

# Property Vegetation Management Plan

Proposed Development – Material Change of Use 98 Guanaba Road, Tamborine Mountain Lot 3 RP181081

Client: Mt Tamborine Camping and Activities Pty Ltd

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#### 1.0 Introduction

Byrns Lardner Environmental has been appointed by Mt Tamborine Camping and Activities Pty Ltd to prepare a *Property Vegetation Management Plan* (PVMP) in relation to a proposed development on land situated at Guanaba Road, Tamborine Mountain.

#### 1.1 Development Planning Context

This PVMP has been prepared with regard to a proposed Development Application for 'Material Change of Use (MCU – Mountainbike/Zipline Facility with associated Outdoor Activities Infrastructure)' on the subject property (refer **ATTACHMENTS 1** – **8**).

This document has therefore been prepared in accordance with relevant provisions of the following legislation/policies:

- Queensland Sustainable Planning Act 2009 ('SP Act').
- Queensland Vegetation Management Act 1999 ('VM Act').
- Queensland Nature Conservation Act 1992 ('NC Act').

#### 1.2 Department of Natural Resources and Mines Context

The development proposal will result in selective clearing impacts within mapped native vegetation regulated/administered by the VM Act. The subject application is therefore triggered by the *Integrated Development Assessment System* (IDAS) for referral to Department of Natural Resources and Mines (DNRM) for Concurrence Agency assessment under provisions of the SP Act.



## 2.0 Site Details & Description

The subject site is situated at 98 Guanaba Road, Tamborine Mountain, and comprises the following registered allotment:

#### Lot 3 RP181081

This site is zoned within the 'Escarpment Protection Precinct' of the *Tamborine Mountain Zone* under provisions of Scenic Rim Regional Council's *Beaudesert Shire Planning Scheme 2007* document (refer **FIGURE 1**).

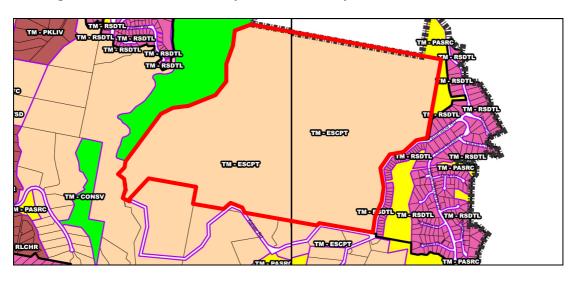


FIGURE 1: Zoning Map Excerpt (Source: BSPS)

The site is also designated within the 'Regional Landscape & Rural Production Area' of the SEQ Regional Plan 2009 – 2031 (refer **FIGURE 2**).

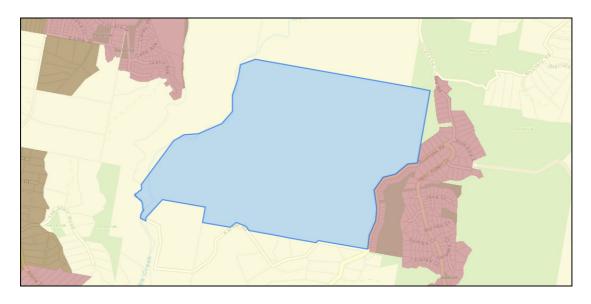


FIGURE 2: Land Use Map Excerpt (Source: SEQ Regional Plan)



The site has an area of ~203.023ha with landform/topography consisting of steep spurs and gullies on the eastern flanks of the Tamborine plateau which feed in a northerly direction to Guanaba Gorge/Creek. The site is unembellished with the exception of a network of unsealed/maintained vehicle tracks and overgrown trails associated with previous landuses (i.e banana farming and timber harvesting). The site is predominantly covered by vegetation comprising a number of community types, however some evidence of historical clearing was also noted in the southeastern/southwestern property extents (refer **ATTACHMENT 9**).

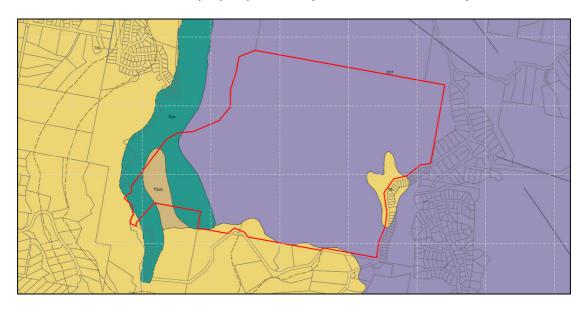


FIGURE 3: Geology Map Excerpt (Source: GSQ)

Geology across the site (refer **FIGURE 3** above) is dominated by Devonian-Carboniferous sedimentary rock (DCf – mudstone, shale, arenite, chert, jasper, basic metavolcanics, pillow lava, conglomerate) associated with the Neranleigh-Fernvale beds formation. A small area of Tertiary Basalt (Tlb – olivine basalt) associated with the Beechmont Basalt rock unit is situated proximate to the central eastern boundary, while the southwestern property extent comprises both Late Tertiary-Quaternary colluvium (TQcb – colluvium basalt: soil, clay, cobbles and boulders) and Triassic felsics (Rch – rhyolite, tuff, shale) associated with the Chillingham Volcanics formation.



## 3.0 Vegetation Assessment/Management

#### 3.1 Desktop Review

Under provisions of the VM Act, the site is broadly designated on DNRMs Regulated Vegetation Management Map and associated Vegetation Management Supporting Map as being dominated by a 'Category B area' comprising a 'Category A or B area containing of concern regional ecosystems' and a 'Category A or B area that is a least concern regional ecosystem' (refer **FIGURES 4 & 5** and **ATTACHMENT 10**) respectively.

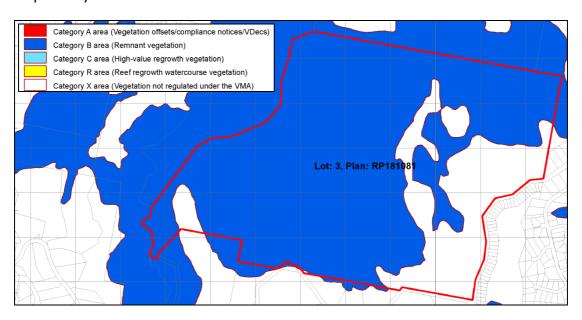


FIGURE 4: Regulated Vegetation Management Map (Source: DNRM)

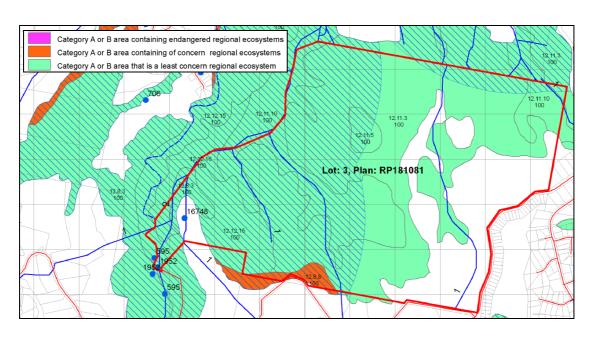


FIGURE 5: Vegetation Management Supporting Map (Source: DNRM)



A number of polygons are designated on the *Vegetation Management Supporting Map* consisting of seven (7) remnant/regional ecosystem types as follows:

- RE12.8.3 Least Concern
- RE12.8.8 Of Concern
- RE12.11.3 Least Concern
- RE12.11.5 Least Concern
- RE12.11.10 Least Concern
- **12.12.15** Least Concern
- 12.12.16 Least Concern

The '**RE12.8.3**' remnant type is described (in part) under provisions of the Queensland Herbarium's *Regional Ecosystem Description Database* as the following:

**Regional Ecosystem:** 12.8.3

**Vegetation Management Act** 

Class: Least concern

**Biodiversity Status:** No concern at present

**Subregion:** 1, 3, (4), (2)

**Estimated Extent:** In September 2011, remnant extent was >

10,000 ha and >30% of the pre-clearing

area remained.

**Extent in Reserves:** High

**Short Description:** 

Complex notophyll vine forest on Cainozoic igneous rocks. Altitude <600m.

