

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

13 DEC 2013

MEDQ

ENVIRONMENTAL REPORT

**81-127 O'Dempsey Road
OCTOBER 2013**

Contents

OBJECTIVES/SCOPE

Figure 1 - site location (goggle maps)

BACKGROUND

INVESTIGATION SITE DESCRIPTION

ANALYSIS

SITE INVESTIGATION

Figure 2a

Figure 2b

figure 3a

figure 3b

figure 3c

figure 4a

figure 4b

figure 5

figure 6

Photograph 2

Photograph 1

Photograph 3

Table1

CONCLUSION

table 2

TREE MANAGEMENT STRATEGIES

TREE MANAGEMENT PLAN - CONSTRUCTION

CONTROL WEEDS

EROSION AND SEDIMENT CONTROL

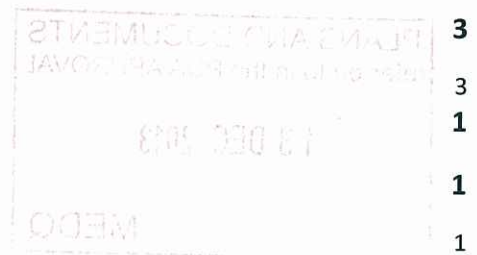
DISPOSAL OF DEBRIS

figure 7

Appendix 1

Figure 6c-

table 2-



OBJECTIVES/SCOPE

This report forms part of an application to construct a residence in a small area on a lot located at 81-127 O'Dempsey Road, South Ripley, also identified as Lot 194 SL 234.

This report includes:

- Analyses of the impact of the proposal on the ecological, biodiversity, habitat and cultural significance of the area
- Identification the construction and post constructional impact on the 'of concern' regional ecosystem and 'essential habitat' values of the site
- Indicates the extent of proposed vegetation clearing
- A vegetation management and rehabilitation plan.



Figure 1 - site location (goggle maps)

BACKGROUND

The lot is 40.5 has in size and zoned Rural under the Ipswich City Council. The application is for the construction of a residence on an existing cleared earth pad located on the highest point on the property. Access is via an existing unsealed gravel road along the ridge for 400 metres. An existing cleared area will provide the location for the first 100 metres (approximately) until utilising the existing unsealed road. There are no services required as the residence will be dependant on gas and solar energy for power. No vegetation is proposed to be cleared..

INVESTIGATION SITE DESCRIPTION

ANALYSIS

The department of Environment and Heritage Protection mapping - Vegetation Management Act Regional Ecosystem and Remnant Map - Version 6.1 (figure 5) shows RE vegetation on the site. The mapping indicates that the extent of "of concern" Regional ecosystem (RE) passing through the proposed building location. The RE mapped is a mixed use polygon consisting of:

REs	12.9-10.2/12.9-10.7/12.9-10.19
RE1	12.9-10.2
RE2	12.9-10.7
RE3	12.9-10.19

PERCENT	65/20/15
RE_LABEL	12.9-10.2/12.9-10.7/12.9-10.19

as well as Vegetation Management Act "essential habitat".

The Regrowth Vegetation Map - Version 2.1 mapping shows the site contains high value regrowth vegetation containing "of concern" regional ecosystem. The extent of mapping shows that some of the re included part of the proposed building location.

The lot is also flagged by DEHP mapping as containing habitat suitable for Phascolarctos cinereus (Koala) Wildlife online database records obtained for an areas within a one km radius of the lot document the has no records of for the site. There are no further local government vegetative constraints. EPBC Act Protected Matters report found that there are potentially threatened species on the site:
Listed Threatened Species:26
Listed Threatened Ecological Communities 1
Listed Migratory Species: 13
Refer to to Appendix 1

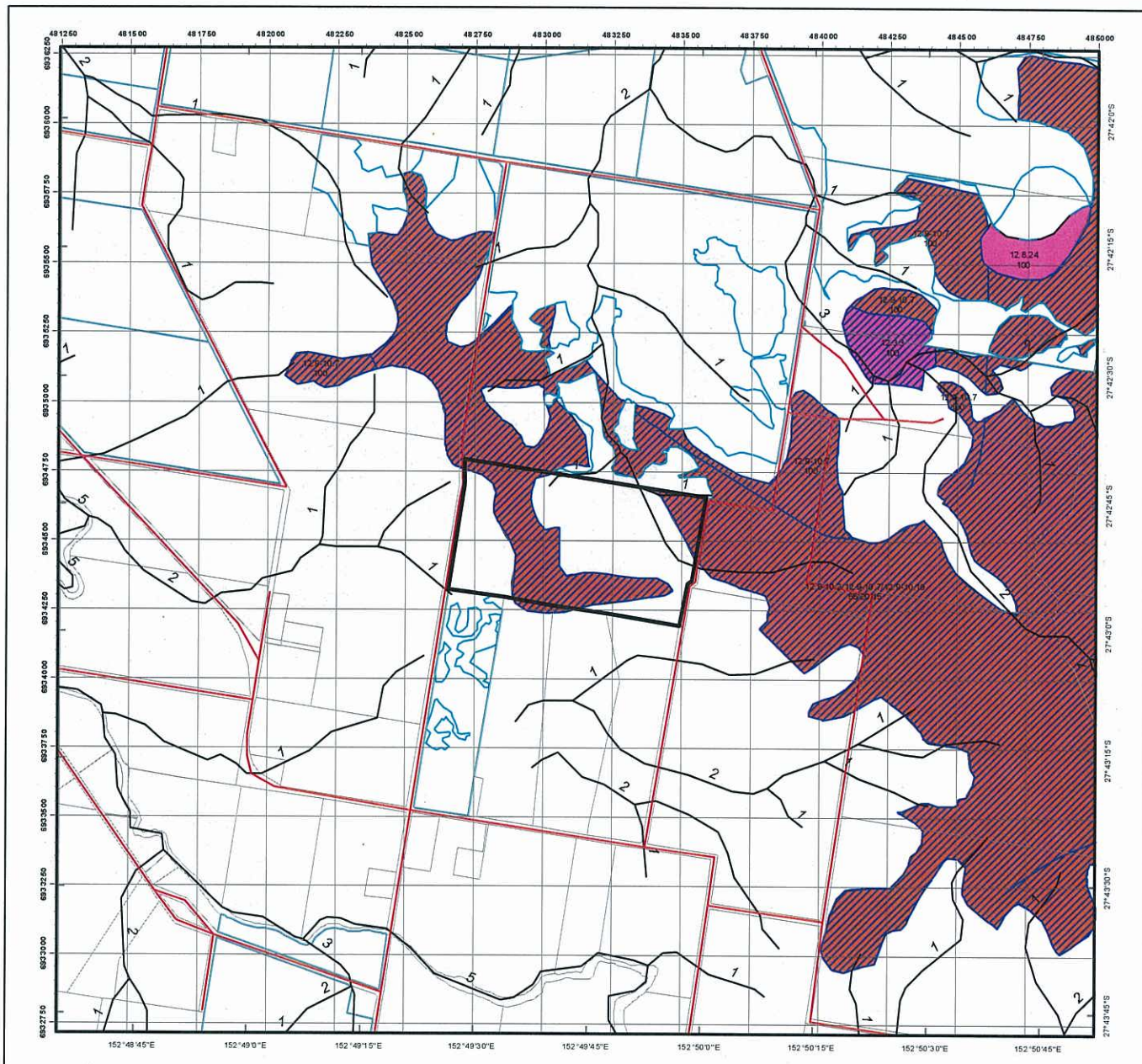
SITE INVESTIGATION

The site investigation consisted visiting the location proposed for the residence to assess the existing vegetation. A broad scale survey was conducted of the surrounding area targeting:

- Threatened species (Commonwealth, State and Local species and communities);
- Koala's and evidence of Koala using the site
- Habitat and Hollow Bearing Tree Searches

No listed threatened species were found on site survey. No koalas or evidence of scratches or scat indicating the presence of koalas was noted.

Although the lot does support a mixed eucalypt community the investigation focused on the areas to the immediate surrounds of the proposed building location. The vegetation immediately surrounding the pad was generally open grassed space as evident in figure 6.



