier works by DAF including: WWBW01-P1: Construction of minor dams and weirs, WWBW01-P2: Replacement of existing floodgates, WWBW01-P3: Construction and maintenance of culverts, WWBW01-P4: Construction and maintenance of bed level crossings, WWBW02: Temporary waterway barrier works, WWBW03: Regularly constructed temporary waterway barrier works		State of Queensland (Department of Agriculture and Fisheries)
Defining Bank	means	as defined in State Development Assessment Provisions Module 8: Native Vegetation Clearing (version 1.7) as meaning: the bank which confines seasonal flows by may be inundated by flooding from time to time. This can be either: 1. The bank of terrace that confines the water before the point of flooding, or 2. Where there is no bank the seasonal high water line which represents the point of flooding."		
Development Land	means	The part of the Application Area occupied by land uses other than designated Riparian Zone.		
DILGP	means	Department of Infrastructure, Local Government and Planning (Qld)		
DoE	means	Department of the Environment (Cth)		

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Term / Acronym		Definition	Date	Author / Organisation
Draft Code of Practice for the Welfare of Wild Animals affected by Land-Clearing	means	Queensland Code of Practice for the welfare of wild animals affected by land- clearing and other habitat impacts and wildlife spotter / catchers (Draft)	2009	Jon Hanger & Ben Nottidge - Australian Wildlife Hospital
Drainage feature	means	 as defined in State Development Assessment Provisions Module 8: Native Vegetation Clearing (version 1.7) as meaning: "is a natural landscape feature, including a gully, drain, drainage depression or other erosion feature that – 7 Is formed by the concentration of, or operates to confine or concentrate, overland flow during water and immediately after rainfall events; and 8 Flows for only a short duration after a rainfall event, regardless of the frequency of flow events; and 9 Commonly does not have enough continuing flow to create a riverine environment, and 10 Is shown on the vegetation management watercourse and drainage feature map 10.1 At a scale of 1:25000 on the vegetation management watercourse and drainage feature map for the local government areas of Brisbane, Moreton Bay, Gold Coast, Sunshine Coast, Logan and Redlands, excluding applications to clear vegetation for extractive industries." 		
DSDIP	means	Department of State Development Infrastructure and Planning (Qld) (now Department of Local Government, Infrastructure and Planning)		
DSDIP Significant Residual Impact Guideline	means	Significant Residual Impact Guideline - For matters of state environmental significance and prescribed activities assessable under the Sustainable Planning Act 2009 - Queensland Environmental Offsets Policy	Dec 2014	State of Queensland (Department of State Development, Infrastructure and Planning)

Term / Acronym		Definition	Date	Author / Organisation
DSITIA	means	Department of Science, Information Technology, Innovation and the Arts (Qld)		
DSITIA Terrestrial Vertebrate Fauna Survey Guidelines	means	Terrestrial Vertebrate Fauna Survey Guidelines for Queensland (v 2.0)	Nov 2014	State of Queensland (Department of Science, Information Technology, Innovation and the Arts)
EDQ	means	the Minster for Economic Development Queensland established under the <i>Economic Development Act 2012</i> , which supersedes the <i>Urban Land Development Authority and repeals the Urban Land Development Authority Act 2007</i> (Qld)		
ЕНР	means	Department of Environment and Heritage Protection (Qld)		
EHP Koala Sensitive Design Guideline	means	Koala-sensitive Design Guideline- A guide to koala-sensitive design measures for planning and development activities	Nov 2012	State of Queensland (Department of Environment and Heritage Protection)
EHP NCA Protected Plants Mapping	means	<i>Nature Conservation Act 1992</i> protected plants flora survey trigger map spatial layer (QSpatial)		State of Queensland (Department of Environment and Heritage Protection)
EHP Wildlife Online Database	means	Queensland Government's WildNet data species profile search (version 1.0) database		State of Queensland (Department of Environment and Heritage Protection)
Endangered Vegetation	means	as mapped by Regulated Vegetation Management Mapping under the <i>Vegetation Management Act 1999</i> or by a certified Property Map of Assessable Vegetation.		

Term / Acronym		Definition	Date	Author / Organisation
EOA	means	Environmental Offsets Act 2014 (Qld)	02 July 2015	State of Queensland
Environmental Offsets Act 2014	means	Environmental Offsets Act 2014 (Qld)	02 July 2015	State of Queensland
Environmental Offsets Policy 2014	means	Queensland Environmental Offsets Policy (Version 1.1)	December 2014	State of Queensland
EOP	means	Queensland Environmental Offsets Policy (Version 1.1)	December 2014	State of Queensland
ЕРВС	means	Environment Protection and Biodiversity Conservation Act 1999 (Cth)	01 July 2015	Commonwealth of Australia
EPBC Act	means	Environment Protection and Biodiversity Conservation Act 1999 (Cth)	01 July 2015	Commonwealth of Australia
EPBC Koala Referral Guidelines	means	EPBC Act referral guidelines for the vulnerable koala (combined populations of Queensland, New South Wales and the Australian Capital Territory)	2014	Commonwealth of Australia
EPBC PMST Database	means	<i>Environment Protection and Biodiversity Conservation Act 1999 (Cth)</i> Protected Matters Search Tool database interactive mapping	2015	Commonwealth of Australia
EPBC Significant Impact Guidelines	means	Matters of National Environmental Significance: Significant Impact Guidelines 1.1 Environment Protection and Biodiversity Conservation Act 1999	2013	Commonwealth of Australia
ESCP	means	Erosion and Sediment Control Plan		
Essential Habitat	means	as defined in the Vegetation Management Act 1999, section 20AC.		
Essential Management	means	as defined in the Sustainable Planning Regulation 2000, schedule 26.		

Term / Acronym		Definition	Date	Author / Organisation
EVNT Species	means	Endangered, Vulnerable, Near Threatened and presumed Extinct species listed by name in schedules 1-5 of the <i>Nature Conservation Wildlife Regulation 2006</i> and least concern wildlife, not listed by name but identified as indigenous to Australia listed in Schedule 6.		
FMP	means	Fauna Management Plan		
Flagstone Creek Corridor	Means	The Extent of Biodiversity Corridor (including district park) set aside on the development for ecological restoration.		
GFPDA	means	Greater Flagstone Priority Development Area (formerly Greater Flagstone UDA)		
Guideline 14	means	PDA guideline no. 14 - Environmental values and sustainable resource use	May 2015	State of Queensland
Guideline 17	means	PDA guideline no. 17 - Remnant vegetation and koala habitat obligations in Greater Flagstone and Yarrabilba PDAs	May 2015	State of Queensland (Department of State Development, Infrastructure and Planning)
ІСОР	means	Infrastructure Charging Offset Plan - Greater Flagstone Priority Development Area	Jul 2013	State of Queensland
Koala Habitat Areas	means	as defined in Guideline 17, an area mapped on State Planning Policy 2/10: Koala Conservation in South East Queensland, SEQ Koala Protection Area Koala Habitat Values maps as: - bushland habitat - having high and medium value suitable for rehabilitation habitat types.		
Koala Habitat Values Mapping	means	the plan of Koala Habitat Areas enclosed at Plan 3 (Appendix 1) , or as amended in accordance with Section 7 of the NESS.		

Term / Acronym		Definition	Date	Author / Organisation
Koala Guideline	means	Schedule 11 – Planning Regulations 2017	Jul 2017	State of Queensland (Department of Environment and Heritage Protection)
LCC	means	Logan City Council		
Main Roads Fauna Sensitive Design Manual Vol.2	means	Fauna Sensitive Road Design Manual - Volume 2: Preferred Practices (Chapter 6 - Measures to achieve fauna sensitive roads, and Chapter 7 - Target Species Design Considerations)	Jun 2010	State of Queensland (Department of Transport and Main Roads)
MNES	means	Matters of National Environmental Significance		
MSES	means	Matters of State Environmental Significance		
MLES	means	Matters of Local Environmental Significance		
Nature Conservation (Koala) Conservation Plan 2006 and Management Program 2006- 2016 (koala plan)	means	Nature Conservation (Koala) Conservation Plan 2006	27 Sep 2013	State of Queensland (Department of Environment and Heritage Protection)
NCA	means	Nature Conservation Act 1992	02 Jul 2015	State of Queensland (Department of Natural Resources and Mines)
NCA Protected Plants Exemption Process	means	where clearing is to be undertaken within a High Risk Area, as mapped by EHP Protected Plants Flora Survey Trigger Map, a flora survey will be undertaken in accordance with the Protected Plants Flora Survey Trigger Guidelines - Nature Conservation Act 1992 and where applicable, an Exempt Clearing Notification Form will be issued to EHP		State of Queensland (Department of Natural Resources and Mines)

Term / Acronym		Definition	Date	Author / Organisation
NCA Protected Plants Flora Survey Guidelines	means	Flora Survey Guidelines - Protected Plants - Nature Conservation Act 1992	2014	State of Queensland (Department of Natural Resources and Mines)
NCWR	means	Nature Conservation (Wildlife) Regulation 1994 (Reprint No. 2A)	22 Dec 1999	State of Queensland (Department of Natural Resources and Mines)
NESS	means	Natural Environment Site Strategy		
ЛЈКНТ	means	Non-Juvenile Koala Habitat Trees		
NRM	means	Department of Natural Resources and Mines (Qld)		
NRM Covenant Control measures and Guidelines	means	as defined within the NRM Land Title Practice Manual (Qld), specifically Part 31 - Covenants, and NRM policy 'Covenants providing for non separate transfers PUX/952/066 version 4.05'	Apr 2009	State of Queensland (Department of Natural Resources and Mines)
NRM Regulated Vegetation Management Mapping	means	<i>Vegetation Management Act 1999</i> Regulated Vegetation Management Map - version 1.27 spatial layer (QSpatial)	7 Mar 2016	
NRM Self Assessable Guidelines for land management and exemption checklist	means	NRM self assessable clearing codes, specifically for Managing Encroachment, Managing Fodder Harvesting, Necessary Environmental Clearing, Property Infrastructure and Weed Control	02 Dec 2013	State of Queensland
OSS	means	Overarching Site Strategy		
PDA	means	Priority Development Area (formerly UDA)		

Term / Acronym		Definition	Date	Author / Organisation
PDA Development Scheme	means	the Greater Flagstone Urban Development Area Development Scheme	Oct 2011	State of Queensland
Planning Act 2017	means	Planning Act 2017	3 Jul 2017	Queensland Government
Planning regulation 2017	means	Planning Regulation 2017	3 Jul 2017	Queensland Government
РМАV	means	Property Map of Assessable Vegetation		
Pre-clear Mapping	means	Draft pre-clearing regional ecosystems mapping data spatial layer (QSpatial)	8 May 2015	State of Queensland
Prescribed Matter	means	as defined by the Environmental Offsets Act 2014		
Property Map of Assessable Vegetation (PMAV)	means	as defined by the Vegetation Management Act 1999		
RE	means	Regional Ecosystems		
Regional Ecosystems	means	as defined by the Vegetation Management Act 1999.		
Riparian Zone	means	land designated as Riparian Zone on the endorsed / approved Context Plan for the Application Area		
SARA	means	State Assessment Referral Agency (Qld)		
SARA Mapping	means	QSpatial layers applicable under SARA DA mapping tool		
SAT	means	Spot Assessment Technique Survey		
SDAP	means	State Development Assessment Provisions		

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Term / Acronym		Definition	Date	Author / Organisation
SEQ Ecological Restoration Framework Code	means	South East Queensland Ecological Restoration Framework: Code of Practice	2012	Chenoweth EPLA and Bushland Restoration Services. Prepared on behalf of SEQ Catchments and South East Queensland Local Governments, Brisbane.
SEQ Ecological Restoration Framework Guide	means	South East Queensland Ecological Restoration Framework: Guideline	2012	Chenoweth EPLA and Bushland Restoration Services. Prepared on behalf of SEQ Catchments and South East Queensland Local Governments, Brisbane.
SEQ Ecological Restoration Framework Manual	means	South East Queensland Ecological Restoration Framework: Manual	2012	Chenoweth EPLA and Bushland Restoration Services. Prepared on behalf of SEQ Catchments and South East Queensland Local Governments, Brisbane.
SEQRP	means	South East Queensland Regional Plan 2009-2031		
State Code 16	means	State Code 16 of the State Development Assessment Provisions (version 2.1)	11 Aug 2017	State of Queensland
WWTP	means	wastewater treatment plant		



Term / Acronym		Definition	Date	Author / Organisation
Significant Biodiversity Values	means	Significant Biodiversity Values are as mapped and annotated on Plan 5 (Appendix 1), or as otherwise defined as: - Confirmed Waterway Areas		
Significant Residual Impact	means	 as defined by the Environmental Offsets Act 2014, as meaning: "an adverse impact, whether direct or indirect, of a prescribed activity on all or part of a prescribed environmental matter that – 1. Remains, or will or is likely to remain, (whether temporarily or permanently) despite onsite mitigation measures of the prescribed activity; and 2. Is, or will or is likely to be, significant. 		
SPP	means	State Planning Policy		
SPP Biodiversity Values Mapping	means	<i>State Planning Policy 2014</i> Matters of State Environmental Significance spatial layer series, specifically for MSES Biodiversity	17 Dec 2013	State of Queensland
SPP 03/17	means	State Planning Policy July 2017	July 2017	State of Queensland (Department of State Development, Infrastructure and Planning)
SRI	means	Significant Residual Impact		
TEC	means	Threatened Ecological Community		

Term / Acronym		Definition	Date	Author / Organisation
TMR	means	Department of Transport and Main Roads (Qld)		
UDA	means	Urban Development Area (now known as PDA)		
ULDA	means	Urban Land Development Authority (now known as EDQ)		
VMA	means	Vegetation Management Act 1999	11 Sep 2015	Queensland Government
VMP	means	Vegetation Management Plan		
Watercourse	means	 is a watercourse as defined under the <i>Water Act 2000</i>, as meaning: "a river, creek or other stream, including a stream in the form of an anabrach or tributary, in which water flows permanently or intermittently, regardless of the frequency of flow events – a. In a natural channel, whether artificially modified or not, or b. In an artificial channel that has changed the course of the stream". 		
Waterway	means	as defined by DAF Mapping for WWBW and ground-truthed by field survey		
Waterway Barrier Works (WWBW)	means	as defined in the Fisheries Act 1994		
WWBW	means	Waterway Barrier Works		



Legislation and Guidelines referenced within this strategy

The following legislation (i.e. Acts, Guidelines and Polices) are referenced within this strategy and remain in effect for the purpose of this NESS:

Act / Policy /Guideline	Date of Publication	Author/Organisation
Australian Standard AS4970-2009 Protection of trees on development sites (incorporating Amendment No. 1)	Mar 2010	Standards Australia
Biosecurity Act 2014	Jul 2017	State of Queensland
Biosecurity Regulation 2016	Jul 2017	State of Queensland
Code for Self-assessable development, Minor Waterway Barrier Works, Part 1: Low Impact Dams and Weirs (WWBW01)	Apr 2013	State of Queensland (Department of Agriculture and Fisheries)
Code for Self-assessable development, Minor Waterway Barrier Works, Part 2: Replacement of Existing Floodgates (WWBW01)	Oct 2011	State of Queensland (Department of Agriculture and Fisheries)
Code for Self-assessable development, Minor Waterway Barrier Works, Part 3: Culvert Crossings (WWBW01)	Apr 2013	State of Queensland (Department of Agriculture and Fisheries)
Code for Self-assessable development, Minor Waterway Barrier Works, Part 4: Construction and Maintenance of Bed Level Crossings (WWBW01)	Apr 2013	State of Queensland (Department of Agriculture and Fisheries)
Code for Self-assessable development, Temporary Waterway Barrier Works (WWBW02)	Apr 2013	State of Queensland (Department of Agriculture and Fisheries)
Code for Self-assessable development, Regularly Constructed Waterway Barrier Works (WWBW03)	Oct 2011	State of Queensland (Department of Agriculture and Fisheries)
Crime Prevention through Environmental Design- Guidelines for Queensland - Part B: Implementation Guide	Oct 2007	State of Queensland
Environment Protection and Biodiversity Conservation Act 1999 (Cth)	Jul 2015	Commonwealth of Australia

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Act / Policy /Guideline	Date of Publication	Author/Organisation
Environmental Offsets Act 2014	Jul 2015	State of Queensland
EPBC Act Administrative Guidelines on Significance – Supplement for the Grey-headed Flying- fox	2003	Commonwealth of Australia
EPBC Act referral guidelines for the vulnerable koala (combined populations of Queensland, New South Wales and the Australian Capital Territory)	2014	Commonwealth of Australia
Fauna Sensitive Road Design Manual - Volume 2: Preferred Practices	Jun 2010	State of Queensland (Department of Transport and Main Roads)
Fisheries Act 1994	Jul 2017	State of Queensland
Flora Survey Guidelines - Protected Plants - Nature Conservation Act 1992	2014	State of Queensland (Department of Environment and Heritage Protection)
Greater Flagstone Urban Development Area Development Scheme	Oct 2011	State of Queensland
Guideline- South East Queensland Koala Conservation - State Planning Regulatory Provisions	Jul 2014	State of Queensland (Department of Environment and Heritage Protection)
Infrastructure Charging Offset Plan - Greater Flagstone Priority Development Area	Jul 2013	State of Queensland
Koala-sensitive Design Guideline- A guide to koala-sensitive design measures for planning and development activities	Nov 2012	State of Queensland (Department of Environment and Heritage Protection)
List of Vegetation Clearing Exemptions	2013	State of Queensland (Department of Natural Resources and Mines)
Matters of National Environmental Significance: Significant Impact Guidelines 1.1 Environment Protection and Biodiversity Conservation Act 1999	2013	Commonwealth of Australia
Nature Conservation (Koala) Conservation Plan 2006	27 Sep 2013	State of Queensland (Department of Environment and Heritage Protection)
Nature Conservation (Wildlife) Regulation 1994 (Reprint No. 2A)	22 Dec 1999	State of Queensland
Nature Conservation Act 1992	02 Jul 2015	Queensland Government

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Act / Policy /Guideline	Date of Publication	Author/Organisation
Vegetation Management Act 1999	Sep 2015	State of Queensland
Water Act 2000	Oct 2015	State of Queensland


Appendix I

Plans

Plan 1:	Site Aerial
Plan 2:	Ground Truthed Remnant Vegetation
Plan 3:	SEQ Koala Habitat Values Mapping
Plan 4:	Fisheries – Waterways for Waterway Barrier Works
Plan 5:	Natural Environment Site Strategy – Site Constraints Plan

I. SITE AERIAL





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NOTES

NOTES This plan was prepared as a desktop assessment tool. The information on this plan is not suitable for any other purpose. Property dimensions, areas, numbers of lots and contours and other physical features shown have been compiled from existing information and may not have been verified by field survey. These may need verification if the development application is approved and development proceeds, and may change when a full survey is undertaken or in order to comply with development approval conditions. No reliance should be placed on the information on this plan for detailed design or for any financial dealings development approval containors, no reliance should be piaced on the information on this plan for detailed design or for any financial dealings involving the land. Saunders Havill Group therefore disclaims any liability for any loss or damage whatsoever or howsoever incurred, arising from any party using or relying upon this plan for any purpose other than as a document prepared for the sole purpose of accompanying a development application and which may be subject to alteration beyond the control of the Saunders Havill Group. Index a development approxil attace theories, this is not Havill Group. Unless a development approval states otherwise, this is not an approved plan.

Layer Sources: QLD GIS Layers (QLD Gov. Information Service 2016), Aerial (Nearmap 2016)

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LEGEND



Project site DCDB

QId DCDB







2. GROUND TRUTHED REMNANT VEGETATION





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Ground-truthed Regional ecosystems



Category A or B area containing endangered regional ecosystems

Category A or B area containing of concern regional ecosystems

Category A or B area that is a least concern regional ecosystem

Category X area -Vegetation not regulated under the VMA



3. SEQ KOALA HABITAT VALUES



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Project site DCDB

QId DCDB

Koala Habitat Values

Bushland Habitat

High Value Bushland

Medium Value Bushland

Low Value Bushland

Suitable for Rehabilitation



Medium Value Rehabilitation

Low Value Rehabilitation

Other Areas of Value

High Value Other

Medium Value Other

Low Value Other

Non-habitat

Water



4. FISHERIES - WATERWAYS FOR WATERWAY BARRIER WORKS





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Waterways

Risk of Impact

- 1 - Low

2 - Moderate

3 - High





Tidal waterway

Fish habitat area







5. NATURAL ENVIRONMENTAL SITE STRATEGY - CONSTRAINTS





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Combined Stormwater, Construction District Park and Riparian Zone (to be rehabilitated post-construction)

PLA	N ISSUE:				
Issue	e Date	Description	Drawn	Checked	_
A	13/10/2017	Prelim Draft	MC	AH	-
в	18/10/2017	Ammendments	MC	AH	
0	50	100	150		200 m

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Ecological Site Management Plan

MOUNTAIN RIDGE ROAD, SOUTH MACLEAN ECOLOGICAL SITE MANAGEMENT PLAN



Saunders Havill Group Pty Ltd ABN 24 144 972 949 Brisbane # Emerald # Rockhampton head office 9 Thompson St Bowen Hills Q 4006 phone 1300 123 SHG web www.saundershavill.com

DISCLAIMER:

THESE PANES HAVE REEXPREMENDED FOR THE EXCLUSIVE USE OF THE CLENT SUBJECTED HAVELORE ACCEPT REPORTING INTY FOR ANY USE OF OR RELANCE UPON THE CONTENTS OF THESE DRAWING BY THER PART. CONFERAL LOBERISON ON SITE PROOF TO CONSTRUCTION AND DO NOT SOLE FERON THE GRAWING BY MANUEL ADDR TO THE CONSTRUCTION OF ANY OWNER ON NOT STATE FROM THE CONFERENCE THEOR TO ANY CONSTRUCTION. EXCANTION OR CONTRUCTION ON SITE THE RELEVANT AUTHORITY SHO

A 14/02/2018 Client Draft	AH



Mountain Ridge Pty Ltd ATF Mountain Ridge Unit Trust

PROJECT

230 Mountain Ridge Road South Maclean

ECOLOGICAL SITE MANAGEMENT PLAN

DATE: 14/02/2018	CHECKED: AH
CLIENT REF.: 7344	DRAWN: MC
DRAWING No.: 7344 E 01 ES	MP Cover A

DWG NO.	DRAWING TITLE	ISSUE	DATE
7344 L RP 01	REHABILITATION PLAN - COVER SHEET	В	16/03/2018
7344 L RP 02	REHABILITATION PLAN - LAYOUT PLAN	В	16/03/2018
7344 L RP 03	REHABILITATION PLAN - LAYOUT PLAN	В	16/03/2018
7344 L RP 04	REHABILITATION PLAN - REHABILITATION NOTES	В	16/03/2018
7344 L RP 05	REHABILITATION PLAN - REHABILITATION NOTES	В	16/03/2018
7344 L RP 06	REHABILITATION PLAN - REHABILITATION NOTES	В	16/03/2018
7344 L RP 07	REHABILITATION PLAN - REHABILITATION NOTES	В	16/03/2018
7344 L RP 08	REHABILITATION PLAN - REHABILITATION NOTES	В	16/03/2018
7344 L RP 09	REHABILITATION PLAN - REHABILITATION NOTES	В	16/03/2018
7344 L RP 10	REHABILITATION PLAN - REHABILITATION NOTES	В	16/03/2018
7344 L RP 11	REHABILITATION PLAN - REHABILITATION NOTES	В	16/03/2018
7344 L RP 12	REHABILITATION PLAN - REHABILITATION NOTES	В	16/03/2018
7344 L RP 13	REHABILITATION PLAN - REHABILITATION NOTES	В	16/03/2018
7344 L RP 14	REHABILITATION PLAN - REHABILITATION NOTES	В	16/03/2018





MOUNTAIN RIDGE PC	
Pesas Pesas Pesas Pesas	
	Iandscape architecture
	DRAWING: REHABILITATION PLAN

ROJECT: MOUNTAIN RIDGE ROAD SOUTH MACLEAN	COVER SHEET		
SOUTH MACLEAN	DATE: JAN 2018	CHECKED:MS	
CALE:	CLIENT REF.: 7344	DRAWN: RM	
AS NOTED	DRAWING NO.: 7344 L R	P 01 B	



LEGEND



Zone 1 - Existing Vegetation (Assisted Natural Regeneration) Vegetation Community - Eucalyptus lereticornis do minated canopy

Existing native trees shrubs and groundcovers to be protected and retained. Weed management to entire zone to encourage natural regeneration by reducing competition. Appropriate (sensitive)) weed management methocology within this zone to minimize any native vegetation damage / losses

Refer to Rehabilitation Notes for additional details, plant species



Zone 2A - Existing Vegetation (Assisted Natural Regeneration) Vegetation Community - Acacia Regrowth & Mature Eucalyptus specimiens.

Existing native trees, shrubs and groundcovers to be protected and retained. Weed management to entire zone to encourage natural regeneration by reducing competition. Appropriate (sensitive)) weed management methocology within this zone to minimize any native vegetation damage / losses

Refer to Rehabilitation Notes for additional details, plant species



Zone 2B - Existing Vegetation (Reconstruction) Vegetation Community - Acacia Regrowth & Mature Eucalyptus specimiens.

Existing native trees shrubs and groundcovers to be protected and retained. Weed management to entire zone to encouage natural regeneration by reducing competition. Appropriate (sensitive)) weed management methocology within this zone to minimize any native vegetation damage / losses. Zone noted as disturbed o bare requiring reconstruction revegetation

Refer to Rehabilitation Notes for additional details, plant species



Zone 3A - Existing Vegetation (Assisted Natural Regemeration) Vegetation Community - Mixed Eucal/pt, Corymbia and Acacia regrowth

Existing native trees shrubs and groundcovers to be protected and retained. Weed management to enlire zone to encoulage natural regeneration by reducing competition. Appropriate (sensitive)) weed management methocology within this zone to minimize any native vegetation damage / losses.

Refer to Rehabilitation Notes for additional details, plant species.



Zone 3B - Existing Vegetation (Reconstruction) Vegetation Community - Mixed Eucalypt, Corymbia and Acacia regrowth

Existing native trees, shrubs and groundcovers to be protected and retained. Weed management to entire zone to encourage natural regeneration by reducing competition. Appropriate (sensitive)) weed management methocology within this zone to minimize any native vegetation damage / losses. Zone noted as disturbed or bare requiring reconstruction revegetation

Refer to Rehabilitation Notes for additional details, plant species



Zone 4 - Existing Vegetation (Assisted Natural Regeneration) Vegetation Community - Mixed Eucalypt Dominated canopy

Existing native trees, shrubs and groundcovers to be protected and retained. Weed management to entire zone to encourage natural regeneration by reducing competition. Appropriate (sensitive)) weed management methocology within this zone to minimize any native vegetation damage / losses

Refer to Rehabilitation Notes for additional details, plant species.

CLIENT:	ølandscap∈ arc	hitecture
MOUNTAIN RIDGE PTY LTD	DRAWING:	
	REHABILITATIO	N PLAN
PROJECT: MOUNTAIN RIDGE ROAD,	LAYOUT PLAN	
SOUTH MACLEAN	DATE: JAN 2018	CHECKED:MS
SCALE:	CLIENT REF.: 7344	DRAWN: RM
AS NOTED	DRAWING NO.: 7344 L RI	⊃ 02 B



LEGEND



Zone 1 - Existing Vegetation (Assisted Natural Regeneration) Vegetation Community - Eucalyptus tereticornis dominated canopy

Existing native trees, shrubs and groundcovers to be protected and retained. Weed management to enlire zone to encouage natural regeneration by reducing competition. Appropriate (sensitive)) weed management methocology within this zone to minimize any native vegetation damage / losses.

Refer to Rehabilitation Notes for additional details, plant species.



Zone 2A - Existing Vegetation (Assisted Natural Regeneration) Vegetation Community - Acacia Regrowth & Mature Eucalyptus specimens.

Existing native trees, shrubs and groundcovers to be protected and retained. Weed management to enlire zone to encouage natural regeneration by reducing competition. Appropriate (sensitive)) weed management methocology within this zone to minimize any native vegetation damage / losses.

Refer to Rehabilitation Notes for additional details, plant species.



Zone 2B - Existing Vagetation (Reconstruction) Vegetation Community - Acacia Regrowth & Mature Eucalyptus specimens.

Existing native trees, shrubs and groundcovers to be protected and retained. Weed management to enlire zone to encouage natural regeneration by reducing competition. Appropriate (sensitive)) weed management methocology within this zone to minimize any native vegetation damage / losses. Zone noted as disturbed o bare requiring reconstruction revegetation.

Refer to Rehabilitation Notes for additional details, plant species.



Zone 3A - Existing V∍getation (Assisted Natural Regemeration) Vegetation Community - Mixed Eucalγpt, Corymbia and Acacia regrowth

Existing native trees, shrubs and groundcovers to be protected and retained. Weed management to enlire zone to encouage natural regeneration by reducing competition. Appropriate (sensitive)) weed management methocology within this zone to mindize any native vegetation damage / losses.

Refer to Rehabilitation Notes for additional details, plant species.



Zone 3B - Existing V∋getation (Reconstruction) Vegetation Community - Mixed Eucal/pt, Corymbia and Acacia regrowth

Existing native trees, shrubs and groundcovers to be protected and retained. Weed management to entire zone to encouage natural regeneration by reducing competition. Appropriate (sensitive)) weed management methocology within this zone to minimize any native vegetation damage / losses. Zone noted as disturbed or bare requiring reconstruction revegetation.

Refer to Rehabilitation Notes for additional details, plant species.



Zone 4 - Existing Vegetation (Assisted Natural Regeneration) Vegetation Community - Mixed Eucalypt Dominated canopy

Existing native trees, shrubs and groundcovers to be protected and retained. Weed management to enlire zone to encouage natural regeneration by reducing competition. Appropriate (sensitive)) weed management methocology within this zone to minimize any native vegetation damage / losses.

Refer to Rehabilitation Notes for additional details, plant species.

CLIENT:	Iandscape architecture	
MOUNTAIN RIDGE PTY LTD		
DDO IFOT	REHABILITATION PLAN	
MOUNTAIN RIDGE ROAD,	LAYOUT PLAN	
SOUTH MACLEAN	DATE: JAN 2018 CHECKED:MS	
SCALE: 0 1 2 5m	CLIENT REF.: 7344 DRAWN: RM	
1:200@A3	DRAWING No.: 7344 L RP 03 B	

REHABILITATION INTRODUCTION

This section of the Ecological Site Management Plan (ESMP) will address the conceptual requirements of on ground rehabilitation. The aim of this portion of the ESMP is to provide a broad framework in conjunction with the NESS on the desired rehabilitation outcomes for the Flagstone Creek Corridor which includes district park and the Riparian Zone. The rehabilitation portion of the ESMP will directly apply required KPI's and preferred method of rehabilitation of the Flagstone Creek Corridor

A substantial amount of rehabilitation research has been conducted and compiled as part of the "South East Queensland Ecological Restoration Framework (SEQERF)" and subsequently endorsed by the majority of South East Queensland councils. Given this, information provided within this Rehabilitation document will largely utilize information derived from this framework

Rehabilitation or "Ecological Restoration" can be described as "the process of assisting the recovery of an ecosystem that has been degraded, damaged or destroyed" (source: Society for Ecological Restoration International).