#### **Description:**

Complex notophyll vine forest. Characteristic species include Argyrodendron trifoliolatum, Argyrodendron sp. (Kin Kin W.D.Francis AQ81198), Olea paniculata, Castanospermum australe, Cryptocarya obovata, Ficus macrophylla forma macrophylla, Syzygium francisii, Diploglottis australis, Pseudoweinmannia lachnocarpa, Podocarpus elatus, Beilschmiedia obtusifolia, Neolitsea dealbata and Archontophoenix cunninghamiana. Occurs on Cainozoic igneous rocks, especially basalt <600m altitude. (BVG1M: 2a)

The '**RE12.8.8**' remnant type is described (in part) under provisions of the Queensland Herbarium's *Regional Ecosystem Description Database* as the following:

**Regional Ecosystem:** 12.8.8

**Vegetation Management Act** 

Class: Of concern Biodiversity Status: Of concern

**Subregion:** 1, 3, 6, (2), (4), (9)

**Estimated Extent:** In September 2011, remnant extent was <

10,000 ha and >30% of the pre-clearing

area remained.



**Extent in Reserves:** Medium

**Short Description:** 

Eucalyptus saligna or E. grandis tall open forest on Cainozoic igneous rocks.

#### **Description:**

Eucalyptus saligna or E. grandis tall open forest often with vine forest understorey ('wet sclerophyll'). Other species include Eucalyptus microcorys, E. acmenoides, Lophostemon confertus, Syncarpia glomulifera subsp. glomulifera. Occurs on Cainozoic igneous rocks and areas subject to local enrichment from Cainozoic igneous rocks. (BVG1M: 8a)

Vegetation communities in this regional ecosystem include:

12.8.8a: Eucalyptus siderophloia, E. microcorys, Corymbia intermedia +/-Eucalyptus propinqua, E. carnea open forest on Cainozoic igneous rocks. Occurs on Cainozoic igneous rocks and areas subject to local enrichment from Cainozoic igneous rocks. (BVG1M: 9a)

The '**RE12.11.3**' remnant type is described (in part) under provisions of the Queensland Herbarium's *Regional Ecosystem Description Database* as the following:

**Regional Ecosystem:** 12.11.3

**Vegetation Management Act** 

Class: Least concern

**Biodiversity Status:** No concern at present

**Subregion:** 3, 7, 5, 6, (1)

**Estimated Extent:** In September 2011, remnant extent was >

10,000 ha and >30% of the pre-clearing

area remained.

**Extent in Reserves:** High

**Short Description:** 

Eucalyptus siderophloia, E. propinqua  $\pm$  E. microcorys, Lophostemon confertus, Corymbia intermedia, E. acmenoides open forest on metamorphics  $\pm$  interbedded volcanics.

#### **Description:**

Eucalyptus siderophloia and E. propinqua open forest +/- E. microcorys, Lophostemon confertus, Corymbia intermedia, E. biturbinata, E. acmenoides, E. tereticornis, E. moluccana, Angophora leiocarpa, Syncarpia verecunda with vine forest species and E. grandis or E. saligna in gullies. Eucalyptus pilularis and E. tindaliae sometimes present e.g. mid D'Aguilar Range, Conondale Range. Occurs predominantly on hills and ranges of Palaeozoic and older moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. (BVG1M: 9a)

Vegetation communities in this regional ecosystem include:

12.11.3a: Lophostemon confertus +/- Eucalyptus microcorys, E. carnea, E. propinqua, E. major, E. siderophloia woodland. Occurs in gullies and exposed ridges of Palaeozoic and older moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. (BVG1M: 9a)□12.11.3b:



Eucalyptus pilularis tall open forest. Other frequently occurring species include Eucalyptus microcorys, E. saligna, E. siderophloia, E. carnea, Corymbia intermedia and E. propinqua. Occurs on higher altitude (>300m) subcoastal hills and ranges of Palaeozoic and older moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. (BVG1M: 8b)

The '**RE12.11.5**' remnant type is described (in part) under provisions of the Queensland Herbarium's *Regional Ecosystem Description Database* as the following:

**Regional Ecosystem:** 12.11.5

**Vegetation Management Act** 

Class: Least concern

**Biodiversity Status:** No concern at present **Subregion:** 3, 10, 7, (1), (2), (4)

**Estimated Extent:** In September 2011, remnant extent was >

10,000 ha and >30% of the pre-clearing

area remained.

**Extent in Reserves:** High

**Short Description:** 

Corymbia citriodora subsp. variegata, Eucalyptus siderophloia, E. major open forest on metamorphics  $\pm$  interbedded volcanics.

#### **Description:**

Open forest complex in which spotted gum is a relatively common species. Canopy trees include Corymbia citriodora subsp. variegata, Eucalyptus siderophloia or E. crebra (sub coastal ranges), E. major and/or E. longirostrata and E. acmenoides or E. portuensis and/or E. carnea and/or E. eugenioides. Other species that may be present and abundant locally include Corymbia henryi, C. intermedia, C. trachyphloia, Eucalyptus tereticornis, E. propinqua, E. biturbinata, E. moluccana, E. melliodora, E. fibrosa subsp. fibrosa and Angophora leiocarpa. Lophostemon confertus often present in gullies and as a sub canopy or understorey tree. Mixed understorey of grasses, shrubs and ferns. Occurs on hills and ranges of Palaeozoic and older moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. (BVG1M: 10b)

Vegetation communities in this regional ecosystem include:

12.11.5a: Eucalyptus tindaliae, E. carnea, Corymbia intermedia woodland +/- E. crebra, Corymbia citriodora subsp. variegata, Eucalyptus major, E. helidonica, Corymbia henryi, Angophora woodsiana, C. trachyphloia (away from the coast) or E. siderophloia, E. microcorys, E. racemosa subsp. racemosa, E. propinqua (closer to the coast). Occurs on Palaeozoic and older moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. (BVG1M: 9a)

12.11.5e: Corymbia citriodora subsp. variegata woodland usually including Eucalyptus siderophloia or E. crebra (sub coastal ranges), E. propinqua and E. acmenoides or E. carnea. Other species that may be present and abundant locally include Corymbia intermedia, C. trachyphloia subsp. trachyphloia, Eucalyptus tereticornis, E. microcorys, E. portuensis, E. helidonica, E. major, E. longirostrata, E. biturbinata, E. moluccana and Angophora leiocarpa. Lophostemon confertus often present in gullies and as a sub canopy or understorey tree. Mixed



understorey of grasses, shrubs and ferns. Occurs on hills and ranges of Palaeozoic and older moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. (BVG1M: 10b)

12.11.5h: Woodland to open forest of Eucalyptus planchoniana, E. carnea and Angophora woodsiana +/- E. fibrosa subsp. fibrosa, E. racemosa subsp. racemosa, Corymbia intermedia, C. trachyphloia, E. tindaliae, E. helidonica and E. resinifera. Occurs on Palaeozoic and older moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. (BVG1M: 9a)

12.11.5j: Eucalyptus racemosa subsp. racemosa and/or E. seeana and Corymbia intermedia woodland. Other characteristic species include E. siderophloia, Angophora leiocarpa, C. trachyphloia subsp. trachyphloia and rarely E. pilularis. Melaleuca quinquenervia may be present and at times becomes locally codominant. Occurs on Palaeozoic and older moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. (BVG1M: 9a)

12.11.5k: Corymbia henryi woodland +/- Eucalyptus crebra, E. carnea, E. tindaliae, E. fibrosa subsp. fibrosa, E. siderophloia, C. citriodora subsp. variegata, Angophora leiocarpa, E. acmenoides, E. helidonica, E. propinqua, C. intermedia. Includes patches of E. dura. Occurs on drier ridges and slopes in near coastal areas on Palaeozoic and older moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. (BVG1M: 10b)

The '**RE12.11.10**' remnant type is described (in part) under provisions of the Queensland Herbarium's *Regional Ecosystem Description Database* as the following:

**Regional Ecosystem:** 12.11.10

**Vegetation Management Act** 

Class: Least concern

**Biodiversity Status:** No concern at present **Subregion:** 7, 3, 10, (5), (4)

**Estimated Extent:** In September 2011, remnant extent was >

10,000 ha and >30% of the pre-clearing

area remained.

**Extent in Reserves:** High

**Short Description:** 

Notophyll vine forest ± Araucaria cunninghamii on metamorphics ± interbedded volcanics.