Vegetation Management Act Regional Ecosystem and Remnant Map - Version 6.1

Based on 2006 Landsat TM imagery

Requested By: TREVOR@ENVIROSTUDIO.COM.AU

Date: 29 Oct 13 Time: 14.16.10

Centred on Lot on Plan:

194 SL234

- Remnant vegetation containing endangered regional ecosystems
- Remnant vegetation containing of concern regional ecosystems
- Remnant vegetation that is a least concern regional ecosystem
- Remnant vegetation under Section 20AH of the VMA
- Non-remnant
- Plantation Forest
- Dam or Reservoir
- Remnant Vegetation
- PMAV Category X area
- Great Barrier Reef Wetlands
- Vegetation Management Act Essential Habitat
For further information on VMA Essential Habitat, please see the attached VMA Essential Habitat map
- Subject Lot
- Vegetation management watercourse map - version 1.2
(Stream order shown as black number against stream where available)
- Bioregion boundary
- Roads
- © Pitney Bowes Software Pty Ltd 2013
- National Park, Conservation Area State Forest and other reserves
- Cadastral line
- Property boundaries shown are provided as a locational aid only

Bioregion:
Southeast Queensland



LOCALITY DIAGRAM



0 200 400 600 800 1,000 m

Eastings and Northings based on Map Grid Australia GDA94 on UTM projection in zone 56.
Latitude and Longitude shown as Degrees, Minutes, Seconds based on GDA94 map datum.

A remnant map covers areas not covered by a regional ecosystem map.

Defined map areas are labelled with the regional ecosystem (RE) code along with the percentage breakdown if more than one RE occurs within the area. Detailed definitions of regional ecosystems are available from www.dnm.qld.gov.au/REDD. Defined map areas smaller than 5ha may not be labelled.

Regional ecosystem linework has been compiled at a scale of 1:100 000, except in designated areas where a compilation scale of 1:50 000 is available. Linework should be used as a guide only. The positional accuracy of RE data mapped at a scale of 1:100 000 is +/-100 metres. The extent of remnant regional ecosystems as of 2006, depicted on this map is based on rectified 2006 Landsat TM imagery (supplied by the Statewide Landcover and Trees Study (SLATS), Queensland Government).

Some watercourse lines are derived from GeoScience Australia 1:250 000 mapping.

Disclaimer:

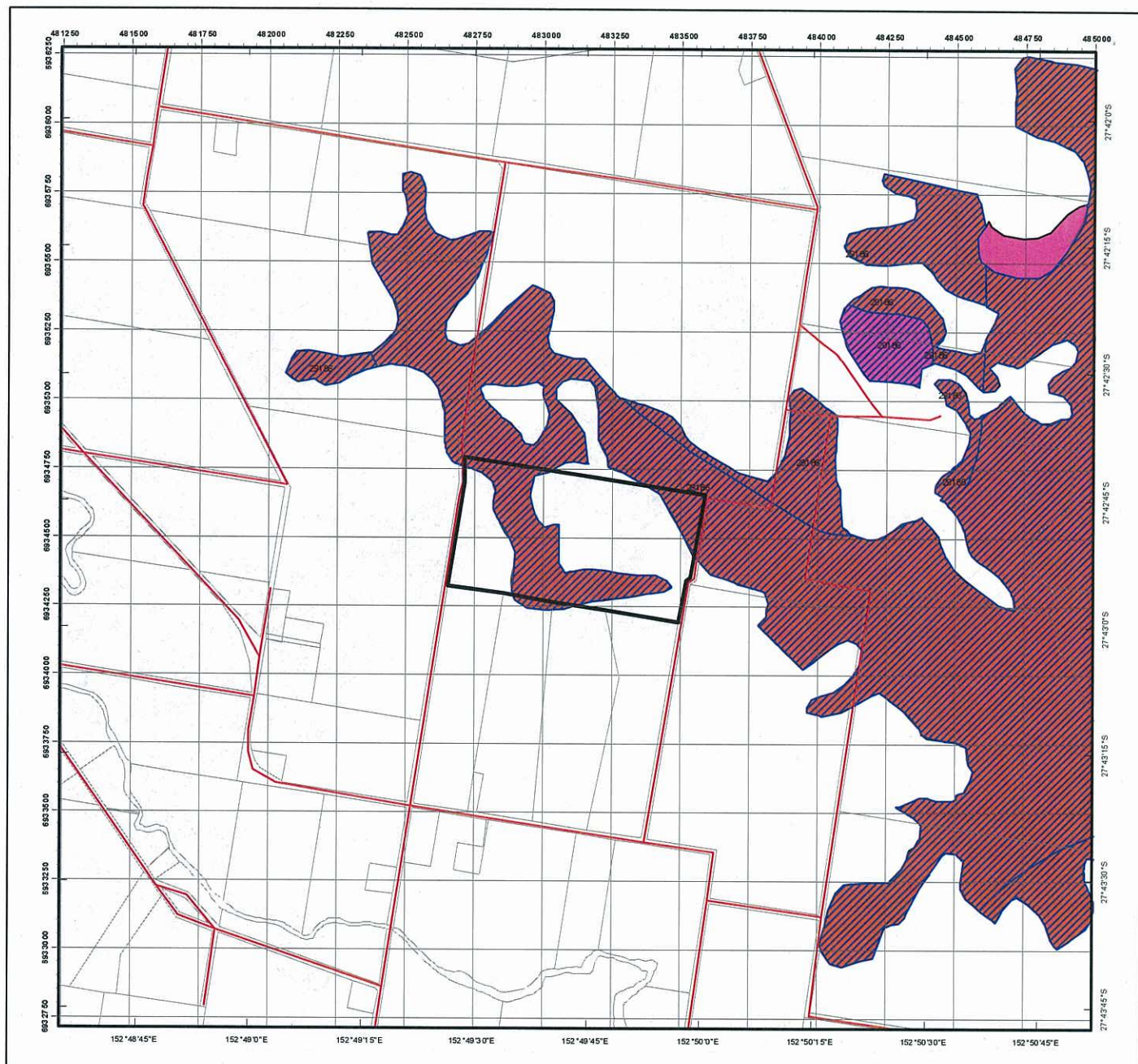
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All datasets are updated as they become available to provide the most current information as of the date shown on this map.

Additional information is required for the purposes of land clearing or assessment of a regional ecosystem map or PMAV applications. For further information go to the web site: www.dnm.qld.gov.au/vegetation or contact the Department of Natural Resources and Mines.

Digital regional ecosystem data is available in shapefile format, for Lot on Plans from www.dnm.qld.gov.au/REDDATA or from DNRM for larger areas.

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Vegetation Management Act Essential Habitat Map - Version 3.1

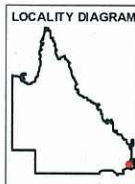
Requested By: TREVOR@ENVIROSTUDIO.COM.AU

Date: 29 Oct 13 Time: 14.16.15

Centred on Lot on Plan:

194 SL234

- Remnant vegetation containing endangered regional ecosystems
- Remnant vegetation containing of concern regional ecosystems
- Remnant vegetation that is a least concern regional ecosystem
- Remnant vegetation under Section 20AH of the VMA
- Non-remnant
- Plantation Forest
- Dam or Reservoir
- Remnant Vegetation
- PMAV Category X area
- Vegetation Management Act Essential Habitat
- Vegetation Management Act Essential Habitat Species Records
- Subject Lot
- Roads
- © Pitney Bowes Software Pty Ltd 2013
- National Park, Conservation Area State Forest and other reserves
- Cadastral line
- Property boundaries shown are provided as a locational aid only
- Towns



0 200 400 600 800 1,000 m

Eastings and Northings based on Map Grid Australia GDA94 on UTM projection in zone 56.

Latitude and Longitude shown as Degrees, Minutes, Seconds based on GDA94 map datum. © The State of Queensland, 2013

Labels for the Vegetation Management Act Essential Habitat are centred on the subject lot (1.1km surrounding and including a Lot on Plan). Labels correlate to the label field in the attached essential habitat databases.

Regional ecosystem linework has been compiled at a scale of 1:100 000, except in designated areas where a compilation scale of 1:50 000 is available. Linework should be used as a guide only. The positional accuracy of RE data mapped at a scale of 1:100 000 is +/-100 metres. The extent of remnant regional ecosystems as of 2006, depicted on this map is based on rectified 2006 Landsat TM imagery (supplied by SLATS, Queensland Government).