A key aspect of ecological restoration is that structure and function are returned to site, improving site stability, and improved habitat for fauna and flora. Structure includes vegetation height and density canopy cover and appropriate species, as well as habitat features such as fallen logs and site rock Function refers to the natural and self-sustaining processes occurring within the site including regeneration capacity, succession and cycling of nutrients. Activities required to achieve these objectives may include controlling environmental weeds, re-establishment of wildlife corridors and/ or stabilisation of creek banks or stormwater devices.

In accordance with the South East Queensland Ecological Restoration Framework, four ecological restoration approaches are generally applicable to rehabilitation works

- Natural Regeneration
- Assisted Natural Regeneration
- Reconstruction
- Fabrication

It is worth noting as restoration work progresses on a site, ongoing changes to the structure and diversity of the vegetation will become apparent. These changes tend to occur in a cyclical manner, with the initial disturbance to the vegetation (either natural or man-made) being the trigger for changes. It is important to recognise that the vegetation will have to pass through a variety of stages of succession first, often over a period of years.

Disturbance as part of restoration works often has a negative connotation, however can often be useful for site restoration. Regeneration of native plant species is stimulated by mimicking natural disturbances. The techniques used will depend on the individual species and vegetation community, as they have evolved to respond to disturbances in different ways. Some examples of these techniques

- Control of competing vegetation, especially environmental weeds;
- Controlled burns or burn piles in vegetation communities adapted to fire;
- Soil disturbances such as ripping or raking; and/or
- Alterations to hydrology in wetlands to reinstate natural movement.

The SEQERE also highlights that consistent follow up is critical for success of ecological restoration. This ensures that beneficial, permanent changes can occur within the vegetation community benefiting both fauna and flora. In order to be able to confirm these changes are occurring, ongoing site monitoring may also be required

Ecological restoration is a complicated and evolving field. It requires careful consideration for all ecosystem aspects to try in minimize any unexpected interactions, although is generally accepted that not all can be fully known about each complex ecosystem. Given this, it is necessary to remain flexible throughout this process to adapt to site and natural changes.

REHABILITATION APPROACHES

ECOLOGICAL RESTORATION APPROACHES	
	NATURAL REGENERATION
Applies:	To relatively large, intact and weed-free areas of native vegetation.
	Where native plants are healthy and capable of regenerating without human intervention.
	When native plant seed is stored in the soil or will be bale to reach the site from nearby
	natural areas, by birds or other animals, wind or water.
	Where the plant community has a high potential for recovery after any short-live disturbance
	such as a fire or cyclonic winds. When preventative action is all that is required to avert on-going disturbances e.g. erection of
	fencing to prevent instruction by cattle.
Role of planting:	Planting in such areas can work against the aims of restoration by interfering with natural
	regeneration.
Goal vegetation	The re-establishing plant community will be similar in structure, composition and diversity to
community:	
Applies:	To natural areas where the native plant community is largely healthy and functioning.
	nearby natural areas, by birds or other animals, wind or water.
	Where the natural regeneration processes (seedling germination, root suckering, etc.)
	are being inhibited by external factors, such as weed invasion, soil compaction, cattle
	grazing, mechanical slashing, etc.
	When limited human intervention, such as weed control, minor amelioration of soil
	conditions, erection of fencing, cessation of slashing, etc. will be enough to trigger
	When the main management issue is weed infestation and/or current land use
	practices.
Role of planting:	Planting in such areas can work against the aims of restoration by interfering with
	natural regeneration except where species cannot return to site without direct
	intervention.
Goal vegetation	The re-establishing plant community will be substantially similar in structure,
community.	
Applies	Where the site is highly degraded or altered
Applies.	When the degree of disturbance has been so great and long-standing that the pre-existing
	native plant community cannot recover by natural means.
	To sites such as areas of fill, sites affected by stormwater flow, areas that have been
	drastically cleared, even though there may be a few remaining native trees or shrubs.
	When a greater degree of human intervention is required, such as weed control,
	cessation of grazing and/or slashing, amelioration of soil conditions such as
Dala af alautian	importation of soils, drainage works or re-shaping of the landscape.
Role of planting:	importation of native species to the area is required, either through planting or direct
	to initially re-establish the original vegetation. Depending on the prevailing
	circumstances, the planting of a broad diversity of species from the target ecosystem
	may be unnecessary and the use of pioneers may be sufficient to re-establish
	ecological processes.
Goal vegetation	The re-establishing planted community should be similar to the original vegetation
community:	In structure, composition and diversity.
	FABRICATION (TYPE CONVERSION)
Applies:	Where site conditions have been irreversibly changed.
	When it is not possible to restore the original native plant community.
	where a better-duapted local plant community can be planted that will function within the changed conditions
	In situations such as the construction of a wetland plant community to mitigate
	increased urban storm-water run-off.
Role of planting:	Revegetation (planting) is the major component in a fabrication program.
Goal vegetation	The re-establishing planted community should be similar to a naturally occurring
community:	plant community of the same type (e.g. a constructed freshwater wetland should
	resemble a natural system in terms of structure, composition and diversity).

Note: Table adapted from a table in the Gold Coast City Council's "Guideline for the preparation of a Rehabilitation Plan"

R	EHABILITATION METHODOLOGY
As pa comp	rt of most rehabilitation scopes, it is worth considering an appropriate methodology for both iling documentation and site works. This can be broken down into the following items:
• 5	Site assessment
	Site Works
• •	Aaintenance and monitoring
R	EHABILITATION METHODOLOGY - SITE ASSESSMENT
Dotail	ad assessment of site conditions prior to commencement of documentation is essential in the
estab	lishment of a site specific ecological restoration methodology. In accordance with the SEQERF
the fo	llowing checklist will form part of the site assessment process:
• [Describe the history and background of the site;
• [Describe the soil, drainage, topography and aspect;
	Describe the native vegetation on the site and along site boundaries;
	Describe the vegetation dispersal and structure:
• [Describe the fauna use on site; and
• [Describe estimated native regeneration response.
The r Natur	esponses to the above check list will provide the basis of the proposed restoration approach from al Regeneration to Fabrication for each treatment area within this Rehabilitation Plan.
Consi	ideration should be made in the importance of integrating site specific measures for fauna habitat
and n	novement. With many fauna species having specific habitat requirements, foraging patterns and
nove	ment patterns. During the site assessment process the following provisions should be taken into deration:
	Terre more most encody sitistication of a second state within a suiders and / as infrastructure
• ŀ	-auna movement opportunities via easements, tracts, utility corridors and / or intrastructure
• [Diversity and type of fauna and distribution on site;
• •	labitat opportunities eg. dense foliage, roosting areas, log hollows and potential nesting boxes;
• F	-auna disturbance and vicinity of works to significant nesting areas and / or fauna movement;
	Stage weed removal and / or altering of weed control technique if the weeds are currently forming
á	a significant fauna habitat.
For th	e sake of keeping this Rehabilitation document concise, site analysis results are compiled under
a sep	arate template and may or may not be included in this set, however the analysis outcomes derive
he R	ehabiltiation design methodology.
R	EHABILITATION METHODOLOGY - REHABILITATION DESIGN
This d	documentation has been compiled through processes outlined in the SEQERF, site analysis and
orevio	ous rehabilitation project experiences. The primary aims of this documentation is to provide
asses	sment managers, clients and contractors a clear methodology to assist the recovery of an
	otom mat has been degraded, damaged of destroyed.
Jpon	site analysis, the following management zones are applicable to the rehabilitation site:
Zone	1 - Existing Vegetation (Assisted Natural Regeneration)
/ege	tation Community - Eucalyptus tereticornis dominated canopy
Tyisti	ng native trees, shruhs and groundcovers to be protected and retained. Weed management to
entire	zone to encourage natural regeneration by reducing competition. Appropriate (sensitive) weed
nana	gement methodology within this zone to minimize any native vegetation damage / losses.
Anv s	ionificant bare / denuded areas as a result of weed management or natural disturbance are to be
eviev	ved on site. Minor cultivation (minor 'ripping or raking disturbance' as per SEQERF) within bare
areas	and external to canopy drip lines to be utilised to encourage native seed germination. Should
nere	be evidence of a lack of a native seed bank, blanket mulch (100mm depth) or jutenetting (1:3
Jaiter	s and locations prohe to erosion) to be installed to dare areas. All jutenetting to be installed to

manufacturer's recommendations. Assisted natural regeneration to occur with infill tubestock canopy species to match regional ecosystem mapping for site at the discretion of rehabilitation superintendent

species.



REHABILITATION METHODOLOGY - REHABILITATION DESIGN

one 2A - Existing Vegetation (Assisted Natural Regeneration) egetation Community - Acacia Regrowth & Mature Eucalyptus specimens

xisting native trees, shrubs and groundcovers to be protected and retained. Weed management to ntire zone to encourage natural regeneration by reducing competition. Appropriate (sensitive) weed nanagement methodology within this zone to minimize any native vegetation damage / losses

ny significant bare / denuded areas as a result of weed management or natural disturbance are to be viewed on site. Should there be evidence of a lack of a native seed bank and natural regeneration, lanket mulch (100mm depth) to be installed to bare areas above high banks and jutenetting to 1:3 atters, locations prone to erosion, lower banks and to extents of water inundated rehabilitation areas. Il jutenetting to be installed to manufacturer's recommendations. Assisted natural regeneration to ccur with infill tubestock installation including a diversity of tree, shrub and groundcover (especially to wer banks) species to match regional ecosystem mapping for site. Refer to plant schedule for pecies.

Cone 2B - Existing Vegetation (Reconstruction) egetation Community - Acacia Regrowth & Mature Eucalyptus specimens.

eed management to entire zone to remove any self-seeding weed species prior to rehabilitation vorks. All bare areas to be appropriately cultivated, topsoiled and jutenetted (1:3 batters and locations rone to erosion) as required. All jutenetting to be installed to manufacturer's recommendations. econstruction of natural environment to be undertaken via tubestock installation including a diversity tree, shrub and groundcover species to match regional ecosystem mapping and Bioretention echnical Guidelines requirements for site. Where required, bushfire considerations should be viewed by specialist bushfire consultant and species adjusted to minimize risks under their direction. efer to Basin Rehabilitation Notes on separate page for additional details. Refer to plant schedule for pecies.

one 3A - Existing Vegetation (Assisted Natural Regeneration) egetation Community - Mixed Eucalypt, Corymbia and Acacia regrowth

xisting native trees, shrubs and groundcovers to be protected and retained. Weed management to ntire zone to encourage natural regeneration by reducing competition. Appropriate (sensitive) weed nanagement methodology within this zone to minimize any native vegetation damage / losses

ny significant bare / denuded areas as a result of weed management or natural disturbance are to be viewed on site. Should there be evidence of a lack of a native seed bank and natural regeneration lanket mulch (100mm depth) to be installed to bare areas above high banks and jutenetting to 1:3 atters, locations prone to erosion, lower banks and to extents of water inundated rehabilitation areas. Il jutenetting to be installed to manufacturer's recommendations. Assisted natural regeneration to ccur with infill tubestock installation including a diversity of tree, shrub and groundcover (especially to ower banks) species to match regional ecosystem mapping for site. Refer to plant schedule for pecies.

one 3B - Existing Vegetation (Reconstruction) egetation Community - Mixed Eucalypt, Corymbia and Acacia regrowth

eed management to entire zone to remove any self-seeding weed species prior to rehabilitation vorks. All bare areas to be appropriately cultivated, topsoiled and jutenetted (1:3 batters and locations rone to erosion) as required. All jutenetting to be installed to manufacturer's recommendations. Reconstruction of natural environment to be undertaken via tubestock installation including a diversity tree, shrub and groundcover species to match regional ecosystem mapping and Bioretention echnical Guidelines requirements for site. Where required, bushfire considerations should be viewed by specialist bushfire consultant and species adjusted to minimize risks under their direction. efer to Basin Rehabilitation Notes on separate page for additional details. Refer to plant schedule for pecies.

Zone 4 - Existing Vegetation (Natural Regeneration) egetation Community - Mixed Eucalypt Dominated canopy

Existing native trees, shrubs and groundcovers to be protected and retained. Weed management to entire zone to encourage natural regeneration by reducing competition. Appropriate (sensitive) weed management methodology within this zone to minimize any native vegetation damage / losses.

Any significant bare / denuded areas as a result of weed management or natural disturbance are to be reviewed on site. Should there be evidence of a lack of a native seed bank and natural regeneration blanket mulch (100mm depth) to be installed to bare areas above high banks and jutenetting to 1:3 batters, locations prone to erosion, lower banks and to extents of water inundated rehabilitation areas. All jutenetting to be installed to manufacturer's recommendations. Assisted natural regeneration to occur with infill tubestock installation including a diversity of tree, shrub and groundcover (especially to lower banks) species to match regional ecosystem mapping for site. Refer to plant schedule for

CLIENT:	<i>∎</i> landscape architecture				
MOUNTAIN RIDGE PTY LTD	REHABILITATION PLAN REHABILITATION NOTES				
PROJECT: MOUNTAIN RIDGE ROAD,					
SOUTH MACLEAN	DATE: JAN 2018	CHECKED:MS			
SCALE:	CLIENT REF.: 7344	DRAWN: RM			
AS NOTED	DRAWING NO.: 7344 L RP 04 B				

REHABILITATION METHODOLOGY - SITE WORKS

Following resolution of the site analysis and management areas as part of rehabilitation design, prioritising site works should be considered. Prior to site works commencing, the site should be secured from degrading impacts such as grazing by stock, unauthorised access and rubbish. Some factors that may require immediate attention include

- The presence of highly invasive weed species which may disperse further prior to substantial site works commencing.
- The presence of weed species which may have a long term impact on ecological communities such as exotic and weed varieties of vines.
- Flammable materials (including weed thickets, grasses and vines).
- Damaging and easy access by 4WD, motorbikes and pedestrians into core retained vegetation and ecological restoration areas. This may require installation of temporary fencing if deemed appropriate

Site works can be typically broken down into the following categories:

- Primary Works
- Follow-up Works
- Maintenance Works

Primary Works

Primary works or initial works within the site or a section of the site involves a sequence of activities such as the control of all groundcover weeds, woody weeds in the understorey and exotic vines prior to the control of weed trees. Primary work has the effect of creating a large degree of disturbance which will stimulate the germination of native and exotic species. Therefore, continuing works should be scheduled shortly after the initial visit to allow for timely control of the newly regenerating weeds. Highly invasive weeds should be treated as a priority during primary work in order to avoid invasion of newly disturbed areas. Some weeds will need to be treated in steps e.g. where areas of weed is being used by nesting birds or where the staged removal of canopy weed trees is required. Techniques used during primary work commonly involve spot spray, cut-scrape-paint, cut-paint, scrape-paint, roll-hang and over spraying (source: SEQERF). Refer to Weed Management notes for additional details.

Following completion of weed management, rehabilitation (such as assisted natural regeneration, construction and fabrication planting) to occur in areas unaffected by weed management activities or areas that primary weed management activities have concluded. Refer to Rehabilitation Works notes for additional details

At the end of primary work, the zone will have been comprehensively and systematically worked, ready for follow up works

Follow-up Works

At intervals, which will vary according to the type of weed impacting the site and growing conditions, follow-up work will be necessary. This generally involves the spot-spraving of newly germinating weeds and resprouting sections of woody weeds and vines. It is at this stage that observational visits should be made to the site to determine what progress the vegetation is making, and decide when to implement further follow-up work. A site that receives badly-timed, too frequent or too little follow-up will rapidly experience setbacks, as weed propagules will quickly become established in the newly disturbed areas. Germinating native seedlings may be swamped by weeds or damaged by inexperienced operators thereby exhausting the seedbank. Unless adequate follow-up can be ensured when planning restoration works, there is little point in commencing primary work, as time and resources are consumed with no substantial gain achieved (source: SEQERF)

intenance Works

By the maintenance stage, the vegetation community is at a point where native plant species are ninating and establishing, and canopy formation is occurring. Weed density is starting to decrease as the native plants which have been encouraged during the previous restoration works are able to out-compete the weeds. One of the fundamental principles of ecological restoration is that it attempts to create or re-establish an ecosystem that is self-sustaining. Therefore, it is the underlying goal that maintenance will eventually be decreased to a minimum. While this is not always possible, due to factors such as the continual reintroduction of weed propagules to the site from nearby residential areas; unfavourable seasons or weather event; persistent weed species; or global influences such as the enhanced greenhouse effect, it should always be strived for (source: SEQERF)

Maintenance works may include minor ongoing weed management and infill planting depending on site conditions

REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

Weed management typically comprises a major part of rehabilitation site works. Weed management provides the basis of aiding natural regeneration and assisted natural regeneration. It also forms part of the preliminary work required for reconstruction and fabrication scopes. Weed Management to be indertaken in accordance with SEQERF Primary, Follow-up and Maintenance works notes (adjacent).

Critical skills for Weed Management include:

- Identification Skills
- Knowledge of different techniques
- . Knowledge of relevant legislation

Identification Skills

Both native and weed species should be identified prior to primary weed removal works and ongoing throughout the follow-up and maintenance periods. This is to maximise natural regeneration and reducing likelihood of accidental weed spraying to native vegetation. Regenerating species to be treated and maintained in a similar manner to newly planted revegetation tubestock. If contractor is unsure of species, advise should be sought by botanist, specialist contractor or confirmed with Queensland Herbarium. Refer to indicative Weed Treatment schedules derived from Queensland Herbarium for an indication of weed species and treatments.

Knowledge of Different Techniques

A range of weed management techniques are available to combat varying weed species and scenarios. Refer to adjacent schedules for an indication of weed management techniques

Knowledge of Relevant Legislation

It is expected contractors have a depth of knowledge of relevant legislation to complete site rehabilitation works.

This may include occupational Health and Safety laws as well as environmental and heritage protection legislation. Bush regenerators must comply with the requirements of the Workplace Health and Safety Act 2011 or, when working on Commonwealth lands, the Commonwealth's Occupational Health and Safety (Commonwealth Employment) Act 1991. Contractors should also obtain all relevant permits required under State and Commonwealth legislation (e.g. Nature Conservation Act 1992, Fisheries Act 1994 Vegetation Management Act 1999 Biosecurity Act 2014- including Fire Ant Movement Controls). Contractors must also be aware of and adhere to cultural heritage protection obligations under the Aboriginal Cultural Heritage Act 2003 and where chemicals are in use, the Agricultural Chemicals Distribution Control Act 1966.

In addition to the above, contractors should also be familiar with local government body requirements (e.g. Pest Management Plans, Local Codes, Policies and Guidelines) and Classifications of weeds. efer to adjacent schedules for classification of weeds under the Land Protection Act (superseded by the Biosecurity Act 2014).

	WEED MANAGEMENT TECHNIQUES		WEED MANAGEMENT TECHNIQUES			
METHOD	DESCRIPTION	METHOD	DESCRIPTION			
Herbicide	The herbicide weed control techniques described below provide a range of proven methods that can be used on a restoration site.		This method involves mixing an oil-soluble herbicide in diesel/kerosene and painting or spraying the full circumference of the trunk or stem of the plant from ground level to a height			
Cut - Scrape-Paint	Cut the stem of the plant close to the ground (approximately 1-2cm) ensuring that soil does not come in contact with the cut surface. The cut can be made at a slight angle in order to increase the surface area that is exposed to the chemical. Apply herbicide immediately to the cut stump using poison pot and brush or dripper bottle. Using a knife, scrape the sides of the stump thoroughly to expose the green tissue. Apply herbicide to the scraped stump. The chemical must be applied within 10 seconds of the cut or scrape being made in order for it to be fully effective.	Basal Barking	of approximately 45cm. Basal bark application is suitable for thin-barked woody weeds including saplings, regrowth and multi-stemmed shrubs. The method will usually result in the mortality of difficult-to-control woody weeds at any time of the year, provided the bark is not wet or too thick to enable the herbicide to penetrate. The method should not be used in wet weather, adjacent to waterways or in areas where native trees and shrubs are located. The use should be restricted to situations where a weed is particularly difficult to control e.g. cherry guava and where other methods have been unsuccessful.			
Cut - Paint	Cut the stem of the plant close to ground level. Apply herbicide to the cut stump using poison pot and brush or dripper bottle. This method is best suited to easy-to-treat weeds such as small-leaved privet (Ligustrum sinense), provided that the diameter of the stem at ground level is less than approximately three centimetres. If a glyphosate-/ metsulfuron methyl herbicide mix is being used in the poison pot, a greater range of weeds can be controlled using this method e.g. Easter cassia.	Wick Wiping	Wick wipers can be manually used with a sponge or wick applicator, attached to a container filled with herbicide or as an attachment towed by a tractor. The manual method can be used to selectively apply herbicide to the leaves of weeds growing in sensitive situations. The hand held container can leak and generally spot spraying would be recommended. The use of a tractor drawn wick wiper is used to control taller growing species. This method could be used in proceeding the growth of lower growing species. This method could be used in proceeding the growth of lower growing species. This method could be used in proceeding the growth of lower growing species.			
Scrape - Paint	Scrape as much of the stem as possible (one side of the stem) using a knife and apply herbicide to the scrape. Leave a small section of the vine unscraped, and then twist the vine so that the next scrape is made on the opposite side of the stem to the preceding scrape. Continue along the length of the vine, scraping and painting as much of the stem as possible, with scraping to be concentrated along the thicker stems close to the root of the plant. This is the best method to use for madeira vine, as it allows the chemical to translocate to the underground storage organs and aerial tubers which may be hanging in large clusters above head height. This avoids the potential problem of tubers from cut stems left hanging in the trees from dropping to the ground and sprouting. When scraping madeira vine stems a deep scrape is advisable – scrape right through to the fibrous, stringy section of the stem, taking care not to sever the vine. This method is also suitable for treatment of ochna.	Stem Injection	Large woody weeds such as camphor laurel, coral trees (Erythrina spp, Privet Ligustrum spp) and umbrella trees are generally treated by stem-injection. Holes are drilled at regular intervals around the base of the tree and exposed roots using a drill. A tree injection syringe attached to a small capacity knapsack is used to fill the holes with the herbicide. Stem- injection of trees can also be undertaken using a hatchet to create cuts in a 'brickwork pattern' in trunks of trees for the application of herbicide (known as tree frilling). Frilling is more labour intensive than drilling. The greatest benefit of steminjection is that the trees can be left standing in situ as they die, provided there is no risk to humans or infrastructure from falling limbs. This creates convenient roosts for birds and other animals, and prevents the formation of large amounts of debris on the ground and damage to understorey plants which would result if the trees were to he cut down using a chainsaw			
Over-spraying	Over-spraying involves the use of knapsacks or power sprayers to treat large expanses of weed such as lantana thickets. The foliage must be covered with herbicide but not to the point of running off the plant. The dead plants remain in place and can be cut down at a later stage. Prior to over-spraying, any weeds that are growing closely around established native plants more the hard compand or totated but with come a plant.	Mechanical	Mechanical weed control involves the use of powered and non-powered equipment such as brushcutters, chainsaws, slashers, shovels, pruners, saws, etc. These methods are best used in situations where there is a large, uninterrupted stand of weeds.			
	must be nand removed or treated by cut-scrape-paint. This small gas-powered injector kit is fitted into a knapsack for easy carrying and delivers large doplets in a stream over the weed. The gun is used to deliver a concentrated berbicide	Dig and Bag	Dig and remove tuberous/ rhizomatous root systems. Remove roots or whole plant in hard/ compacted soils. Place in suitable container and remove from site, dispose of by deep burial, burn or burial at a land fill, must not place declared weed species in recycling (mulch).			
Splatter Gun	(glyphosate or metsulfuron methyl) across large dense expanses of weed. The method is used for species such as lantana. Splatter gun involves spraying strips at one to two metre intervals over the thicket. The herbicide is then translocated throughout the entire plant. The method does not require the whole plant to be covered as in over-straw.	Hand-Pull	Remove totally from ground by hand (human). Perform when soil is moist. Applicable to small infestations or areas of environmental sensitivity (including sensitive watercrouses, when frogs are breeding, or presence of threatened species). May involve use of machineary (a schemischutter chainsaw slasher dozer dozer dozer). Suitable			
	A knapsack filled with an appropriate herbicide mix is used by the operator to selectively control environmental weeds. A keen eye and an ability to distinguish between the native and weed species likely to be present, especially at seedling stage, is essential. Marker dye is	General Mechanical	for lage infestations and weed trees. Initially cost-effective, but requires immediate revegetation of site or matting/ mulch application and extensive maintenance periods. Generates excessive soil and vegetation disturbance.			
Spot-spraying	added to the chemical mix to allow the operator to see what has already been sprayed, thus covering the ground weeds comprehensively and thoroughly Glyphosate and metsulfuron methyl are the main herbicides used for spot-spraying in ecological restoration, together with	Note: Table adapted from a table in the SEQERF				
	the addition of a penetrant and/or surfactant and marker dye.	DECLA	RED PLANTS OF QUEENSLAND LAND PROTECTION ACT - CLASSES			
	Vines such as mile-a-minute (Ipomoea carrica) which produce long stolons extending many metres along the surface of the ground, are suited to the roll-hang method. Locate the base of	CLASS	DESCRIPTION			
Roll-hang	the plant and carefully pull up the runners and roll them up. The resulting roll of vine is then hung in the fork of a tree to dry out as if it is left on the ground it is likely to re-shoot. Where runners are climbing up into a tree they are cut off at head height prior to the runner being rolled up – there is no need to pull cut vines down from trees as this action is likely to damage the tree. The base of the vine is treated using the cutcrape-paint method.	1	A Class 1 pest is one that has the potential to become a very serious pest in Queensland in the future. we need to prevent the import, possession and sale of these species so that they can't escape to become pests. all landholders are required by law to keep their land free of Class 1 pests. It is a serious offence to introduce, keep or sell Class 1 pests without a permit.			
Gouge-paint	This method applies to plant species that have a fleshy underground storage organ, such as the large tuber that is often found at the base of madeira vine. It is also particularly appropriate for the treatment of climbing asparagus (Protasparagus plumosus). If using this technique on climbing asparagus, first cut the stems that are growing into the canony at head	2	A Class 2 pest is one that has already spread over substantial areas of Queensland, but its impact is so serious that we need to try and control it and avoid further spread onto properties that are still free of the pest. By law, all landholders must try to keep their land free of Class 2 pests and it is an offence to keep or sell these plants without a permit.			
	height and also at the base. The fleshy rhizome can then be gouged, or alternatively in the case of climbing asparagus, it may be struck several times firmly with the head of a pair of loppers, allowing the brown outer covering of the crown to peel away exposing the white fleshy inner section of the rhizome for annifestion of herbicide. Group out sections of the	3	A Class 3 pest is one that is very common in Queensland but is having a serious impact on native bushland. Landholders can be required to control these pests if they live next to 'environmentally sensitive areas', such as national parks or reserves, but only if the reserve is still free of the pest. Class 3 pests cannot be sold.			
	fleshy base with a knife and apply herbicide using a paint pot and brush or dripper bottle within 10 seconds	Note: Table adapted from a table in the SEQERF				

Note: Table adapted from a table in the SEQERF

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address 9 Thompson St Bowen Hills Q 4006	do not accept responsibility for any use of or reliance upon the contents of these drawings by any third party. Confirm all dimensions on site and clarify any discrepancies prior to construction.			B 16/03/2018 LODGEMENT MS	PROJECT:		ON PLAN
Group web www.saundershavill.com fax (07) 3251 9444 email mail@saundershavill.com					MOUNTAIN RIDGE ROAD		
surveying / town planning / urban design / environmental management / landscape architecture	ISO9001 ISO14001 Quality Environmental					DATE: JAN 2018	CHECKED:MS
	Quits Sensar	Note: Source for information contained on this page from SEQERF.			AS NOTED	CLIENT REF.: 7344	RP 05 B
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REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

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REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

OUFENSI AND HERBARIUM INVASIVE NATURALISED PLANTS IN SOUTH FAST OUFENSI AND SCIENTIFIC & SUB- LIFE FORM NON-CHEMICAL FAMILY CHEMICAL CONTROL COMMON NAME REGION & SOURCE CONTROL Seedlings: CS&P (G1.5); S/O Verbenaceae Lantana camara va Seedlings: Hand camara (lantana) Shrubs: blanket spray G100 or cut down and spray regrowth G100 o platter gun using 1 part to 9 parts water - apply only when plant is rowing, not dormant (r 1) Shrubs: CS&P or F/I (G1) Asteraceae Baccharis halimifolia s/o 2 10 Seedlings: Hand (groundsel bush) eedlings: CS&P (G1.5) or pull spray G200 (ref 1). H/O Crassulaceae Bryophyllum 8 Hand pull and Plantlets: spray G200 -3 MM or MM (ref 1). lagoense (mothe dispose of millions) V/O Tubers: crown or Regrowth and tuberlings Bignoniaceae Macfadyena unguis cati (cat's claw dig up, bag and spray G100 + MM or F100 creeper) remove. (ref 1). Ascending Stems: S&P Basellaceae V/O Small Vines & Anredera cordifolia (madeira vine) Tubers: Hand pull (GU); Tubers: gouge, Bag and dispose. scrape and paint (GU): round infestations: spra G200 or G200 + MM (ref 1) fluroxypyr (200 g/L) @ 35 Asparagaceae Asparagus africanus V/O dig out roots and dispose of at local (ornamental mLper1L oaragus, asparagus ouncil landfill site diesel/kerosene fern) remove entire crown and nderground ster to prevent regrowth Ulmaceae Celtis sinensis T/0 Stem injection ove when sn (Chinese celtis) .hand pull or dig glyphosate (360 g/L) @ Undiluted at 1 mL ut small seedlings combine dozing per 2 cm of hole or burning and cut controlled grazing for large infestations T/0 Saplings; CS&P (G1.5); 8 Lauraceae Cinnamomum Seedlings: Hand mphora (campho Trees: F/I (G1 or G1.5) or pull C&P (G1.5 or GU for ster laurel) up to 8 diameter); Seedlings: spray G200 or G200 + MM (ref 1). T/O Anacardiaceae Saplings: CS&P (G1.5); Schinus 6 Seedlings: Hand terebinthifolius Trees: F/I (G1.5); (broad-leaf peppe eedlings: spray G200 (r tree) 1). Salviniaceae Salvinia molesta Mechanica Aquatic areas: calcium 10 Ha/F (salvinia) removal of small dodecylbenzene sulphanate (AF-100) @ 1 infestations; part to 19 parts kerosen Salvinia weevil Biological control diquat (vegetrol) 50-100L/ha or 4L/100L water liquat (watrol) 50-100L/H or 4L/100L water: diquat (regione) 5-10L/Ha or 400mL + 150mL Agral / 100L water (see ref 2. 11 Cabombaceae Cabomba caroliniana Ha/F Mechanical 2. 4-D N-Butyl Ester 4 emoval of small (Rubber Vine Spray) @ (cabomba, fanwort infestations 12.5L/ML water (see ref 2 for application guide). 12 Asteraceae S/OA Chrysanthemoides N/A Stems: C&P or F/I (G1.5) 3 nonilifera subsp Bushes: spray or cut dow rotundata (bitou and spray regrowth G100 or MM (ref 1). bush)