#### **Description:**

Notophyll and notophyll/microphyll vine forest +/- Araucaria cunninghamii. Characteristic species include Argyrodendron trifoliolatum, Argyrodendron sp. (Kin Kin W.D.Francis AQ81198), Backhousia subargentea, Dissiliaria baloghioides, Brachychiton discolor, Beilschmiedia obtusifolia, Diospyros pentamera, Grevillea robusta, Gmelina leichhardtii and Ficus macrophylla forma macrophylla. Occurs on Palaeozoic and older moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. (BVG1M: 2a)

The '**RE12.12.15**' remnant type is described (in part) under provisions of the Queensland Herbarium's *Regional Ecosystem Description Database* as the following:



**Regional Ecosystem:** 12.12.15

**Vegetation Management Act** 

Class: Least concern

**Biodiversity Status:** No concern at present **Subregion:** 3, 5, 7, 4, (6), (1)

**Estimated Extent:** In September 2011, remnant extent was >

10,000 ha and >30% of the pre-clearing

area remained.

**Extent in Reserves:** High

**Short Description:** 

Corymbia intermedia ± Eucalyptus propinqua, E. siderophloia, E. microcorys, Lophostemon confertus open forest on Mesozoic to Proterozoic igneous rocks.

#### **Description:**

Corymbia intermedia +/- Eucalyptus propinqua, E. siderophloia, E. microcorys, Lophostemon confertus. Other canopy species include E. acmenoides, E. moluccana, Angophora subvelutina and occasional vine forest species. Patches of Eucalyptus pilularis sometimes present. Occurs on Mesozoic to Proterozoic igneous rocks. (BVG1M: 9a)

Vegetation communities in this regional ecosystem include:

12.12.15a: Eucalyptus grandis and/or E. saligna tall open forest +/- vine forest understorey. Other canopy species include E. microcorys, E. acmenoides, Lophostemon confertus, E. siderophloia, E. propinqua, Corymbia intermedia. Occurs in wet gullies on Mesozoic to Proterozoic igneous rocks. (BVG1M: 8a)

12.12.15b: Lophostemon confertus open forest +/- Eucalyptus microcorys, E. siderophloia, E. carnea and E. propinqua. Vine forest species are often present in understorey. Occurs in gullies and exposed ridges on Mesozoic to Proterozoic igneous rocks often amongst vine forest. (BVG1M: 8a)

The '**RE12.12.16**' remnant type is described (in part) under provisions of the Queensland Herbarium's *Regional Ecosystem Description Database* as the following:

**Regional Ecosystem:** 12.12.16

**Vegetation Management Act** 

Class: Least concern

**Biodiversity Status:** No concern at present **Subregion:** 7, 10, 3, 8, (5), (4)

**Estimated Extent:** In September 2011, remnant extent was >

10,000 ha and >30% of the pre-clearing

area remained.

**Extent in Reserves:** High

**Short Description:** 

Notophyll vine forest on Mesozoic to Proterozoic igneous rocks.

#### **Description:**

Notophyll vine forest. Characteristic species include Araucaria bidwillii, A. cunninghamii, Argyrodendron trifoliolatum, Argyrodendron sp. (Kin Kin W.D. Francis AQ81198), Backhousia subargentea, Brachychiton discolor, Beilschmiedia



obtusifolia, Diospyros pentamera, Grevillea robusta, Gmelina leichhardtii, Ficus macrophylla forma macrophylla and Sloanea woollsii. Eucalyptus spp. especially E. siderophloia, E. propinqua and E. grandis may be present as emergents. Occurs on Mesozoic to Proterozoic igneous rocks. (BVG1M: 2a)

Geology across the site (refer **FIGURE 3** previously) is considered to be broadly consistent with 'landzone' requirements for these remnant types, and it was confirmed during field survey (refer **SECTION 3.2.1** below) that the ecologically dominant layer (EDL) observed within the mapped vegetation types is generally reflective of cover, height and species composition requirements of 'remnant vegetation' defined under provisions of the VM Act as follows:

'Remnant vegetation...means vegetation -

- (a) that is -
  - (i) an endangered regional ecosystem; or
  - (ii) an of concern regional ecosystem; or
  - (iii) a least concern regional ecosystem; and
- (b) forming the predominant canopy of the vegetation
  - (i) covering more than 50% of the undisturbed predominant canopy; and
  - (ii) averaging more than 70% of the vegetation's undisturbed height; and
  - (iii) composed of species characteristic of the vegetation's undisturbed predominant canopy.'

It is additionally noted that the site and immediate surrounds are broadly designated on DNRMs *Vegetation Management Supporting Map* (refer **FIGURE 6** and **ATTACHMENT 10**) as partially comprising 'essential habitat' potential/records under provisions of both the VM Act and NC Act:

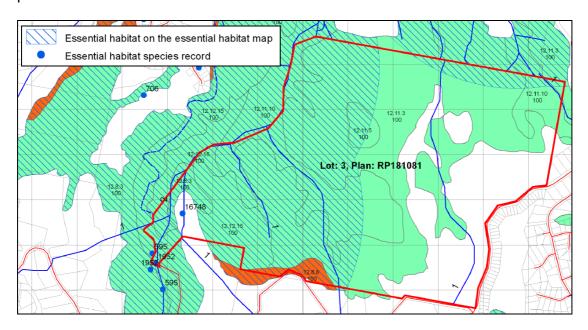


FIGURE 6: Vegetation Management Supporting Map (Source: DNRM)



Seven (7) species of threatened fauna and flora are designated on the *Vegetation Management Supporting Map* as follows:

- **595**: Cascade Treefrog (*Litoria pearsoniana*) Vulnerable
- **706**: Tusked Frog (*Adelotus brevis*) Vulnerable
- **803**: Spotted-tailed Quoll (*Dasyurus maculatus maculatus* southern subspecies) Vulnerable
- 1952: Marbled Frogmouth (Plumed Podargus ocellatus plumiferus) Vulnerable
- **2014**: Richmond Birdwing Butterfly (*Ornithoptera richmondia*) Vulnerable
- **16748**: Macadamia Nut (*Macadamia tetraphylla*) Vulnerable
- 29186: Koala (*Phascolarctos cinereus* SEQ bioregion) Vulnerable

In summary, Concurrence Agency assessment by DNRM is required due to selective clearing impacts within mapped native vegetation necessary to implement the proposed MCU.

#### 3.2 Field Survey

Field surveys were undertaken between August 2013 – January 2014 to determine the predominant vegetation and fauna values across the site.

#### 3.2.1 Vegetation

A total of 44 assessment sites (including 6 secondary, 18 tertiary and 20 quaternary sites in accordance with Neldner *et al*, 2012) were undertaken to determine the predominant structure, type and condition of vegetation communities across the subject property and presence of any significant species scheduled under provisions of the NC Act.

The site is predominantly covered by relatively intact open forest to tall open forest on metamorphosed sedimentary rocks across the higher slopes/spurs and mid-upper fringes of deeply folded gullies, with diverse structure and composition due to slope, aspect, soil depth, fire regime and land management history.

The variable composition of the canopy layer is generally dominated by Tallowwood (*Eucalyptus microcorys*), Brush Box (*Lophostemon confertus*), Small-fruited Grey Gum (*Eucalyptus propinqua*), Northern Grey Ironbark (*Eucalyptus siderophloia*) and/or Flooded Gum (*Eucalyptus grandis*). Less commonly recorded species include Broad-leaved White Mahogany (*Eucalyptus carnea*), Pink Bloodwood (*Corymbia intermedia*) and White Mahogany (*Eucalyptus acmenoides*). The canopy has a median height of 25m, a cover intercept ranging from 30 to 60% (average 50%) and is broadly analogous with the RE12.11.3 vegetation type (refer **PLATES 1 & 2** following).



The sub-canopy is dominated by Brush Box and/or other canopy species with Forest She-oak (*Allocasuarina torulosa*), Blackwood (*Acacia melanoxylon*), Hickory Wattle (*Acacia disparrima ssp. disparrima*), Bangalow Palm (*Archontophoenix cunninghamiana*) and various vine forest generalists occurring occasionally throughout. The sub-canopy has a median height of 14m and cover intercept ranging from 5 to 25%.