Disclaimer:

While every care is taken to ensure the accuracy of this product, the Department of Natural Resources and Mines (DNRM) and Pitney Bowes Software, makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you might incur as a result of the product being inaccurate or incomplete in any way and for any reason.

All datasets are updated as they become available to provide the most current information as of the date shown on this map.

Additional information is required for the purposes of land clearing or assessment of a regional ecosystem map or PMAV applications. For further information go to the web site: www.dnrm.qld.gov.au/vegetation or contact the Department of Natural Resources and Mines.

Digital regional ecosystem data is available in shapefile format, for Lot on Plans from www.dnrm.qld.gov.au/REDATA or from DNRM for larger areas.

Vegetation Management Act 1999 - Extract from the essential habitat database - version 3.1

Essential habitat is required for assessment under the Regional Vegetation Management Codes.

Essential habitat for one or more of the following species is found on and within 1.1 km of the identified subject lot/s on the accompanying essential habitat map.

The numeric labels on the essential habitat map can be cross referenced with the database below to determine which essential habitat factors might exist for a particular species.

Essential habitat is compiled from a combination of species habitat models and buffered species records.

The Department of Natural Resources and Mines website (www.dnrm.qld.gov.au) has more information on how the layer is applied under the Regional Vegetation Management Codes.

Regional ecosystem is a mandatory essential habitat factor, unless otherwise stated.

Essential habitat, for protected wildlife, means an area of vegetation shown on the regional ecosystem map or remnant map as remnant vegetation -

(a) that has at least 3 essential habitat factors for the protected wildlife that must include any essential habitat factors that are stated as mandatory for the protected wildlife in the essential habitat database; or

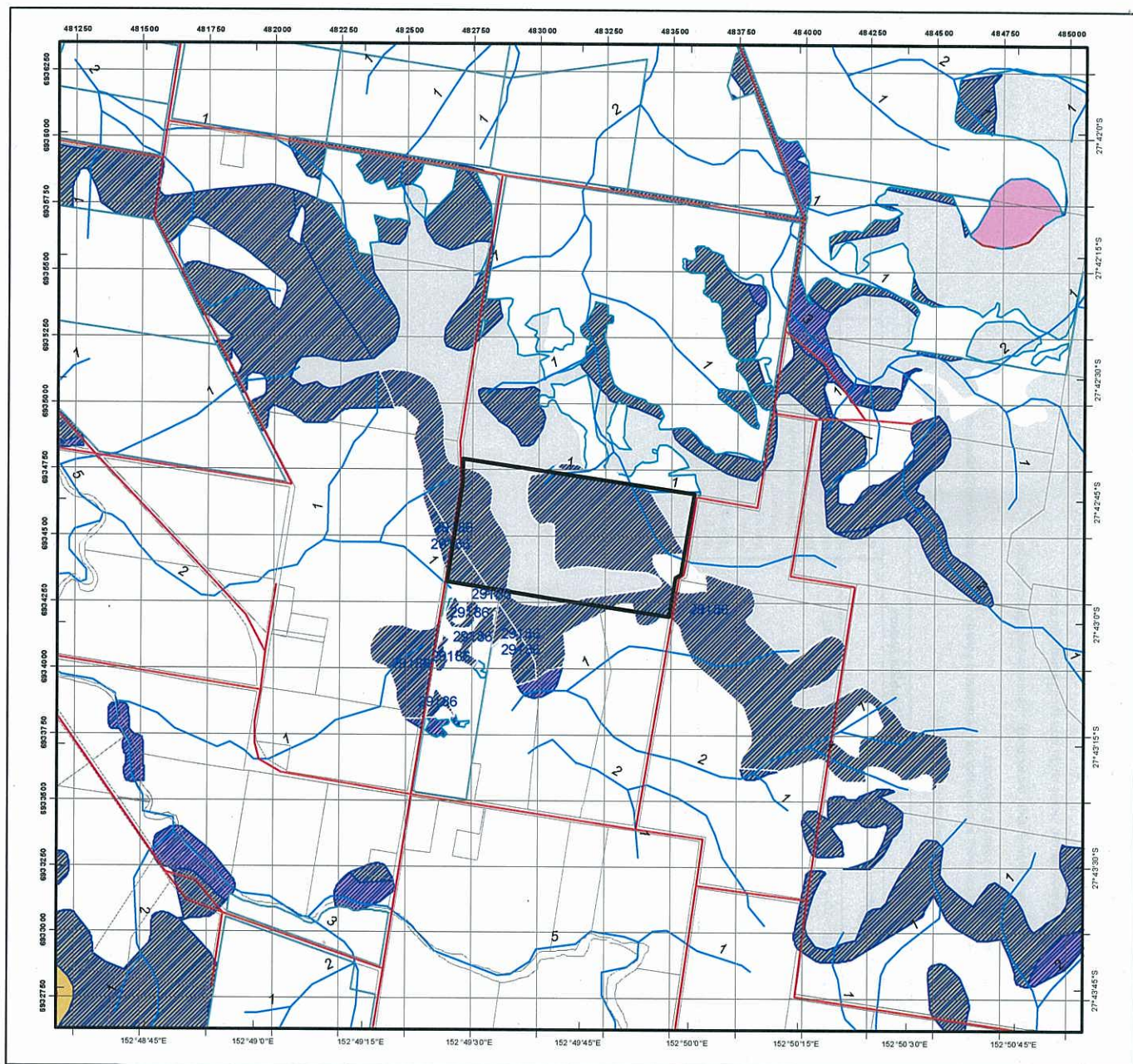
(b) in which the protected wildlife, at any stage of its life cycle, is located.

Protected wildlife is native wildlife prescribed under the Nature Conservation Act 1994 (NCA) as endangered, vulnerable, rare or near threatened wildlife.

Essential habitat factors					
Label	Scientific Name	Common Name	NCA Status	Regional Ecosystems (this is a mandatory essential habitat factor, unless otherwise stated)	Vegetation Community
29186	Phascolarctos cinereus (southeast Queensland bioregion)	Koala	V	12.3.3, 12.3.4, 12.3.6, 12.3.7, 12.3.10, 12.3.11, 12.5.2, 12.5.3, 12.8.14, 12.9-10.4, 12.9-10.7, 12.9-10.17, 12.11.5, 12.11.18, 12.12.12	Open eucalypt forest and woodland that has: a) multiple strata layers containing Eucalyptus, Corymbia, Angophora, Lophostemon or Melaleuca trees that-at 1.3 metres above the ground-have a diameter both greater and less than 30 centimetres; and b)
					Altitude Sea level to 1000m.
					Soils None
					Position in Landscape None

Time Now: 2013-10-29 14:16:04.407000

Lot on Plan searched for: 19/SL234

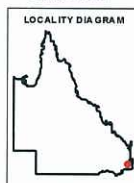


REGROWTH VEGETATION MAP - Version 2.1

- Vegetation Management Act Essential Regrowth Habitat with example label number
- Great Barrier Reef Wetland Protection Authority
- High value regrowth vegetation containing Endangered regional ecosystems
- High value regrowth vegetation containing Of Concern regional ecosystems
- High value regrowth vegetation that is a Least Concern regional ecosystem
- Remnant Vegetation (Refer to the Vegetation Management Act Regional Ecosystem and Remnant Map also available from the Department of Environment and Resource Management website for further information on these areas)
- Non-remnant
- PMAV Category X area
- Regrowth watercourse (Stream order shown as black number against stream)
- Vegetation management watercourse map - version 1.2 (Stream order shown as black number against stream where available)
- Subject Lot
- Roads
- © Pitney Bowes Software Pty Ltd 2013
- Cadastral line
- Property boundaries shown are provided as a locational aid only
- Towns

Requested By: TREVOR@ENVIROSTUDIO.COM.AU
Date: 29 Oct 13 Time: 14.16.08

Centred on Lot on Plan:
194 SL234



0 210 420 630 840 1,050 m

Labels for Vegetation Management Act Essential Regrowth Habitat are centred on the subject lot. Labels correlate to the label field in the attached essential regrowth habitat database.

The high value regrowth, regrowth watercourse, other watercourse, Great Barrier Reef wetland protection area and essential regrowth habitat data shown on this map are representations of the preliminary data.