		SCIENTIFIC &	SUBRE	LIFE FORM	NON-CHEMICAI				SCIENTIFIC &	SUBRE II	FE FORM	NON-CHEMICAI				SCIENTIFIC &	SUBRE	LIFE FORM	NON-CHEMICAI	
RANK	FAMILY	COMMON NAME	GION	& SOURCE	CONTROL	CHEMICAL CONTROL	RANK	FAMILY	COMMON NAME	GION &	SOURCE	CONTROL	CHEMICAL CONTROL	RANK	FAMILY	COMMON NAME	GION	& SOURCE	CONTROL	CHEMICAL CONTROL
13	Pontederiaceae	Eichhornia crassipes (water hyacinth)	4	Ha/OF	Mechanical removal of small infestations	Waterways: 2, 4-D acid ('AF 300') @ 1:200 with water; Aquatic Areas: glyphosate @1-1.3L/100L water (see ref 2. for application guide).	24	Poaceae	Sporobolus pyramidalis and S. natalensis (giant rat's tail grasses)	8	H/U?	Hand or mechanical removal of small infestations	Small infestations: spray glyphosate @ 15mL/L water, flupropanate @ 2mL/L water + ionic wetter @ 1mL/Lwater; Dense Infestations: blanket	36	Amaranthaceae	Alternanthera philoxeroides (alligator weed)	1?	Ha/U	physical removal of plant should not be attempted	Terrerstrial plants use Metsulfuron methyl (Brushoff*) + 1mL/L non-ionic wetter @ 80g/ha + 1mL/L non-ionic wetter or 10g/100L water +
14	Acanthaceae	Hygrophila costata (Glush weed)	3	Ha/F	Hand pull smal infestations. Can be controlled by planting	Glyphosate known to be effective.Species known to occur in waterways so EPA should be contacted							spraying glyphosate 3L/ha, flupropanate 2L/ha (ref 2).							1mL/L non-ionic wetter. Free floating plants Glyphosate (Roundup
15	Oleaceae	Ligustrum lucidum	5	T/0	species.	Sanlings: CS&P or C&P	25	Asteraceae	Ageratina riparia (mistflower)	9	H/O	to dry.	Vines: CS&P (G1 5):	37	Passifloraceae	Passiflora suberosa (cork passionflower)	8	v/o	N/A	Stems: CS&P Seedlings & Regrowth: spray G200 or
15	oncascae	(tree privet)	5	1,0	pull	(G1.5); Trees: F/I (G1 or G1.5) or C&P GU for stems	20	,	(mothvine)		.,.	Hand pull. Bag and remove fruit.	Seedlings: spray G200 or G200 + MM or MM (ref 1).	38	Poaceae	Melinis minutiflora	5	H/A	Grazing or mowing	G200 + MM (ref 1). Spray: Fluazifop-P 212g/L
						up to 8cm diameter; Seedlings: spray MM or G200 + MM if other weeds such as Lantana or	27	Crassulaceae	Bryophyllum daigremontianum x B. delagoense (hybrid mother-of	6	H/O	Hand pull and dispose	Plantlets: spray G200 + MM or MM (ref 1).	39	Aristolochiaceae	(molasses grass) Aristolochia elegans	8	V/0	Stems: Hand pull;	@ 2L/Ha, Glyphosate 360g/L @ 1L/100L water (ref 2). Stems: CS&P (G1.5);
						Camphor Laurel are present (ref 1).	28	Convolvulaceae	millions) Ipomoea cairica (mile	- 7	V/0	Vines & Runners:	Vines and Runners: CS&P			(Dutchman's pipe)			Fruit: Bag and remove.	Seedlings: spray G200 or G200 + MM or MM (ref 1).
16	Asteraceae	Sphagneticola trilobata (Singapore daisy)	6	H/O	Hand pull	Hand pull and/or spray G200 + MM (ref 1).			a-minute)			hand pull, roll up and hand up to dry.	(G1.5); Larger Stems, Roots and Nodes: spray G100 + MM (ref 1).	40	Convolvulaceae	Ipomoea indica (blue morning glory)	5	V/O	Vines and Runners: hand pull, roll up and hang to dry.	Vines and Runners: CS&P (G1.5); Larger Stems, Roots and Nodes: spray
17	Asteraceae	Ageratina adenophora (crofton weed)	6	H/O	Hand pull and hang to dry.	Spray MM or G200 or G200 + MM if other weeds such as Lantana or Camphor Laurel are present (ref 1).	29	Sapindaceae	Cardiospermum grandiflorum (balloon vine)	7	V/O	Seedlings & Small Vines: Hand Pull	Stems: CS&P (G1.5); Seedlings or Small vines: spray G200 or G200 + MM (ref 1).	41	Mimosaceae	Leucaena leucocephala (leucaena)	6	ST/A	Small plants: Hand pull or mechanical removal	G100 + MM or F150 (ref 1). Herbicide Control - Basal Bark application: triclopyr 240g/L + picloram 120g/L
18	Verbenaceae	Lantana montevidensis (creeping lantana)	8	S/O	Fire and/or mechanical control	Spray (march to may): glyphosate 11/100L water; metsulfuron methyl 10g/100L water; metsulfuron methyls + glyphosate 173g/100L water; Basal bark (anytime): triclopyr 1L/60L	30	Asclepiadaceae	Cryptostegia grandiflora (rubber vine)	6	V/0	Scattereded or medium-density infestations: Where possible, repeated slashing close to ground level is recommended.	Foliar spray - Follow-up basal bark/cut stump/foliar spray as necessary with Triclopyr + picloram (Grazon DS, Grass-up, etc.) @ 0.35–0.5 L/100 L water							@ 11/60. diesel; C&P: triclopyr 240g/L + picloram 120g/L @ 11. per 60. diesel spray triclopyr 300g/l + picloram 120g/L @ 350mL per 100L water. Combination of chemical and mecha
						Diesel, picloram + triclopyr @ 1L/60L Diesel, Glyphosate, neat	31 32	Phytolaccaceae Poaceae	Rivina humilis (baby pepper) Sporobolus africanus	8	H/O H/U	Hand pull and hang to dry. Hand or mechanical	Spray G100 (ref 1). Small infestations: spray	42	Poaceae	Brachiaria mutica (para grass)	6	Ha/A	Grazing	Herbicide Control - Foliar application (Knapsack): glyphosate 360g/L@
19	Fabaceae	Neonotonia wightii (glycine)	5	H/A	N/A	application; Splatt Vines: CS&P (1:1.5) or spray G100 + MM or MM (ref 1).			(Parramatta grass)			removal of small infestations	glyphosate @ 15mL/L water, flupropanate @ 2mL/L water + ionic wetter @ 1mL/Lwater; Dense							200mL/15L water; Foliar: glyphosate 360g/L @ 9L/Ha; Handgun: glyphosate 360g/L @
20	Poaceae	Panicum maximum (green panic and guinea grass)	8	H/A	Hand or mechanical removal of small infestations	Spray: glyphosate @ 13mL/1L water (ref 2.)							spraying glyphosate 3L/ha, flupropanate 2L/ha (ref 2).	43	Hydrocharitacea e	Egeria densa (egeria waterweed)	2	Ha/F	hand pulling, cutting and digging with machines	N/A
21	Uleaceae	(Chinese privet)	4	170	pull	(G1.5); Trees: F/I (G1.5); Seedlings: spray MM or G200 + MM if other weeds such as Lantana or	33	Poaceae	Sporobolus fertilis (giant Parramatta grass)	9	H/U	Hand or mechanical removal of small infestations	Small infestations: spray glyphosate @ 15mL/L water, flupropanate @ 2mL/L water + ionic wetter	44	Pinaceae	Pinus elliottii (slash pine)	4	T/A	Seedlings: Hand pull; Saplings and Trees: cut close to ground or ring-bark	Saplings and Trees: F/I (G1.5) ensuring thick bark is penetrated (ref 1).
22	Ochnaceae	Ochna serrulata	7	s/o	N/A	Camphor Laurel are present (ref 1). Stems: CS&P or S&P or F/I							@ 1mL/Lwater; Dense Infestations: blanket spraying glyphosate 3L/ha,	45	Caesalpiniaceae	Senna pendula var. glabrata (Easter cassia)	7	ST/O	Seedlings: Hand pull	Shrubs: CS&P or F/I (G1.5); Seedlings: spray G200 or G200 + MM or MM; collect
		(ochna)				(G1.5); Seedlings and Regrowth: spray G200 + MM or MM. Trial basal bark F100 or G200 + MM	34	Poaceae	Eragrostis curvula	7	H/U	Chipped out before	flupropanate 2L/ha (ref 2). Glyphosate (360 g/L)	46	Poaceae	Chloris gayana (Rhodes grass)	9	H/A	Hand pulling and removal and	Spray: glyphosate @ 11/100L water
23	Asparagaceae	Asparagus	5	H/O	dig out unwanted	(ref 1). Spot spray -			(African lovegrass)			they flower. When chipping out the plant ensure that the	(e.g. Weedmaster* Duo) @ 10 ml/1 L water	47	Crassulasaaa	Brionhullum	F	L/O	digging of larger clumps	Plantlate: carey C200 -
		aetniopicus cv. Sprengeri (asparagus ground fern)			of at the appropriate council	(600 g/L) @ 10 g per 100 L water plus wetting						tussock crowns are removed, as this will prevent regrowth. If in seed, the stems must		47	Asteraceae	pinnatum (resurrection plant) Parthenium	6	н/и	dispose hand pulling of	MM or MM (ref 1).
					the entire crown of underground stem	plus wetting agent. Cut stump, spot	35	Asteraceae	Gymnocoronis	3	Ha/F	be cut and bagged first. place plant material	Glyphosate and metsulfuron-			hysterophorus (parthenium weed)			small areas is not recommended	500 g/L @ 0.4 L/100 L
					of plant to prevent regrowth	spray, Apply neat Diesel			spilanthoides (Senegal tea)		,	in a sealed plastic bag, leave in sunlight to rot then burn or	methyl @ 15mL/L water	49	Caprifoliaceae	Lonicera japonica (Japanese honeysuckle)	3	V/O	Vines and Runners: hand pull, roll up and hang to dry.	Vines and Runners: CS&P (G1.5); Larger Stems, Roots and Nodes: spray
					•							dispose of at a								G100 + MM or MM (ref 1).

		(infestations	water; Aquatic Area glyphosate @1-1.3L/1
						water (see ref 2. fo application guide).
14	Acanthaceae	Hygrophila costata (Glush weed)	3	Ha/F	Hand pull smal infestations. Can be controlled by planting competitive native	Glyphosate known to effective.Species kno to occur in waterway EPA should be contac before spraying (ref
15	Oleaceae	Ligustrum lucidum (tree privet)	5	T/O	Seedlings: Hand pull	Saplings: CS&P or C& (G1.5); Trees: F/I (G1 G1.5) or C&P GU for st up to 8cm diameter Seedlings: spray MM G200 + MM if other we such as Lantana or Camphor Laurel are present (ref 1).
16	Asteraceae	Sphagneticola trilobata (Singapore daisy)	6	H/O	Hand pull	Hand pull and/or spr G200 + MM (ref 1).
17	Asteraceae	Ageratina adenophora (crofton weed)	6	H/O	Hand pull and hang to dry.	Spray MM or G200 or G + MM if other weeds s as Lantana or Camph Laurel are present (re:
18	Verbenaceae	Lantana montevidensis (creeping lantana)	8	s/o	Fire and/or mechanical control	Spray (march to may glyphosate 1L/100L w metsulfuron methy 10g/100L water; metsulfuron methy! glyphosate 173g/100 water; Basal bark (anytime): triclopyr 11 Diesel, picloram + triclopyr @ 1L/60L Die Glyphosate, neat apolication: Solatt
19	Fabaceae	Neonotonia wightii (glycine)	5	H/A	N/A	Vines: CS&P (1:1.5) spray G100 + MM or N (ref 1).
20	Poaceae	Panicum maximum (green panic and guinea grass)	8	H/A	Hand or mechanical removal of small infestations	Spray: glyphosate @ 13mL/1L water (ref 2
21	Oleaceae	Ligustrum sinense (Chinese privet)	4	T/O	Seedlings: Hand pull	Saplings: CS&P or C& (G1.5); Trees: F/I (G1. Seedlings: spray MM G200 + MM if other we such as Lantana or Camphor Laurel are present (ref 1).
22	Ochnaceae	Ochna serrulata (ochna)	7	s/o	N/A	Stems: CS&P or S&P o (G1.5); Seedlings an Regrowth: spray G20 MM or MM. Trial bas bark F100 or G200 + N (ref 1).
23	Asparagaceae	Asparagus aethiopicus cv. Sprengeri (asparagus ground fern)	5	H/O	dig out unwanted plants and dispose of at the appropriate council landfill. remove the entire crown of underground stem of plant to prevent regrowth	Spot spray - metsulfuronmethy (600 g/L) @ 10 g per 10 water plus wetting agent or 100 g/ha plus wetting agent. C stump, spot spray, Apply neat Die

	AMEN Issue	Date 24/01/2018	Description CLIENT ISSUE	Checked	CLIENT N
Note: Herbicides must be applied by appropriately qualified/ supervised persons in accordance with the Agricultural Chemicals and Distribution Control Act 1966 at rates identified on registered products (such rates supersede those noted in above tables), or on an Australian Pesticides and Veterinary Medicines Authority (APVMA) issued off-label permit where applicable. Note: Source for information contained on this page from Queensland Herbarium (Qld Govt).	B	16/03/2018	LODGEMENT	MS	PROJEC

REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

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REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

CLIENT:	Iandscape architecture					
MOUNTAIN RIDGE PTY LTD						
PROJECT: MOUNTAIN RIDGE ROAD,	REHABILITATION NOTES					
SOUTH MACLEAN	DATE: JAN 2018	CHECKED:MS				
SCALE:	CLIENT REF.: 7344	DRAWN: RM				
AS NOTED	DRAWING No.: 7344 L RP 06 B					

REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

QUEENSLAND HERBARIUM INVASIVE NATURALISED PLANTS IN SOUTH EAST QUEENSLAND SCIENTIFIC & SUBRE LIFE FORM NON-CHEMICAL RANK FAMILY CHEMICAL CONTROL COMMON NAME GION & SOURCE CONTROL 51 Fabaceae Vines: CS&P (1:1.5) or Macroptilium N/A V/A 8 atropurpureum spray G100 + MM or MM (siratro) (ref 1). 52 Rosaceae Rubus ellipticus s/o slashing hinders Grazon DS (yellowberry) growth, giving picloram/triclopyr 1:200 some control if parts water + wetting plants are slashed agent before they seed 53 Colchicaceae Gloriosa superba 3 V/O N/A Young Shoots: spray G200 or G200 + MM. Best result (glory lily) in Oct-Nov and by using 'Pulse' as surfucant (ref : Verbenaceae Foliar spray 600 g/L 54 Phyla canescens Ha/O a combine lippia, Condami approach of Dichlorprop @ 5 ml /1 couch) different control water or 2,4-D amine (500 g/L) + 1% crop oil @ 2-4 nethods including chemical and L/ha + 1% crop oil mechanical with and managemen practices is most effective Spray G100 (ref 1). 55 Solanaceae Solanum 8 V/O Hand pull seaforthianum (Brazilian nightshade) 56 Araceae Pistia stratiote Ha/OF Mechanical Glyphosate 360g/L@1 (water lettuce) removal of small 1.3L/100L water or infestations 6.9L/Ha; diquat 20g/L @ 4L/100L water or 50 100L/Ha (see ref 2. for application guide). Asparagaceae Rhizomes: crown Asparagus plumosus V/O Rhizomes: gouge and (asparagus fern) and hang to dry. paint (G1.5); Stems: wind up and spray or cut high and low and spray regrowth G200 or G200 + MM (ref 1). 58 Tradescantia N/A Spray F150 (as per label) H/O Commelinaceae minensis (Qld use or G200 or G200 + MM; T. albiflora) Collect and bag or roll ar rake carefully. Dispose (wandering jew) (ref 1). 59 Solanaceae Cestrum parqui s/o Seedlings: Hand Stems: CS&P (G1.5) or 6 spray G100 (ref 1). (green cestrum) pull 60 Caesalpiniaceae s/o hrubs: CS&P or F/I (G1. Senna Seedlings: Hand septemtrionalis pull Seedlings: spray G200 or G200 + MM or MM; collect arsenic bush, was S floribunda) and bag seeds (ref 1). Shrubs: CS&P (G1.5) or F/ 61 Solanaceae Solanum s/o Seedlings: Hand 8 auritianum (wild (G1:1.5); Seedlings: spra pull tobacco tree) G200 (ref 1). s/o 62 Apocynaceae Catharanthus roseu Hand pull Spray G100 (ref 1). (pink periwinkle) Stems: CS&P; Seedlings & 63 Passifloracea V/O iflora subpeltata Stems: Hand pull (white passion Regrowth: spray G200 or G200 + MM (ref 1). flower) 64 Fabaceae Desmodium H/A land pull or crow CS&P tuberous roots inatum (silverlea and dispose (G1.5); spray G200 or G200 + MM or MM; collect and desmodium) bag seeds (ref 1). 65 Poaceae Melinis repens (red 10 H/A Grazing or mowing Spray: Fluazifop-P 212g/L @ 2L/Ha, Glyphosate Natal grass) 360g/L @ 1L/100L water (ref 2). 66 Nymphaeaceae Nymphaea caerulea Ha/OF Hand pull small Spray with or Diquat Glyphosate. Occurs in infestations. subsp. zanzibarens (blue lotus) waterways, thus EPA should be notified befor

REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

RANK	FAMILY	SCIENTIFIC & COMMON NAME	SUBRE GION	LIFE FORM & SOURCE	NON-CHEMICAL CONTROL	CHEMICAL CONTROL
67	Onagraceae	Oenothera drummondii subsp. drummondii (beach evening primrose)	3	H/O	Hand pull	Spray G100 (ref 1).
68	Tiliaceae	Triumfetta rhomboidea (Chinese burr)	7	H/U	Hand pull	Spray G100 (ref 1).
69	Haloragaceae	Myriophyllum aquaticum (parrot's feather)	3	Ha/F	N/A	Spray: glyphosate 360g/L @ 100mL/10L water (ref 1).
70	Passifloraceae	Passiflora foetida (stinking passion flower)	7	V/0	Hand Pull	CS&P (G1.5); spray G200 or G200 + MM (ref 1).
71	Asteraceae	Verbesina encelioides (crownbeard)	7	H/U	Vines: Hand pull and remove; Runners: Roll up and hang to dry.	Stems: S&P (GU); Regrowth and seedlings: spray G200 or G200 + MM (ref 1).
72	Poaceae	Paspalum mandiocanum (broad leaf paspalum)	3	H/A	N/A	Spray G200 - resistant to weaker strength (ref 1).
73	Poaceae	Paspalum dilatatum (paspalum grass)	10	H/A	Hand pull or dig up	Spray G100 (ref 1).
74	Ruppiaceae	Ruppia maritima (sea tassel)	2	Ha/F	Hand pull or dig up	Spray G100 (ref 1).
75	Arecaceae	Syagrus romanzoffiana (queen palm)	4?	T/O	Seedlings: Hand pull or crown; Trees: cut below growing point	Trees: F/I (G1.5); Seedlings: spray G200 + MM (ref 1).
76	Poaceae	Hymenachne amplexicaulis cv. Olive (hymenachne)	1?	Ha/A	a combined approach of different control methods including mechanical, chemical and biological with land management practices is most effective	360 g/L Glyphosate (includes Roundup Biactive & Weedmaster Duo) – 1 //100L water or 10 L/ha delivered by boom
77	Asteraceae	Senecio tamoides (Canary creeper)	3	V/0	Vines: Hand pull and remove; Runners: Roll up and hang to dry.	Stems: S&P (GU); Regrowth and seedlings: spray G200 or G200 + MM (ref 1).
78	Poaceae	Cenchrus ciliaris (buffel grass)	4	H/A	Hand or mechanical removal of young plants	Herbicide Control - Glyphosate 7mL/L water; Dichlobenil 600g/100m2; Fluazifop 50-100mL/10L water (ref 2).
79	Acanthaceae	Thunbergia grandiflora (thunbergia, blue thunbergia)	2	V/0	N/A	CS&P (G1.5); spray G200 (ref 1).
80	Cactaceae	Opuntia tomentosa (velvet tree pear)	8	S/O	Biological controls available: cactoblastis cactorum successful. Mechanical control difficult. Fire can be used.	Spray; Basal Bark application; Injection: Triclopyr: .8L/60L diesel. Picloram + Triclopyr: 1L/60L diesel. Amitrole: 1mL/3cm (ref 3).
81	Euphorbiaceae	Ricinus communis (castor oil plant)	7	s/o	Seedlings: Hand pull	Shrubs: S: CS&P or F/I (G1.5); Seedlings: spray G200 (ref 1).
82	Asteraceae	Senecio madagascariensis (fire weed)	6	H/U	Vines: Hand pull and remove; Runners: Roll up and hang to dry.	Stems: S&P (GU); Regrowth and seedlings: spray G200 or G200 + MM (ref 1).

QUE	ENSLAND HERE		NATU	KALISED I	LAN IS IN SOUT	HEAST QUEENSLAND	QUE	ENSLAND HERI		NATU	KALISED	PLAN IS IN SOUT	
RANK	FAMILY	SCIENTIFIC & COMMON NAME	SUBRE GION	LIFE FORM & SOURCE	NON-CHEMICAL CONTROL	CHEMICAL CONTROL	RANK	FAMILY	SCIENTIFIC & COMMON NAME	SUBRE GION	LIFE FORM & SOURCE	NON-CHEMICAL CONTROL	CHEMICAL CONTROL
83	Cyperaceae	Cyperus involucratus	6	Ha/OF	Each	Aquatic areas - Glyphosate	98	Polygonaceae	Acetosa sagittata	4	V/U	Tubers: Dig up, bag	Tubers: Spray G200 or G200 + MM or MM (ref 1)
		(Anteanseuge)			with a spade and	Land—commercial/indust	99	Poaceae	Cynodon dactylon	10	H/OA	Hand pull small	Spray: glyphosate @
					the entire plant	rial, rights of way -			(couch, Bahama grass			infestations,	200mL/15L water. Follow
					exposing the root	glyphosate-ipa, glyphosate-mas, imazapyr			Introduced cultivars)			or smother with	up spray (ref 3).
					system while				-			mulch.	
					sure all aerial parts		100	Bignoniaceae	bells)	4	51/0	N/A	spray G200; Seeds: collect,
					of the plant are								bag and remove (ref 1).
					completely covered		101	Rosaceae	Rhaphiolepis indica	3	ST/O	Seedlings: Hand	Saplings: CS&P (G1.5):
84	Asteraceae	Tithonia diversifolia	5	H/O	N/A	Stems: CS&P (G1.5) or cut			(Indian hawthorn)			pull	Trees: F/I (G1.5);
		(Mexican sunflower)				and spray regrowth and seedlings (G100 or MM)							Seedlings: spray G200 or G200 + MM or MM (ref 1)
						(ref 1).	102	Mimosaceae	Mimosa pudica	4	S/A	N/A	Pastures -
85	Poaceae	Setaria sphacelata	9	H/A	Hand pull or dig up	Spray G100 (ref 1).			(common sensitive				Fluroxypyr/Starane 200@
		grass)							planty				cropping applications
86	Asclepiadaceae	Gomphocarpus	10	s/ou	Slash in winter and	Spray: glyphosate @							(conservation tillage) -
		physocarpus (balloon cotton bush)			burn cuttings. Wanderer Butterfly	1:1000 with water, in spring before seeding (ref							Dicamba/Banvel 200 @ 0.8 1.4 L/ha
		cotton bash,			can also be used as	3).	103	Commelinaceae	Callisia fragrans	3	н/о	N/A	Spray F100 or G200 or G200
					biological control.				(purple succulent)				+ MM; Collect and bag or roll and rake carefully
87	Poaceae	Digitaria didactyla	9	H/A	Hand pull or	Spot Spray: glyphosate or							Dispose (ref 1).
		(Queensland blue			cultivation	2,2-DPA (ref 3)	104	Scrophulariaceae	Paulownia	3	T/AO	Seedlings: Hand	Saplings: CS&P (G1.5);
88	Caesalpiniaceae	Gleditsia triacanthos	7	T/O	For the control of	pastures			(paulownia)			pun	Seedlings: spray G200 (ref
		(honey locust)			dense infestations	non-agricultural land	105	a	-				1).
					on grazing land, burning followed	fluroxpyr1 (Starane 200*) @ 1.5 L -	105	Commellhaceae	(zebrina)	3	H/O	N/A	+ MM; Collect and bag or
					by spot spraying is	75ml/100 L diesel							roll and rake carefully.
					an economical control method.		106	Acanthaceae	Ruellia	5	н/о	N/A	Dispose (ref 1). Sprav G200 + MM (ref 1).
89	Poaceae	Paspalum notatum	4	H/A	Hand pull or dig up	Spray G100 (ref 1).			malacosperma	-	,=	,	
90	Cactaceae	(bahia grass)	2	\$/0	Biological controls	Spray: Basal Bark	107	Poaceae	(ruellia) Pennisetum	4	н/а	Hand Pull	Spot Spray: glyphosate or
50	cuctuccuc	(drooping tree pear,	-	5,0	available:	application; Injection:			clandestinum (kikuyu				2,2-DPA (ref 3)
		syn. O. vulgaris)			cactoblastis	Triclopyr: .8L/60L	109	Liliacoao	grass)	5	н/о	Hand null or crown	Spray G100 + MM or MM
					successful.	Triclopyr: 1L/60L	108	Lillaceae	(Taiwan lily)	5	11/0	and dispose	(ref 1).
					Mechanical control	diesel. Amitrole: 1mL/3cm	109	Asteraceae	Sigesbeckia orientalis	10	H/U	Hand pull or	Spray with 2,4-D amine or
					difficult. Fire can be used.	(ref 3).			(Indian weed)			cultivation.	dicamba (ref 3).
91	Poaceae	Paspalum	7	H/A	Cut below crown.	Spot Spray: glyphosate or	110	Asteraceae	Bidens pilosa	10	H/U	Hand pull or	Spray with 2,4-D amine or
		conjugatum (naspalum grass)				2,2-DPA (ref 3).			(cobbler's pegs)			cultivation.	sodium, pr MCPA + dicamba (ref 3).
92	Malpighiaceae	Hiptage benghalensis	3	S,V/O	Hand pull small	Seedlings: Foliar spray of	111	Cactaceae	Opuntia stricta	7	s/o	Biological controls	Spray; Basal Bark
		(hiptage)			infestations.	dicamba, fluroxypyr, and triclopyr/picloram_largor			(common prickly			available:	application; Injection: Triclopyr: 81/601
						plants cut stump			peary			cactorum	diesel. Picloram +
						application of fluroxypyr						successful.	Triclopyr: 1L/60L
						with diesel, glyphosate						difficult. Fire can be	(ref 3).
						with water and picloram						used.	
93	Solanaceae	Solanum torvum	6	5/0	Seedlings: Hand	undiluted (ref 7). Shrubs: CS&P (G1 5) or E/L	112	Poaceae	Eleusine indica (crowsfoot grass)	8	H/A	Pull and chip. Replant with native	Spray: glyphosate or 2,2- DPA (ref 3).
55	Solundeede	(devil's fig)		3,0	pull	(G1:1.5); Seedlings: spray			,,			couch.	
04	Caesalniniasaaa	Cascalninia	4	S.V/O	Sood boods: Bog	G200 (ref 1).	113	Poaceae	Axonopus compressus (broad	5	H/AO	Cut stems from	Spot spray with Glyphosate (ref 3)
94	Caesaipiniaceae	decapetala (thorny	4	3,070	and remove.	Seedlings: spray G200 or			leaved carpet grass)			1003.	divpriosate (rel 5).
	-	poinciana)	_			G200 + MM or MM (ref 1).	114	Lamiaceae	Salvia coccinea (red	9	H/O	remove small areas	Aquatic areas (drains,
95	Poaceae	Pennisetum alopecuroides	7	н/о	Hand Pull	Spot Spray: glyphosate or 2,2-DPA (ref 3)			saivia)			by nand or machine	streams, lakes and dams) -
		(swamp foxtail)											calcium dodecylbenzene
96	Verbenaceae	Duranta erecta (duranta)	6	ST/O	Shrubs: CS&P	Spray G100 (ref 1).							sulphonate (AF-100) @ 1 part in 19 parts kerosene
97	Brassicaceae	Nasturtium officinale	7	Ha/FU	Manually grub and	Spray G100 and replace	115	Asteraceae	Ageratum	8	н/ио	N/A	Spray G100 or hand pull
		(Qld use Rorippa			destroy.	with local species (ref 1).			houstonianum (blue				and spray regrowth G100
		nasturtium- aquaticum)					L	I	l nuvgoar weed)	1	1	1	I (iei 1).
		(watercress)											

Note: Herbicides must be applied by appropriately qualified/ supervised persons in accordance with the Agricultural Chemicals and Distribution Control Act 1966 at rates identified on registered products (such rates supersede those noted in above tables), or on an Australian Pesticides and Veterinary Medicines Authority (APVMA) issued off-label permit where applicable. Note: Source for information contained on this page from Queensiand Herbarium (QId Gov't).	AME Issue A B	NDMENTS: Date 24/01/2018 16/03/2018	Description CLIENT ISSUE LODGEMENT	Checked MS MS
Note: Source for information contained on this page from queensiand rierbandin (qid Govi).				

REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

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QUIS Certical QNIS Setto

address 9 Thompson St Bowen Hills Q 4006 phone (07) 3251 9444 email mail@saundershavill.com web www.saundershavill.com fax (07) 325I 9455

any herbicide use (ref 5).