**PLATE 1: RE12.11.3** 

The tall shrub layer (which occasionally extends into a low tree layer) is dominated by Forest She-Oak, Hickory Wattle, Brush Box, Blackwood, Tree Daviesia (*Daviesia arborea*) and/or Native Hibiscus (*Hibiscus heterophyllus*). Other species including Bangalow Palm, Straw Treefern (*Cyathea cooper*), Wild Quince (*Guioa semiglauca*), Red Kamala (*Mallotus philippensis*), Maiden's Wattle (*Acacia maidenii*), Murrogun (*Cryptocarya microneura*), Ribbonwood (*Euroschinus falcatus var. falcatus*), Native Olive (*Olea paniculata*), Grey Myrtle (*Backhousia myrtifolia*), Tree Heath (*Trochocarpa laurina*) and/or Foambark (*Jagera pseudorhus var. pseudorhus*) also dominate the mid-stratum in some locations. These vine forest generalists were more commonly associated with higher drainage lines and protected gullies. The tall shrub layer has a median height of 5m and cover intercept ranging from 10 to 20%.

The composition of the low shrub layer is also highly variable. Commonly recorded species include Common Lantana (*Lantana camara*), juvenile upper strata species, Shining Burrawang (*Lepidozamia peroffskyana*), *Astrotricha latifolia*, Coughbush (*Cassinia subtropica*), Water Vines (*Cissus spp.*), Burny Vine (*Trophis scandens*)



subsp. scandens) and Forest Hop-bush (*Dodonaea triquetra*). The low shrub layer has a median height of 2.5m and cover intercept ranging from 5 to 80%.

The groundcover composition is also variable due to light penetration, mulch thickness and suppression by Common Lantana, as well as aspect, slope and soil moisture. Commonly encountered species include Molasses Grass (*Melinis minutiflora*), Blady Grass (*Imperata cylindrica*), Soft Bracken (*Calochlaena dubia*), Kangaroo Grass (*Themeda triandra*), Wiry Panic (*Entolasia stricta*), Crofton Weed (*Ageratina adenophora*), *Hibbertia dentata*, Hairy Panic (*Panicum effusum*) and Graceful Grass (*Ottochloa gracillima*). Other species including Gristle Fern (*Blechnum cartilagineum*), Rasp Ferns (*Doodia spp.*), Maidenhair Ferns (*Adiantum spp.*), and/or Beard Grasses (*Oplismenus spp.*) were more common within higher gullies.



**PLATE 2: RE12.11.3** 

Surrounded entirely by RE12.11.3, a restricted distribution of relatively intact woodland to open forest on metamorphosed sedimentary rocks was also observed on the steep upper slopes and crest of a gently undulated low hill/knoll at the end of a broad ridge in the northwest property extent.

The canopy layer in this area is dominated by Broad-leaved White Mahogany. Other species include Spotted Gum (*Corymbia citriodora ssp. variegata*), Northern Grey Ironbark and less commonly Small-fruited Grey Gum and Brush Box. The canopy has a median height of 20m, a cover intercept ranging from 40 to 60% (average 50%) and is broadly analogous with the RE12.11.5a vegetation type (refer **PLATE 3**).

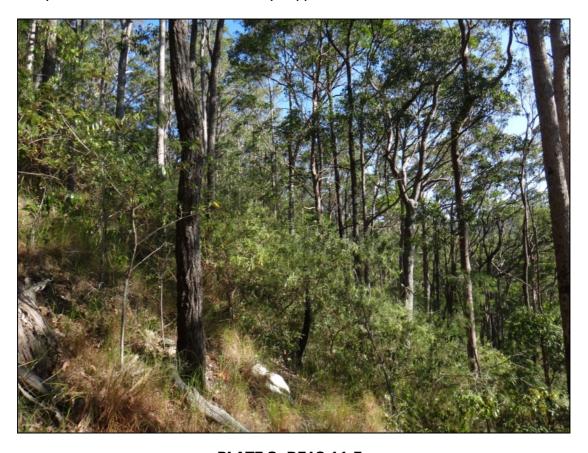


The sub-canopy is dominated by Broad-leaved White Mahogany with associated Spotted Gum, Northern Grey Ironbark and Forest She-Oak. The sub-canopy has a median height of 12m and cover intercept ranging from 5 to 10%.

The tall shrub layer is dominated by Forest She-Oak and Brush Box. Other species include juvenile canopy specimens, Hickory Wattle and Red Ash (*Alphitonia excelsa*). The tall shrub layer has a median height of 5m and cover intercept ranging from 10 to 20%.

The low shrub layer is dominated by *Astrotricha latifolia*, Red Ash and associated Coughbush, Brush Box, Forest She-Oak, Hickory Wattle, Holly-leaved Pea (*Podolobium ilicifolium*), *Glycine tabacina* and Prickly Heath (*Leucopogon juniperinus*). The low shrub layer has a median height of 2m and cover intercept ranging from 5 to 20%.

The groundcover is dominated by Kangaroo Grass with associated Wiry Panic and Blady Grass. Molasses Grass was mostly suppressed.



**PLATE 3: RE12.11.5a** 

Higher slopes fringing the central southern boundary also comprise a relatively intact tall open forest on olivine basalt dominated by Flooded Gum (*Eucalyptus grandis*). Less commonly recorded canopy species include Brush Box, Tallowwood and White Mahogany. The canopy has a median height of 30m, a cover intercept of approximately 60% and is broadly analogous with the RE12.8.8 vegetation type (refer **PLATE 4**).



The sub-canopy is dominated by Flooded Gum and Brush Box with Bangalow Palm, Blackwood and various vine forest generalists occurring infrequently. The sub-canopy has a median height of 16m and a cover intercept ranging from 10 to 20%.

The tall shrub layer is dominated by Native Hibiscus and associated Bangalow Palm, Straw Treefern, Wild Quince, Red Kamala, Maiden's Wattle and/or Creek Sandpaper Fig (*Ficus coronata*). The tall shrub layer has a median height of 5m and a cover intercept ranging from 10 to 20%.

The low shrub layer is generally dominated by Common Lantana. Other species include juvenile upper strata species, Bolwarra (*Eupomatia laurina*), Shining Burrawang and Native Ginger (*Alpinia caerulea*). The low shrub layer has a median height of 2.5m and a cover intercept ranging from 10 to 35%.

The groundcover composition is also variable due to light penetration, mulch thickness and suppression by Common Lantana. Commonly encountered species include Soft Bracken, Gristle Fern, Rasp Ferns, Graceful Grass, Crofton Weed, *Hibbertia dentata* and/or Native Raspberry (*Rubus rosifolius*).



**PLATE 4: RE12.8.8** 

Conversely, the mid-lower slopes and deeply-incised gullies draining into and including/along the majority of the Guanaba Creek fringe are dominated by relatively intact complex notophyll vine forest on metamorphosed sedimentary rocks and interbedded volcanics.



The canopy layer is dominated by Murrarie (*Pseudoweinmannia lachnocarpa*), Hoop Pine (*Araucaria cunninghamii*) and/or Hauer (*Dissiliaria baloghioides*). Other commonly recorded species include Premna (*Vitex lignum-vitae*), Native Olive, Tulipwood (*Harpullia pendula*), Figs (*Ficus spp.*), White Booyong (*Argyrodendron trifoliatum*), Water Vines (*Tetrastigma nitens, Cissus spp.*) and Zig-Zag Vine (*Melodorum leichhardtii*). The canopy has a median height of 28m, a cover intercept ranging from 20 to 60% (average 40%) and is broadly analogous with the RE12.11.10 vegetation type (refer **PLATES 5 & 6**).

The sub-canopy is dominated by juvenile canopy species, Scrub Bloodwood (*Baloghia inophylla*), Bosistoa (*Bosistoa pentacocca*), Yellow Tulip (*Drypetes deplanchei*), Union Nut (*Bouchardatia neurococca*), Red Kamala, Myrtle Ebony (*Diospyros pentamera*), Yellow Pear Fruit (*Mischocarpus pyriformis*) and White Booyong. The sub-canopy has a median height of 15m and cover intercept ranging from 20 to 60%.



**PLATE 5: RE12.11.10** 

The tall shrub layer (which occasionally extends into a low tree layer) is dominated by juvenile upper strata species, particularly Union Nut, and associated Coogera (Arytera divaricata, A. distylis), Cleistanthus (Cleistanthus cunninghamii), Thickleaved Croton (Croton acronychioides), Lawyer Cane (Calamus muelleri), Hairy Alectryon (Alectryon tomentosus), Hodgkinsonia (Hodgkinsonia ovatiflora), Yellow Laurel (Cryptocarya bidwillii) and Canary Beech (Polyalthia nitidissima). The tall shrub layer has a median height of 6m and cover intercept ranging from 10 to 40%.