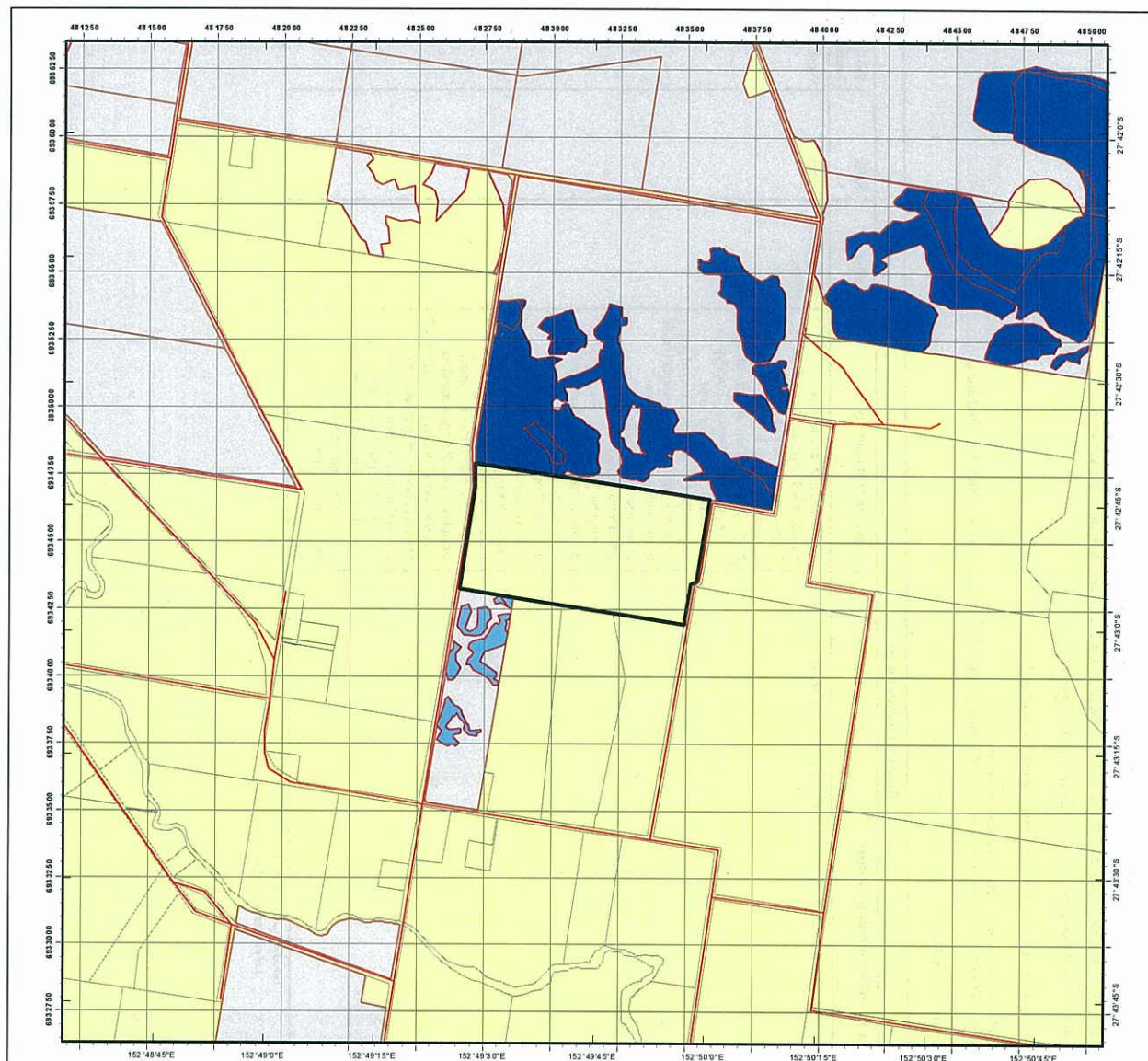
Some watercourse lines are derived from GeoScience Australia 1:250 000 mapping.

For further information go to the website: <http://www.dnrm.qld.gov.au/vegetation/> or contact Vegetation Management, Department of Natural Resources and Mines.

Areas covered by a Property Map of Assessable Vegetation (PMAV) are represented on the map attached as Page 2 to this Regrowth Vegetation Map and provided

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Eastings and Northings based on Map Grid Australia GDA94 on UTM projection in zone 56.
Latitude and Longitude shown as Degrees, Minutes, Seconds based on GDA94 map datum.



Property Maps of Assessable Vegetation (PMAVs)

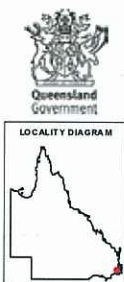
Requested By: TREVOR@ENVIROSTUDIO.COM.AU

Date: 29 Oct 13 Time: 14.16.11

Centred on Lot on Plan:
194 SL234

Property Map of Assessable Vegetation Vegetation Category Area

- Category A area
- Category B area
- Category C area
- Category X area
- Area that is subject to other PMAVs or, if no PMAV exists, a regional ecosystem map, remnant map or regrowth vegetation map
- Subject Lot
- Roads
- © Pitney Bowes Software Pty Ltd 2013
- Cadastral line
- Property boundaries shown are provided as a locational aid only
- Towns



N

0 210 420 630 840 1,050 m

Eastings and Northings based on Map Grid Australia GDA94 on UTM projection in zone 56.
Latitude and Longitude shown as Degrees, Minutes, Seconds based on GDA94 map datum.

The PMAV data shown on this map are a representation of the data used to create certified PMAVs. Variations may occur between PMAV boundaries and cadastral boundaries. PMAV data incorporates cadastral boundary data as at the time of certification of the PMAV. The cadastral boundaries shown on this map may have shifted relative to the PMAV boundaries as more accurate cadastral boundary data have become available.

All datasets are updated as they become available to provide the most current information as of the date shown on this map.

For further information go to the website:
<http://www.dnrm.qld.gov.au/vegetation/index.html>
or contact Vegetation Management, Department of Natural Resources and Mines.

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Essential regrowth habitat is required for compliance with the Regrowth Vegetation Code.

Essential regrowth habitat for one or more of the following species is found on the identified subject lot/s on the accompanying regrowth map.

The numeric labels on the regrowth map can be cross referenced with Essential regrowth habitat is compiled from species habitat models.

The Department of National Defence and Military Production is one of the largest in the Government of Canada. It is responsible for the development, production, and maintenance of the Canadian Armed Forces' equipment and for the provision of military services to the public. The Department is also responsible for the development and production of military equipment for other countries. The Department is organized into several divisions, each of which is responsible for a specific area of the Department's work. The divisions are: the Development Division, the Production Division, the Maintenance Division, the Military Services Division, and the Military Equipment Division. The Development Division is responsible for the development of new equipment and for the improvement of existing equipment. The Production Division is responsible for the production of equipment and for the management of the production process. The Maintenance Division is responsible for the maintenance of equipment and for the management of the maintenance process. The Military Services Division is responsible for the provision of military services to the public. The Military Equipment Division is responsible for the development and production of military equipment for other countries. The Department is headed by the Minister of National Defence and Military Production, who is responsible for the overall management of the Department. The Minister is assisted by the Deputy Minister, who is responsible for the day-to-day management of the Department. The Department is also assisted by several advisory bodies, including the Canadian Defence Research and Development Board, the Canadian Military Production Board, and the Canadian Military Maintenance Board. The Department is a key part of the Canadian government and is responsible for ensuring that the Canadian Armed Forces have the equipment and services they need to defend Canada and its interests.

The Department of Natural Resources and Mines website (www.dnrm.qld.gov.au) has been used to determine whether the Regional ecosystem is a mandatory essential habitat factor, unless otherwise stated.

Essential regrowth habitat, for protected wildlife, means an area of vegetation shown

- that has at least 3 essential habitat factors that must include any essential habitat factors that are stated as mandatory for the protected wildlife, at any stage of its life cycle, is located,
- in which the protected wildlife, at any stage of its life cycle, is located.

Protected wildlife is native wildlife prescribed under the Nature Conservation Act 1994 (NCA) as endangered, vulnerable, rare or near threatened wildlife.