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surveying town planning urban design environmental management landscape architecture

REHABILITATION METHODOLOGY.	SITE WORKS	WEED NOTES
REHABILITATION METHODOLOGI -		

CLIENT:	Iandscape architecture				
MOUNTAIN RIDGE PTY LTD					
PROJECT: MOUNTAIN RIDGE ROAD,	REHABILITATION NOTES				
SOUTH MACLEAN	DATE: JAN 2018	CHECKED:MS			
SCALE:	CLIENT REF.: 7344	DRAWN: RM			
AS NOTED	DRAWING NO.: 7344 L RP 07 B				

REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

QUEENSLAND HERBARIUM INVASIVE NATURALISED PLANTS IN SOUTH EAST QUEENSLAND SCIENTIFIC & SUBRE LIFE FORM NON-CHEMICAL RANK FAMILY CHEMICAL CONTROL COMMON NAME GION & SOURCE CONTROL 116 Myrtaceae Shrubs: CS&P or F/I (G1. Psidium guajava and ST/AO N/A P. guineense (vellow or spray G200 + MM or MM. Trial basal bark F100 ava and West Ind or G200 + MM (ref 1). guava) 117 Rosaceae Rubus bellobatus s/o slashing hinder Grazon DS 5 oicloram/triclopyr 1:20 (kittatinny growth, giving parts water + wetting blackberry) some control if plants are slashed agent before they seed 118 ST/O Stems: C&P or F/I (G1.5 Myrtaceae Eugenia uniflora N/A (Brazilian cherry) Bushes: spray or cut down and spray regrowth G100 or MM (ref 1). 119 Oleaceae Olea europaea T/A Seedlings: Hand Saplings: CS&P (G1.5); (olive) pull Trees: F/I (G1.5); Seedlings: spray G200 o G200 + MM (ref 1). 120 Poaceae Brachiaria H/A Grazing Herbicide Control - Folia decumbens (signal application (Knapsack) glyphosate 360g/L@ grass) 200mL/15L water: Folia glyphosate 360g/L@ 9L/Ha; Handgun: glyphosate 360g/L@ 1.3L/100L water (ref 2). Vines: CS&P (1:1.5) or 121 Fabaceae Stylosanthes scabr H/A N/A (shrubby stylo) spray G100 + MM or MN (ref 1). 122 Commelinaceae Commelina H/O Collect and Bag Spray G200 or G200 + MN nghalensis (hairy (ref 1). wandering jew) 123 Poaceae H/O Grazing or N/A (ref 2). Pennisetum ureum (elepha nechanical grass) removal 124 Zingiberaceae H/O Small Plants: Hand mall Plants: spray G200 Hedychium coronarium (wild pull and dispose G200 + MM; Large Plants ginger) cut and spray regrowth. I rhizomes are at ground evel, cut stem and gouge rhizome - fill hole with G1.5 with injector kit o similar (ref 1). 125 Phytolaccaceae Phytolacca octandra Hand pull or crown CS&P (G1.5) or C&P (G1.5) 10 H/O (inkweed) spray G100 (ref 1). 126 Asclepiadaceae Asclepias curassav s/o Hand pull; Slash Slash and/or spray G100 q (red cotton bush) (ref 1). 127 N/A Stems: C&P (G1.5); Solanaceae s/o ycium ferocissim 1? (African boxthorn Regrowth: spray G200 + MM (ref 1). 128 Mimosaceae ST/O When using Basal bark - triclopyr Prosopis pallida 2 echanical contro (algaroba) picloram methods, it is Access® @ 1L/60L diese Cut stump - triclopyr important to remove the bud picloram zone of the root Access® @ 1L/60L diese system Overall spray - triclopyr oout 30 cm bel picloram the ground Grazon DS® @ 350ml/10 surface). water plus a If this is not tting agent if plant growing actively removed, re hooting can occu 129 Juncaceae Juncus articulatus Ha/FC Spot spray with 1 Hand pull Glyphosate, 2,2-DPA o (jointed rush) MCPA + dicamba (ref 3) 130 S/O Cactaceae Opuntia aurantiac Biological controls Spray; Basal Bark available: application; Injection (tiger pear) cactoblastis Triclopyr: .8L/60L diesel. Picloram + cactorum successful. Triclopyr: 1L/60L Mechanical control diesel. Amitrole: 1mL/3c lifficult. Fire can be (ref 3).

REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

RANK	FAMILY	SCIENTIFIC & COMMON NAME	SUBRE GION	LIFE FORM & SOURCE	NON-CHEMICAL CONTROL	CHEMICAL CONTROL
131	Poaceae	Arundo donax (giant reed)	1	H/O	Physical removal of small infestations.	Spot spray or cut stump and spray with Glyphosate
132	Cactaceae	Opuntia imbricata (rope pear)	1	H/O	Biological controls available:	Spray; Basal Bark application; Injection:
					cactoblastis cactorum successful	Triclopyr: .8L/60L diesel. Picloram + Triclopyr: 1L/60L
					Mechanical control difficult. Fire can be used.	diesel. Amitrole: 1mL/3cn (ref 3).
133	Bignoniaceae	Pyrostegia venusta (flame vine)	1	V/O	N/A	CS&P (G1.5); spray G200 (ref 1).
134	Poaceae	Cortaderia selloana (pampas grass)	2	н/о	Small Plants: dig out by hand or	Stems: C&P (G1.5) or cut back and slash and spray
135	Solanaceae	Solanum hispidum (giant devil's fig)	5	s/o	Hand pull	Spray G100 (ref 1).
136	Agavaceae	Furcraea foetida (Cuban hemp)	3	S/OA	Dig out by hand or machine	CS& P near ground or spray MM (ref 1).
137	Agavaceae	Furcraea selloa (hemp)	1	S/OA	Dig out by hand or machine	CS& P near ground or spray MM (ref 1).
138	Agavaceae	Agave americana (century plant)	4	S/OA	Dig out by hand or machine	CS& P near ground or spray MM (ref 1).
139	Rutaceae	Murraya paniculata cv. Exotica (murraya)	6	s/o	Seedlings: Hand pull	Shrubs: CS&P or F/I (G1.5) Seedlings: spray G200 (re 1).
140	Rosaceae	Rubus discolor (R. fruticosus complex, a blakberry)	4	S/OA	slashing hinders growth, giving some control if	Grazon DS picloram/triclopyr 1:200 parts water + wetting
					plants are slashed before they seed	agent. A variety of herbicides may be used to control this species including (ref 5)
141	Brassicaceae	Cakile edentula (American sea rocket)	4	H/U	Manually grub and destroy.	Spray G100 and replace with local species (ref 1).
142	Balsaminaceae	Impatiens walleriana (balsam)	2	H/O	N/A	Spray G100 (ref 1).
143	Agavaceae	Agave sisalana (sisal)	2	S/OA	Dig out by hand or machine	CS& P near ground or spray MM (ref 1).
144	Agavaceae	Agave vivipara var. vivipara (sisal)	2	S/OA	Dig out by hand or machine	CS& P near ground or spray MM (ref 1).
145	Rosaceae	Prunus munsoniana (wild goose plum)	7	ST/A	Seedlings: Hand pull	Shrubs: CS&P or F/I (G1.5) Seedlings: spray G200 (re 1).
146	Poaceae	Echinochloa crus-galli (barnyard grass)	6	H/A	Hand pull or dig out small infestations.	Spot spraying with Glyphosate or 2,2-DPA (re 3).
147	Asteraceae	Solidago canadensis var. scabra (Canadian goldenrod)	7	H/O	Hand pull and hang to dry.	Spray MM or G200 or G200 + MM if other weeds such as Lantana or Camphor Laurel are present (ref 1)
148	Fabaceae	Pueraria lobata (kudzu)	3	V,S/O	Slash; Diminish by shading site	CS&P (G1.5); spray G200 o MM (ref 1).
149	Alismataceae	Sagittaria graminea var. platyphylla (sagittaria arrowhead)	3	Ha/FO	Physical removal of small infestations.	Spot Spray with Glyphosate at 1.0L:100L water (ref 5).
150	Nymphaeaceae	Nymphaea mexicana (yellow waterlily)	2	Ha/OF	Hand pull small infestations.	Spray with or Diquat Glyphosate. Occurs in waterways, thus EPA should be notified before any herbicide use (ref 5).
151	Poaceae	Phyllostachys aurea (fishpole bamboo)	1	S/O	N/A	Stems: cut and fill segment (G1.5); Regrowth: spray G100 (re 1)
152	Euphorbiaceae	Jatropha gossypiifolia (cotton-leaf physic nut, bellyache bush)	1	s/o	Hand pull	Spray G100 (ref 1).
153	Malvaceae	Sida rhombifolia (Paddy`s lucerne)	9	S/U	Hand pull or dig out.	Spray with 2,4-D amine of fluoxypyr (ref 3).

AMENDMENTS Checked Issue Date Description A 24/01/2018 CLIENT ISSUE MS LODGEMENT B 16/03/2018 MS

REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

COMMON NAME GION & SOURCE

SCIENTIFIC &

Themeda

grass)

Andropogo

virginicus (whisky

grass)

Jacaranda

mimosifolia

(jacaranda)

Justicia betonica

(squirreltail)

Acacia boliviana

(Bolivian wattle)

Ailanthus altissima

(tree of heaven)

Echinochloa colona

(awnless barnvard

grass)

Cyperus brevifolius

(Mullumbimby

couch)

Morus alba (whi

mulberry)

Colocasia esculenta

(taro)

Canna indica (canna

lilv)

Buddleia

adagascariensi

(buddleia)

Tecoma capensis

Cape honeysuckle)

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RANK

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FAMILY

Poaceae

Poaceae

Bignoniacea

Acanthaceae

Mimosaceae

Simaroubaceae

Poaceae

Cyperaceae

Moraceae

Arecaceae

Cannaceae

Buddleiaceae

Bignoniaceae

QUEENSLAND HERBARIUM INVASIVE NATURALISED PLANTS IN SOUTH EAST QUEENSLAND

SUBRE LIFE FORM NON-CHEMICAL

H/A

H/A

T/O

s/o

T/O

T/O

H/A

H/O

T/O

H/AO

H/O

s.v/o

ST/O

3

2

1?

CONTROL

Hand pull or dig ou

Hand pull or dig out

Seedlings: Hand

llug

Hand pull smal

controlled by

planting

species.

Mechanical or chai

removal.

Seedlings: Hand

Hand or mechanica

removal of small

infestations

Each

has to be dug out

with a spade and

the entire plant

turned over,

exposing the ro

system while

making

ure all aerial par

of the plant are completely

covered.

N/A

Hand pull.

Dig out entire pla

N/A

N/A

festations. Can be

npetitive nativ

CHEMICAL CONTROL

Spot spraying with

3).

Spot spraying with

Saplings: CS&P (G1.5);

Trees: F/I (G1.5):

Seedlings: spray G200 (re

1).

Glyphosate known to be

effective.Species know

to occur in waterways

DERM should be contacted

before spraying in

waterways (ref 4).

Basal Bark or cut stump

application. Triclopyr

600g/L at 1.0L:120L diese

Triclopyr + Picloram 24

g/l + 120 g/l at 1.0L:60L

diesel, Picloram 45 g/kg

undiluted (ref 5).

Seedlings: CS&P (G1.5)

Trees: F/I (G1.5);

Seedlings: spray G200 o MM (ref 1).

Spray: glyphosate @

13mL/1L water (ref 2.)

Aquatic areas - Glyphosate

ipa

Land—commercial/indus

rial, rights of way -

Glyphosate-ipa,

Trees: F/I (G1.5), stack cu

branches above the

ground to dry; Saplings:

CS&P (G1.5); Seedlings

spray G200 (ref 1).

Cut at base and apply

glyphosate or metsulfu

methyl. Plant often occu

in waterways so consul

DERM prior to application

(ref 6).

Cut/Slash and spay

egrowth G200 or G200

MM; Collect and bad

seeds. Resistant to

herbicide (ref 1).

Stems: CS&P (1:1.5):

Vines: spray or cut dow

and spray regrowth G200

(ref 1).

Stems: CS&P (G1.5) or

sprav G200: Seeds: colle

bag and remove (ref 1)

sate-mas, imaza

small infestations. Glyphosate or 2.2-DPA (re

small infestations. Glyphosate or 2.2-DPA (re

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🛢 surveying 🖉 town planning 🛢 urban design 🛢 environmental management 🛢 landscape architecture

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REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

QUE	QUEENSLAND HERBARIUM INVASIVE NATURALISED PLANTS IN SOUTH EAST QUEENSLAND							
RANK	FAMILY	SCIENTIFIC & COMMON NAME	SUBRE GION	LIFE FORM & SOURCE	NON-CHEMICAL CONTROL	CHEMICAL CONTROL		
167	Cactaceae	Harrisia martinii (harrisia cactus)	2?	S/O	The use of the biological mealy- bug agent is recommended	Triclopyr + picloram at 1.0L:60L diesel, Dichlorprop 600 g/l at 1.0L/60L water, metsulfuron methyl 600 g/l at 2.0L:100L water Ref		
168	Acanthaceae	Thunbergia laurifolia	1	V/0	N/A	5). CS&P (G1.5); spray G200 (ref 1)		
169	Fabaceae	(ockspur coral tree)	2?	T/O	N/A	F/I (G1.5) or C&P stumps. Cut and stack branches above ground to dry to prevent resprouting. F/I sprouted branches (G1.5) or spray regrowth G200 + MM or MM. Trial Tordon (ref 1).		
170	Sapindaceae	Koelreuteria elegans (Chinese rain tree)	1?	T/O	Seedlings: Hand pull	Trees: F/I (G1.5) or C&P stumps (G1.5); Saplings: CS&P (G1); stack cut branches above ground to dry; Seedlings: spray (G200) (ref 1).		
171	Zingiberaceae	Hedychium gardnerianum (ginger lily)	1?	H/O	Small Plants: Hand pull and dispose	Small Plants: spray G200 or G200 + MM; Large Plants: cut and spray regrowth. If rhizomes are at ground level, cut stem and gouge rhizome - fill hole with G1.5 with injector kit or similar (ref 1).		
172	Acanthaceae	Hypoestes phyllostachya (polka- dot plant	3	H/O	Hand pull or crown and dispose	Spray G200 or G200 + MM (ref 1).		
173	Caprifoliaceae	Sambucus canadensis (American elder)	3	ST/O	Vines and Runners: hand pull, roll up and hang to dry.	Vines and Runners: CS&P (G1.5); Larger Stems, Roots and Nodes: spray G100 + MM or MM (ref 1).		
174	Asteraceae	Conyza sumatrensis (tall fleabane)	9	H/U	Hand or mechanical removal of small infestations	Seedlings: Altrazine or Chlorosulfuron in combination with competitive native species; Plants: Glyphosate and Tordon 75- D mix. Glyphosate ration depends on other weeds present (ref 2).		
175	Fabaceae	Tipuana tipu (tipuana)	2	T/O	Seedlings: Hand pull	Saplings: CS&P (G1.5); Trees: F/I (G1.5); Seedlings: spray G200 (ref 1).		
176	Asteraceae	Tagetes minuta (stinking roger)	8	H/U	Hand pull and hang to dry.	Spray MM or G200 or G200 + MM if other weeds such as Lantana or Camphor Laurel are present (ref 1).		
177	Caesalpiniaceae	Chamaecrista rotundifolia (round- leaf cassia)	6	ST/A	Seedlings: Hand pull	Shrubs: CS&P or F/I (G1.5); Seedlings: spray G200 or G200 + MM or MM; collect and bag seeds (ref 1).		
178	Poaceae	Cenchrus echinatus (Mossman river grass)	8	H/A	Hand or mechanical removal of young plants	Herbicide Control - Glyphosate 7mL/L water; Dichlobenil 600g/100m2; Fluazifop 50-100mL/10L water (ref 2).		

CLIENT:	Iandscape architecture				
MOUNTAIN RIDGE PTY LTD					
PROJECT: MOUNTAIN RIDGE ROAD,	REHABILITATION PLAN				
SOUTH MACLEAN	DATE: JAN 2018	CHECKED:MS			
SCALE:	CLIENT REF.: 7344	DRAWN: RM			
AS NOTED	DRAWING NO.: 7344 L RP 08 B				

REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

RANK

FAMILY

SCIENTIFIC & SUBRE LIFE FORM NON-CHEMICAL

QUEENSLAND HERBARIUM INVASIVE NATURALISED PLANTS IN SOUTH EAST QUEENSLAND OUEENSLAND HERBARIUM INVASIVE NATURALISED PLANTS IN SOUTH EAST OUEENSLAND SUBRE LIFE FORM NON-CHEMICAL SCIENTIFIC & CHEMICAL CONTROL RANK FAMILY CHEMICAL CONTROL COMMON NAME GION & SOURCE CONTROL Spray G100 + MM (ref 1) 195 Dracaenacea Sansevieria H/O Hand pull or dig up trifasciata (sansevieria) 196 Poaceae H/A Hand pull or Spot Spray: glyphosate or Digitaria eriantha 5 (pangola grass) cultivation 2,2-DPA (ref 3) 197 T/O Rosaceae Eriobotrya japonica 3 Seedlings: Hand Saplings: CS&P (G1.5); Trees: F/I (G1.5); (loquat) pull Seedlings: spray G200 o G200 + MM or MM (ref 1) 198 Cactaceae Acanthocereus S/O Biological control: Spray; Basal Bark 1 tetragonus (sword available: application: Injection pear) cactoblastis Triclopyr: .8L/60L diesel. Picloram + cactorum successful. Triclopyr: 1L/60L Mechanical control diesel. Amitrole: 1mL/3c (ref 3). difficult. Fire can be used. 199 Mimosaceae Acacia nilotica subsp. 3 T/A Mechanical or chain Basal Bark or cut stump indica (prickly acacia) removal. application. Triclopy 600g/L at 1.0L:120L diese Triclopyr + Picloram 240 g/l + 120 g/l at 1.0L:60L diesel, Picloram 45 g/kg undiluted (ref 5). 200 Mimosaceae Acacia farnesiana 6 T/A Mechanical Basal Bark or cut stump application of Triclopyr (mimosa bush) moval of small plants. Picloram 240 g/l + 120 g/l at 1.0L:60L diesel. Folia application of Clopyralid 300g/Lat 500mL:1L water ref 5).

REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

_		COMMON NAME	GION	& SOUNCE	CONTROL	
179	Asteraceae	Conyza canadensis (Canadian fleabane)	10	H/U	Hand or mechanical removal of small infestations	Seedlings: Altrazine or Chlorosulfuron in combination with competitive native species; Plants: Glyphosate and Tordon 75- D mix. Glyphosate ration depends on other weeds present (ref 2).
180	Euphorbiaceae	Euphorbia cyathophora (painted spuge)	8	Н/О	Hand pull	Spray G100 (ref 1).
181	Poaceae	Setaria palmifolia (palm leaf setaria)	5	H/O	Hand pull or dig up	Spray G100 (ref 1).
182	Euphorbiaceae	Euphorbia heterophylla (milk weed)	5	H/O?	Hand pull	Spray G100 (ref 1).
183	Fabaceae	Desmodium intortum (greenleaf desmodium)	4	H/A	Hand pull or crown and dispose	CS&P tuberous roots (G1.5); spray G200 or G200 + MM or MM; collect and bag seeds. Monitor regrowth over 2 - 3 years (ref 1).
184	Poaceae	Pennisetum setaceum (fountain grass)	3	H/O	Hand Pull	Spot Spray: glyphosate or 2,2-DPA (ref 3)
185	Asteraceae	Conyza bonariensis (flax-leaf fleabane)	7	H/U	Hand or mechanical removal of small infestations	Seedlings: Altrazine or Chlorosulfuron in combination with competitive native species; Plants: Glyphosate and Tordon 75- D mix. Glyphosate ration depends on other weeds present (ref 2).
186	Solanaceae	Solanum erianthum (a tobacco bush)	7	s/o	Hand pull	Spray G100 (ref 1).
187	Poaceae	Stenotaphrum secundatum (buffalo grass)	3	H/AO	Hand or mechanical removal of small infestations	Spray: glyphosate @ 13mL/1L water (ref 2.)
188	Apocynaceae	Cascabela thevetia (syn. Thevetia peruviana) (yellow oleander)	5	ST/O	Hand pull small infesttions. Slashing can be used but should be followed up by herbicide application.	Basal bark application of fluroxypyr (35mL:1L Diesel); Stem injection Glyphosate (1L:2L Water); Cut stump application of fluroxypyr (1L:55L Diesel; Foliar Spray of fluroxypyr 1:100 for larger plants. 1:200 for seedlings (ref 2).
189	Rubiaceae	Coffea arabica (coffee)	3	ST/A	Saplings: Hand pull	Shrubs: F/I (G1) between flower and fruit set; Saplings: CS&P (G1); Seedlings: spray G200 or G200 + MM (ref 1).
190	Bignoniaceae	Spathodea campanulata (African tulip tree)	1?	T/O	N/A	Saplings: CS&P (G1.5); Trees: F/I (G1.5); Seedlings: spray G200 (ref 1).
191	Fabaceae	Macrotyloma axillare (perennial horse gram)	4	V,H/A	N/A	Vines: CS&P (1:1.5) or spray G100 + MM or MM (ref 1).
192	Iridaceae	Watsonia meriana var. bulbillifera (bulbil watsonia)	2	H/O	Dig up, bag and remove	Spray G200 + MM (ref 1).
193	Passifloraceae	Passiflora edulis (passion fruit)	6	V/AO	Hand Pull	CS&P (G1.5); spray G200 or G200 + MM (ref 1).
194	Asteraceae	Zinnia peruviana (wild zinnia)	6	H/O	Seedlings: Hand pull	Shrubs: CS&P or F/I (G1); Seedlings: CS&P (G1.5) or spray G200 (ref 1).

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surveying town planning urban desi	gn # environmental management # landscape architecture	COMPANY COMPANY COMPANY COMPANY Boggen Management Systems	Note: Herbicides must be applied by appropriately qualified/ supervised persons in accordance with the Agricultural Chemicals and Distribution Control Act 1966 at rates identified on registered products (such rates supersede those noted in above tables), or on an Australian Pesticides and Veterinary Medicines Authority (APVMA) issued off-label permit where applicable.				SOUTH MACLEAN	DATE: JAN 2018 CLIENT REF.: 7344	CHECKED:MS DRAWN: RM
			Note: Source for information contained on this page from Queensland Herbarium (Qld Gov't).				AS NOTED	DRAWING No.: 7344 L R	RP 09 B

QUEENSLAND HERBARIUM INVASIVE NATURALISED PLANTS IN SOUTH EAST QUEENSLAND Explanatory notes: Sub-region: Number of the ten sub-regions of the Southeast Queensland bioregion (Young and Dillewaard 1999) within which species recorded (Queensland Herbarium data).

Rec no.: Total number of records for species within study area, Queensland Herbarium CORVEG and HERBRECS data. Scores: Based on panel data of invasiveness, 5 (highest) to 3 (moderate), ? indicate doubtful scores

REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

Life forms: T-tree (woody plant >5m), ST-small tree (2-5m), S-shrub (woody <2m), H-herb (grasses & forbes), Haaquatic herbs.

Source: A-agriculture, O-ornamental and landscaping, F-fish aquarium, U-unintentional introduction and/or contaminant.

QUEE

Abbrev

CS&P =

S&P =

C&P =

F/I = fri

Abbrev G = Gly **MM** = 1 F = Flur Abbrev GU = Gl G1 = 1 p G1.5 = 1 G4 = 4 p

Abbrev G100 = G200 = G100 + water **G200 +** water **MM** = 3

F100 = F150 = Other A # = Local

Ref. 1. E A practio

Ref 5. Depertment of Primary Industries (NSW), 'Noxious and Environmental Weed Handbook, 3rd Edition Ref 6. Department of Environment and Conservation, 'Florabase', (DEC- WA)

REHABILITATION METHODOLOGY - SITE WORKS - WEED NOTES

NSLAND HERBARIUM INVASIVE NATURALISED PLANTS IN SOUTH EAST QUEENSLAND
iations: Control Methods
cut scrape and paint
crape and paint
ut and paint
ll or inject stem
iations: Herbicides
phosate, eg. Roundup Biactive, Weedmaster Duo
Aetsulfuron methyl, eg, Brushoff
oxypyr, eg. Starane
iations: Herbicide Dilution Rates for High Concentration Applications
yphosate undiluted
part water to 1 part glyhphosate
1.5 parts water to 1 part glyphosate
parts water to 1 part glyphosate
iations: Herbicide Spray Concentrations
100mLglyphosate per 10L of water + surfuctant, eg 20mL LI 700 per 10L
200mL glyphosate per 10L of water + surfuctant, eg 50mL LI 700 per 10L
MM = 100mL glyphosate + 1.5g metsulfuron methyl per 10L of water + wetting agent, eg. 2mL Agral per 10L
MM = 200mL glyphosate + 1.5g metsulfuron methyl per 10L of water + wetting agent, eg. 2mL Agral per 10L
.5g metsulfuron methyl per 10L water + wetting agent, eg. 2mL Agral per 10L water
100mL fluroxypyr per 10L water
150mL fluroxypyr per 10L water
\bbreviations
ally non-indigenous native species
Big Scrub Rainforest Landcare Group (2008), 'Common Weeds of Subtropical Rainforests of Eastern Australia:
ical manual on their identification and control'

Ref. 2. Department of Primary Industries and Fisheries (QLD), 'Weeds and pest animals and ants'.

Ref. 3. Holland et al. (1996), 'Suburban Weeds', DPI QLD. Ref 4. Port Stephens Council (NSW), 'Weed Busters'.

Ref 7, Vitelli, J.S. and Madigan, B.A. and Van Haaren, P.E. and Setter, S. and Logan, P. (2009) Control of the invasive liana, Hiptage benghalensis. Weed Biology and Management, 9 (1). pp. 54-62.

REHABILITATION METHODOLOGY - SITE WORKS - PLANTING NOTES

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 stablisation 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

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, jutenetting 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.

Planting Installation

SURVE

The following outlines the preferred installation methodology for revegetation works within the rehabilitation areas. It has been designed to maximise plant establishment success rates and minimise plant mortality. Revegetation works shall be either undertaken or directly supervised by an experienced and gualified contractor. All works shall be in accordance with the provisions of this Rehabilitation Plan, and local government policies and Australian Standards

REHABILITATION METHODOLOGY - SITE WORKS - PLANTING NOTES

Plant installation methods shall include:

- Plants are to be vigorous, well established, hardened off, consistent with species or variety, free from disease and insect pests, with large root systems and no evidence of having been restricted or damaged. The landscape coordinator has the right to inspect and reject stock prior to planting. Tubestock is to be disease and pest free and purchased from local nurseries within 10kms of
- subject sites where possible.
- Plants are to be planted immediately after delivery to the planting site
- Planting is to be undertaken in accordance with the planting module contained within this drawing
- Excavate planting medium to a depth suitable for the installation of tube or pot specimens. In areas where planting substrate is deemed to be very poor (compacted, nutrient deficient, hydrophobic, etc.) and above areas of potential frequent inundation and water flow, topsoil may be
- Pre-water plant hole, if soil is dry, to decrease root stress upon planting and assess the infiltration of water through the soil.
- Incorporate into the planting substrate the appropriate quantity of prepared water crystals or other suitable hydrating product such as Hortex 'Rainsaver' or 'Moisturaid'
- Place plant into hole and backfill ensuring that the plant is upright and the stem is not covered in any less than 10mm or any more than 20mm of planting medium.
- Plants are to be watered thoroughly immediately after planting (ensure deep irrigation) and thereafter as required during the construction phase of the development depending on climatic conditions. Creation of a concave hollow around the base of each plant will aid water infiltration to the plant roots.
- A complete, slow release fertiliser is recommended, and is to be administered appropriately during planting. Top dressing with slow release fertiliser is preferred to avoid toxic levels of fertiliser accumulating in the plant hole around the plant roots.
- To ensure successful establishment, all planting surfaces must be covered in: a 100mm layer of high guality weed-free composted chip mulch (site mulch) - Note: to avoid possible
- stem rot in some 'drier' species ensure mulch is 'dished' and not covering plant stem by more than 20mm. Where available mulch material to be sourced from cleared vegetation material if adequately seasoned.
- •• suitable individual anchored natural fibre weed mat (jutenetting); or
- A long term slow release fertiliser, such as Nutricote or similar product should be used for all plantings after initial plant establishment
- A minimum 90% survival rate should be achieved
- Any planting substitutions to be approved by Superintendent and Assessment Manager where applicable

Typical planting details as below for standard medium/ mulch installation and jutenetting. Refer to manufacturer's recommendations for detailed jutenetting installation including pinning, etc

planting location should be spot cultivated to at least 2 times the depth and twice the width of the plant stock size.

_TUBESTOCK: Ensure top of rootball is level with surrounding ground. Form an earthen basin around the base of the plant to

to assist in establishmen

WATERING: At the time of planting soak the root ball of each plant in a diluted solution of liquid seaweed according to the directions on product label to assist in establishment. Plants are to be watered deeply only once at the time of planting and then allowed to establish within the prevailing climatic conditions. If it is observed during the maintenance process that the plant is under stress then a subsequent watering is allowed

Where evidence of plant damage is occuring, tree guards/ growtubes to be installed as required.