The low shrub layer is dominated by Cleistanthus and/or Fissistigma (*Meiogyne stenopetala*). Other common species include Hedraianthera (*Hedraianthera porphyropetala*), Glossy Laurel (*Cryptocarya laevigata*), Yellow Laurel, Narrow-leaved Gardenia (*Atractocarpus chartaceus*) and juvenile upper strata species. The low shrub layer has a median height of 2m and cover intercept ranging from <5 to 30%.

The groundcover composition is also variable due to light penetration, slope and soil depth. Common species include Rasp Ferns, Maidenhair Ferns, Sickle Ferns (*Pellaea spp.*), Shield Ferns (*Lastreopsis spp.*), *Asplenium attenuatum*, various vines, juvenile shrub species, Beard Grasses, *Carex brunnea* and *Exocarya scleroides*.



**PLATE 6: RE12.11.10** 

A relatively intact complex notophyll vine forest was also observed higher up Guanaba Creek towards Guanaba Gorge due to a change in geology to colluvial basalt. The canopy layer in this area is dominated by Murrarie and Native Olive. Other commonly recorded species include Hoop Pine, Moreton Bay Fig (*Ficus macrophylla*), White Booyong, Water Vines, Zig Zag Vine, Premna, Ribbonwood and Blue Quandong (*Elaeocarpus grandis*). The canopy has a median height of 26m, a cover intercept ranging from 40 to 50% and is broadly analogous with the RE12.8.3 vegetation type (refer **PLATE 7**).

The sub-canopy is dominated by Myrtle Ebony and associated Rough-leaved Elm (*Aphananthe philippinensis*), Scrub Bloodwood, juvenile canopy species, Green Tamarind (*Elattostachys nervosa*), Red Kamala and Bangalow Palm. The sub-canopy has a median height of 14m and cover intercept ranging from 20 to 40%.



The tall shrub layer is dominated by juvenile upper strata species and associated Coogera, Blunt-leaved Steelwood (*Toechima tenax*), Wild Quince, Penta's Ash (*Pentaceras australe*), Hairy Alectryon and Corduroy Tamarind (*Sarcopteryx stipata*). The tall shrub layer has a median height of 6m and cover intercept ranging from 10 to 15%.

The low shrub layer is dominated by Cleistanthus and Fissistigma. Other commonly encountered species included Hedraianthera, Actephila (*Actephila lindleyi*), Lawyer Cane, Narrow-leaved Gardenia, Klunkerberry (*Carissa ovata*), Orange Thorn (*Pittosporum multiflorum*), Yellow Laurel and Large-leaved Palm Lily (*Cordyline petiolaris*). The low shrub layer has a median height of 2.5m and cover intercept ranging from 10 to 35%.

The groundcover composition is also variable due to light penetration and competition from upper strata species. Commonly recorded species include Rasp Ferns, Rainforest Mat-rush (*Lomandra spicata*), juvenile upper strata species particularly vines, Shield Ferns and Ground Ferns (*Hypolepis spp.*).



**PLATE 7: RE12.8.3** 

Higher up Guanaba Creek again, a relatively intact complex notophyll vine forest on rhyolite is situated directly at the base of Guanaba Gorge. This community is primarily associated with the channel and immediate terraces of Guanaba Creek below the main waterfall and slopes of Guanaba Gorge.



The canopy layer is dominated by Murrarie. Other commonly recorded species include Hoop Pine, Moreton Bay Fig, White Booyong, Churnwood (*Citronella moorei*) and Yellow Carabeen (*Sloanea woollsii*). The canopy has a median height of 26m, a cover intercept ranging from 15 to 30% and is broadly analogous with the RE12.12.16 vegetation type (refer **PLATE 8**).

The sub-canopy is dominated by Bangalow Palm and associated Water Vines, juvenile canopy species, Scrub Bloodwood, Tulipwood, Zig-zag Vine, Native Olive, Rough-leaved Elm, Premna, Brush Cherry (*Syzygium australe*), Burny Vine and Queensland Greenheart (*Endiandra compressa*). The sub-canopy has a median height of 16m and cover intercept ranging from 50 to 60%.

The tall shrub layer is dominated by juvenile upper strata species and associated Coogera, Yellow Tulip and Union Nut. The tall shrub layer has a median height of 7m and cover intercept ranging from 10 to 20%.

The low shrub layer is dominated by Cleistanthus. Other common species include Hedraianthera, Fissistigma, Yellow Laurel, Snowwood (*Pararchidendron pruinosum*), Actephila and Buff Hazelwood (*Symplocos thwaitesii*). The low shrub layer has a median height of 3m and cover intercept ranging from <5 to 15%.

The groundcover composition is also variable due to light penetration, slope, soil depth and exposure to high velocity flows. Commonly encountered species include Rasp Ferns, Maidenhair Ferns, Sickle Ferns (*Pellaea spp.*), Shield Ferns, Native Spinach (*Elatostema spp.*), Binung (*Christella dentata*) and *Asplenium attenuatum*.



**PLATE 8: RE12.12.16** 



Further, a restricted but relatively intact (albeit stunted) woodland on rhyolite was also observed on the cliff faces flanking the western side of Guanaba Gorge waterfall in the southwestern property extent. Due to access limitations this community was surveyed from the gorge floor using binoculars.

The canopy layer is dominated by White Mahogany with associated Pink Bloodwood and Broad-leaved White Mahogany. The canopy has a median height of 12m, a cover intercept of 25% and is broadly analogous with the RE12.12.15 vegetation type (refer **PLATE 9**).

The shrub layer is dominated by juvenile canopy species with associated Maiden's Wattle, Forest She-Oak, Pointed-leaved Hovea (*Hovea acutifolia*) and Brush Box. Other species include juvenile canopy species, Hickory Wattle and Red Ash. The shrub layer has a median height of 5m and cover intercept ranging from 5 to 15%.

The groundcover is dominated by Mat-rushes (*Lomandra spp.*), Wiry Panic, Kangaroo Grass, Crofton Weed, Mistflower (*Ageratina riparia*) and Basket Fern (*Drynaria rigidula*).

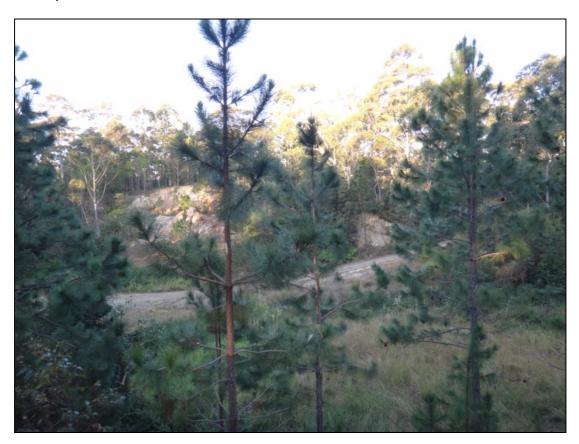


**PLATE 9: RE12.12.15** 

Balance areas containing disturbed/non-remnant vegetation are predominantly situated within the higher south-eastern and lower south-western property extents of the site due to historical clearing associated with previous landuses/management (refer **PLATE 10**).



These areas have become heavily infested with exotic flora species, particularly Common Lantana, Crofton Weed and Broad-leaved Paspalum (*Paspalum mandiocanum*). Other commonly encountered species included Blue Billygoat Weed (*Ageratum houstonianum*), Slash Pine (*Pinus elliottii*), Cobbler's Pegs (*Bidens pilosa*) and White Glycine (*Neonotonia wightii*). Woody native vegetation was generally limited to fragmented distributions of Blackwood, Flooded Gum, Ribbonwood and/or Hickory Wattle.