Label	Scientific Name	Common Name	NCA Status	Essential habitat factors					Vegetation Community	Altitude	Soils	Position in Landscape
				Regional Ecosystems (this is a mandatory essential habitat factor, unless otherwise stated)								
29186	Phascolarctos cinereus (southeast Queensland bioregion)	Koala	V	12.3.3, 12.3.4, 12.3.6, 12.3.7, 12.3.10, 12.3.11, 12.3.12, 12.3.13, 12.3.14, 12.3.15, 12.3.16, 12.3.17, 12.3.18, 12.3.19, 12.3.20, 12.3.21, 12.3.22, 12.3.23, 12.3.24, 12.3.25, 12.3.26, 12.3.27, 12.3.28, 12.3.29, 12.3.30, 12.3.31, 12.3.32, 12.3.33, 12.3.34, 12.3.35, 12.3.36, 12.3.37, 12.3.38, 12.3.39, 12.3.40, 12.3.41, 12.3.42, 12.3.43, 12.3.44, 12.3.45, 12.3.46, 12.3.47, 12.3.48, 12.3.49, 12.3.50, 12.3.51, 12.3.52, 12.3.53, 12.3.54, 12.3.55, 12.3.56, 12.3.57, 12.3.58, 12.3.59, 12.3.60, 12.3.61, 12.3.62, 12.3.63, 12.3.64, 12.3.65, 12.3.66, 12.3.67, 12.3.68, 12.3.69, 12.3.70, 12.3.71, 12.3.72, 12.3.73, 12.3.74, 12.3.75, 12.3.76, 12.3.77, 12.3.78, 12.3.79, 12.3.80, 12.3.81, 12.3.82, 12.3.83, 12.3.84, 12.3.85, 12.3.86, 12.3.87, 12.3.88, 12.3.89, 12.3.90, 12.3.91, 12.3.92, 12.3.93, 12.3.94, 12.3.95, 12.3.96, 12.3.97, 12.3.98, 12.3.99, 12.4.1, 12.4.2, 12.4.3, 12.4.4, 12.4.5, 12.4.6, 12.4.7, 12.4.8, 12.4.9, 12.4.10, 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Lot on Plan searched for: 194SL234



Legend

Qld waterways for waterway barrier works

-  1 - Low
-  2 - Moderate
-  3 - High
-  4 - Major

SEQ regional plan land use categories

-  Regional Landscape and Rural Production Area
-  Urban Footprint
-  Rural Living Area

Water resource planning area boundaries

-  Water resource planning area boundaries

Property maps of assessable vegetation

-  A
-  B
-  C
-  X

Regional ecosystems

-  Endangered (E-dom, E-subdom)
-  Of concern (O-dom, O-subdom)
-  Of least concern (NotOfC)
-  Non remnant

Matters of Interest by Lotplan

Lot Plan: 194SL234

Qld waterways for waterway barrier works

Water resource planning area boundaries

Property maps of assessable vegetation

Regional ecosystems

SEQ regional plan land use categories

figure 4b

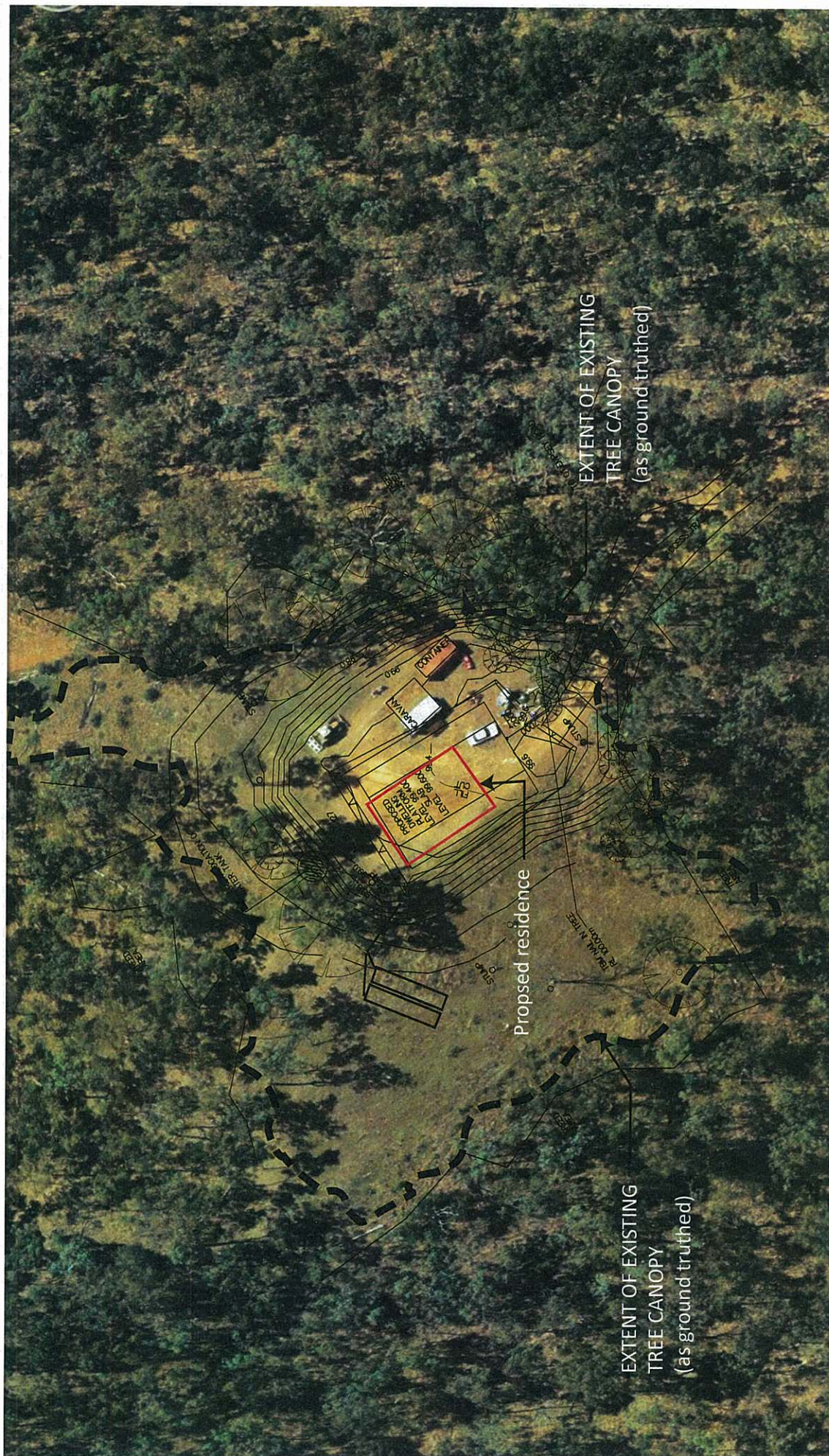


Figure 6 Existing vegetation and Proposed Building extents

Date: October 2013

Issue A

Scale: nts



Photograph 1
existing pad

Photograph 2

View north west across existing pad



Photograph 3
from pad north

Threatened Ecological Communities

Threatened Ecological Species	Status	Presence In investigation area
Lowland Rainforest of Subtropical Australia	Critically Endangered	Not present

Threatened Species	Status	Notes
Birds		
Regent Honeyeater	Endangered	Not identified
Australasian Bittern	Endangered	Not identified
Eastern Bristlebird	Endangered	Not identified - Refer to "Threatened Species"
Red Goshawk	Endangered	Not identified
Squatter Pigeon	Endangered	Not identified
Australian Painted Snipe	Vulnerable	Not identified
Black Breasted Button-quail	Vulnerable	Not identified
Fish		
Australian Lung fish	Endangered	no suitable habitat. No permanent water body on the site
Frogs		
Giant Barred Frog, Southern Barred Frog	Endangered	no suitable habitat
Mammals		
Large eared Pied Bat (<i>Chalinolobus dwyeri</i>)	Vulnerable	No maternity roost sites are known in Queensland - No suitable habitat for example -White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland. Also Sandstone cliffs, rocky outcrops, caves and mines and fertile woodland valley habitat within close proximity of each other is habitat of importance - not occurring on or near the site. Not recorded as occurring on PMST Database.
Northern Quoll <i>Dasyurus hallucatus</i>	Endangered	Not considered likely to occur , no suitable habitat - The Northern Quoll is known to occur as far south as Grace-mere and Mt Morgan, south of Rockhampton, as far north as Cooktown in Queensland and extends as far west into central Queensland to the vicinity of Carnarvon Range National Park (Woinarski et al. 2008). There are occasionally records as far south in Queensland as Maleny on the sunshine coast hinterland (Qld DERM 2009a). Outside of the range
Spot-tailed Quoll,	Vulnerable	Not considered likely to occur
PLANTS		
Bosistoa selwynii (Heart-leaved Bosistoa)	Vulnerable	Not identified on site
Bosistoa transversa (Three leaved Bosistoa)	Vulnerable	Not identified on site
Cryptostylis hunteriana (Leafless Tongue-orchid)	Vulnerable	Not identified on site