XIIN 35000



Jutenetting/ mesh to be installed as per manufacturer's recommendations. Indicative detail shown only

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group	web www.saundershavill.com fax (07) 3251 9455	APPROVED COMPANY APPROVED COMPANY					SOUTH MACLEAN	DATE: JAN 2018	CHECKED:MS
ing 🟉 town planning 🗲 urban	design 🛢 environmental management 🛢 landscape architecture	ISO9001 ISO14001 Quality Environmental Management Systems					SCALE:	CLIENT REF.: 7344	DRAWN: RM
			Note: Source for information contained on this page from SEQERF.				AS NOTED	DRAWING NO.: 7344 L F	RP 10 B

Revegetation planting locations shall be generally setout in accordance with a typical random grid pattern as shown below. Various typical densities shown. Refer to plant schedule for species and

planting densities

REHABILITATION METHODOLOGY - SITE WORKS - PLANTING NOTES

* • * + * • * + -0 - Tree O Shrub 0 * 0 # Groundcover 0 * * * 0 -* 0 -0 Typical 3 Tiered Revegetation Grid Tree # Groundcover Typical 2 Tiered Revegetation Grid * * * ***** * * * * + Tree * * * * * * * * * * * * * * * * * Groundcover * * * * * * * * * Typical 2 Tiered (Dense





REHABILITATION METHODOLOGY - SITE WORKS - PLANT SCHEDULE

MOUNTAIN RIDGE ROAD - REHABILITATION SCHEDULE

ZONE I - REHABILITATION PLANTING

Recommended Species List

1) Species selected from site and local species mix

NOTES:

Eucaly Eucaly

Eucaly Eucaly

Greve Jagera Lopho Melalo Melalo

Themeda triandra

2) Setback trees 4m min from all property boundaries, sewer and service alignment 3) Refer to additional plans for general locations and additional details for planting 4) Distribute plants in groups on site in random arrangement to be confirmed with

SPECIES	COMMON	PLANT FORM	POT SIZE
TREES			
Angophora leiocarpa	Broad leaved apple	Tree	Tube
Aphananthe philippinensis	Rough leave elm	Tree	Tube
Corymbia trachyphloia	Brown Bloodwood	Tree	Tube
Corymbia citriodora	Lemon scented gum	Tree	Tube
Corymbia tessellaris	Moreton Bay Ash	Tree	Tube
Eucalyptus tereticornis	Forest Red Gum	Tree	Tube
Eucalyptus grandis	Flooded Gum	Tree	Tube
Eucalyptus tindaliae	Large Leaved Spotted Gum	Tree	Tube
Eucalyptus racemosa	Scribbly Gum	Tree	Tube
Eucalyptus siderophloia	Grey Ironbark	Tree	Tube
Grevellia robusta	Silky Oak	Tree	Tube
Jagera pseudorhus	Foambank	Tree	Tube
Lophostemon suaveolons	Swamp Brush Box	Tree	Tube
Melaleuca sieberi	Narrow leaved paperbark	Tree	Tube
Melaleuca quinquenervia	Broad leaved paperbark	Tree	Tube
SHRUBS			
Acacia fimbriata	Brisbane Wattle	Shrub	Tube
Acacia leiocalyx	Wattle	Shrub	Tube
Alphitonia excelsa	Red Ash	Shrub	Tube
Leptospermum polygalifolium	Wild May	Shrub	Tube
Grevillea banksii	Red Silky Oak	Shrub	Tube
Pultenaea paleacea	Chaffy Bush Pea	Shrub	Tube
GROUNDCOVERS			
Lomandra hystrix	Mat Rush	Ground	Tube
Lomandra multiflora	Many-flowered Mat Rush	Ground	Tube
Lomandra longifolia	Mat Rush	Ground	Tube
Imperata cylindrica	Cogon Grass	Ground	Tube

Kangaroo Grass

Ground Tube

REHABILITATION METHODOLOGY - SITE WORKS - PLANT SCHEDULE

MOUNTAIN RIDGE ROAD - REHABILITATION SCHEDULE

ZONE 2A - REHABILITATION PLANTING

Recommended Species List

1) Species selected from site and local species mix

NOTES:

2) Setback trees 4m min from all property boundaries, sewer and service alignments.
 3) Refer to additional plans for general locations and additional details for planting
 4) Distribute plants in groups on site in random arrangement to be confirmed with

SPECIES	COMMON	PLANT FORM	POT SIZE
TREES			
Casuarina cunninghamiana	She Oak	Tree	Tube
Eucalyptus tereticornis	Forest Red Gum	Tree	Tube
Eucalyptus grandis	Flooded Gum	Tree	Tube
Lophostemon suaveolons	Swamp Brush Box	Tree	Tube
Melaleuca vimanalis	Weeping Bottlebrush	Tree	Tube
Melaleuca bracteata	Black Tea Tree	Tree	Tube
Melaleuca linariifolia	Narrow Leaved Paperbark	Tree	Tube
Waterhousia flori bunda	Weeping Lilly Pilly	Tree	Tube
SHRUBS			
Acacia fimbriata	Brisbane Wattle	Shrub	Tube
Acacia leiocalyx	Wattle	Shrub	Tube
Alphitonia excelsa	Red Ash	Shrub	Tube
Leptospermum polygalifolium	Wild May	Shrub	Tube
Grevillea banksii	Red Silky Oak	Shrub	Tube
CROUNDCONFRC			
GROUNDCOVERS			
Carex appressa	Carex	Ground	Tube
Gahnia aspera	Razor Grass	Ground	Tube
Juncus usitatus	Common Rush	Ground	Tube
Lomandra hystrix	Mat Rush	Ground	Tube
MOUNTAIN RIDO	SCHEDULE	ΙΤΑΤΙΟ	N
ZONE 2B - RE	mmended Species List	NTING	
NOTES:			
1) Species selected from site and	local species mix		
2) Setback trees 4m min from all	property boundaries, sewer an	d service al	ignments.
3) Refer to additional plans for ge	eneral locations and additional	details for	planting
4) Distribute plants in groups on	site in random arrangement to	be confirm	ned with
SPECIES	COMMON	PLANT FORM	POT SIZE
TREES (NO TREES UNDER BRIDGE	AND SETBACK 10M MIN.)		
Casuarina cunninghamiana	She Oak	Tree	Tube
Eucalyptus tereticornis	Forest Red Gum	Tree	Tube
Eucalyptus grandis	Flooded Gum	Tree	Tube
Lophostemon suaveolons	Swamp Brush Box	Tree	Tube
Melaleuca vimanalis	Weeping Bottlebrush	Tree	Tube
Melaleuca bracteata	Black Tea Tree	Tree	Tube
Melaleuca linariifolia	Narrow Leaved Paperbark	Tree	Tube
Waterhousia floribunda	Weeping Lilly Pilly	Tree	Tube

SHRUBS			
Acacia fimbriata	Brisbane Wattle	Shrub	Tube
Acacia leiocalyx	Wattle	Shrub	Tube
Alphitonia excelsa	Red Ash	Shrub	Tube
Leptospermum polygalifolium	Wild May	Shrub	Tube
Grevillea banksii	Red Silky Oak	Shrub	Tube

GROUNDCOVERS			
Carex appressa	Carex	Ground	Tube
Gahnia aspera	Razor Grass	Ground	Tube
Juncus usitatus	Common Rush	Ground	Tube
Lomandra hystrix	Mat Rush	Ground	Tube
Lomandra longifolia	Mat Rush	Ground	Tube

surveying

REHABILITATION METHODOLOGY - SITE WORKS - PLANT SCHEDULE

MOUNTAIN RIDO	GE ROAD - REHABIL SCHEDULE	ΙΤΑΤΙΟ	N
ZONE 3A - RE	HABILITATION PLA	NTING	
Reco	mmended Species List		
NOTES:	In and the state of the		
 Species selected from site and Sotback trees Am min from all i 	roporty boundarios, sower and	corvico a	lianmont
2) Befor to additional plans for ge	property boundaries, sewer and	details for	nlanting
4) Distribute plants in groups on	site in random arrangement to	he confirm	ned with
A) Distribute plants in groups on			
SI	ION		ZE
	W W	N N	TSI
P	NA CO	<u>1</u> 6	6
TREES			
Angophora lei ocarpa	Broad leaved apple	Tree	Tube
Aphananthe philippinensis	Rough leave elm	Tree	Tube
Corymbia trachyphloia	Brown Bloodwood	Tree	Tube
Corymbia citriodora	Lemon scented gum	Tree	Tube
Corymbia tessellaris	Moreton Bay Ash	Tree	Tube
Eucalyptus tereticornis	Forest Red Gum	Tree	Tube
Eucalyptus grandis	Flooded Gum	Tree	Tube
Eucalyptus tindaliae	Large Leaved Spotted Gum	Tree	Tube
Eucalyptus racemosa	Scribbly Gum	Tree	Tube
Eucalyptus siderophloia	Grey Ironbark	Tree	Tube
Grevellia robusta	Silky Oak	Tree	Tube
Jagera pseudorhus	Foambank	Tree	Tube
Lophostemon suaveolons	Swamp Brush Box	Tree	Tube
Melaleuca sieberi	Narrow leaved paperbark	Tree	Tube
Melaleuca quinquenervia	Broad leaved paperbark	Tree	Tube
SHRUBS			
Acacia fimbriata	Brisbane Wattle	Shrub	Tube
Acacia leiocalyx	Wattle	Shrub	Tube
Alphitonia excelsa	Red Ash	Shrub	Tube
Leptospermum polygalifolium	Wild May	Shrub	Tube
Grevillea banksii	Red Silky Oak	Shrub	Tube
Pultenaea paleacea	Chaffy Bush Pea	Shrub	Tube
GROUNDCOVERS			
Carex appressa	Carex	Sedge	Tube
Gahnia aspera	Razor Grass	Sedge	Tube
Juncus usitatus	Common Rush	Sedge	Tube
Imperata cylindrica	Blady Grass	Sedge	Tube
Lomandra longifolia	Mat Rush	Sedge	Tube

REHABILITATION METH	HODOLOGY - SITE V	VORKS	6 - PLAN	NT SCHEDULE
MOUNTAIN RIDGE	ROAD - REHABILI CHEDULE	TATIO	N	
ZONE 3B - REH		TING		
Recom	nended Species List			
NOTES:				
1) Species selected from site and loc	al species mix			
2) Setback trees 4m min from all pro	perty boundaries, sewer and	service al	ignments.	
3) Refer to additional plans for gene	ral locations and additional o	details for	planting	
4) Distribute plants in groups on site	e in random arrangement to	be confirm	ned with	
SPECIES	COMMON	PLANT FORM	POT SIZE	
TREES				
Angophora leiocarpa	Broad leaved apple	Tree	Tube	
Aphananthe philippinensis	Rough leave elm	Tree	Tube	
Corymbia trachyphloia	Brown Bloodwood	Tree	Tube	
Corymbia citriodora	Lemon scented gum	Tree	Tube	
Corymbia tessellaris	Moreton Bay Ash	Tree	Tube	
Eucal yptus tereticornis	Forest Red Gum	Tree	Tube	
Eucalyptus grandis	Flooded Gum	Tree	Tube	
Eucalyptus tindaliae	Large Leaved Spotted Gum	Tree	Tube	
Eucalyptus racemosa	Scribbly Gum	Tree	Tube	
Eucalyptus siderophloia	GreyIronbark	Tree	Tube	
Grevellia robusta	Silky Oak	Tree	Tube	
Jagera pseudorhus	Foambank	Tree	Tube	
Lophostemon suaveolons	Swamp Brush Box	Tree	Tube	
Melaleuca sieberi	Narrow leaved paperbark	Tree	Tube	
Melaleuca quinquenervia	Broad leaved paperbark	Tree	Tube	
SHRUBS				
Acacia fimbriata	Brisbane Wattle	Shrub	Tube	
Acacia leiocalyx	Wattle	Shrub	Tube	
Alphitonia excelsa	Red Ash	Shrub	Tube	
Leptospermum polygalifolium	Wild May	Shrub	Tube	
Grevillea banksii	Red Silky Oak	Shrub	Tube	
Pultenaea paleacea	Chaffy Bush Pea	Shrub	Tube	
CROUNDCOVERS				
GROONDCOVERS	Course	Carden	Taka	
Carex appressa	Carex Dager Cross	Sedge	Tube	
Gannia aspera	Kazor Grass	Sedge	Tube	
Juncus usitatus	Common Kush	Sedge	Tube	
Imperata Cylinorica	Mat Puch	Sedge	Tube	
Lomandra longitolla	Iviat Kush	seage	lube	1

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REHABILITATION METHODOLOGY - SITE WORKS - PLANT SCHEDULE

MOUNTAIN RIDGE ROAD - REHABILITATION SCHEDULE

ZONE 4 - REHABILITATION PLANTING

Recommended Species List

1) Species selected from site and local species mix

NOTES:

2) Setback trees 4m min from all property boundaries, sewer and service alignments
 3) Refer to additional plans for general locations and additional details for planting
 4) Distribute plants in groups on site in random arrangement to be confirmed with

SPECIES	COMMON	PLANT FORM	POT SIZE
TREES			
Angophora leiocarpa	Broad leaved apple	Tree	Tube
Aphananthe philippinensis	Rough leave elm	Tree	Tube
Corymbia trachyphloia	Brown Bloodwood	Tree	Tube
Corymbia citriodora	Lemon scented gum	Tree	Tube
Corymbia tessellaris	Moreton Bay Ash	Tree	Tube
Eucalyptus tereticornis	Forest Red Gum	Tree	Tube
Eucalyptus grandis	Flooded Gum	Tree	Tube
Eucalyptus tindaliae	Large Leaved Spotted Gum	Tree	Tube
Eucalyptus racemosa	Scribbly Gum	Tree	Tube
Eucalyptus siderophloia	Grey Ironbark	Tree	Tube
Grevellia robusta	Silky Oak	Tree	Tube
Jagera pseudorhus	Foambank	Tree	Tube
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SHRUBS			
Acacia fimbriata	Brisbane Wattle	Shrub	Tube
Acacia leiocalyx	Wattle	Shrub	Tube
Alphitonia excelsa	Red Ash	Shrub	Tube
Leptospermum polygalifolium	Wild May	Shrub	Tube
Grevillea banksii	Red Silky Oak	Shrub	Tube
Pultenaea paleacea	Chaffy Bush Pea	Shrub	Tube
	Carox	Sodao	Tube
Gabria aspera	Bazor Grass	Sedge	Tubo
	Common Rush	Sedge	Tube
Imperata cylindrica	Blady Grass	Sedge	Tube
Lomandra longifolia	Mat Rush	Sedge	Tube
comandia longitoria	mac hush	Jeuge	Tube

REHABILITATION METHODOLOGY - SITE WORKS - FAUNA NOTES

Consideration for fauna habitat and values should be given during rehabilitation site works and should seek to enhance and restore the existing native vegetation areas and promote safe fauna movement throughout the site and into the larger greenspace corridors where possible. It is assumed properties adjacent to the rehabilitation scope of works will undertake individual site analysis, fauna investigations, and implement future measures as required

The primary species noted during site assessment include:

• Refer to schedule on 7344 L 14

The primary site barriers to fauna movement include:

Existing road reserves and corridors Proposed approved site developmen

Given the above, the following fauna movement strategies are deemed appropriate for this project:

- Fauna Habitat Value and Protection Increased fauna habitat value within the development site rehabilitation and natural vegetation areas;
- Habitat Enhancement •• Nest Boxes

Fauna Habitat Value and Protection

Rehabilitation Areas to include reuse of site fallen / hollow logs and site rock to create fauna safe havens and cover from predators for small fauna. This approach coupled with additional revegetation works allows greater fauna security and movement within the rehabilitation areas. Consideration for bushfire requirements should be reviewed to confirm no conflict in both the fauna and rehabilitation approaches. Refer indicative images below



REHABILITATION METHODOLOGY - SITE WORKS - FAUNA NOTES

Other methods: Education

Education is of critical importance and must be available to and encouraged for all on-site staff, construction staff, office staff and the community.

On-site and construction are to take due care when removing vegetation and translocating fauna (by specialist workers). On site staff should be trained to know what measures to take when noting distressed fauna and when rescuing fauna. Toolbox talks can be used by staff to raise awareness of areas containing important/ high populations of fauna or fauna mitigation structures.

Appreciation of the community's local fauna is encouraged. This will ensure revegetation, maintenance and other activities can be undertaken with economic and social benefits. Create a proud community.

REHABILITATION METHODOLOGY - SITE WORKS - FAUNA NOTES

Maintenance is the day-to-day, periodic or scheduled work required to preserve or restore a fauna structure to ensure its effectiveness. It includes work to prevent damage or deterioration that may otherwise be more costly to restore, and if left unchecked would eventually progress to structural damage

Fauna structures often require special types of maintenance. Nevertheless, in some cases standardised maintenance techniques can reduce the effectiveness of fauna structures so consideration should be given to both the action and timing of maintenance works.

Things to consider for effective maintenance include: Plan and budget for ongoing maintenance.

- Ensure fauna structures are easily accessible for maintenance work, ensuring minimal disruption to traffic
- Need for regular inspection to ensure correct maintenance works are being undertaken.
- Minimise the need for inspections, especially those requiring traffic control. Communicate special maintenance requirements to maintenance crews on completion.
- Incorporate feedback mechanisms into monitoring and inspection reports for maintenance
- processes. . Maintenance requirements may be different across projects.

Specific maintenance of fauna structures may include, but not limited to tasks such as: Treating damaged timber. Tightening any interconnecting pieces (bolts, wire, rope, etc,.)

- Removing and replacing damaged components. Removal of obstructions to fauna movement to fauna structures.
- Determination of leaving natural fauna elements to structures (hair, droppings, etc.) which may otherwise negatively affect the use of the structure by unnecessary human involvement. Some structures and associated vegetation may be more effective if not maintained (resulting in better integration into the surround environment)
- Refer to individual fauna structure details and manufacturer's recommendations for additional maintenance requirements.



REHABILITATION METHODOLOGY - MAINTENANCE & MONITORING

Maintenance is required following installation of any fauna structure, although if maintenance is regular and thorough during the first year, maintenance requirements are likely to taper off significantly in the following years.

Informal Monitoring of wildlife movement and structures is another method of determining fauna movement success in conjunction with the adjacent maintenance requirements. Informal monitoring may occur through ongoing site inspections and note taking. Notes to be distributed to the wildlife movement team and rectification works completed against notes.

Monitoring of the wildlife movement allows for:

- Review of the pre-established performance indicators for measuring the success of the wildlife movement (site audit of fauna present, existing movement evidence, presence of road kill, etc.). Observational studies of fauna presence/ absence.
- Road Kill Surveys (if applicable).
- Adaptive assessment to incorporate amendments to Wildlife Movement Plan as required. • Ensure level of protection for wildlife structures.
- Monitor the rate of wildlife movement following installation of wildlife structures.

• Identification of new threats or other factors which may be effecting areas designated for wildlife movement.

REHABILITATION METHODOLOGY - MAINTENANCE & MONITORING

Maintenance, as with all ecological restoration work is fundamental in ensuring project success. Maintenance of the planting includes tasks such as:

- Herbicide spraying to control competing weeds. Watering while plants are establishing. This is often highly variable and depends on the suite of species planted, weather conditions and time of year when planted. A watering schedule may consist of watering every day for week 1, twice per week for weeks 2-6 and then weekly from weeks 6-12.
- Repair of tree guards if they become damaged.
- Replenishment of mulch.
- Maintaining exclusion fencing; and

Additional planting if required

Additional planting may be required to replace plants that do not survive (e.g. to meet survival rate requirements, or to fill gaps), but it may also be necessary to introduce new species at different stages of vegetation succession. An adaptive management approach should be utilised, if one plant species consistently dies on a site, consider using in its place a species that is performing well.

Maintenance is required following installation of the plants, although if maintenance is regular and thorough during the first year, maintenance requirements are likely to taper off significantly in the following years.

The utilisation of benchmark criteria helps to determine rehabilitation success during the maintenance period and assists in prompting when additional maintenance activities are required. Typically accepted benchmarks or performance indicators for dedicated or open space rehabilitation works include

- Compliance / 'On Maintenance' requirements;
- •• All required planting completed.
- 90% plant survival •• 100% kill rate of declared environmental weeds
- Ongoing / "Off Maintenance' requirements;
- •• 80% plant survival.
- Tree guards, stakes and general rubbish removed. No remaining eroded or degraded areas. ••
- 100% kill rate of declared environmental weeds

The desired end-product is a fully-functioning system that can support itself in perpetuity, with minimal maintenance and input required.

REHABILITATION METHODOLOGY - MAINTENANCE & MONITORING

It is also critical for all parties to understand their responsibilities as part of the overall rehabilitation 'team

	REHABILITATION TEAM RESPONSIBILITIES
PARTY	DESCRIPTION
	Ensure all consultants, contractors, sub contractors or others utilizing the area are aware of the Rehabilitation Plan.
	Appoint appropriate consultants and contractors to undertake works as prescribed on the
Prononent	drawings and conditioned by the Assessment Manager.
rioponent	Provide security via an uncompleted works bond and maintenance bond for the cost of works
	if required.
	Cover the costs of all necessary resources to ensure works are completed as per the approved
	documents.
	Brief proponent on their requirements in implementing and maintaining works as per the
	Rehabilitation Plan.
	Attend pre-start and compliance (on and off maintenance) inspections.
Consultants	Undertake monitoring and reporting to the Assessment Manager as set up by this document.
	Be available to respond to technical queries to the approved documentation when on-site
	conditions require changes.
	Liaise with the Assessment Manager throughout all stages of approval, initial works and maintenance of works.
	Provide technical expertise via commentary on the approval of documentation.
	Attend pre-start and compliance (on and off maintenance) inspections.
	Reduce and release securities held against works at the completion of successful milestone
Assessment	inspections.
wanager	Be available to respond to technical queries to the approved documentation when on-site
	conditions require changes.
	Accept and review maintenance reports as dictated (if required) in this document.
	Complete works in strict accordance with the documentation.
	Attend pre-start and compliance (on and off maintenance) inspections.
	Hold relevant licenses in applicable weed management/ revegetation/ fauna management,
	any required insurances for scope of works and an understanding of required Laws, Act,
Contractor	Policies and Guidelines.
contractor	Recommend changes to the documentation when specific experience or on-site conditions
	require so.
	Hold minimum certifications such as Certificate III in Conservation and Land Management, or
	Certificate III in Horticulture, or Certificate III in Rehabilitation Construction, or equivalent
	every in rehabilitation

REHABILITATION METHODOLOGY - MAINTENANCE & MONITORING

Informal Monitoring of rehabilitation works is another method of determining ecological restoration success in conjunction with the adjacent benchmarks. Informal monitoring to occur through ongoing site inspections and note-taking. Notes to be distributed to the rehabilitation team and rectification works completed against notes.

Additionally, informal monitoring may require photo-monitoring locations if deemed necessary during the approval process by the assessment manager. A permanent or semi-permenant photopoint can be set up using a star picket marked with fluorescent yellow safety cap or painted timber stakes, so that a photograph may be taken of the site at regular (guarterly) intervals as it is being restored. A time series of photographs, from a degraded state prior to the commencement of restoration, through the transition stages and into the maintenance stage will assist in assessing the success of the ecological restoration process. Collected site data and photos should be compiled in a 'master' monitoring report for proper record-keeping.

Monitoring of the weed management and revegetation works allows for:

- Review of the pre-established performance indicators for measuring the success of the weed removal and control.
- Ensure level of protection for existing identified native vegetation inclusive of that which has • naturally regenerated
- Review the rate of spread or contraction of weed infestation within the control program
- Monitor the rate of assisted regeneration and revegetation of desirable native species promoted in areas where weeds have been removed.
- Identification of new weed threats or other factors which may be effecting areas designated for rehabilitation

										RE	HABILITATION	I WORKS - INDICATIVE SC	HEDULE OF W	ORK ITEMS	AND MAINTE	ENANCE SEQUE	NCING								
		SPRING				SUMMER			AUTUMN			WINTER		SPRING			SUMMER			AUTUMN		WINTER		SPRING	
TIMING		PRIMARY WORKS			F	OLLOW-UP WOR	KS	FOLLOW	UP / MAINTENAN	ICE WORKS	MAI	INTENANCE WORKS	MA	AINTENANCE W	ORKS	MAI	NTENANCE WOR	RKS	МА	INTENANCE WORKS	M	AINTENANCE WORKS	N	IAINTENANCE WO	ĸs
WEEK 1	Month 1 Pre-start meeting Council, Contractor and Superintendant	Month 2 Weed management - "knockdown spray"	Month 3 Mulch spreading and Jute-mat installation	TENANCE"	Month 1 Watering and Monitoring and reporting (throughout establishment)	Month 2 Watering and Monitoring and reporting (throughout establishment)	Month 3 Watering and Monitoring and reporting (throughout establishment)	Month 1 Monitoring and reporting (watering to replacement plants only)	Month 2 Monitoring and reporting	Month 3 Monitoring and reporting	Month 1 Monitoring (watering to replacement plants only). Photomonitorin g as required	Month 2 Month 3 Informal monitoring and reporting	Month 1 Informal monitoring and reporting. Photomonitori ng as required.	Month 2	Month 3 Informal monitoring and reporting	Month 1 Monitoring (watering to replacement plants only). Photomonitori ng as required	Month 2	Month 3 Informal monitoring and reporting	Month 1 Informal monitoring and reporting. Photomonitorin g as required.	Month 2 Month 3 Monitoring at reporting	Month 1 Informal monitoring and reporting Photomonitor ng as required.	Month 2 Month 3 Informal monitoring ar reporting	Month 1 Mulch - top up depths to 100m and replace / repair Jutematting as required	Month 2 Informal m monitoring and reporting. Photomonitoring g as required.	Month 3 Monitoring (watering to replacement plants only)
WEEK 2	Initial weed management works - wood weed removal /"knockdown" spray	Soil Preparation and cultivation	Natural regeneration plants staking for identification	COMPLIANCE / "ON MAII	Weed management - "knockdown spray" in mulched areas	Weed management - "knockdown spray" re-apply woody weeds	Weed management - "knockdown spray" in mulched areas	Weed management - rotation "knockdown spray" in mulched areas	Weed management - rotation "knockdown spray" in mulched areas	Weed management - rotation "knockdown spray" in mulched areas	Weed management - rotation "knockdown spray" in mulched areas	Weed management - rotation "knockdown spray" in mulched areas	Weed management - rotation "knockdown spray" in mulched areas		Weed management - rotation "knockdown spray" in mulched areas	Weed management - rotation "knockdown spray" in mulched areas		Weed management - rotation "knockdown spray" in mulched areas	Weed management - rotation "knockdown spray" in mulched areas	Weed managemen rotation "knockdowi spray" in mulched are-	Weed management rotation "knockdown spray" in as mulched areas	- Weed management rotation "knockdowr spray" in mulched area	Natural - regeneration plants - weed management	Weed management - "knockdown spray" re-apply woody weeds	Weed management - "knockdown spray" in mulched areas
WEEK 3	Weed management works - removal by hand	Soil Preparation and modification	Planting and Watering	MILESTONE: C	Natural regeneration plants - weed management	Replacement of Failed Plants	Replacement of Failed Plants	Natural regeneration plants - weed management	Natural regeneration plants - weed management	Replacement of Failed Plants	f Natural regeneration plants - weed management	Trees formative pruning	2		Replacement of Failed Plants	:			Natural regeneration plants - weed management	Trees formati pruning	ve		Trees formativ pruning	e Replacement of Failed Plants	Natural regeneration plants - weed management
WEEK 4	Weed Management - slashing of maintenance access paths	Mulch - stockpiled on site	Planting and Watering		Weed Management - slashing of maintenance access paths	Weed Management - slashing of maintenance access paths	Weed Management - slashing of maintenance access paths	Weed Management - slashing of maintenance access paths	Weed Management - slashing of maintenance access paths	Weed Management - slashing of maintenance access paths		Weed Management - slashing of maintenance access paths	Weed Management - slashing of maintenance access paths		Weed Management - slashing of maintenance access paths	Weed Management - slashing of maintenance access paths	Weed Managemen slashing of maintenanc access path	Weed t - Management slashing of e maintenance s access paths	Weed Management slashing of maintenanc access path	Replacement c - Failed Plants	f Weed Management - slashing of maintenance access paths	Weed Management - slashing of maintenance access paths			
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REHABILITATION METHODOLOGY - MAINTENANCE & MONITORING

Monitoring timeframes may involve a series of key milestones:

Prestart Inspection - On site meeting prior to the initial commencement of work. Typically involves Consultant, Contractor and Assessment Manager to work through rehabilitation areas and clarify any adjustments to scope against approved works.

Compliance Inspections - At the completion of the Primary Site Works, a compliance inspection meeting will be held with the Consultant, Contractor and Assessment Manager to inspect the works on-site in relation to the approved plans and previously agreed benchmarks / performance indicators. Should the rehabilitation area be a dedicated asset (open space) to the assessment manager, this inspection is commonly referred to as 'on maintenance'. For dedicated assets, a secondary compliance inspection will be required (off maintenance).

Ongoing Monitoring Inspections- Informal monitoring to occur on a regular basis as highlighted above. These inspections will generally occur throughout the process, specifically before, during and after relevant compliance inspections.

SITE FAUNA SCHEDULE

Species	Common Name
BIRDS	·
Alcedo azurea	Azure Kingfisher
Ardea ibis	Cattle Egret
Ardea intermedia	Intermediate Egret
Centropus phasianinus	Pheasant Coucal
Chenonetta jubata	Australian Wood Duck
Corvus orru	Torresian Crow
Dacelo novaeguineae	Laughing Kookaburra
Dendrocygna eytoni	Plumed Whistling Duck
Eolophus roseicapilla	Galah
Gallinula tenebrosa	Dusky Moorhen
Geopelia cuneata	Diamond Dove
Gymnorhina tibicen	Australian Magpie
Malurus cyaneus	Superb Fairy-wren
Malurus melanocephalus	Red-backed Fairy Wren
Manorina melanocephala	Noisy Miner
Meliphaga lewinii	Lewins' Honeyeater
<i>Merops ornatus</i>	Rainbow Bee-eater
Milvus migrans	Black Kite
Phalacrocorax sulcirostris	Little Black Cormorant
Philemon corniculatus	Noisy Friarbird
Platycercus adscitus	Pale-headed Rosella
Podargus strigoides	Tawny Frogmouth
Rhipidura leucophrys	Willie Wagtail
Threskiornis molucca	Australian White Ibis
Threskiornis spinicollis	Straw-necked Ibis
Trichoglossus chlorolepidotsu	Scaly-breasted Lorikeet
Trichoglossus haematodus	Rainbow Lorikeet
Vanellus miles	Masked Lapwing
REPTILES	
Hemidactylus frenatus	Asian House Gecko
Physignathus lesueurii	Eastern Water Dragon
Pogona barbata	Common Bearded Dragon
Cryptoblepharus virgatus	Wall Skink
Pseudonaja textilis	Eastern Brown Snake
Pseudechis porphyriacus	Red-bellied Black Snake
MAMMALS	
Trichosurus vulpecula	Common Brushtail Possum
<i>Macropus giganteus</i>	Grey Kangaroo
AMPHIBIANS	
Bufo marinus	Cane Toad
Litoria fallax	Eastern Sedgefrog

Saunders Havill Group Pty Ltd ABN 24 144 972 949 address 9 Thompson St Bowen Hills 0 4000 b surveying • town planning • urban design • environmental management • landscape architecture	COLOUR KEY TO WORK ITEMS Weed Management Soil Preparation and Mulching Planting Works Watering, Monitoring and Reporting e: Source for information contained on this page from SEQERF.	AMENDMENTS: Issue Date A 24/01/2018 B 16/03/2018 	Description CLIENT ISSUE LODGEMENT	Check MS MS
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PROJECT: MOUNTAIN RIDGE ROAD,	REHABILITATION NOTES				
SOUTH MACLEAN	DATE: JAN 2018	CHECKED:MS			
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MOUNTAIN RIDGE ROAD, SOUTH MACLEAN **ECOLOGICAL SITE MANAGEMENT PLAN**



IN	TRO	DU	СТ	0

The Environmental Management Division of the Saunders Havill Group was engaged by Mountain Ridge Pty Ltd ATF Mountain Ridge Unit Trust to prepare an Ecological Site Management Plan (ESMP) for the proposed development at 230 Mountain Ridge Road, South Maclean.

- Vegetation Management; and

Further detail will be required at the operational works phase (per stage) to adequately addressed the Vegetation Management and Rehabilitation Management requirements.



South Maclean

saunders havill group	DISCLAIMER: THESE PLANS HAVE BEEN PREVAND FOR THE EXCLUSIVE USE OF THE CLEANT, SUMDER'S HAVILL GROUP CANNOT ACCUT? REPORTABILITY OR ANY USE OF OR BLUINCE UPON THE CONTENTS OF THESE DRAWING AFT ANY THEO DATE. CONFERM ALL DRAWINGS ON SITE PROR TO CONSTRUCTION AND DO NOT SCALE FROM THE DRAWINGS. ALL DRAWINGS AND AN ULLIME TRUE, ANY DECEMPANCES SHOLD BE CLARINED IN WRITING WITH SUMPORE MULLIL DRAW FOR TOTO TO SCORE THE WARK.	REFERENCES:	AMENDMENTS: <u>Issue Date Description Checked</u> A 14/02/2018 Client Draft AH	CLIEN
<u>_</u>	PROR TO ANY DEMOLITION, EXCANTION OR CONSTRUCTION ON SITE, THE RELEVANT AUTHORITY SHOULD BE CONTACTED FOR FURTHER UNDER-GROUND SERVICES AND DETAILD LOCATIONS OF ALL SERVICES.			

The purpose of this ESMP to provide conceptual management targets in conjunction with the sites NESS. The ESMP has been broken down into two main

• Rehabilitation to the flagstone Creek Corridor including Habitat features



Concept Vegetation Management Plan

Economic Development Queensland (EDQ)

230 Mountain Ridge Road, South Maclean (Lot 6 on RP193185 and Lot 9 on SP203507)

by Mountain Ridge Pty Ltd ATF Mountain Ridge Unit Trust

CONTENTS 7344 E 02 Concept VMP A -- Vegetation Clearing Notes 7344 E 03 - 10 Concept VMP A -- Detail Sheet Appendix A -- Tree Schedule

Key Site Contacts

Saunders Havill Group Mr Adam Hutchinson Phone: (07) 3251 9440 Email: adamhutchinson@saundershavill.com



Concept Vegetation Management Plan Vegetation Clearing - Notes

INTRODUCTION

This section of the Ecological Site Management Plan (ESMP) will address the conceptual requirements of vegetation management. The aim of this portion of the ESMP is to provide a broad framework in conjunction with the NESS on the desired vegetation management outcomes for the Flagstone Creek Corridor that includes the district park and the Riparian Zone.