**PLATE 10: Disturbed/Non-remnant Vegetation** 

In summary, subject to some site-specific variation in spatial extent on-ground, the observed vegetation communities described above are broadly commensurate with the designated remnant types identified within **SECTION 3.1** previously. Of additional note, eight (8) species of threatened flora scheduled under provisions of the NC Act (a selection of which are also administered separately under the federal *Environment Protection and Conservation Act 1999* – 'EPBC Act') were identified/ observed on the site as follows:

#### **Identified/Observed Significant Flora Species**

| <b>Botanical Name</b> | Common Name           | NCA92           | EPBCA99    |
|-----------------------|-----------------------|-----------------|------------|
| Baloghia marmorata    | Jointed Baloghia      | Vulnerable      | Vulnerable |
| Bosistoa transversa   | Three-veined Bosistoa | Least Concern   | Vulnerable |
| Cupaniopsis newmanii  | Long-leaved Tuckeroo  | Near-threatened | -          |
| Jasminum jenniae      | Jenny's Jasmine       | Vulnerable      | Vulnerable |



| <b>Botanical Name</b>      | Common Name            | NCA92           | EPBCA99    |
|----------------------------|------------------------|-----------------|------------|
| Macadamia integrifolia     | Queensland Nut         | Vulnerable      | Vulnerable |
| Macadamia tetraphylla      | Macadamia Nut          | Vulnerable      | Vulnerable |
| Pararistolochia praevenosa | Richmond Birdwing Vine | Near-threatened | -          |
| Pouteria eerwah            | Small-leaved Coondoo   | Endangered      | Endangered |

Macadamia Nut and Jointed Baloghia were frequently encountered within RE12.8.3 and RE12.11.10. Jenny's Jasmine was occasionally recorded in a number of rocky gullies within RE12.11.10 in the north-east and central property extents. Long-leaved Tuckeroo was frequently encountered in a number of habitats (RE12.8.3, RE12.8.8, RE12.11.3, RE12.11.10 and RE12.12.16). Queensland Nut, Richmond Birdwing Vine, Three-veined Bosistoa and Small-leaved Coondoo were infrequently recorded in RE12.8.3 and RE12.11.10 in the south-western portion of the Study Area.

Given the subregional *Wildlife Online* data (refer **ATTACHMENT 11**) and type/condition of identified vegetation types (in particular RE12.8.3/RE12.11.10/RE12.12.16 and steep/protected gullies of RE12.8.8/RE12.11.3), it is considered that there is also reasonable potential for additional significant flora species on the site.

Further, three (3) of the identified vegetation communities (RE12.8.3/RE12.11.10/RE12.12.16) also satisfy the key diagnostic characteristics of *Lowland Rainforest of Subtropical Australia* (TSSC, 2011ba/2011be) which is scheduled as a 'Critically Endangered' threatened ecological community administered separately under provisions of the EPBC Act.

#### 3.2.2 Fauna Habitat

A broad survey of available fauna habitat components identified the following values across the site:

- Permanent/Ephemeral Water provide both a refuge and forage base primarily for waterfowl and amphibians. Woody riparian vegetation provides insect-producing habitat/forage base for insectivorous birds and flying mammals. Vegetated waterways also function as fauna dispersal conduits. Guanaba Creek comprises flowing water which is also fed by ephemeral gullies on the site.
- Hollow-bearing Trees provide refuge primarily for arboreal mammals and birds; usually within post-mature canopy trees. A number of stags and hollows with refuge-potential were noted across the site.
- **Flowering Trees** provide a forage base primarily for nectivorous birds and arboreal/flying mammals; usually associated with sclerophyllous/heathland vegetation. Native flora species observed generally across mid-upper portions of the site provide a source of seasonal nectar.
- Fruiting Trees provide a forage base for frugivorous birds and arboreal/ flying mammals; usually associated with rainforest/riparian environs. Native flora species observed generally across mid-lower portions of the site provide a source of seasonal fruit.



- Stick Nests refuge/nesting habitat generally associated with avifauna; usually within canopy trees. A number of prominent stick nests were observed across the site.
- **Termite Mounds** provide refuge for a variety of either terrestrial or arboreal species; usually within sclerophyllous environs. A number of arboreal termite mounds (with openings) were noted across the site.
- Dense Understorey/Ground Layers provide cover for dispersal/refuge of smaller terrestrial mammals; usually associated with intact sclerophyllous/ riparian vegetation. The understorey/ground layer values are reasonably intact across majority of the site (albeit subject to some variable weed disturbance).
- Outcrops/Cliffs/Caves provide refuge for a variety of species; usually associated with steep topography and variation in geological formations. Outcrops/cliffs are present on the site but no significant caves were noted.
- Rocky Substrate/Debris provide thermal environs for reptiles; usually associated with bedrock, bush rock/river rock deposits and fallen timber/litter. Exposed and/or loose rocky substrates were observed particularly proximate to waterways while variable debris types were common across the site.
- Contiguous Vegetation established native bushland provides dispersal conduits for fauna between core habitats across the broader landscape. The identified native vegetation types are contiguous with adjacent/broader bushland remnants predominantly to the north and southwest.

Based on the available components and connectivity with adjacent bushland remnants it is considered that fauna habitat value across the majority of the site is **Moderate-High** overall.

In this regard the site would likely support a moderate variety and abundance of ground-dwelling/arboreal/flying mammals common to the sub-coastal hills. Further, *Wildlife Online* data (refer **ATTACHMENT 11**) also indicates that four (4) species of threatened mammal have been previously recorded within the subregion (5-kilometre radius of the site). These species, their conservation status and habitat requirements (van Dyck & Strahan, 2008) are as follows:

- Spotted-tailed Quoll (southern subspecies Dasyurus maculatus maculatus)

   scheduled as Vulnerable under NCA92 and Endangered under EPBCA99.

   Prefers a variety of vegetated habitats for refuge including wet/dry sclerophyll, woodlands, rainforest and vine thickets. Forages primarily on medium-sized mammals but also on reptiles, birds, carrion and arthropods.
- **Koala** (SEQ bioregion *Phascolarctos cinereus*) scheduled as Vulnerable under both NCA92 and EPBCA99. Prefers sclerophyllous vegetation of varied composition and structure comprising, among other Myrtaceous species, Forest Red Gum (*Eucalyptus tereticornis*), Tallowwood (*E. microcorys*), Grey Gum (*E. propinqua*), Swamp Mahogany (*E. robusta*) and Scribbly Gum (*E. racemosa*) for foraging/refuge.



- Long-nosed Potoroo (Potorous tridacty/us tridacty/us) scheduled as Vulnerable under both NCA92 and EPBCA99. Prefers heathland/sclerophyllous vegetation where groundcover is dense and soils are light/sandy. Forages on insects, fungi and fruits/seeds. Seldom traverses open areas.
- Grey-headed Flying-fox (Pteropus poliocephalus) scheduled as Vulnerable under EPBCA99. Prefers dense riparian vegetation for roosting and forages on nectar, fruits and leaves.

Given the available habitat components, connectivity with adjacent bushland and previous recordings within the subregion, it was determined that the site could potentially provide habitat value for the Spotted-tailed Quoll, Koala and Grey-headed Flying-fox. The Koala was observed on the site via infra-red motion-sensing camera in the northwestern property extent, however a targeted search (i.e. direct observation, amplified call-playback/recognition, carrion, fresh guano/roosts) revealed no presence of the Spotted-tailed Quoll or Grey-headed Flying-fox at time of survey.

The site would also likely support a moderate-high variety and abundance of birds (principally nectivores, insectivores, frugivores, raptors and edge-specialist species but sporadic waders/waterfowl) common to the sub-coastal hills. Further, a review of *Wildlife Online* data (refer **ATTACHMENT 11**) indicates that ten (10) threatened species of bird have been previously recorded within the subregion (5-kilometre radius of the site). These species, their conservation status and habitat requirements (Pizzey & Knight, 2007) are as follows:

- Grey Goshawk (Accipiter novaehollandiae) scheduled as Near-Threatened under NCA92. Prefers rainforest/sclerophyll forests, vegetated gullies, woodlands and timbered watercourses.
- Glossy Black-cockatoo (Calyptorhynchus lathami) scheduled as Vulnerable under NCA92. Prefers sclerophyllous/woodland vegetation and timbered waterways where hollow-bearing trees and Sheoaks (particularly Allocasuarina spp.) are abundant.
- Black-necked Stork (Ephippiorhynchus asiaticus) scheduled as Near-Threatened under NCA92. Prefers wetlands in coastal areas i.e. mangroves, tidal swamps/mudflats and floodplains.
- Red-browed Tree Creeper (Climacteris erythrops) scheduled as Near-Threatened under NCA92. Prefers tall eucalypt forests where hilly terrain merges with rainforested gullies down to sea level.
- Albert's Lyrebird (*Menura alberti*) scheduled as Near-threatened under NCA92. Prefers dense subtropical rainforest/scrub.
- **Plumed Frogmouth** (*Podargus ocellatus plumiferus*) scheduled as Vulnerable under NCA92. Prefers closed subtropical rainforest below ~700m.
- Lewin's Rail (Lewinia pectoralis) scheduled as Near-Threatened under NCA92. Prefers woodland swamps/waterways containing rushes, reeds and grasses. Less commonly wet heathland and saltmarsh.