Threatened Species	Status	Notes
Long-nosed Potoroo	Vulnerable	Not considered likely to occur The Long-nosed Potoroo is sparsely distributed along the coast and Great Dividing Range of south-east Queensland through NSW (Van Dyck & Strahan 2008). There is limited information about the species habitat in Queensland and NSW. There is no consistent pattern to the habitat of the Long-nosed Potoroo; it can be found in wet eucalypt forests (Seebeck 1995b) to coastal heaths and scrubs (Mason 1997). The main factors would appear to be access to some form of dense vegetation for shelter (Bennett 1987) and the presence of an abundant supply of fungi for food (Claridge et al. 1992).
Grey-headed Flying-fox	Vulnerable	Not identified on site. Diurnal survey Possible occasional use of site for foraging. Recorded as occurring on PMST Database. Grey-headed Flying-foxes commute daily to foraging areas, usually within 15 km of the day roost site (Tidemann 1998). Grey-headed Flying-foxes are capable of nightly flights of up to 50 km from their roost to different feeding areas as food resources change (Eby unpubl. cited in Eby 1991). They generally congregate in camps made up of large numbers of individuals, but some also roost singly or in small groups. The closest large camp is located in Camira (approximately 10 km away) (Department of Sustainability, Environment, Water Population and Communities (DSEWPac) 2013) Nectar and pollen from the flowers of eucalypts (genera Eucalyptus, Corymbia and Angophora), melaleucas and banksias are the primary food for the species (Duncan et al. 1999), which can be found on the site. No single or small groups were present on the site. DSEWPac records the Grey headed flying fox as occurring on site confirming the use of site for foraging. It is not anticipated the development of the site affecting the Grey Headed flying fox populations.

PLANTS

Bosistoa selwynii (Heart-leaved Bosistoa)	Vulnerable	Not identified on site
Bosistoa transversa (Three leaved Bosistoa)	Vulnerable	Not identified on site
Cryptostylis hunteriana (Leafless Tongue-orchid)	Vulnerable	Not identified on site
Notelaea ipsviciensis (Cooneana Olive)	Critically Endangered	Not identified on site
Notelaea lloydii	Vulnerable	Not identified on site
Phebalium distans	Critically Endanger	Not identified on site Not considered likely to occur
REPTILES		

Delma torquata (Collared Delma)	Vulnerable	Not identified on site Due to the specific habitat requirements of Collared Delma and that there are no recorded populations near the site (Dept of Sustainability, Environment, Water, Populations and communities - http://www.environment.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon_id=1656) Not considered likely to occur
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Furina dunmalli (Dunmall's Snake)	Vulnerable	Not identified on site Dunmall's Snake occurs primarily in the Brigalow Belt region in the south-eastern interior of Queensland. Records indicate the species prefers habitats between 200 to 500 m above sea level ((Dept of Sustainability, Environment, Water, Populations and communities http://www.environment.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon_id=59254) - Not considered likely to occur
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Threatened Species	Status	Notes
Notelaea ipsviciensis (Cooneana Olive)	Critically Endangered	Not identified on site
Notelaea lloydii	Vulnerable	Not identified on site
Phebalium distans	Critically Endanger	Not identified on site Not considered likely to occur
REPTILES		
Delma torquata (Collared Delma)	Vulnerable	Not identified on site Due to the specific habitat requirements of Collared Delma and that there are no recorded populations near the site (Dept of Sustainability, Environment, Water, Populations and communities - http://www.environment.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon_id=1656) Not considered likely to occur
Furina dunmalli (Dunmall's Snake)	Vulnerable	Not identified on site Dunmall's Snake occurs primarily in the Brigalow Belt region in the south-eastern interior of Queensland. Records indicate the species prefers habitats between 200 to 500 m above sea level ((Dept of Sustainability, Environment, Water, Populations and communities http://www.environment.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon_id=59254) - Not considered likely to occur

Table1

Regional ecosystem	12.9-10.2
Vegetation Management Act class	Least concern
Biodiversity status	No concern at present
Subregion	2, 7, 8, (5)
Estimated extent	In December 2006, remnant extent was > 10,000 ha and >30% of the pre-clearing area remained.
Extent in reserves	Low
Short description	Corymbia citriodora, Eucalyptus crebra open forest on sedimentary rocks
Structure category	Mid-dense
Description	Open-forest or woodland of Corymbia citriodora, usually with Eucalyptus crebra. Other species such as Eucalyptus tereticornis and Corymbia intermedia may be present in scattered patches or in low densities. Understorey can be grassy or shrubby. Shrubby understorey of Lophostemon confertus (whipstick form) often present in northern parts of bioregion. Occurs on Cainozoic and Mesozoic sediments. (BVG1M: 10b)

Regional ecosystem	12.9-10.7
Vegetation Management Act class	Of concern
Biodiversity status	Of concern
Subregion	2, 5, 6, (8), (11.31), (7), (10)
Estimated extent	In December 2006, remnant extent was > 10,000 ha and 10-30% of the pre-clearing area remained
Extent in reserves	Low
Short description	Eucalyptus crebra woodland on sedimentary rocks
Structure category	Sparse
Description	Eucalyptus crebra +/- E. tereticornis, Corymbia tessellaris, Angophora spp., E. melanophloia woodland. Occurs on Cainozoic and Mesozoic sediments. (BVG1M: 13c) Major vegetation communities include: 12.9-10.7a: Eucalyptus tereticornis, E. siderophloia and/or E. crebra, Corymbia intermedia and Lophostemon suaveolens woodland. Occurs on Cainozoic and Mesozoic sediments in near coastal areas. (BVG1M: 12a)

Regional ecosystem	12.9-10.19
Vegetation Management Act class	Least concern
Biodiversity status	No concern at present
Subregion	8, 7, 2, (6), (11.31)
Estimated extent	In December 2006, remnant extent was > 10,000 ha and >30% of the pre-clearing area remained.
Extent in reserves	Medium
Short description	Eucalyptus fibrosa subsp. fibrosa open forest on sedimentary rocks
Structure category	Mid-dense
Description	Open-forest of Eucalyptus fibrosa subsp. fibrosa +/- Corymbia citriodora subsp. variegata, E. acmenoides or E. portuensis, Angophora leiocarpa, E. major open-forest. Understorey often sparse. Localised occurrences of Eucalyptus sideroxylon. Occurs on Cainozoic and Mesozoic sediments. (BVG1M: 12a) Major vegetation communities include: 12.9-10.19a: Open-forest of Corymbia henryi +/- Eucalyptus fibrosa subsp. fibrosa, Corymbia citriodora subsp. variegata, E. siderophloia, E. crebra. Occurs in coastal areas on Cainozoic and Mesozoic sediments. (BVG1M: 10b)

No threatened species were observed in the investigation. Re mapping indicated the area to the west of the site contains RE vegetation. Soils are sedimentary. Species composition consist of a mixed Eucalypts and Acacias with little or no shrub layer with a grass layer evidently grazed. Vegetation was analogous with 12.9-10.2 *Corymbia citriodora*, *Eucalyptus crebra* open forest on sedimentary rocks.

Botanical Name	Common Name
<i>Eucalyptus crebra</i>	Narrow leafed Ironbark
<i>Eucalyptus fibrosa</i>	Iron bark
<i>Corymbia citriodora</i>	Spotted Gum
<i>Corymbia tessellaris</i>	Moreton Bay Ash
<i>Acacia leocalyx</i>	Black wattle
<i>Eucalyptus melanophloia</i>	Silver leaved Ironbark

CONCLUSION

There will be no removal of trees either for the building or for provision of services. Access is gained through the existing access driveway, no trees will be required to be removed for the construction and the septic tank and dispersals area will be located in an open grassed area away from the existing RE vegetation.

table 2

TREE MANAGEMENT STRATEGIES

- The Works shall be conducted only between the hours of 7.00am and 6.00pm Monday to Saturday.
- Prior to the commencement of any vegetation clearance, the Contractor shall identify all areas to be cleared on construction plans and in the field.