This Concept VMP has been produced by overlaying survey accurate tree positions and the proposed layout design provided both by SHG with the proposed civil works by Mortons Engineering to determine impacts and disturbances to existing vegetation. The ecological values of the trees were surveyed by the Saunders Havill Group between August and December 2017.

CLEARING PHASES AND PROCESS

The following stages are required for clearing to be undertaken on this property and a copy of this Prelim VMP must be present with the clearing contractor onsite:

PHASE 1 - Tree Protection Fencing to be installed prior to the commencement of any clearing works on the site. Tree protection fencing is to be located at or

beyond 12 x diameter at breast height (DBH) unless approved by the appointed Arborist.

PHASE 2 - Council Pre-start Meeting (if required)

Fencing shall be in place at the time of the official pre-start meeting for inspection and sign off by Council Officers.

PHASE 3 - Fauna Inspections and Management

Undertake necessary fauna management requirements prior to clearing works and acknowledge specific **EDQ** approval requirements.

PHASE 4 - Undertake Bulk Clearing

Undertake wholesale removal of vegetation once approved for removal by gualified fauna spotter. Clearing will occur in the direction outlined by the appointed fauna spotter to allow all fauna unimpeded movement off the site to the neighbouring Flagstone Creek Corridor retention area. Where practical, all

trees to be cleared shall be mulched onsite for future use within the project area. If vegetation is left stockpiled overnight, the Fauna Spotter-Catcher must inspect the vegetation prior to chipping or removal from site.

ACCESS AND STOCKPILING

A stockpiling location is to be designated in an easily accessible area outside of TPZs. The location will adjoin the north entry to the site allowing for material to be easily delivered and stored.

MAINTENANCE

After tree clearing works on site, follow up maintenance works should be carried out on all retained vegetation. An analysis of the vegetation's health and growth should be undertaken to determine specific maintenance needs.



Mountain Ridge Pty Ltd ATE	environmental management						
Mountain Ridge Unit Trust	PLAN OF: Concept Vegetation						
ROJECT:	Management Plan						
230 Mountain Ridge Road	DATE: 15/03/2018 CHECKED: AH						
South Maclean	CLIENT REF.: 7344 DRAWN: MC						
South Maclean	DRAWING No.: 7344 E 02 Concept VMF						



based on design
outline

CONFIRM ALL DIMENSION: DIMENSIONS ARE IN MILLIP HAVILL GROUP PRIOR TO T PRIOR TO ANY DEMOLITION

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230 Mountain Ridge Road South Maclean

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Management Plan

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South Maclean

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DATE: 15/03/2018	CHECKED: AH
CLIENT REF.: 7344	DRAWN: MC
DRAWING No.: 7344 E 03	Concept VMP

722 721 720 811 812 801 810 810 813 802 809 814 813 803 805 806 807 816	901 927 930 901 926 931 902 925 932 903 924 933 904 923 934 905 922 935	943 944 945 617 618 619 620 621 622 623 942 941 940 940 1034 1033 1032 1031 1030 1029 1028 1027 1026
817 826 825 824 823 822 827 828 819 820 828 831 832 833 834 830 831 832 833 834	906 921 936 907 920 937 908 919 1001 909 918 1002 910 917 1006 1005 1004 1003 911 910 917 1006 1005 1004 1003	938 1035 1036 1037 1038 1039 1040 1041 1042 1057 1035 1036 1037 1038 1039 1040 1041 1043 1056 1055 1053 1052 1051 1050 1049 1048 1047 1054 1053 1052 1051 1050 1049 1048 1047
203 226 220 203 220 223 203 223 23 204 271 273 271 273 274 835 9004 707577 293 20 279281 283 286 289 200 280 222 285 289 200 202 280 222 237 23 31 20 21 23 280 222 287 20 20 20 38:39 36:35 32 20 21 23 1	914 915 916 1007 1008 1009 16 7 16 7 10 8 1009 12 11 14 915 916 1007 1008 1009 12 11 14 915 916 1007 1008 1009	1010 1011 1012 1013 1042 1015 254 255 255 1042 1015





Concept Vegetation Management Plan -Details (sheet 9)

Mountain Ridge Pty Ltd ATF Mountain Ridge Unit Trust

230 Mountain Ridge Road South Maclean

environmental management

PLAN OF: Concept Vegetation Management Plan

DATE: 15/03/2018	CHECKED: AH
CLIENT REF.: 7344	DRAWN: MC
DRAWING No.: 7344 E 03	Concept VMP



South Maclean

DATE: 15/03/2018	CHECKED:	АH
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DRAWING No.: 7344 E 03	Concept V	MP E



Tree Schedule 7344 Mountain Ridge Road, South Maclean (Mountain Ridge Pty Ltd ATF Mountain Ridge Unit Trust) 15/03/2018

		Specimen Det	ails		_				Canopy Condition Details									Trunk	Condition D	Details		Fauna Details and Habitat Value						
Tree ID	Botanical Name	Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m) Spread (m)	Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes	
1	Corymbia tessellaris	Moreton Bay Ash	230		230	16.0 4.0	2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-	I	
2	Corymbia tessellaris	Moreton Bay Ash	230		230	16.0 3.0	2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
3	Corymbia tessellaris	Moreton Bay Ash	210		210	16.0 3.0	2.5	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
4	Corymbia tessellaris	Moreton Bay Ash	200		200	15.0 3.0	2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-	1	
5	Corymbia tessellaris	Moreton Bay Ash	210		210	16.0 3.0	2.5	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
6	Acacia disparrima	Hickory Wattle	200	260, 240	406	13.0 7.0	4.9	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
7	Acacia disparrima	Hickory Wattle	130		130	5.0 4.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-	1	
8	Alphitonia excelsa	Soap Tree	100		100	10.0 2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
9	Acacia disparrima	Hickory Wattle	160	200, 170	307	10.0 5.0	3.7	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
10	Acacia leiocalyx	Early Flowering Black Wattle	190		190	10.0 3.0	2.3	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
11	Alphitonia excelsa	Soap Tree	160		160	10.0 3.0	2.0	1.5	Regular	-	-	Thinning	Die-back	-	-	Poor	-	_	-	-	Typical		-	-	-	-	1	
12	Eucalyptus tereticornis	Forest Red Gum	110		110	11.0 2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
13	Acacia disparrima	Hickory Wattle	110		110	6.0 3.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
14	Acacia disparrima	Hickory Wattle	120	140	184	8.0 3.0	2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
15	Corymbia tessellaris	Moreton Bay Ash	200		200	16.0 4.0	2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
16	Acacia disparrima	Hickory Wattle	220	120, 110, 120	299	9.0 4.0	3.6	2.0	Regular	-	-	Thinning	Die-back	-	-	Poor	-	-	-	-	Typical		-	-	-	-		
17	Eucalyptus tereticornis	Forest Red Gum	150		150	13.0 3.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-	1	
18	Eucalyptus tereticornis	Forest Red Gum	140		140	15.0 3.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
19	Corymbia tessellaris	Moreton Bay Ash	160		160	15.0 3.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
20	Acacia leiocalyx	Early Flowering Black Wattle	220		220	10.0 3.0	2.6	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-	1	
21	Eucalyptus tereticornis	Forest Red Gum	220		220	17.0 4.0	2.6	1.8	Regular	-	I	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
22	Eucalyptus tereticornis	Forest Red Gum	140		140	14.0 3.0	2.0	1.4	Regular	-	I	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
23	Lophostemon suaveolens	Swamp Box	130		130	12.0 3.0	2.0	1.4	Regular	-	I	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-	1	
24	Eucalyptus tereticornis	Forest Red Gum	240		240	18.0 4.0	2.9	1.8	Regular	-	I	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
25	Acacia disparrima	Hickory Wattle	180		180	8.0 3.0	2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
26	Acacia disparrima	Hickory Wattle	130	150, 120	232	10.0 4.0	2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
27	Alphitonia excelsa	Soap Tree	100	100, 80, 60	173	10.0 3.0	2.1	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
28	Eucalyptus tereticornis	Forest Red Gum	290	200, 100	366	18.0 5.0	4.4	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
29	Acacia disparrima	Hickory Wattle	160	130	206	10.0 3.0	2.5	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		
30	Alphitonia excelsa	Soap Tree	130		130	12.0 3.0	2.0	1.4	Regular	-	-	-	-	_	-	Typical	-	-	-	-	Typical		-	-	_	<u> </u>		
31	Eucalyptus tereticornis	Forest Red Gum	250		250	19.0 5.0	3.0	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	<u> </u>		
32	Corymbia tessellaris	Moreton Bay Ash	110		110	12.0 2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	-	-	-		

Specimen Details									Canopy Condition Details									Trunk	Fauna Details and Habitat Value									
G aJ	Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m)	Spread (m)	Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
33 Acacia disparrima Hickory Wattle		260		260	8.0	4.0	3.1	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
34 Corymbia tessellaris Moreton Bay Ash	n	130		130	15.0	2.0	2.0	1.4	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
35 Acacia disparrima Hickory Wattle		260		260	13.0 8	3.0	3.1	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
36 Acacia leiocalyx Early Flowering E	Black Wattle	260		260	13.0	7.0	3.1	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
37 Alphitonia excelsa Soap Tree		110		110	12.0	2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
38 Acacia disparrima Hickory Wattle		210		210	9.0	4.0	2.5	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
39 Acacia disparrima Hickory Wattle		280		280	13.0	5.0	3.4	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-]	-	-	-	-	
40 Acacia disparrima Hickory Wattle		130	120, 100	203	8.0	3.0	2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
41 Acacia leiocalyx Early Flowering E	Black Wattle	190		190	10.0	3.0	2.3	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
42 Acacia leiocalyx Early Flowering E	Black Wattle	220		220	13.0	5.0	2.6	1.8	Regular	-	-	Thinning	Die-back	-	-	Poor	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
43 Acacia disparrima Hickory Wattle		250		250	15.0	5.0	3.0	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
44 Acacia disparrima Hickory Wattle		110	155	190	9.0	4.0	2.3	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
45 Corymbia tessellaris Moreton Bay Ash	n	350		350	22.0	7.0	4.2	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
46 Eucalyptus siderophloia Grey Ironbark		200		200	18.0	4.0	2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
47 <i>Eucalyptus tereticornis</i> Forest Red Gum		360		360	23.0	7.0	4.3	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
48 Eucalyptus tereticornis Forest Red Gum		530		530	21.0 1	3.0	6.4	2.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
49 Corymbia tessellaris Moreton Bay Ash	n	160		160	20.0	3.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
50 Alphitonia excelsa Soap Tree		150		150	13.0	3.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
51 Alphitonia excelsa Soap Tree		130		130	13.0	3.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
52 Corymbia citriodora Spotted Gum		190	370	416	22.0 1	0.0	5.0	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
53 Acacia disparrima Hickory Wattle		260		260	12.0	5.0	3.1	1.9	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
54 Corymbia tessellaris Moreton Bay Ash	ı	240		240	16.0	4.0	2.9	1.8	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
55 Acacia disparrima Hickory Wattle		160		160	7.0	3.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
56 Acacia disparrima Hickory Wattle		200		200	12.0	4.0	2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
57 Acacia leiocalyx Early Flowering E	Black Wattle	220		220	14.0	5.0	2.6	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
58 Corymbia tessellaris Moreton Bay Ash	า	430		430	23.0 1	2.0	5.2	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
59 Corymbia tessellaris Moreton Bay Ash	n	140		140	15.0	3.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
60 Eucalyptus tereticornis Forest Red Gum		220		220	16.0	4.0	2.6	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
61 Acacia disparrima Hickory Wattle		120	140, 100, 100	232	13.0	4.0	2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
62 Corymbia tessellaris Moreton Bay Ash	1	190		190	17.0	4.0	2.3	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-]	-	-	-	
63 <i>Acacia fimbriata</i> Fringed Wattle		150	120	192	8.0	5.0	2.3	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-]		-	-	-	
64 Eucalyptus siderophloia Grey Ironbark		200		200	15.0	4.0	2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-]		-	-	-	
65 Eucalyptus siderophloia Grey Ironbark		180		180	17.0	4.0	2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-]	-	-	-	
66 Acacia disparrima Hickory Wattle		140		140	6.0	3.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-]		-	-	-	
67 Eucalyptus tereticornis Forest Red Gum		430	360	561	28.0 1	3.0	6.7	2.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-]		-	-	-	
68 Eucalyptus tereticornis Forest Red Gum		530		530	30.0 1	3.0	6.4	2.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-]	-	-	-	-	

		Canopy Condition Details									Trunk	Fau															
Botanical Name	Common Name	Trunk DBH (mm) Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m) Spread (m) Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes		
69 Eucalyptus tereticornis For	orest Red Gum	460	460	23.0 10.0 5.5	5 2.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-			
70 Angophora leiocarpa Sm	nooth Bark Apple	440	440	23.0 13.0 5.3	3 2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-			
71 Eucalyptus tereticornis For	orest Red Gum	160	160	12.0 3.0 2.0) 1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-			
72 Angophora leiocarpa Sm	nooth Bark Apple	180	180	15.0 3.0 2.2	2 1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>		-	-	-			
73 Eucalyptus tereticornis For	orest Red Gum	530	530	29.0 15.0 6.4	2.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-			-	-	-			
74 Corymbia intermedia Pin	nk Bloodwood	290	290	19.0 9.0 3.5	5 2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-			
75 Eucalyptus tereticornis For	orest Red Gum	520	520	27.0 12.0 6.2	2 2.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	1	-	-	-	-	-			
76 Eucalyptus siderophloia Gre	rey Ironbark	190	190	15.0 3.0 2.3	3 1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	I	-	-	-	-	-			
77 Corymbia citriodora Spo	ootted Gum	150	150	16.0 3.0 2.0) 1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-			
78 Corymbia citriodora Spo	ootted Gum	280	280	18.0 5.0 3.4	l 1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-			
79 Alphitonia excelsa Soa	oap Tree	130	130	10.0 3.0 2.0) 1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-			
80 Eucalyptus tereticornis For	orest Red Gum	280	280	17.0 6.0 3.4	l 1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-			
81 Corymbia citriodora Spc	ootted Gum	250	250	16.0 6.0 3.0) 1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-			
82 Eucalyptus tereticornis For	orest Red Gum	340	340	18.0 6.0 4.	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-			
83 Eucalyptus moluccana Gur	um Topped Box	640	640	28.0 16.0 7.7	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-			
84 Acacia disparrima Hic	ckory Wattle	200	200	11.0 4.0 2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-			
85 Eucalyptus siderophloia Gre	rey Ironbark	260	260	16.0 6.0 3.	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-			
86 Acacia disparrima Hic	ckory Wattle	190 110	220	13.0 4.0 2.0	5 1.8	Regular	-	-	Thinning	Die-back	-	-	Poor	-	-	-	-	Typical	-	[_]	-	-	-	-			
87 Eucalyptus tereticornis For	orest Red Gum	110	110	13.0 3.0 2.0) 1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-			
88 Corymbia citriodora Spo	ootted Gum	120	120	14.0 3.0 2.0) 1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-			
89 Eucalyptus siderophloia Gre	rey Ironbark	490	490	29.0 12.0 5.9) 2.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-			
90 Corymbia citriodora Spo	ootted Gum	200	200	16.0 3.0 2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-			
91 Eucalyptus siderophloia Gre	rey Ironbark	260	260	18.0 4.0 3.	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-			
92 Corymbia citriodora Spc	ootted Gum	200 130	239	17.0 3.0 2.9) 1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	_	Typical	-	[_]	-	-	-	-			
93 Eucalyptus siderophloia Gre	rey Ironbark	600	600	32.0 16.0 7.2	2 2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-			
94 Eucalyptus siderophloia Gre	rey Ironbark	410	410	22.0 9.0 4.9) 2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	_	Typical	-	[_]	-	-	-	-			
95 Eucalyptus siderophloia Gre	rey Ironbark	330	330	19.0 8.0 4.0) 2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	_	Typical	-	[_]	-	-	-	-			
96 Acacia disparrima Hic	ckory Wattle	130	130	8.0 3.0 2.0) 1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-			
97 Acacia leiocalyx Ear	rly Flowering Black Wattle	140 130	191	12.0 4.0 2.3	3 1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	- 1	-	-	-	- 1			
98 Acacia leiocalyx Ear	rly Flowering Black Wattle	160	160	6.0 3.0 2.0) 1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	- 1			
99 Eucalyptus tereticornis For	orest Red Gum	180	180	13.0 3.0 2.2	2 1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	- 1	-	-	-	- 1			
100 Eucalyptus tereticornis For	orest Red Gum	260	260	16.0 5.0 3.	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	- 1			
101 Acacia concurrens Blac	ack Wattle	260	260	12.0 4.0 3.	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	- 1			
102 Eucalyptus tereticornis For	orest Red Gum	320	320	18.0 6.0 3.8	3 2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	- 1			
103 Eucalyptus tereticornis For	orest Red Gum	300	300	17.0 4.0 3.0	5 2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	- 1			
104 Acacia disparrima Hic	ckory Wattle	130	130	9.0 3.0 2.0) 1.4	Regular	-	-	-			-	Typical	-	-		-	Typical	-			-		-			
	Specimen Det	ails	-							(Canopy Co	ondition [Details				Trunk	Condition D	Oetails		Fau	ina D	etails	and H	abitat Va	lue	
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Botanical Name	Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m) Snread (m)	Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Pobbeq	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
105 Acacia disparrima	Hickory Wattle	130	120, 100	203	10.0 3.	2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
106 Acacia leiocalyx	Early Flowering Black Wattle	160		160	10.0 3.	2.0	1.5	Regular	-	I	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
107 Acacia disparrima	Hickory Wattle	160		160	8.0 3.	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
108 Eucalyptus moluccana	Gum Topped Box	640		640	25.0 12	0 7.7	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
109 Eucalyptus moluccana	Gum Topped Box	590		590	24.0 12	0 7.1	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
110 Acacia leiocalyx	Early Flowering Black Wattle	250		250	12.0 5.	3.0	1.8	Regular	-	-	Thinning	Die-back	-	-	Poor	-	-	-	-	Typical	-	L -]	-	-	-	-	
111 Acacia leiocalyx	Early Flowering Black Wattle	230		230	12.0 4.	2.8	1.8	Regular	-	I	Thinning	Die-back	-	-	Poor	-	-	-	-	Typical	-	-	-	-	-	-	
112 Acacia leiocalyx	Early Flowering Black Wattle	240		240	11.0 4.) 2.9	1.8	Regular	-	I	-	-	-	I	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
113 Eucalyptus tereticornis	Forest Red Gum	590		590	30.0 13	0 7.1	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	
114 Acacia leiocalyx	Early Flowering Black Wattle	160		160	11.0 3.	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-]	-	-	-	-	
115 Acacia leiocalyx	Early Flowering Black Wattle	140		140	8.0 3.	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	
116 Acacia leiocalyx	Early Flowering Black Wattle	180	120	216	12.0 4.) 2.6	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
117 Acacia disparrima	Hickory Wattle	130	130	184	12.0 3.) 2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
118 Acacia leiocalyx	Early Flowering Black Wattle	130		130	11.0 3.) 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
119 Acacia leiocalyx	Early Flowering Black Wattle	130		130	11.0 3.) 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
120 Acacia leiocalyx	Early Flowering Black Wattle	190		190	13.0 4.) 2.3	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
121 Acacia leiocalyx	Early Flowering Black Wattle	160		160	11.0 3.	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
122 Acacia leiocalyx	Early Flowering Black Wattle	150		150	11.0 3.) 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
123 Acacia leiocalyx	Early Flowering Black Wattle	160		160	11.0 4.) 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
124 Acacia leiocalyx	Early Flowering Black Wattle	180		180	12.0 3.) 2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
125 Acacia leiocalyx	Early Flowering Black Wattle	170		170	12.0 4.) 2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
126 Eucalyptus tereticornis	Forest Red Gum	190		190	16.0 4.) 2.3	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
127 Acacia leiocalyx	Early Flowering Black Wattle	160		160	14.0 5.) 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
128 Acacia disparrima	Hickory Wattle	130		130	9.0 3.) 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
129 Acacia leiocalyx	Early Flowering Black Wattle	140		140	10.0 3.) 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
130 Acacia leiocalyx	Early Flowering Black Wattle	180		180	10.0 3.) 2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
131 Acacia leiocalyx	Early Flowering Black Wattle	120		120	10.0 3.) 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
132 Acacia leiocalyx	Early Flowering Black Wattle	180		180	12.0 4.) 2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
133 Acacia leiocalyx	Early Flowering Black Wattle	130		130	10.0 3.) 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
134 Acacia leiocalyx	Early Flowering Black Wattle	150		150	10.0 3.	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
135 Acacia leiocalyx	Early Flowering Black Wattle	150		150	11.0 3.	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
136 Alphitonia excelsa	Soap Tree	130		130	8.0 3.	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
137 Eucalyptus tereticornis	Forest Red Gum	1000		1000	32.0 16	0 12.0	3.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
138 Acacia leiocalyx	Early Flowering Black Wattle	230		230	14.0 6.) 2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	- 1	-	-	-	-	
139 Acacia disparrima	Hickory Wattle	170		170	13.0 3.) 2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
140 Alphitonia excelsa	Soap Tree	220		220	16.0 4.	2.6	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	

	Specimen De	tails								(Canopy Co	ondition [Details				Trunk	Condition D	etails		Fau	ina D	etails	and H	abitat Va	alue	
Botanical Name	Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m)	opreau (iii)	Tree Protection Zone (m) Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
141 Eucalyptus tereticornis	Forest Red Gum	770		770	32.0 1	5.0 9	9.2 3.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
142 Corymbia tessellaris	Moreton Bay Ash	690		690	30.0 12	7.0 8	3.3 2.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	1	-	-	-	-	-	
143 Alphitonia excelsa	Soap Tree	180		180	16.0 4	.0 2	2.2 1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
144 Acacia disparrima	Hickory Wattle	200		200	10.0 4	.0 2	2.4 1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
145 Acacia disparrima	Hickory Wattle	260		260	15.0 7	.0 3	3.1 1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
146 Acacia disparrima	Hickory Wattle	250		250	10.0 4	.0 3	3.0 1.8	Regular	-	-	Thinning	Die-back	-	Lopped	Poor	-	-	-	-	Typical	-	_	-	-	-	-	
147 Corymbia tessellaris	Moreton Bay Ash	140		140	14.0 3	.0 2	2.0 1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	1	-	-	-	-	-	
148 Corymbia tessellaris	Moreton Bay Ash	130		130	13.0 3	.0 2	2.0 1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	1	_	-	-	-	-	
149 Corymbia tessellaris	Moreton Bay Ash	130		130	13.0 3	.0 2	2.0 1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	1		-	-	-	-	
150 Corymbia tessellaris	Moreton Bay Ash	160		160	10.0 3	.0 2	2.0 1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	_	-	-	-	-	
151 Corymbia tessellaris	Moreton Bay Ash	110		110	10.0 2	.0 2	2.0 1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	1		-	-	-	-	
152 Corymbia intermedia	Pink Bloodwood	550		550	26.0 12	2.0 6	5.6 2.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	1	_	-	-	-	-	
153 Eucalyptus tereticornis	Forest Red Gum	530		530	22.0 12	2.0 6	5.4 2.5	Regular	-	-	-	-	-	-	Typical	-	-	Trunk Dmg.	-	Typical	-	_	-	-	-	-	
154 Eucalyptus tereticornis	Forest Red Gum	690		690	15.0 12	2.0 8	3.3 2.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	1	_	-	-	-	-	
155 Eucalyptus siderophloia	Grey Ironbark	520		520	24.0 1	.0 6	5.2 2.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	1	_	-	-	-	-	
156 Eucalyptus tereticornis	Forest Red Gum	500		500	22.0 10).0 6	5.0 2.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	1	_	-	-	-	-	
157 Eucalyptus tereticornis	Forest Red Gum	500		500	22.0 10	0.0 6	5.0 2.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
158 Corymbia citriodora	Spotted Gum	820		820	28.0 1	5.0 9	9.8 3.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	1	_	-	-	-	-	
159 Eucalyptus moluccana	Gum Topped Box	600		600	20.0 1	.0 7	7.2 2.7	Regular	-	-	-	-	-	-	Typical	-	-	Trunk Dmg.	-	Typical	1	_	-	-	-	-	
160 Corymbia citriodora	Spotted Gum	290	330	439	21.0 10).0 5	5.3 2.3	Regular	-	-	-	-	-	Lopped	Typical	-	-	-	-	Typical	-	_	-	-	-	-	
161 Eucalyptus tereticornis	Forest Red Gum	480		480	18.0 9	.0 5	5.8 2.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
162 Eucalyptus tereticornis	Forest Red Gum	270		270	17.0 4	.0 3	3.2 1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	_	-	-	-	-	
163 Eucalyptus siderophloia	Grey Ironbark	200		200	15.0 4	.0 2	2.4 1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	1	_	-	-	-	-	
164 Eucalyptus tereticornis	Forest Red Gum	160		160	14.0 3	.0 2	2.0 1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	_	-	-	-	-	
165 Eucalyptus tereticornis	Forest Red Gum	260		260	16.0 4	.0 3	3.1 1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
166 Eucalyptus tereticornis	Forest Red Gum	160	120	200	14.0 3	.0 2	2.4 1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	_	-	-	-	-	
167 Eucalyptus tereticornis	Forest Red Gum	290		290	15.0 3	.0 3	3.5 2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	_	-	-	-	-	
168 Corymbia citriodora	Spotted Gum	150		150	12.0 3	.0 2	2.0 1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	_	-	-	-	-	
169 Corymbia citriodora	Spotted Gum	100		100	10.0 2	.0 2	2.0 1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
170 Corymbia citriodora	Spotted Gum	120		120	12.0 3	.0 2	2.0 1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	_	-	-	-	-	
171 Eucalyptus tereticornis	Forest Red Gum	120		120	12.0 3	.0 2	2.0 1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
172 Eucalyptus tereticornis	Forest Red Gum	120	80	144	11.0 2	.0 2	2.0 1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
173 Corymbia citriodora	Spotted Gum	170	80	188	13.0 3	.0 2	2.3 1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
174 Corymbia citriodora	Spotted Gum	110		110	11.0 2	.0 2	2.0 1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
175 Corymbia citriodora	Spotted Gum	110		110	11.0 2	.0 2	2.0 1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		<u> </u>	-	-	-	
176 Corymbia citriodora	Spotted Gum	110		110	11.0 2	.0 2	2.0 1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	

	Specimen Det	ails			-				C	Canopy Co	ondition [Details				Trunk	Condition D	Oetails		Fau	ina D	etails	and H	<mark>abitat Va</mark>	lue	
Botanical Name	Common Name	Trunk DBH (mm) Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m) Spread (m)	Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
177 Corymbia henryi	Large Leaf Spotted Gum	120	120	11.0 3.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
178 Eucalyptus tereticornis	Forest Red Gum	110	110	10.0 2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
179 Corymbia citriodora	Spotted Gum	110	110	10.0 2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
180 Eucalyptus tereticornis	Forest Red Gum	280	280	15.0 4.0	3.4	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
181 Eucalyptus tereticornis	Forest Red Gum	230	230	14.0 3.0	2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
182 Eucalyptus tereticornis	Forest Red Gum	170	170	13.0 3.0	2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
183 Eucalyptus tereticornis	Forest Red Gum	120	120	10.0 2.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
184 Eucalyptus tereticornis	Forest Red Gum	110	110	10.0 2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
185 Eucalyptus tereticornis	Forest Red Gum	110	110	10.0 2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
186 Eucalyptus tereticornis	Forest Red Gum	140	140	13.0 3.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
187 Eucalyptus tereticornis	Forest Red Gum	150	150	11.0 2.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
188 Eucalyptus tereticornis	Forest Red Gum	100	100	9.0 2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
189 Eucalyptus tereticornis	Forest Red Gum	100	100	9.0 2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
190 Eucalyptus tereticornis	Forest Red Gum	110	110	9.0 2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
191 Eucalyptus tereticornis	Forest Red Gum	120	120	10.0 2.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
192 Eucalyptus tereticornis	Forest Red Gum	100	100	10.0 2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
193 Eucalyptus tereticornis	Forest Red Gum	130	130	12.0 2.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
194 Eucalyptus tereticornis	Forest Red Gum	120	120	10.0 2.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
195 Eucalyptus tereticornis	Forest Red Gum	110	110	10.0 2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
196 Eucalyptus tereticornis	Forest Red Gum	120	120	10.0 2.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
197 Eucalyptus tereticornis	Forest Red Gum	120	120	10.0 2.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
198 Corymbia citriodora	Spotted Gum	430	430	25.0 10.	5.2	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
199 Eucalyptus tereticornis	Forest Red Gum	610	610	16.0 13.	0 7.3	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
200 Eucalyptus tereticornis	Forest Red Gum	470	470	18.0 13.	5.6	2.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
201 Eucalyptus tereticornis	Forest Red Gum	810	810	20.0 14.	9.7	3.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
202 Eucalyptus tereticornis	Forest Red Gum	610	610	17.0 12.	7.3	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
203 Eucalyptus tereticornis	Forest Red Gum	630	630	22.0 12.	0 7.6	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
204 Eucalyptus tereticornis	Forest Red Gum	600	600	22.0 12.	0 7.2	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
205 Eucalyptus tereticornis	Forest Red Gum	1000	1000	22.0 15.	0 12.0	3.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
206 Eucalyptus tereticornis	Forest Red Gum	690	690	22.0 12.	0 8.3	2.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
207 Eucalyptus tereticornis	Forest Red Gum	630	630	21.0 12.	0 7.6	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
208 Eucalyptus tereticornis	Forest Red Gum	960	960	22.0 16.	0 11.5	3.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
209 Corymbia intermedia	Pink Bloodwood	700	700	30.0 13.	0 8.4	2.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
210 Eucalyptus moluccana	Gum Topped Box	630	630	22.0 13.	0 7.6	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
211 Eucalyptus tereticornis	Forest Red Gum	1000	1000	22.0 16.	0 12.0	3.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-]	-	-	-	
212 Eucalyptus tereticornis	Forest Red Gum	1020	1020	20.0 13.	0 12.2	3.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	