- Powerful Owl (Ninox strenua) scheduled as Vulnerable under NCA92.
   Prefers coastal forests/woodlands and mountain forests/gullies where significant tree-hollows provide nesting sites and mammalian prey is abundant.
- Black-breasted Button-quail (Turnix melanogaster) scheduled as Vulnerable under both NCA92 and EPBCA99. Prefers leaf litter within dry rainforest/vine thickets. Also Eucalypt woodland containing sheoaks/brushbox/wattle and rainforest fringes.
- **Sooty Owl** (*Tyto tenebricosa tenebricosa*) scheduled as Near-Threatened under NCA92. Prefers tall/wetter forest types in sheltered mountain gullies particularly where the understorey is dense.

Given the available habitat components, connectivity with adjacent bushland and previous recordings within the subregion, it was determined that the site could potentially provide habitat value for the Grey Goshawk, Glossy Black-cockatoo, Redbrowed Tree Creeper, Albert's Lyrebird, Plumed Frogmouth, Powerful Owl, Blackbreasted Button-quail and Sooty Owl. Albert's Lyrebird was observed on the site via infra-red motion-sensing camera in the northwestern property extent, however a targeted search (i.e. direct observation, amplified call-playback/recognition, conechewings/carrion) revealed no presence of any other significant species at time of survey.

The site would also likely support a moderate variety and abundance of ground/tree frogs (but sporadic sedge species) common to the sub-coastal hills. Further, a review of *Wildlife Online* data (refer **ATTACHMENT 11**) indicates that three (3) threatened amphibian species have been previously recorded within the subregion (5-kilometre radius of the site). These species, their conservation status and habitat requirements (Robinson, 2007) are as follows:

- Cascade Treefrog (Litoria pearsoniana) scheduled as Vulnerable under NCA92. Prefers rainforest gullies with flowing rocky creeks/streams.
- **Whirring Treefrog** (*Litoria revelata*) scheduled as Near-threatened under NCA92. Prefers waterways in wet/dry sclerophyll forest and coastal swamps.
- Tusked Frog (Adelotus brevis) scheduled as Vulnerable under NCA92.
   Prefers vegetated fringes of waterways within rainforest/wet sclerophyll environs.

Given the available habitat components, connectivity with adjacent waterways and previous recordings within the subregion, it was determined that the site could potentially provide habitat value for these species. The Cascade Treefrog and Tusked Frog were both observed on the site via call recognition/spotlighting in the western property extent, however a targeted search (i.e. direct observation, amplified call-playback) revealed no presence at of the Whirring Treefrog at time of survey.

The site would also likely support a moderate variety and abundance of terrestrial/ arboreal/aquatic reptiles common to the sub-coastal hills. Further, a review of *Wildlife Online* data (refer **ATTACHMENT 11**) indicates that two (2) threatened amphibian species have been previously recorded within the subregion (5-kilometre



radius of the site). These species, their conservation status and habitat requirements (Swanson, 2007) are as follows:

- Common Death Adder (Acanthophis antarcticus) scheduled as Nearthreatened under NCA92. Prefers leaf-litter in rainforest, wet/dry sclerophyll, humid/dry woodland or dry shrubland/grassland environs.
- Three-toed Snake-tooth Skink (*Coeranoscincus reticulatus*) scheduled as Near-threatened under NCA92 and Vulnerable under EPBCA99. Prefers wet sclerophyll/rainforest environs, nocturnally active particularly after rain.

Given the available habitat components, connectivity with adjacent bushland and previous recordings within the subregion, it was determined that the site could potentially provide habitat value for these species however a targeted search (i.e. direct observation, rock/debris-exposure) revealed no presence at time of survey.

Whilst invertebrates are arguably beyond the scope of this investigation, it is nonetheless considered that the Richmond Birdwing Butterfly (*Ornithoptera richmondia* – scheduled as Vulnerable under NCA92) is also a potential occurrence on the site given the presence of *Pararistolochia praevenosa* within identified RE12.8.3 and RE12.11.10, however no confirmed observations were made at time of survey.

#### 3.3 Statutory Compliance

#### 3.3.1 Relevant Purpose

The relevant purpose under s22A(2) of the VM Act to which selective clearing of native vegetation the subject of the current development proposal relates is as follows:

(d) for relevant infrastructure activities and the clearing can not reasonably be avoided or minimised.

In determining the extent of disturbance to native vegetation required for implementation of the proposal, development impacts have been overlayed across the mapped remnant boundaries on a *Property Vegetation Management Plan* (refer **ATTACHMENT 12**). For reference purposes, seven (7) points visible on the image base that correspond with identifiable fixed features are as follows:

#### **GPS Point Summary**

| Position Format: UTM/UPS, Map Datum: WGS84 (GDA94), Zone: 56J |                 |                              |  |  |
|---|-----------------|------------------------------|--|--|
| Plan Reference  | Coordinates     | Description                  |  |  |
| 1   | 520204, 6908360 | Change in Boundary Alignment |  |  |
| 2   | 521702, 6908150 | Change in Boundary Alignment |  |  |
| 3   | 521599, 6907580 | Change in Boundary Alignment |  |  |
| 4   | 521206, 6906900 | Change in Boundary Alignment |  |  |
| 5   | 519903, 6907110 | Change in Boundary Alignment |  |  |
| 6   | 519372, 6907320 | Change in Boundary Alignment |  |  |
| 7   | 519756, 6907810 | Change in Boundary Alignment |  |  |



#### 3.3.2 State Development Assessment Provisions (v1.2)

Based on particulars of the site/development proposal, it has been determined that clearing as a result of the Material Change of Use must be assessed against performance requirements of 'Table 8.1.3: General' of *Module 8: Native Vegetation Clearing (Queensland Vegetation Management State Code)* under the State Development Assessment Provisions as follows:

**TABLE 8.1.3: General** 

#### **Performance Outcomes Solution/Compliance Response** PO1 Clearing only occurs where the Complies. Development design has sited applicant has demonstrated that the the majority of proposed impacts within development has first avoided, and then existing areas of mapped non-remnant minimised the impacts of development. Relevant impacts within vegetation. mapped remnant vegetation have been reasonably minimised and will appropriately implemented in accordance with consultant's documentation/plans (inclusive of architectural design, trail/ zipline/bridge layout, civil earthworks/ stormwater treatment, wastewater disposal and bushfire management). Mapped remnant vegetation will be predominantly retained in situ. **PO2** Clearing in an area that is subject Complies. The designated title to any of the following: constraints are not known to apply to the subject property. (1) a restoration notice, or (2) a compliance notice containing conditions about the restoration of vegetation, or (3) a Land Act notice, or (4) a trespass notice if the trespass related act under the Land Act 1994 for the notice is the clearing of vegetation on the relevant land, or (5) an enforcement notice under the Sustainable Planning Act 2009 issued for a vegetation clearing offence, or (6) exchange area, or (7) an environmental offset must not be inconsistent with the notice, or impact on the exchange area unless a better environmental outcome can be achieved, or inconsistent with the environmental offset or another agreement related to the environmental offset.



**PO3** Clearing as a result of the material change of use or reconfiguration of a lot will not occur.

**PO4** All clearing is limited to clearing that could be done under an exemption for the purpose of the development (as prescribed under Schedule 24, Parts 1 and 2 of the Sustainable Planning Regulation 2009) prior to the material change of use application being approved.

N/A. Clearing as a result of the proposed MCU is for a relevant purpose consistent with s22A(2)(d) of the VM Act.

N/A. Clearing as a result of the proposed MCU is for a relevant purpose consistent with s22A(2)(d) of the VM Act.