Prior to commencement of the Works, fence or clearly mark with tape, the limits of all protected vegetation. Within these zones the following activities shall not be permitted:

- Storage and mixing of materials;
- Vehicle parking;
- Liquid disposal;
- Machinery repairs and/or refuelling;
- Construction site office or shed;
- Combustion of any material;
- Stockpiling of soil, rubble or debris;
- Any filling or excavation including trench line, topsoil skimming and/or surface excavation, unless otherwise approved by the Project Manager; and
- Unauthorised pesticide, herbicide or chemical applications.

Trees deemed by an project manager; to be potentially impacted upon, shall be protected by the application of carpet underlay and/or corrugated iron or some other similar material to encase the trunk of the tree.

Prior to commencement of The Works, the project manager shall arrange a prestart meeting with Council Environmental Assessment Officers or other relevant Council Officer. All trees to be retained shall install all approved protection measures.

- No clearing shall occur outside nominated clearing zones.
- Upon completion, the site is left free draining with no ponding of stormwater.
- Surface cover should be maintained as much as possible.

TREE MANAGEMENT PLAN - CONSTRUCTION

Key Aims / Outcomes

the Tree Management Plan aims to:

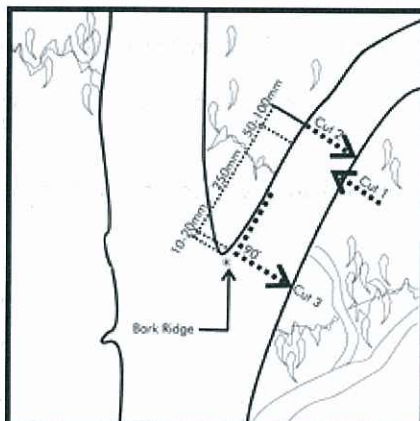
- Minimise impact on retained areas of vegetation;
- Ensure the longevity of retained trees and vegetation following site works; and
- Minimise the spread of environmental weeds during and following construction.

PROTECTION OF TREES

To ensure the health of any trees retained

- Stockpiles and excavation are to be excluded from within Tree Protection Zone (TPZ).
- The TPZ area is to be fenced with temporary fencing around trees and groups of trees to be retained.
- Establish mulch stockpile location
- Mulch stockpiles should not be placed within the drip line of retained trees.
- Protect individual trees refer to AS 4970 Protection of Trees on Development Sites

- Protect individual trees' branches
- Where retained trees require pruning it is to be done so through the three-cut method:



- Pruning may be necessary of unsafe branches and low branches of in the vicinity of earthworks. The three-cut removal of branches likely to be affected by the action of earth moving and construction equipment is desirable prior to commencement of construction.
- Chip any cleared vegetation on site and use on site as mulch
- Chip trees and utilise mulch on site. Stumps to be removed off site. Mulch to be stored in the predesignated area.

CONTROL WEEDS

Weeds are to be monitored and controlled where necessary. This will specifically include declared species and problematic environmental weeds. Weeds are to be controlled with a Glyphosate product

EROSION AND SEDIMENT CONTROL

Surface cover should be maintained as much as possible.

DISPOSAL OF DEBRIS

Clearing and disposal of vegetation shall be in accordance with Ipswich City Council's policy.

Tree No.	Botanical Name	Common Name	DBH	Height	Spread	Notes
T1	Eucalyptus melanophloia	Silver-leaved ironbark	600	25	6	
T2	Corymbia citriodora	Spotted Gum	500	25	10	
T3	Corymbia citriodora	Spotted Gum	200	15	6	
T4	Corymbia citriodora	Spotted Gum	200	15	6	
T5	Corymbia citriodora	Spotted Gum				group of three small 100-200mm dia
T6	Eucalyptus fibrosa	Broad-leaved ironbark	500	25	6	
T7	Eucalyptus fibrosa	Broad-leaved ironbark	300	15	4	
T8	Eucalyptus crebra	Narrow-leaved ironbark	450	20	8	
T9	Corymbia citriodora	Spotted Gum	300	15	5	
T10	Corymbia tessellaris	Carbeen	450	20	5	

Tree number table - refer to figure 7 Vegetation Management and Rehabilitation Plan

LEGEND



TREE (to retained-
refer to tree no. table



Vegetation protection
area



TPZ- Tree protec-
tion zone



Figure 7 Vegetation Management And Rehabilitation Plan

TPZ = Tree Protection Zone

Referred to as radius in metres and calculated using the formula:

$$TPZ = 12 \times DBH$$

where:

DBH = Diameter at Breast Height (measured 1.4 m above ground level)

SRZ = Structural Root Zone

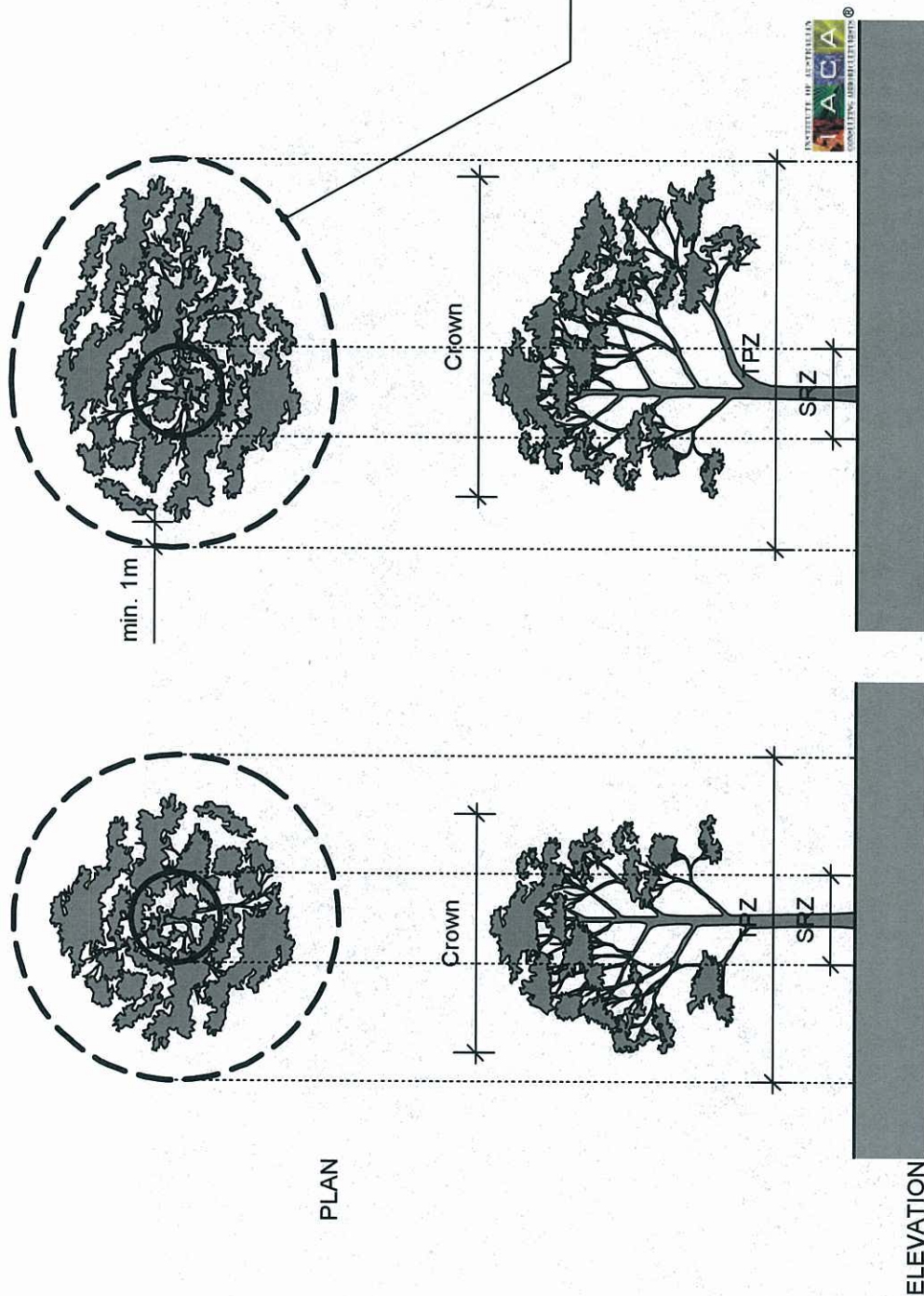
Referred to as radius in metres and calculated using the formula:

$$RSRZ = (D \times 50)^{0.42} \times 0.64$$

where:

RSRZ = Radius of Structural Root Zone
D = Stem Diameter (measured directly above root buttress in metres)

TPZ adjusted to include crown protection.
Adjusted TPZ should be a minimum of 1m outside the perimeter of the crown.