	Specimen Det	ails				-				(Canopy Co	ondition [Details	I			Trunk	Condition D	etails		Fau	ına D	etails	and H	abitat Va	lue	
Botanical Name	Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m)	Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
213 Angophora subvelutina	Broad-leaved Apple	1120		1120	27.0 16	.0 13.	4 3.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
214 Eucalyptus tereticornis	Forest Red Gum	900		900	32.0 16	.0 10.	8 3.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
215 Lophostemon suaveolens	Swamp Box	210		210	13.0 3	0 2.5	5 1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
216 Eucalyptus tereticornis	Forest Red Gum	940		940	35.0 18	.0 11.	3 3.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
217 Lophostemon suaveolens	Swamp Box	610		610	17.0 10	.0 7.3	3 2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
218 Eucalyptus tereticornis	Forest Red Gum	290		290	14.0 4	0 3.5	5 2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
219 Eucalyptus tereticornis	Forest Red Gum	220		220	15.0 3	0 2.6	5 1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
220 Eucalyptus tereticornis	Forest Red Gum	140		140	10.0 2	0 2.0) 1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
221 Eucalyptus tereticornis	Forest Red Gum	310		310	14.0 4	0 3.7	7 2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
222 Eucalyptus tereticornis	Forest Red Gum	420	300, 320	607	18.0 12	.0 7.3	3 2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
223 Acacia disparrima	Hickory Wattle	330		330	13.0 5	0 4.0) 2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
224 Eucalyptus tereticornis	Forest Red Gum	530		530	30.0 13	.0 6.4	4 2.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
225 Eucalyptus tereticornis	Forest Red Gum	960		960	30.0 14	.0 11.	5 3.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
226 Eucalyptus tereticornis	Forest Red Gum	540		540	26.0 10	.0 6.5	5 2.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
227 Lophostemon suaveolens	Swamp Box	400		400	13.0 3	0 4.8	3 2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
228 Alphitonia excelsa	Soap Tree	190		190	10.0 3	0 2.3	3 1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
229 Corymbia intermedia	Pink Bloodwood	360		360	22.0 8	0 4.3	3 2.2	Regular	-	-	Thinning	Die-back	-	-	Poor	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
230 Eucalyptus tereticornis	Forest Red Gum	560		560	27.0 10	.0 6.7	7 2.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
231 Lophostemon suaveolens	Swamp Box	230		230	15.0 4	0 2.8	3 1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
232 Eucalyptus tereticornis	Forest Red Gum	300		300	16.0 5	0 3.6	5 2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
233 Eucalyptus tereticornis	Forest Red Gum	140		140	12.0 2	0 2.0) 1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
234 Eucalyptus tereticornis	Forest Red Gum	1020		1020	30.0 16	.0 12.	2 3.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
235 Eucalyptus tereticornis	Forest Red Gum	350		350	18.0 5	0 4.2	2 2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
236 Acacia fimbriata	Fringed Wattle	130		130	7.0 3	0 2.0) 1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
237 Eucalyptus tereticornis	Forest Red Gum	300		300	23.0 10	.0 3.6	5 2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
238 Eucalyptus tereticornis	Forest Red Gum	330		330	22.0 10	.0 4.0) 2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
239 Acacia leiocalyx	Early Flowering Black Wattle	160		160	10.0 3	0 2.0) 1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
240 Acacia disparrima	Hickory Wattle	260		260	14.0 4	0 3.1	I 1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
241 Corymbia tessellaris	Moreton Bay Ash	160		160	13.0 3	0 2.0) 1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
242 Acacia disparrima	Hickory Wattle	160		160	13.0 3	0 2.0) 1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
243 Acacia leiocalyx	Early Flowering Black Wattle	200		200	10.0 5	0 2.4	4 1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
244 Acacia leiocalyx	Early Flowering Black Wattle	200		200	13.0 4	0 2.4	4 1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
245 Acacia fimbriata	Fringed Wattle	190		190	11.0 4	0 2.3	3 1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
246 Acacia fimbriata	Fringed Wattle	130		130	10.0 3	0 2.0) 1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
247 Corymbia tessellaris	Moreton Bay Ash	100		100	10.0 2	0 2.0) 1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
248 Corymbia tessellaris	Moreton Bay Ash	120		120	10.0 2	0 2.0) 1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	

	Specimen De	tails									Canopy C	ondition l	Details				Trunk	Condition D	etails	•	Fau	na D	etails	and H	labitat Va	lue	
Botanical Name QI au	Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m)	Spread (m) Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
249 Eucalyptus tereticornis	Forest Red Gum	430		430	28.0	12.0 5.2	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	_	-	-	-	
250 Corymbia tessellaris	Moreton Bay Ash	200	120	233	16.0	6.0 2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	<u> </u>		-	-	-	-	
251 Corymbia tessellaris	Moreton Bay Ash	230		230	15.0	4.0 2.8	1.8	Regular	-	-	-	-	-	ŀ	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
252 Corymbia tessellaris	Moreton Bay Ash	130		130	12.0	3.0 2.0	1.4	Regular	-	-	-	-	-	ŀ	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
253 Eucalyptus tereticornis	Forest Red Gum	110		110	9.0	2.0 2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	_	-	-	-	
254 Eucalyptus tereticornis	Forest Red Gum	720		720	18.0	12.0 8.6	2.9	Regular	-	-	-	-	-	ŀ	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
255 Acacia disparrima	Hickory Wattle	180	170, 100	267	6.0	5.0 3.2	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
256 Acacia disparrima	Hickory Wattle	180	150, 140	273	7.0	6.0 3.3	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
257 Acacia disparrima	Hickory Wattle	230	170	286	7.0	5.0 3.4	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	- '	-	-	-	-	-	
258 Acacia disparrima	Hickory Wattle	220	140	261	6.0	5.0 3.1	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	[-]	-	-	-	-	-	
259 Acacia disparrima	Hickory Wattle	250	210	326	7.0	6.0 3.9	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
260 Eucalyptus tereticornis	Forest Red Gum	360		360	12.0	6.0 4.3	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
261 Lophostemon suaveolens	Swamp Box	320		320	11.0	5.0 3.8	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
262 Eucalyptus tereticornis	Forest Red Gum	710		710	26.0	8.0 8.5	2.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
263 Corymbia tessellaris	Moreton Bay Ash	460		460	18.0	8.0 5.5	2.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
264 Corymbia tessellaris	Moreton Bay Ash	180	175	251	11.0	5.0 3.0	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
265 Corymbia tessellaris	Moreton Bay Ash	220	160	272	13.0	7.0 3.3	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
266 Corymbia tessellaris	Moreton Bay Ash	300		300	17.0	6.0 3.6	2.0	Regular	-	-	Thinning	Die-back	-	-	Poor	-	-	-	-	Typical	-	-	-	-	Termites	-	
267 Eucalyptus tereticornis	Forest Red Gum	690		690	22.0	9.0 8.3	2.8	Regular	-	-	-	Die-back	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
268 Corymbia tessellaris	Moreton Bay Ash	350		350	17.0	6.0 4.2	2.1	Regular	-	-	Thinning	Die-back	-	-	Typical	-	-	Trunk Dmg.	-	Typical	-	-	-	-	-	-	
269 Corymbia tessellaris	Moreton Bay Ash	220		220	16.0	6.0 2.6	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
270 Lophostemon suaveolens	Swamp Box	275		275	14.0	6.0 3.3	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
271 Corymbia tessellaris	Moreton Bay Ash	480		480	18.0	7.0 5.8	2.4	Regular	-	-	Thinning	Die-back	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
272 Eucalyptus tereticornis	Forest Red Gum	470		470	21.0	9.0 5.6	2.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
273 Eucalyptus tereticornis	Forest Red Gum	320		320	20.0	7.0 3.8	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
274 Eucalyptus tereticornis	Forest Red Gum	600		600	21.0	10.0 7.2	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
275 Corymbia citriodora	Spotted Gum	270		270	18.0	6.0 3.2	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
276 Acacia concurrens	Black Wattle	160		160	8.0	3.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
277 Acacia disparrima	Hickory Wattle	170	150, 120	257	8.0	5.0 3.1	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
278 Corymbia citriodora	Spotted Gum	140		140	10.0	2.0 2.0	1.4	Regular	-	-	Thinning	Die-back	Epicormic	-	Poor	-	-	-	-	Typical	-	-	-	-	-	-	
279 Corymbia citriodora	Spotted Gum	210		210	12.0	5.0 2.5	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
280 Corymbia citriodora	Spotted Gum	180	100	206	13.0	3.0 2.5	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
281 Acacia disparrima	Hickory Wattle	190	180, 150, 90, 120	337	7.0	7.0 4.0	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	- 1	
282 Acacia disparrima	Hickory Wattle	165	150	223	8.0	6.0 2.7	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	 	
283 Lophostemon suaveolens	Swamp Box	200		200	8.0	5.0 2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-]	-	-	i - I	
284 Corymbia intermedia	Pink Bloodwood	260		260	10.0	4.0 3.1	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-			-	-	-	

		Specimen Det	ails								(Canopy C	ondition l	Details				Trunk	Condition D	Details		Fau	ina D	etails	and H	abitat Va	lue	
Tree ID	Botanical Name	Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m)	Spread (m) Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
285 I	ophostemon suaveolens	Swamp Box	185	160, 165	295	8.0	4.0 3.5	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
286 (Corymbia tessellaris	Moreton Bay Ash	170		170	9.0	3.0 2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	Native	-	-	Typical	-	-	-	-	-	-	
287	Acacia leiocalyx	Early Flowering Black Wattle	100		100	7.0	3.0 2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	_		-	-	-	
288 /	Acacia disparrima	Hickory Wattle	185		185	7.0	5.0 2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
289 /	Acacia disparrima	Hickory Wattle	140		140	7.0	3.0 2.0	1.4	One-sided	-	-	-	Die-back	-	-	Poor	-	-	-	-	Typical	-		-	-	-	-	
290 E	Eucalyptus tereticornis	Forest Red Gum	235		235	10.0	5.0 2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
291 /	Acacia disparrima	Hickory Wattle	120	60, 50	143	6.0	3.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
292 /	Acacia disparrima	Hickory Wattle	100	90, 80	157	6.0	3.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
293 /	Acacia disparrima	Hickory Wattle	140	140, 80, 90	232	6.0	3.0 2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
294 (Corymbia citriodora	Spotted Gum	390		390	20.0	8.0 4.7	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
295 /	Acacia disparrima	Hickory Wattle	170		170	7.0	6.0 2.0	1.6	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	_	-	-	-	
296 /	Acacia disparrima	Hickory Wattle	170		170	6.0	5.0 2.0	1.6	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
297 (Corymbia citriodora	Spotted Gum	400		400	21.0	9.0 4.8	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
298 I	Eucalyptus siderophloia	Grey Ironbark	280		280	17.0	7.0 3.4	1.9	One-sided	-	-	-	-	-	-	Typical	Minor	-	-	-	Typical	-	-	-	-	-	-	
299 (Corymbia citriodora	Spotted Gum	320		320	21.0	7.0 3.8	2.1	One-sided	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
300 0	Corymbia citriodora	Spotted Gum	310		310	18.0	7.0 3.7	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
301 /	Acacia disparrima	Hickory Wattle	210		210	9.0	5.0 2.5	1.7	Regular	-	-	-	-	-	I	Typical	-	-	Trunk Dmg.	-	Typical	-	-	-	-	-	-	
302 <i>I</i>	Eucalyptus siderophloia	Grey Ironbark	150		150	9.0	3.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
303 (Corymbia citriodora	Spotted Gum	210		210	16.0	6.0 2.5	1.7	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
304 <i>I</i>	Eucalyptus tereticornis	Forest Red Gum	660		660	26.0	11.0 7.9	2.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
305 <i>E</i>	Eucalyptus siderophloia	Grey Ironbark	340		340	27.0	9.0 4.1	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
306 <i>I</i>	Eucalyptus siderophloia	Grey Ironbark	460		460	24.0	11.0 5.5	2.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
307 (Corymbia tessellaris	Moreton Bay Ash	190		190	14.0	4.0 2.3	1.6	Regular	-	-	Thinning	Die-back	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
308 <i>I</i>	Eucalyptus tereticornis	Forest Red Gum	365		365	22.0	9.0 4.4	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
309 E	Eucalyptus siderophloia	Grey Ironbark	230		230	16.0	7.0 2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
310	Acacia disparrima	Hickory Wattle	170		170	7.0	5.0 2.0	1.6	One-sided	-	-	-	-	-	I	Typical	Minor	-	-	-	Typical	-	-	-	-	-	-	
311 (Corymbia citriodora	Spotted Gum	230		230	17.0	6.0 2.8	1.8	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
312 <i>I</i>	Eucalyptus tereticornis	Forest Red Gum	640		640	26.0	11.0 7.7	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
313 <i>I</i>	Eucalyptus tereticornis	Forest Red Gum	160		160	10.0	3.0 2.0	1.5	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
314 (Corymbia citriodora	Spotted Gum	200		200	13.0	5.0 2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	_	-	-	-	
315 <i>I</i>	Eucalyptus tereticornis	Forest Red Gum	270		270	12.0	5.0 3.2	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	_	-	-	-	
316 <i>I</i>	Eucalyptus tereticornis	Forest Red Gum	200		200	14.0	5.0 2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
317 <i>I</i>	Eucalyptus tereticornis	Forest Red Gum	490		490	17.0	7.0 5.9	2.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
318 <i>I</i>	Eucalyptus siderophloia	Grey Ironbark	140		140	8.0	3.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
319	Alphitonia excelsa	Soap Tree	150		150	7.0	5.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
320 <i>I</i>	Eucalyptus siderophloia	Grey Ironbark	265		265	16.0	7.0 3.2	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-		

		Specimen Det	ails										Canopy Co	ondition [Details	I			Trunk	Condition D	Details		Fa	una D	etails	and H	labitat Va	alue	
Tree ID	Botanical Name	Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m)	Spread (m)	Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
321 /	Acacia disparrima	Hickory Wattle	190		190	9.0	6.0	2.3	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	<u> </u>
322 /	Acacia disparrima	Hickory Wattle	185	175	255	7.0	5.0	3.1	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
323	Eucalyptus tereticornis	Forest Red Gum	480		480	21.0	9.0	5.8	2.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	<u> </u>
324 /	Angophora leiocarpa	Smooth Bark Apple	160		160	12.0	5.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
325 /	Angophora leiocarpa	Smooth Bark Apple	100		100	7.0	3.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
326 /	Angophora leiocarpa	Smooth Bark Apple	500		500	24.0	12.0	6.0	2.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
327 /	Alphitonia excelsa	Soap Tree	155		155	9.0	4.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
328 /	Alphitonia excelsa	Soap Tree	130		130	7.0	4.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
329 (Corymbia tessellaris	Moreton Bay Ash	225		225	17.0	8.0	2.7	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
330 (Corymbia citriodora	Spotted Gum	620		620	24.0	14.0	7.4	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
331 (Corymbia citriodora	Spotted Gum	125		125	12.0	3.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
332 /	Acacia disparrima	Hickory Wattle	90	90, 80	150	4.0	3.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
333 I	Eucalyptus tereticornis	Forest Red Gum	275		275	16.0	6.0	3.3	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
334 (Corymbia citriodora	Spotted Gum	125		125	9.0	1.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
335 (Corymbia citriodora	Spotted Gum	120		120	11.0	2.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
336 (Corymbia citriodora	Spotted Gum	220		220	15.0	4.0	2.6	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
337 [Eucalyptus tereticornis	Forest Red Gum	125		125	9.0	1.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
338 /	Angophora leiocarpa	Smooth Bark Apple	150		150	10.0	3.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
339 /	Angophora leiocarpa	Smooth Bark Apple	160		160	10.0	2.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	I
340 (Corymbia citriodora	Spotted Gum	110		110	10.0	1.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	I
341 /	Acacia disparrima	Hickory Wattle	160		160	9.0	5.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
342 (Corymbia citriodora	Spotted Gum	270		270	18.0	5.0	3.2	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
343 /	Acacia disparrima	Hickory Wattle	150	70	166	7.0	5.0	2.0	1.6	Regular	-	-	Thinning	Die-back	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
344 (Corymbia citriodora	Spotted Gum	210		210	13.0	3.0	2.5	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
345 /	Angophora leiocarpa	Smooth Bark Apple	130		130	9.0	2.0	2.0	1.4	Regular	-	-	Thinning	Die-back	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
346 [Eucalyptus siderophloia	Grey Ironbark	130		130	9.0	2.0	2.0	1.4	Regular	-	-	-	-	-	-		-	-	-	-		-	-		-	-	-	
3477	Acacia disparrima	Hickory Wattle	200	120	200	9.0	5.0	2.4	1./	Regular	-	-	-	-	-	-	Typical	-	-	-	-		-	-		-	-	-	
348	Corymbia citriodora	Spotted Gum	350	120	3/0	18.0	8.0	4.4	2.2	Regular	-	-	-	-	-	-		-	-	-	-		-	-		-	-	-	
349	Eucalyptus tereticornis	Forest Red Gum	565		565	22.0	10.0	6.8	2.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		↓	-	-	-	
350 /	Acacia disparrima	Hickory Wattle	160		160	7.0	4.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	┣-	<u> </u>	-	-	-	
351	Aipnitonia excelsa	Soap Tree	120		120	8.0	4.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>		-	-	-	
352 (Corymbia citriodora	Spotted Gum	265		265	18.0	/.0	3.2	1.9	Une-sided	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>		-	-	-	
353 (Lorymbia citrioaora		230		230	17.0	8.0	2.8	1.8	Regular	-	-	-	-	-	-	i ypical	-	-	-	-	турісаі	-	<u>-</u>	┝╌┥	-	-	-	
354 l	cucaryptus crebra	Hiskony Wattle	020		020	20.0	14.0	7.4	2./ 1.c	Regular	-	-	-	-	-	-	Typical	-	-	-	-	i ypical	-	<u> </u>	┣┨	-	-	-	
255/	Fue aluntus torotias mile		170		105	7.U	0.0	∠.∪ 2.0	1.0	Regular	-	-	-	-	-	-		- \\ \ !:= - :	-	-	-	Typical	-	<u> </u>	<u> </u> −-	-	-	-	
356 l	Eucalyptus tereticornis	Forest Red Gum	170		170	11.0	5.0	2.0	1.6	кеgular	-	-	-	-	-	-	i ypical	winor	-	-	-	i ypical	-	<u> </u>	<u> </u>	-	-	-	L

	Specimen Det	ails									(Canopy C	ondition [Details				Trunk	Condition D	Oetails		Fau	ina D	etails	and H	abitat Va	lue	
Botanical Name	Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m)	Spread (m)	Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Pobbeq	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
357 Eucalyptus tereticornis	Forest Red Gum	105		105	9.0	2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
358 Corymbia citriodora	Spotted Gum	120		120	13.0	3.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
359 Eucalyptus crebra	Narrow Leaf Ironbark	400		400	24.0	8.0	4.8	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	_	-	-	-	-	
360 Eucalyptus tereticornis	Forest Red Gum	650		650	25.0	14.0	7.8	2.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
361 Eucalyptus siderophloia	Grey Ironbark	130		130	8.0	2.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
362 Corymbia tessellaris	Moreton Bay Ash	170		170	11.0	5.0	2.0	1.6	One-sided	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
363 Acacia disparrima	Hickory Wattle	125	50, 60	147	5.0	5.0	2.0	1.5	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
364 Corymbia tessellaris	Moreton Bay Ash	150		150	7.0	3.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
365 Corymbia tessellaris	Moreton Bay Ash	100		100	6.0	1.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
366 Eucalyptus tereticornis	Forest Red Gum	220		220	8.0	2.0	2.6	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	
367 Acacia leiocalyx	Early Flowering Black Wattle	220		220	8.0	4.0	2.6	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
368 Alphitonia excelsa	Soap Tree	155		155	7.0	3.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[- []]	-	-	-	-	
369 Corymbia tessellaris	Moreton Bay Ash	160		160	7.0	3.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-	
370 Eucalyptus tereticornis	Forest Red Gum	140		140	7.0	3.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	
371 Eucalyptus tereticornis	Forest Red Gum	210		210	9.0	5.0	2.5	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[- [†]	-	-	-	-	
372 Corymbia tessellaris	Moreton Bay Ash	165		165	8.0	5.0	2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	
373 Eucalyptus tereticornis	Forest Red Gum	265		265	12.0	6.0	3.2	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	
374 Corymbia tessellaris	Moreton Bay Ash	100		100	8.0	3.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
375 Corymbia tessellaris	Moreton Bay Ash	125		125	10.0	4.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
376 Eucalyptus tereticornis	Forest Red Gum	300		300	12.0	6.0	3.6	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
377 Eucalyptus tereticornis	Forest Red Gum	180		180	7.0	4.0	2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	- 1	-	-	-	-	
378 Corymbia tessellaris	Moreton Bay Ash	170		170	8.0	3.0	2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
379 Corymbia tessellaris	Moreton Bay Ash	130		130	6.0	2.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-	-	-	-	-	
380 Corymbia tessellaris	Moreton Bay Ash	105		105	7.0	1.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
381 Corymbia tessellaris	Moreton Bay Ash	170		170	8.0	3.0	2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
382 Eucalyptus moluccana	Gum Topped Box	420	220	474	16.0	9.0	5.7	2.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
383 Corymbia citriodora	Spotted Gum	215		215	13.0	5.0	2.6	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
384 Corymbia citriodora	Spotted Gum	465		465	18.0	9.0	5.6	2.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
385 Corymbia intermedia	Pink Bloodwood	510		510	18.0	8.0	6.1	2.5	Regular	-	-	Thinning	Die-back	-	-	Poor	-	-	Trunk Dmg.	-	Poor	-	-	-	-	-	-	
386 Corymbia citriodora	Spotted Gum	300		300	14.0	8.0	3.6	2.0	Regular	-	-	-	-	-	-	Typical	Minor	-	-	-	Typical	-	-	-	-	-	-	
387 Eucalyptus tereticornis	Forest Red Gum	710		710	26.0	14.0	8.5	2.9	Regular	-	-	-	Die-back	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
388 Corymbia intermedia	Pink Bloodwood	220		220	11.0	5.0	2.6	1.8	One-sided	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
389 Eucalyptus tereticornis	Forest Red Gum	460	170, 140	510	17.0	7.0	6.1	2.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
390 Corymbia tessellaris	Moreton Bay Ash	320		320	18.0	7.0	3.8	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
391 Corymbia tessellaris	Moreton Bay Ash	265		265	17.0	7.0	3.2	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
392 Acacia disparrima	Hickory Wattle	300	190, 180, 180	437	12.0	8.0	5.2	2.3	Regular	-	-	-	Die-back	-	-	Poor	-	-	-	-	Typical	-	-	-	-	-	-	

		Specimen Det	tails									(Canopy C	Condition I	Details	•			Trunk	Condition D	Details		Fau	ina D	etails	and H	abitat Va	lue	
Tree ID	Botanical Name	Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m)	Spread (m)	Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
393 (Corymbia intermedia	Pink Bloodwood	165		165	10.0	4.0	2.0	1.6	Regular	-	-	-	Die-back	-	-	Poor	-	-	-	-	Typical	-	-	-	-	-	-	I
394 F	Petalostigma pubescens	Quinine Bush	450		450	10.0	8.0	5.4	2.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	- '	-	-	-	-	
395 A	Alphitonia excelsa	Soap Tree	185		185	7.0	5.0	2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	- '	-	-	-	-	L
396 E	Eucalyptus tereticornis	Forest Red Gum	430		430	18.0	7.0	5.2	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	<u> </u>
397 /	Alphitonia excelsa	Soap Tree	165	150	223	7.0	4.0	2.7	1.8	Regular	-	-	-	Die-back	-	-	Poor	-	-	Trunk Dmg.	-	Poor	-	-	-	-	-	-	
398 <i>/</i>	Alphitonia excelsa	Soap Tree	300		300	17.0	6.0	3.6	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
399 E	Eucalyptus tereticornis	Forest Red Gum	330		330	18.0	8.0	4.0	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	- '	-	-	-	-	
400 A	Acacia disparrima	Hickory Wattle	340	320	467	9.0	12.0	5.6	2.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	- '	-	-	-	-	
401 A	Acacia disparrima	Hickory Wattle	265		265	8.0	6.0	3.2	1.9	Regular	-	-	-	-	-	-	Typical	Minor	-	-	-	Typical	-	- '	-	-	-	-	<u> </u>
402 A	Alphitonia excelsa	Soap Tree	160		160	10.0	5.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	L
403 A	Acacia disparrima	Hickory Wattle	170		170	8.0	6.0	2.0	1.6	One-sided	-	-	-	-	-	-	Typical	Minor	-	-	-	Typical	-	- '	-	-	-	-	
404 E	Eucalyptus tereticornis	Forest Red Gum	230		230	16.0	5.0	2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
405 A	Alphitonia excelsa	Soap Tree	160		160	7.0	3.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	1
406 <i>/</i>	Acacia disparrima	Hickory Wattle	175		175	8.0	4.0	2.1	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	1
407 <i>/</i>	Acacia disparrima	Hickory Wattle	130		130	5.0	4.0	2.0	1.4	One-sided	-	-	-	-	-	-	Typical	Minor	-	-	-	Typical	-	-	-	-	-	-	1
408 A	Alphitonia excelsa	Soap Tree	290		290	11.0	7.0	3.5	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
409 A	Acacia disparrima	Hickory Wattle	260		260	7.0	5.0	3.1	1.9	Regular	-	-	-	-	-	-	Typical	Minor	-	-	-	Typical	-	-	-	-	-	-	
410 A	Acacia disparrima	Hickory Wattle	155		155	8.0	4.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
411 A	Acacia disparrima	Hickory Wattle	230	155	277	9.0	7.0	3.3	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
412 A	Acacia disparrima	Hickory Wattle	125		125	7.0	4.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
413 A	Acacia disparrima	Hickory Wattle	260		260	10.0	6.0	3.1	1.9	One-sided	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
414 <i>A</i>	Acacia disparrima	Hickory Wattle	120		120	7.0	4.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
415 C	Corymbia tessellaris	Moreton Bay Ash	210		210	16.0	5.0	2.5	1.7	Regular	-	-	Thinning	g -	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
416 <i>A</i>	Angophora subvelutina	Broad-leaved Apple	260		260	13.0	6.0	3.1	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
417 <i>A</i>	Alphitonia excelsa	Soap Tree	165	100, 100	217	7.0	7.0	2.6	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
418 A	Angophora subvelutina	Broad-leaved Apple	260		260	10.0	14.0	3.1	1.9	Regular	-	-	-	-	-	-	Typical	Major	-	-	-	Typical	-	-	-	-	-	-	
419 A	Angophora subvelutina	Broad-leaved Apple	260		260	16.0	6.0	3.1	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	1
420 A	Acacia fimbriata	Fringed Wattle	140	100, 80	190	6.0	6.0	2.3	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
421 <i>A</i>	Angophora subvelutina	Broad-leaved Apple	460		460	18.0	9.0	5.5	2.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
422 E	ucalyptus siderophloia	Grey Ironbark	530		530	23.0	8.0	6.4	2.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
423 E	Eucalyptus tereticornis	Forest Red Gum	620		620	18.0	10.0	7.4	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		Small	-	<u> </u>	
424 (Corymbia citriodora	Spotted Gum	610		610	23.0	14.0	7.3	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	<u> </u>	
425 (Corymbia tessellaris	Moreton Bay Ash	230	200, 160	344	14.0	7.0	4.1	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
426 E	Eucalyptus tereticornis	Forest Red Gum	230		230	12.0	5.0	2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	<u> </u>	
427 (Corymbia intermedia	Pink Bloodwood	660		660	26.0	11.0	7.9	2.8	Regular	-	-	Thinning	g Die-back	-	-	Poor	-	-	-	-	Typical	-	-	-	Small	-	-	
428 (Corymbia intermedia	Pink Bloodwood	270	270	382	13.0	7.0	4.6	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	

		Specimen Det	ails								(Canopy C	ondition [Details	•			Trunk	Condition D	Details		Fau	ina D	etails	and H	abitat Va	lue	
Tree ID	Botanical Name	Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m)	Joreau (III) Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
429	Eucalyptus siderophloia	Grey Ironbark	330		330	12.0 7	.0 4.0	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-			-	-	-	
430	Eucalyptus siderophloia	Grey Ironbark	230	130	264	12.0 6	.0 3.2	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-			-	-	-	
431	Eucalyptus siderophloia	Grey Ironbark	150		150	9.0 4	.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
432	Eucalyptus siderophloia	Grey Ironbark	220		220	13.0 5	.0 2.6	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
433	Acacia disparrima	Hickory Wattle	120		120	7.0 4	.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
434	Eucalyptus siderophloia	Grey Ironbark	145		145	11.0 4	.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
435	Eucalyptus tereticornis	Forest Red Gum	270		270	13.0 6	.0 3.2	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
436	Eucalyptus siderophloia	Grey Ironbark	195		195	11.0 5	.0 2.3	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
437	Corymbia citriodora	Spotted Gum	120		120	9.0 2	.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	<u> </u>		-	-	-	-	
438	Acacia disparrima	Hickory Wattle	265	200, 190, 210	436	7.0 8	.0 5.2	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	<u> </u>			-	-	-	
439	Acacia disparrima	Hickory Wattle	260	260, 220	428	11.0 8	.0 5.1	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
440	Eucalyptus tereticornis	Forest Red Gum	215		215	13.0 5	.0 2.6	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-			-	-	-	
441	Eucalyptus tereticornis	Forest Red Gum	285		285	14.0 6	.0 3.4	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
442	Acacia disparrima	Hickory Wattle	210	160, 120	290	8.0 7	.0 3.5	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
443	Eucalyptus siderophloia	Grey Ironbark	370		370	10.0 7	.0 4.4	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
444	Eucalyptus siderophloia	Grey Ironbark	430		430	12.0 8	.0 5.2	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
445	Eucalyptus tereticornis	Forest Red Gum	310		310	12.0 6	.0 3.7	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
446	Eucalyptus tereticornis	Forest Red Gum	225		225	11.0 5	.0 2.7	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
447	Eucalyptus tereticornis	Forest Red Gum	185		185	9.0 4	.0 2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	Trunk Dmg.	Fire Dmg.	. Typical	-	-	-	-	-	-	
448	Eucalyptus siderophloia	Grey Ironbark	270	270	382	13.0 7	.0 4.6	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
449	Eucalyptus tereticornis	Forest Red Gum	320	300	439	15.0 9	.0 5.3	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
450	Eucalyptus crebra	Narrow Leaf Ironbark	220		220	13.0 6	.0 2.6	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
451	Eucalyptus crebra	Narrow Leaf Ironbark	100		100	8.0 1	.0 2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
452	Eucalyptus tereticornis	Forest Red Gum	320		320	17.0 7	.0 3.8	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
453	Eucalyptus tereticornis	Forest Red Gum	320	130	345	16.0 7	.0 4.1	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
454	Eucalyptus crebra	Narrow Leaf Ironbark	165		165	11.0 4	.0 2.0	1.6	Regular	-	I	-	-	I	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
455	Eucalyptus crebra	Narrow Leaf Ironbark	140		140	11.0 2	.0 2.0	1.4	Regular	-	-	Thinning	Die-back	-	-	Poor	-	-	-	-	Typical	-	-	-	-	-	-	
456	Eucalyptus tereticornis	Forest Red Gum	300		300	16.0 6	.0 3.6	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
457	Eucalyptus crebra	Narrow Leaf Ironbark	165	160, 140	269	13.0 5	.0 3.2	1.9	Regular	-	-	-	-	I	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
458	Eucalyptus crebra	Narrow Leaf Ironbark	265		265	15.0 6	.0 3.2	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
459	Eucalyptus tereticornis	Forest Red Gum	120		120	9.0 1	.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	_	-	-	-	
460	Eucalyptus tereticornis	Forest Red Gum	260		260	11.0 6	.0 3.1	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	_	-	-	-	
461	Eucalyptus tereticornis	Forest Red Gum	150		150	9.0 4	.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-]	-	-	-	
462	Eucalyptus crebra	Narrow Leaf Ironbark	280		280	12.0 8	.0 3.4	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical		-	_	-	-	-	
463	Corymbia citriodora	Spotted Gum	145		145	12.0 3	.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	[-	-	-	
464	Eucalyptus crebra	Narrow Leaf Ironbark	145	125	191	7.0 3	.0 2.3	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	- 1	[-	-	-	