Indicative Tree Protection Zone (TPZ)

Scale 1:500 @ A4

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EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 01/11/13 15:48:12

[Summary](#)

[Details](#)

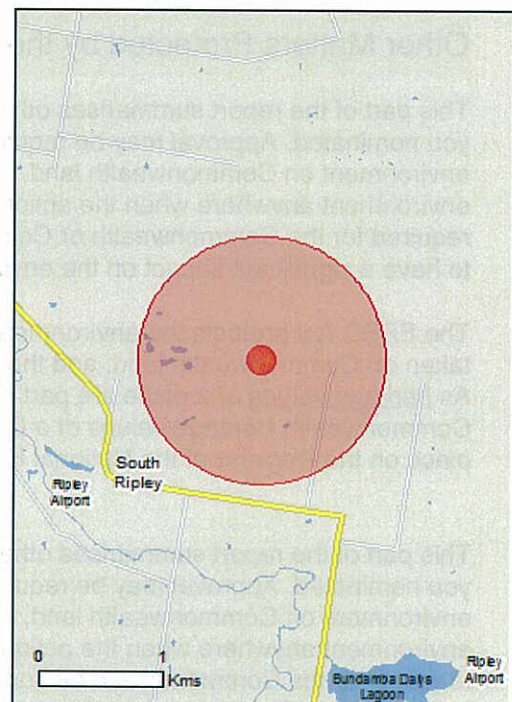
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



This map may contain data which are
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[Coordinates](#)

Buffer: 1.0Km



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	1
Great Barrier Reef Marine Park:	None
Commonwealth Marine Areas:	None
Listed Threatened Ecological Communities:	1
Listed Threatened Species:	26
Listed Migratory Species:	13

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As [heritage values](#) of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place and the heritage values of a place on the Register of the National Estate.

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	15
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Commonwealth Reserves Marine:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

<u>Place on the RNE:</u>	None
<u>State and Territory Reserves:</u>	None
<u>Regional Forest Agreements:</u>	None
<u>Invasive Species:</u>	34
<u>Nationally Important Wetlands:</u>	None
<u>Key Ecological Features (Marine)</u>	None

Details

Matters of National Environmental Significance

Wetlands of International Importance (RAMSAR)	[Resource Information]
Name	Proximity
Moreton bay	Upstream from Ramsar

Listed Threatened Ecological Communities	[Resource Information]
For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.	

Name	Status	Type of Presence
Lowland Rainforest of Subtropical Australia	Critically Endangered	Community may occur within area

Listed Threatened Species	[Resource Information]
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Name	Status	Type of Presence
Birds		

Anthochaera phrygia		
Regent Honeyeater [82338]	Endangered	Foraging, feeding or related behaviour may occur within area
Botaurus poiciloptilus		
Australasian Bittern [1001]	Endangered	Species or species habitat may occur within area
Dasyornis brachypterus		
Eastern Bristlebird [533]	Endangered	Species or species habitat may occur within area
Erythroriornis radiatus		
Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
Geophaps scripta scripta		
Squatter Pigeon (southern) [64440]	Vulnerable	Species or species habitat likely to occur within area
Lathamus discolor		
Swift Parrot [744]	Endangered	Species or species habitat likely to occur within area
Rostratula australis		
Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area

Figure 6c-

Name	Status	Type of Presence
<u>Turnix melanogaster</u> Black-breasted Button-quail [923]	Vulnerable	Species or species habitat likely to occur within area
Fish		
<u>Neoceratodus forsteri</u> Australian Lungfish, Queensland Lungfish [67620]	Vulnerable	Species or species habitat may occur within area
Frogs		
<u>Mixophyes iteratus</u> Giant Barred Frog, Southern Barred Frog [1944]	Endangered	Species or species habitat may occur within area
Mammals		
<u>Chalinolobus dwyeri</u> Large-eared Pied Bat, Large Pied Bat [183]	Vulnerable	Species or species habitat may occur within area
<u>Dasyurus hallucatus</u> Northern Quoll [331]	Endangered	Species or species habitat may occur within area
<u>Dasyurus maculatus maculatus (SE mainland population)</u> Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184]	Endangered	Species or species habitat may occur within area
<u>Petrogale penicillata</u> Brush-tailed Rock-wallaby [225]	Vulnerable	Species or species habitat likely to occur within area
<u>Phascolarctos cinereus (combined populations of Qld, NSW and the ACT)</u> Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Vulnerable	Species or species habitat known to occur within area
<u>Potorous tridactylus tridactylus</u> Long-nosed Potoroo (SE mainland) [66645]	Vulnerable	Species or species habitat may occur within area
<u>Pteropus poliocephalus</u> Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Plants		
<u>Bosistoa selwynii</u> Heart-leaved Bosistoa [13702]	Vulnerable	Species or species habitat likely to occur within area
<u>Bosistoa transversa</u> Three-leaved Bosistoa [16091]	Vulnerable	Species or species habitat likely to occur within area
<u>Notelaea ipsviciensis</u> Cooneana Olive [81858]	Critically Endangered	Species or species habitat may occur within area
<u>Notelaea lloydii</u> Lloyd's Olive [15002]	Vulnerable	Species or species habitat likely to occur within area
<u>Phebalium distans</u> Mt Berryman Phebalium [81869]	Critically Endangered	Species or species habitat may occur within area
<u>Streblus pendulinus</u> Siah's Backbone, Sia's Backbone, Isaac Wood [21618]	Endangered	Species or species habitat likely to occur within area
Reptiles		
<u>Coeranoscincus reticulatus</u> Three-toed Snake-tooth Skink [59628]	Vulnerable	Species or species habitat may occur within area

Name	Status	Type of Presence
Delma torquata Collared Delma [1656]	Vulnerable	Species or species habitat may occur within area
Furina dunmalli Dunmall's Snake [59254]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species		[Resource Information]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Migratory Marine Birds		
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Hirundapus caudacutus White-throated Needletail [682]		Species or species habitat known to occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area
Monarcha trivirgatus Spectacled Monarch [610]		Species or species habitat may occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat likely to occur within area
Xanthomyza phrygia Regent Honeyeater [430]	Endangered*	Foraging, feeding or related behaviour may occur within area
Migratory Wetlands Species		
Ardea alba Great Egret, White Egret [59541]		Species or species habitat known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat likely to occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat may occur within area

Other Matters Protected by the EPBC Act

Listed Marine Species		[Resource Information]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Birds		
Anseranas semipalmata Magpie Goose [978]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Species or species habitat known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat likely to occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Hirundapus caudacutus White-throated Needletail [682]		Species or species habitat known to occur within area
Lathamus discolor Swift Parrot [744]	Endangered	Species or species habitat likely to occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area
Monarcha trivirgatus Spectacled Monarch [610]		Species or species habitat may occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Species or species habitat may occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat likely to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat may occur within area

Extra Information

Invasive Species

[Resource Information]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resources Audit, 2001.

Name	Status	Type of Presence
Birds		
<i>Acridotheres tristis</i>		
Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
<i>Anas platyrhynchos</i>		
Mallard [974]		Species or species habitat likely to occur within area
<i>Carduelis carduelis</i>		
European Goldfinch [403]		Species or species habitat likely to occur within area
<i>Columba livia</i>		
Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
<i>Lonchura punctulata</i>		
Nutmeg Mannikin [399]		Species or species habitat likely to occur within area
<i>Passer domesticus</i>		
House Sparrow [405]		Species or species habitat likely to occur within area
<i>Streptopelia chinensis</i>		
Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
<i>Sturnus vulgaris</i>		
Common Starling [389]		Species or species habitat likely to occur within area
Frogs		
<i>Bufo marinus</i>		
Cane Toad [1772]		Species or species habitat likely to occur within area
<i>Rhinella marina</i>		
Cane Toad [83218]		Species or species

table 2-