	Specimen Det	tails								(Canopy C	ondition l	Details		-		Trunk	Condition D	Details		Fau	ina D	etails	and H	abitat Va	lue	
Botanical Name	Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m)	Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
465 Corymbia citriodora	Spotted Gum	110		110	9.0 3	.0 2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
466 Corymbia citriodora	Spotted Gum	195		195	11.0 4	.0 2.3	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
467 Corymbia citriodora	Spotted Gum	155		155	13.0 4	.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
468 Corymbia citriodora	Spotted Gum	150		150	11.0 3	.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
469 Corymbia citriodora	Spotted Gum	140		140	11.0 3	.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
470 Corymbia citriodora	Spotted Gum	165		165	15.0 4	.0 2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
471 Corymbia citriodora	Spotted Gum	270		270	15.0 5	.0 3.2	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-			-	-	-	
472 Corymbia citriodora	Spotted Gum	200		200	11.0 3	.0 2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
473 Eucalyptus tereticornis	Forest Red Gum	135		135	9.0 2	.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
474 Eucalyptus moluccana	Gum Topped Box	580		580	16.0 10	0.0 7.0	2.6	Regular	-	-	-	-	-	-	Typical	Minor	-	-	-	Typical	-	-	-	-	-	-	
475 Eucalyptus tereticornis	Forest Red Gum	210		210	12.0 4	.0 2.5	1.7	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	_	-	-	-	
476 Eucalyptus crebra	Narrow Leaf Ironbark	215		215	13.0 5	.0 2.6	1.7	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
477 Eucalyptus crebra	Narrow Leaf Ironbark	230		230	14.0 6	.0 2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
478 Eucalyptus crebra	Narrow Leaf Ironbark	300		300	13.0 6	.0 3.6	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
479 Corymbia intermedia	Pink Bloodwood	270		270	12.0 5	.0 3.2	1.9	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
480 Corymbia intermedia	Pink Bloodwood	220	190	291	10.0 6	0 3.5	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
481 Eucalyptus tereticornis	Forest Red Gum	165		165	10.0 3	.0 2.0	1.6	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
482 Eucalyptus crebra	Narrow Leaf Ironbark	330	300	446	13.0 8	0 5.4	2.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
483 Eucalyptus crebra	Narrow Leaf Ironbark	260		260	12.0 5	.0 3.1	1.9	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
484 Eucalyptus tereticornis	Forest Red Gum	230		230	11.0 3	.0 2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
485 Eucalyptus tereticornis	Forest Red Gum	285		285	12.0 5	.0 3.4	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-	
486 Corymbia intermedia	Pink Bloodwood	310	285	421	12.0 7	0 5.1	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-	
487 Corymbia citriodora	Spotted Gum	540		540	16.0 8	.0 6.5	2.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-	
488 Corymbia intermedia	Pink Bloodwood	270	180, 160	362	10.0 7	.0 4.3	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
489 Corymbia intermedia	Pink Bloodwood	280	165, 160	362	12.0 6	.0 4.3	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-	
490 Eucalyptus tereticornis	Forest Red Gum	250		250	13.0 6	.0 3.0	1.8	Regular	-	-	-	-	-	-	Typical	-	Native	-	-	Typical	-	-	-	-	-	-	
491 Eucalyptus tereticornis	Forest Red Gum	280	210	350	11.0 6	.0 4.2	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-	
492 Eucalyptus tereticornis	Forest Red Gum	300	270	404	12.0 7	.0 4.8	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-	
493 Eucalyptus tereticornis	Forest Red Gum	330		330	13.0 6	.0 4.0	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
494 Eucalyptus tereticornis	Forest Red Gum	300		300	14.0 4	0 3.6	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	- 1	-	-	-	-	
495 Eucalyptus tereticornis	Forest Red Gum	410		410	15.0 7	0 4.9	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
496 Eucalyptus tereticornis	Forest Red Gum	310		310	13.0 6	.0 3.7	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	- 1	-	-	-	-	
497 Eucalyptus tereticornis	Forest Red Gum	300		300	15.0 7	0 3.6	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
498 Eucalyptus tereticornis	Forest Red Gum	480		480	15.0 7	0 5.8	2.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	_	
499 Eucalyptus tereticornis	Forest Red Gum	250		250	13.0 5	0 3.0	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
500 Eucalyptus tereticornis	Forest Red Gum	440		440	16.0 8	0 5.3	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	

	Specimen De	tails								(Canopy C	ondition l	Details		-		Trunk	Condition D	Details		Fau	ina D	etails	and H	abitat Va	lue	
Botanical I	Name Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m) Spread (m)	Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
501 Eucalyptus teretic	ornis Forest Red Gum	270		270	14.0 5.0	3.2	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
502 Acacia disparrima	Hickory Wattle	140	60	152	6.0 5.0	2.0	1.5	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	_	-	-	-	
503 Corymbia tessella	ris Moreton Bay Ash	250		250	14.0 6.0	3.0	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	_		-	-	-	
504 Eucalyptus teretic	ornis Forest Red Gum	660		660	27.0 8.0	7.9	2.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
505 Eucalyptus teretic	ornis Forest Red Gum	940		940	32.0 14.0	11.3	3.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
506 Eucalyptus teretic	ornis Forest Red Gum	620		620	24.0 8.0	7.4	2.7	Regular	-	-	Thinning	Die-back	-	-	Poor	-	-	-	-	Typical	-	-	-	-	-	-	
507 Eucalyptus teretic	ornis Forest Red Gum	420		420	17.0 8.0	5.0	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
508 Eucalyptus teretic	ornis Forest Red Gum	320		320	17.0 7.0	3.8	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
509 Eucalyptus teretic	ornis Forest Red Gum	940		940	32.0 14.0	11.3	3.2	Regular	-	-	-	Die-back	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
510 Eucalyptus teretic	ornis Forest Red Gum	1060		1060	33.0 16.0	12.7	3.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
511 Eucalyptus teretic	ornis Forest Red Gum	790		790	20.0 11.0	9.5	3.0	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	_	-	-	-	
512 Eucalyptus teretic	ornis Forest Red Gum	420		420	25.0 11.0	5.0	2.3	Regular	-	-	I	-	-	I	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
513 Lophostemon sug	veolens Swamp Box	270		270	11.0 5.0	3.2	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
514 Eucalyptus teretic	ornis Forest Red Gum	660		660	27.0 11.0	7.9	2.8	Regular	-	-	-	Die-back	-	-	Typical	-	-	Trunk Dmg.	-	Typical	-	-	-	-	-	-	
515 Eucalyptus teretic	ornis Forest Red Gum	320		320	17.0 7.0	3.8	2.1	Regular	-	-	I	-	-	I	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
516 Lophostemon sud	veolens Swamp Box	220		220	9.0 5.0	2.6	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
517 Eucalyptus teretic	ornis Forest Red Gum	260		260	11.0 5.0	3.1	1.9	Regular	-	-	I	-	-	I	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
518 Eucalyptus teretic	ornis Forest Red Gum	340		340	13.0 6.0	4.1	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
519 Eucalyptus teretic	ornis Forest Red Gum	285		285	15.0 5.0	3.4	2.0	Regular	-	-	I	-	-	I	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
520 Eucalyptus teretic	ornis Forest Red Gum	310		310	18.0 7.0	3.7	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	
521 Acacia fimbriata	Fringed Wattle	100		100	5.0 4.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
522 Eucalyptus teretic	ornis Forest Red Gum	185		185	15.0 4.0	2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-	
523 Eucalyptus teretic	ornis Forest Red Gum	220		220	16.0 6.0	2.6	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-	
524 Eucalyptus teretic	ornis Forest Red Gum	240		240	14.0 5.0	2.9	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[- []]	-	-	-	-	
525 Eucalyptus teretic	ornis Forest Red Gum	350		350	17.0 7.0	4.2	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-	
526 Eucalyptus teretic	ornis Forest Red Gum	390		390	19.0 8.0	4.7	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[- []]	-	-	-	-	
527 Acacia leiocalyx	Early Flowering Black Wattle	240		240	10.0 6.0	2.9	1.8	Regular	-	-	-	-	-	-	Typical	Minor	-	-	-	Typical	-	[- [†]	-	-	-	-	
528 Angophora subve	lutina Broad-leaved Apple	160		160	10.0 4.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
529 Corymbia tessella	ris Moreton Bay Ash	165		165	14.0 4.0	2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	
530 Alphitonia excelse	a Soap Tree	165		165	9.0 4.0	2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-		
531 Corymbia interme	edia Pink Bloodwood	140	100	172	11.0 4.0	2.1	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
532 Corymbia interme	edia Pink Bloodwood	145		145	10.0 3.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	_	-	-	[
533 Corymbia interme	edia Pink Bloodwood	130		130	10.0 3.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
534 Acacia fimbriata	Fringed Wattle	150		150	7.0 5.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	_	-	-	[
535 Acacia fimbriata	Fringed Wattle	165		165	7.0 6.0	2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
536 Acacia leiocalyx	Early Flowering Black Wattle	165		165	9.0 4.0	2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-		

	Specimen Details										C	Canopy C	ondition [Details		-		Trunk	Condition D	Details		Fau	ina D	etails	and H	<mark>abitat Va</mark>	lue	
Tree ID	Botanical Name	Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m)	Spread (m) Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
537 Alpl	hitonia excelsa	Soap Tree	170		170	10.0 3	.0 2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
538 Euc	alyptus tereticornis	Forest Red Gum	260		260	17.0 4	.0 3.1	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
539 Euc	alyptus tereticornis	Forest Red Gum	240	280	369	13.0 3	.0 4.4	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
540 Lop	hostemon suaveolens	Swamp Box	290		290	12.0 3	.0 3.5	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
541 Aca	icia disparrima	Hickory Wattle	300		300	11.0 4	.0 3.6	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
542 Euc	alyptus tereticornis	Forest Red Gum	270		270	15.0 3	.0 3.2	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
543 Euc	alyptus crebra	Narrow Leaf Ironbark	200		200	14.0 3	.0 2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-			-	-	-	
544 Lop	hostemon suaveolens	Swamp Box	130		130	10.0 2	.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
545 Lop	hostemon suaveolens	Swamp Box	280		280	14.0 5	.0 3.4	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
546 Lop	hostemon suaveolens	Swamp Box	170		170	13.0 3	.0 2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
547 Euc	alyptus tereticornis	Forest Red Gum	550		550	25.0 10	0.0 6.6	2.6	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	_	-	-	-	
548 Lop	hostemon suaveolens	Swamp Box	220		220	15.0 3	.0 2.6	1.8	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
549 Lop	hostemon suaveolens	Swamp Box	170		170	9.0 3	.0 2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
550 Aca	icia disparrima	Hickory Wattle	120		120	9.0 3	.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
551 Lop	hostemon suaveolens	Swamp Box	160		160	11.0 3	.0 2.0	1.5	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
552 Alpl	hitonia excelsa	Soap Tree	160		160	14.0 3	.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
553 Lop	hostemon suaveolens	Swamp Box	210		210	14.0 3	.0 2.5	1.7	One-sided	-	-	-	-	-	I	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
554 Cor	ymbia intermedia	Pink Bloodwood	250	270	368	17.0 6	.0 4.4	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
555 Aca	icia disparrima	Hickory Wattle	240	190, 220	377	14.0 6	.0 4.5	2.2	Regular	-	-	-	Die-back	-	I	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
556 Aca	icia disparrima	Hickory Wattle	180	110	211	12.0 4	.0 2.5	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[- []]	-	-	-	-	
557 Aca	icia disparrima	Hickory Wattle	350	170	389	14.0 6	.0 4.7	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
558 Cor	ymbia intermedia	Pink Bloodwood	230		230	13.0 4	.0 2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[- []]	-	-	-	-	
559 Aca	icia disparrima	Hickory Wattle	220		220	10.0 3	.0 2.6	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
560 Aca	icia disparrima	Hickory Wattle	200		200	8.0 3	.0 2.4	1.7	One-sided	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
561 Aca	icia disparrima	Hickory Wattle	190	180	262	12.0 4	.0 3.1	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
562 Aca	icia disparrima	Hickory Wattle	140		140	10.0 2	.0 2.0	1.4	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
563 Aca	icia disparrima	Hickory Wattle	130	120	177	8.0 2	.0 2.1	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	
564 Aca	icia disparrima	Hickory Wattle	180	210	277	11.0 4	.0 3.3	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
565 Aca	icia disparrima	Hickory Wattle	160		160	8.0 2	.0 2.0	1.5	One-sided	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	
566 Aca	icia disparrima	Hickory Wattle	170	110	202	10.0 2	.0 2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-		-	
567 Aca	icia disparrima	Hickory Wattle	180		180	8.0 2	.0 2.2	1.6	Regular	-	-	Thinning	Die-back	-	-	Poor	-	-	-	-	Typical	-	-	_	-	-	[
568 Aca	icia disparrima	Hickory Wattle	160		160	9.0 2	.0 2.0	1.5	Regular	-	-	Thinning	Die-back	-	-	Poor	-	-	-	-	Typical	-	-	-	-	-	- 1	
569 Cor	ymbia tessellaris	Moreton Bay Ash	230		230	17.0 4	.0 2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	- 1	
570 Aca	ıcia disparrima	Hickory Wattle	170		170	6.0 2	.0 2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
571 Cor	ymbia intermedia	Pink Bloodwood	290		290	18.0 4	.0 3.5	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	- 1	
572 Lop	hostemon suaveolens	Swamp Box	260		260	18.0 4	.0 3.1	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	

	-					Canopy Condition Details							Trunk Condition Details						Fauna Details and Habitat Value									
Botanical Name	Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m)	Spread (m)	Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
573 Corymbia intermedia	Pink Bloodwood	140		140	12.0	2.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	1
574 Eucalyptus tereticornis	Forest Red Gum	390		390	22.0	8.0	4.7	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
575 Corymbia intermedia	Pink Bloodwood	300		300	21.0	4.0	3.6	2.0	Regular	-	-	-	-	-	Lopped	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
576 Corymbia intermedia	Pink Bloodwood	310		310	21.0	5.0	3.7	2.0	One-sided	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
577 Corymbia intermedia	Pink Bloodwood	150		150	10.0	2.0	2.0	1.5	One-sided	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
578 Eucalyptus tereticornis	Forest Red Gum	510		510	23.0	13.0	6.1	2.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
579 Eucalyptus tereticornis	Forest Red Gum	130		130	6.0	2.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
580 Acacia disparrima	Hickory Wattle	130	90	158	6.0	2.0	2.0	1.5	Regular	-	-	Thinning	Die-back	-	Lopped	Poor	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
581 Corymbia intermedia	Pink Bloodwood	210		210	4.0	2.0	2.5	1.7	Regular	-	-	Thinning	-	Epicormic	Lopped	Poor	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
582 Eucalyptus tereticornis	Forest Red Gum	500		500	23.0	9.0	6.0	2.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
583 Acacia disparrima	Hickory Wattle	190		190	5.0	2.0	2.3	1.6	Regular	-	-	Thinning	Die-back	-	Lopped	Poor	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
584 Acacia disparrima	Hickory Wattle	150		150	3.0	2.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-]	-	-	-	-	
585 Acacia disparrima	Hickory Wattle	120	120	170	3.0	3.0	2.0	1.6	One-sided	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
586 Eucalyptus tereticornis	Forest Red Gum	610		610	24.0	12.0	7.3	2.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-]	-	-	-	-	
587 Eucalyptus tereticornis	Forest Red Gum	540		540	26.0	14.0	6.5	2.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-]	-	-	-	-	
588 Eucalyptus crebra	Narrow Leaf Ironbark	450		450	23.0	10.0	5.4	2.4	Regular	-	-	-	Die-back	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
589 Angophora woodsiana	Rough Barked Apple	300		300	16.0	5.0	3.6	2.0	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-]	-	-	-	-	
590 Angophora woodsiana	Rough Barked Apple	220		220	15.0	4.0	2.6	1.8	One-sided	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
591 Acacia concurrens	Black Wattle	190		190	8.0	3.0	2.3	1.6	Regular	-	-	Thinning	Die-back	-	-	Poor	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
592 Alphitonia excelsa	Soap Tree	150		150	12.0	3.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
593 Alphitonia excelsa	Soap Tree	150		150	10.0	3.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
594 Alphitonia excelsa	Soap Tree	140		140	16.0	3.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
595 Corymbia tessellaris	Moreton Bay Ash	170		170	14.0	2.0	2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
596 Corymbia tessellaris	Moreton Bay Ash	150		150	15.0	2.0	2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
597 Alphitonia excelsa	Soap Tree	110		110	9.0	2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
598 Eucalyptus tereticornis	Forest Red Gum	400		400	22.0	7.0	4.8	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
599 Alphitonia excelsa	Soap Tree	110		110	9.0	2.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
600 Alphitonia excelsa	Soap Tree	130		130	16.0	3.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
601 Acacia leiocalyx	Early Flowering Black Wattle	210		210	12.0	3.0	2.5	1.7	One-sided	-	-	Thinning	Die-back	-	-	Poor	-	-	-	-	Typical	-		-	-	-	-	
602 Acacia fimbriata	Fringed Wattle	130		130	10.0	3.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-		-	
603 Acacia fimbriata	Fringed Wattle	110		110	9.0	2.0	2.0	1.3	One-sided	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
604 Acacia leiocalyx	Early Flowering Black Wattle	130		130	10.0	2.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-]	[
605 Acacia disparrima	Hickory Wattle	120		120	10.0	2.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-		-	
606 Corymbia tessellaris	Moreton Bay Ash	230		230	12.0	5.0	2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
607 Lophostemon suaveolens	Swamp Box	175		175	9.0	4.0	2.1	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	
608 Allocasuarina littoralis	Black She Oak	200		200	7.0	4.0	2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	

Specimen Details											Canopy C	ondition l	on Details				Trunk	Condition D	Details		Fau	ina D	etails	and H	abitat Va	alue	
D Botanical Name	Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m)	Spread (m) Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
609 Lophostemon suaveolens	Swamp Box	155	110, 120, 100	246	10.0	4.0 3.0	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
610 Acacia leiocalyx	Early Flowering Black Wattle	105		105	8.0	4.0 2.0	1.3	Regular	-	1	-	-	-	-	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
611 Angophora subvelutina	Broad-leaved Apple	220	130	256	10.0	4.0 3.1	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	'	-	-	-	-	
612 Corymbia tessellaris	Moreton Bay Ash	165	155, 110, 80, 80	276	12.0	5.0 3.3	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	'	-	-	-	-	
613 Alphitonia excelsa	Soap Tree	160		160	10.0	4.0 2.0	1.5	Regular	-	-	Thinning	Die-back	-	-	Poor	-	-	-	-	Typical	-	'	-	-	-	-	
614 Eucalyptus tereticornis	Forest Red Gum	265		265	17.0	6.0 3.2	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	'	-	-	-	-	
615 Eucalyptus tereticornis	Forest Red Gum	320		320	21.0	7.0 3.8	2.1	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	<u> </u>	-	-	-	-	
616 Eucalyptus tereticornis	Forest Red Gum	720		720	26.0	14.0 8.6	2.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-		-	-	-	-	I
617 Corymbia tessellaris	Moreton Bay Ash	200		200	13.0	5.0 2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	I
618 Eucalyptus tereticornis	Forest Red Gum	230		230	17.0	6.0 2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	1
619 Lophostemon suaveolens	Swamp Box	205		205	11.0	5.0 2.5	1.7	Regular	-	1	-	-	-	-	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
620 Eucalyptus tereticornis	Forest Red Gum	195		195	12.0	5.0 2.3	1.7	Regular	-	I	-	-	-	-	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
621 Acacia melanoxylon	Australian Blackwood	270	160	314	8.0	6.0 3.8	2.0	Regular	-	-	-	-	-	-	Typical	-	Introduced	-	-	Typical	-	-	-	-	-	-	
622 Alphitonia excelsa	Soap Tree	180		180	7.0	3.0 2.2	1.6	Regular	-	1	-	-	-	-	Typical	-	Introduced	-	-	Typical	-	-	-	-	-	-	1
623 DEAD/STAG		460		460	19.0	8.0 5.5	2.4	Regular	-	1	-	-	-	-	Typical	-	-	-	-	Typical	I	-	-	-	-	-	1
624 Alphitonia excelsa	Soap Tree	170		170	10.0	5.0 2.0	1.6	Regular	-	1	-	-	-	-	Typical	-	-	-	-	Typical	I	-	-	-	-	-	1
625 Alphitonia excelsa	Soap Tree	130		130	7.0	4.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	1
626 Alphitonia excelsa	Soap Tree	120		120	7.0	3.0 2.0	1.4	Regular	-	1	-	-	-	-	Typical	Minor	-	-	-	Typical	I	-	-	-	-	-	1
627 Acacia melanoxylon	Australian Blackwood	110		110	3.0	4.0 2.0	1.3	Regular	-	1	-	-	-	-	Typical	Major	-	-	-	Typical	I	-	-	-	-	-	1
628 Acacia disparrima	Hickory Wattle	185		185	5.0	5.0 2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	- '	-	-	-	-	
629 Casuarina cunninghamian	a River She Oak	260		260	13.0	5.0 3.1	1.9	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
630 Casuarina cunninghamian	a River She Oak	170		170	13.0	5.0 2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	- '	-	-	-	-	
631 Acacia melanoxylon	Australian Blackwood	230		230	7.0	6.0 2.8	1.8	Regular	-	-	-	-	-	-	Typical	Minor	-	-	-	Typical	-	- '	-	-	-	-	
632 Acacia melanoxylon	Australian Blackwood	190		190	4.0	7.0 2.3	1.6	Regular	-	-	-	-	-	-	Typical	Major	-	-	-	Typical	-	-	-	-	-	-	
633 Eucalyptus tereticornis	Forest Red Gum	230		230	13.0	4.0 2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
634 Eucalyptus tereticornis	Forest Red Gum	180		180	12.0	5.0 2.2	1.6	Regular	-	I	-	-	-	-	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
635 Acacia melanoxylon	Australian Blackwood	280		280	10.0	6.0 3.4	1.9	Regular	-	1	-	-	-	-	Typical	-	-	-	-	Typical	I	-	-	-	-	-	1
636 Acacia disparrima	Hickory Wattle	165		165	11.0	5.0 2.0	1.6	Regular	-	1	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
637 Acacia fimbriata	Fringed Wattle	130		130	7.0	4.0 2.0	1.4	Regular	-	1	-	-	-	-	Typical	Minor	-	-	-	Typical	I	-	-	-	-	-	
638 Corymbia tessellaris	Moreton Bay Ash	140		140	10.0	4.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
639 Corymbia intermedia	Pink Bloodwood	185	115	218	10.0	2.0 2.6	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
640 Corymbia torelliana	Moreton Bay Ash	110		110	7.0	4.0 2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-			-	-	-	
641 Acacia fimbriata	Fringed Wattle	100	90, 70	152	6.0	5.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	Minor	-	-	-	Typical	-	-	-	-	-	-	
642 Eucalyptus tereticornis	Forest Red Gum	200		200	13.0	5.0 2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-			-	-	-	
643 Corymbia tessellaris	Moreton Bay Ash	205		205	13.0	5.0 2.5	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
644 Corymbia tessellaris	Moreton Bay Ash	185		185	10.0	4.0 2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	

	Specimen Details										(Canopy Condition Details				Trunk Condition Details							etails	and H	<mark>abitat Va</mark>	lue		
Tree ID	Botanical Name	Common Name	Trunk DBH (mm)	Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m)	Spread (m) Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	Lopped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
645	Eucalyptus tereticornis	Forest Red Gum	170		170	13.0	4.0 2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
646	Acacia leiocalyx	Early Flowering Black Wattle	100		100	7.0	3.0 2.0	1.3	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	_	-	-	-	
647	Casuarina cunninghamiana	River She Oak	145		145	12.0	5.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	_		-	-	-	
648	Acacia disparrima	Hickory Wattle	150		150	9.0	4.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
649	Corymbia intermedia	Pink Bloodwood	170		170	12.0	5.0 2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-			-	-	-	
650	Eucalyptus tereticornis	Forest Red Gum	175		175	12.0	5.0 2.1	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
651	Corymbia torelliana	Moreton Bay Ash	180		180	8.0	5.0 2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
652	Lophostemon suaveolens	Swamp Box	170		170	11.0	4.0 2.0	1.6	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	I	-	-	-	-	-	
653	Acacia leiocalyx	Early Flowering Black Wattle	190		190	9.0	5.0 2.3	1.6	Regular	-	-	-	-	-	-	Typical	Minor	-	-	-	Typical	-	-	-	-	-	-	
654	Acacia fimbriata	Fringed Wattle	185		185	7.0	5.0 2.2	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	
655	Corymbia tessellaris	Moreton Bay Ash	240		240	14.0	6.0 2.9	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
656	Acacia fimbriata	Fringed Wattle	110		110	7.0	4.0 2.0	1.3	Regular	-	-	-	-	-	-	Typical	Minor	-	-	-	Typical	-	[- []]	-	-	-	-	
657	Acacia disparrima	Hickory Wattle	160	130	206	9.0	5.0 2.5	1.7	Regular	-	-	Thinning	Die-back	-	-	Poor	-	-	-	-	Typical	-	[_]	-	-	-	-	
658	Corymbia tessellaris	Moreton Bay Ash	140		140	9.0	3.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	
659	Corymbia tessellaris	Moreton Bay Ash	140		140	8.0	2.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	Minor	-	Trunk Dmg.	-	Poor	-	[- [†]	-	-	-	-	
660	Corymbia tessellaris	Moreton Bay Ash	100		100	9.0	1.0 2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[- [†]	-	-	-	-	
661	Alphitonia excelsa	Soap Tree	110		110	7.0	3.0 2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	
662	Corymbia tessellaris	Moreton Bay Ash	105		105	8.0	1.0 2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	Trunk Dmg.	-	Typical	-	[- [†]	-	-	-	-	
663	Alphitonia excelsa	Soap Tree	120		120	7.0	3.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[- [†]	-	-	-	-	
664	Acacia fimbriata	Fringed Wattle	125		125	7.0	3.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	
665	Corymbia torelliana	Moreton Bay Ash	130		130	8.0	4.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
666	Eucalyptus tereticornis	Forest Red Gum	220		220	14.0	6.0 2.6	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-	
667	Acacia disparrima	Hickory Wattle	170	100	197	9.0	5.0 2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
668	Alphitonia excelsa	Soap Tree	120	110	163	9.0	4.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-	
669	Corymbia tessellaris	Moreton Bay Ash	185	130	226	11.0	4.0 2.7	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[_]	-	-	-	-	
670	Corymbia intermedia	Pink Bloodwood	220	100	242	12.0	5.0 2.9	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[- []]	-	-	-	-	
671	Corymbia tessellaris	Moreton Bay Ash	135		135	11.0	2.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[- []]	-	-	-	-	
672	Corymbia tessellaris	Moreton Bay Ash	220		220	12.0	5.0 2.6	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
673	Acacia fimbriata	Fringed Wattle	100		100	7.0	5.0 2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	[-]	-	-	-	-	
674	Eucalyptus tereticornis	Forest Red Gum	120		120	8.0	1.0 2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-		-	
675	Grevillea robusta	Silky Oak	185	90	206	10.0	5.0 2.5	1.7	Regular	_	-	-	-	-	-	Typical	-	-	Trunk Dmg.	-	Typical	-		-	-	-	-	
676	Corymbia tessellaris	Moreton Bay Ash	165		165	10.0	2.0 2.0	1.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-	-	
677	Acacia leiocalyx	Early Flowering Black Wattle	125		125	7.0	5.0 2.0	1.4	One-sided	_	-	-	-	-	-	Typical	Minor	-	-	-	Typical	-	-	-	-	-	-	
678	Eucalyptus tereticornis	Forest Red Gum	230		230	15.0	6.0 2.8	1.8	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	_	-	-	[
679	Corymbia tessellaris	Moreton Bay Ash	130		130	11.0	3.0 2.0	1.4	Regular	_	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
680	Corymbia tessellaris	Moreton Bay Ash	155		155	12.0	5.0 2.0	1.5	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-		-	-		

	Specimen Det					(Canopy Co	ondition l	Details				Trunk	Condition [Details		Fau	na D	etails	and H	labitat Va	alue					
Botanical Name	Common Name	Trunk DBH (mm) Additional Trunks DBH (mm)	Total DBH (mm) [AS 4970-2009]	Height (m)	Spread (m)	Tree Protection Zone (m)	Structural Root Zone (m)	Canopy Form	Spreading	Seeding	Thinning	Die-Back	Epicormic Growth	ropped	Canopy Health	Leaning	Vines	Trunk Damage	Fire Damage	Trunk Health	Scats	Scratches	Hollows	Nest	Termite nests	Habitat Value	Additional Notes
681 Acacia leiocalyx	Early Flowering Black Wattle	120	120	7.0	3.0	2.0	1.4	Regular	-	-	-	-	-	I	Typical	Minor	-	-	-	Typical	-	-	-	-	-	-	
682 Acacia concurrens	Black Wattle	100	100	6.0	3.0	2.0	1.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
683 Eucalyptus tereticornis	Forest Red Gum	230	230	16.0	6.0	2.8	1.8	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
684 Acacia fimbriata	Fringed Wattle	140	140	6.0	4.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
685 Acacia concurrens	Black Wattle	130	130	7.0	4.0	2.0	1.4	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
686 Eucalyptus tereticornis	Forest Red Gum	195	195	12.0	4.0	2.3	1.7	Regular	-	-	-	-	-	I	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
687 Acacia leiocalyx	Early Flowering Black Wattle	130	130	7.0	5.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	Minor	-	-	-	Typical	-	-	-	-	-	-	
688 Acacia leiocalyx	Early Flowering Black Wattle	130	130	7.0	4.0	2.0	1.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
689 Lophostemon suaveolens	Swamp Box	200	200	13.0	6.0	2.4	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
690 Eucalyptus tereticornis	Forest Red Gum	550	550	26.0	12.0	6.6	2.6	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
691 Lophostemon suaveolens	Swamp Box	210	210	11.0	5.0	2.5	1.7	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
692 Eucalyptus tereticornis	Forest Red Gum	420	420	22.0	9.0	5.0	2.3	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
693 Waterhousia floribunda	Weeping Lily Pily	360	360	13.0	10.0	4.3	2.2	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	
694 Eucalyptus tereticornis	Forest Red Gum	470	470	27.0	10.0	5.6	2.4	Regular	-	-	-	-	-	-	Typical	-	-	-	-	Typical	-	-	-	-	-	-	