Further, based on particulars of the site/development proposal, it has also been determined that clearing as a result of the Material Change of Use must be assessed against performance requirements of 'Table 8.1.4: Public Safety, Relevant Infrastructure and Coordinated Projects' of *Module 8: Native Vegetation Clearing (Queensland Vegetation Management State Code)* under the State Development Assessment Provisions as follows:

## TABLE 8.1.4: Public Safety, Relevant Infrastructure and Coordinated Projects

#### **Performance Outcomes**

## **PO1** Clearing is limited to the extent that is necessary:

- (1) for establishing a necessary fence, firebreak, road or vehicular track, or for constructing necessary built infrastructure, if there is no suitable alternative site for the fence, firebreak, road, track or infrastructure (relevant infrastructure), or
- (2) as a natural and ordinary consequence of other assessable development for which a development approval as defined under the repealed *Integrated Planning Act 1997* was given, or a development application as defined under that Act was made, before 16 May 2003, or
- (3) to ensure public safety, or
- (4) for a coordinated project and any associated ancillary works—other than a coordinated project that involves high value agriculture clearing, or irrigated high value agriculture clearing.

#### **Solution/Compliance Response**

Complies. Development design has sited the majority of proposed impacts within existing areas of mapped non-remnant vegetation. Relevant impacts within mapped remnant vegetation have been reasonably minimised and will appropriately implemented in accordance with consultant's documentation/plans (inclusive of architectural design, trail/ zipline/bridge layout, civil earthworks/ stormwater treatment, wastewater disposal and bushfire management). Mapped remnant vegetation will be predominantly retained in situ.



**PO2** Maintain the current extent of vegetation associated with any natural wetland to protect:

- (1) water quality by filtering sediments, nutrients and other pollutants
- (2) aquatic habitat
- (3) terrestrial habitat.

**PO3** Maintain the current extent of vegetation associated with any watercourse to protect:

- (1) bank stability by protecting against bank erosion
- (2) water quality by filtering sediments, nutrients and other pollutants
- (3) aquatic habitat
- (4) terrestrial habitat.

**PO4** In consideration of vegetation on the subject lot(s) and in the landscape adjacent to the subject lot(s), vegetation is retained that:

- (1) is of sufficient size and configured in a way that maintains ecosystem functioning
- (2) remains in the landscape despite threatening processes.

**PO5** In consideration of vegetation on the subject lot(s) and in the landscape adjacent to the subject lot(s), vegetation is retained that:

(1) is of sufficient size and configured in

N/A. The subject property does not comprise any natural wetlands therefore proposed clearing will not impact any associated water quality, aquatic habitat or terrestrial habitat values.

Complies. Clearing associated with the proposed MCU (inclusive of architectural design, trail/zipline/bridge layout, civil earthworks/stormwater treatment, wastewater disposal and bushfire management) is predominantly >10m from the defining bank of stream-order 1 or 2 watercourses via development potentially design such that any significant impacts to bank stability, water quality, aquatic habitat terrestrial habitat will be reasonably minimised. Runoff will also be treated on site in accordance with the submitted Stormwater Management Plan/Sediment and Erosion Control Plan and sustainable track/trail design principles (including gully crossing precedents) are also within Stormwater proposed the Management Plan. Further, bridge/zipline structures will be suspended above the larger gullies.

Complies. Clearing associated with the proposed MCU (inclusive of architectural design, trail/zipline/bridge layout, civil earthworks/stormwater treatment, bushfire wastewater disposal and been reasonably management) has minimised and sited such that mapped remnant vegetation will predominantly retained in situ therefore vegetation will be retained that is of sufficient size and configured in a way that maintains ecosystem function and also remains in the landscape despite threatening processes.

N/A. Clearing associated with the proposed MCU is not defined as a `coordinated project'.



- a way that maintains ecosystem functioning
- (2) remains in the landscape despite threatening processes

or where this is not reasonably possible, maintain the current extent of vegetation.

**PO6** Clearing does not result in:

- (1) mass movement, gully erosion, rill erosion, sheet erosion, tunnel erosion, stream bank erosion, wind erosion, or scalding
- (2) any associated loss of chemical, physical or biological fertility including, but not limited to water holding capacity, soil structure, organic matter, soil biology, and nutrients

within or outside the lot(s) that are the subject of the application.

**PO7** Clearing does not contribute to land degradation through:

- (1) waterlogging, or
- (2) the salinisation of groundwater, surface water or soil.

**PO8** Maintain the current extent of endangered regional ecosystems and of concern regional ecosystems.

**PO9** Maintain the current extent of essential habitat.

**PO10** Clearing activities do not result in disturbance of acid sulfate soils or changes to the hydrology of the location that will either:

- (1) aerate horizons containing iron sulfides, or
- (2) mobilise acid or metals.

Complies. Runoff will be treated on site in accordance with the submitted Stormwater Management Plan/Sediment and Erosion Control Plan and sustainable track/trail design principles (including gully crossing precedents) are proposed within the Stormwater Management Plan such that land degradation will be reasonably minimised both within and/or outside the subject allotment.

Complies. Clearing associated with the proposed MCU does not occur in or within 200 metres of a known discharge area or recharge area.

Complies. Clearing associated with the proposed MCU does not occur within any mapped 'endangered' regional ecosystem types. Further, clearing associated with the proposed MCU will not reduce the extent of the mapped 'of concern' regional ecosystem (RE12.8.8).

Complies. Clearing associated with the proposed MCU has been reasonably minimised within the mapped extent of 'essential habitat' in general accordance with widths/areas prescribed within Table 1 of SDAP Module 8.

Complies. Clearing associated with the proposed MCU does not occur within Landzones 1, 2 or 3 nor in any areas below 5 metres AHD.



### 4.0 Vegetation Impact Summary/Conclusion

A Development Application for 'Material Change of Use (MCU)' is proposed for creation of a Mountainbike/Zipline Facility with associated Outdoor Activities Infrastructure on land situated at 98 Guanaba Road, Tamborine Mountain (Lot 3 RP181081).

The proposed development plans (refer **ATTACHMENTS 1 – 8**) indicate that native vegetation will be selectively impacted on the site for implementation of the development proposal as depicted by the *Property Vegetation Management Plan* (refer **ATTACHMENT 12**).

Notwithstanding, it has been determined that proposed development impacts have maximised the use of existing areas of disturbance to the greatest practical extent, whilst also minimising impacts within native vegetation and maintaining connectivity/ ecosystem function across the broader landscape.

In this regard it is therefore considered that the proposal is compliant with performance outcomes stipulated under the relevant criteria tables of the *Queensland Vegetation Management State Code*.

DNRMs favourable consideration of the development proposal, subject to reasonable and relevant conditions in accordance with provisions of the *Sustainable Planning Act 2009*, is respectfully requested.



## 5.0 Vegetation Recommendations

To ensure sustainable development objectives under the VM Act are satisfactorily achieved, the following measures are recommended:

- No clearing of mapped remnant vegetation is permitted on the site without prior DNRM consent.
- All works associated with the proposed landuse are to be limited to the approved area(s) with the exception of final track/trail positions which can be reasonably 'meandered' from the designated locations to minimise impacts to T1/fauna habitat trees and/or avoid any other significant environmental/ geological features under supervision of an ecologist.
- Proposed bridges, ziplines and camping/picnic areas are to be managed such that potential impacts to waterways and associated vegetation/habitat are appropriately minimised and/or avoided.
- Any habitat trees to be unavoidably removed from the site are to be inspected by a QPWS-recognised spotter-catcher immediately prior to felling.
- Loss of any habitat trees from the site is to be offset via supply and installation of fauna nest boxes at a ratio of 1:1 within retained bushland on the site.
- All vegetative material resulting from clearing works is to be disposed of via mulching/stockpiling for use within any site rehabilitation works, cut/split for on-site firewood, milled for on-site fencing and/or removal of any excess material to a green-waste facility.



#### **6.0 Attachments List**

- **ATTACHMENT 1** Proposed Site Plans
- **ATTACHMENT 2** Proposed Architectural Plans
- **ATTACHMENT 3** Proposed Mountain Bike Trails and Zipline Course Plans
- **ATTACHMENT 4** Proposed Stormwater Management Plan
- **ATTACHMENT 5** Proposed Surface Levels/Cross Sections Plans
- **ATTACHMENT 6** Proposed Sediment and Erosion Control Plan
- **ATTACHMENT 7** Proposed Wastewater Layout/Detail Plan
- **ATTACHMENT 8** Proposed Bushfire Management Plans
- **ATTACHMENT 9** Aerial Image
- **ATTACHMENT 10** Certified Regulated Vegetation Management/Supporting Maps
- **ATTACHMENT 11** Wildlife Online Extract
- **ATTACHMENT 12** Property Vegetation Management Plan



### 7.0 Bibliography

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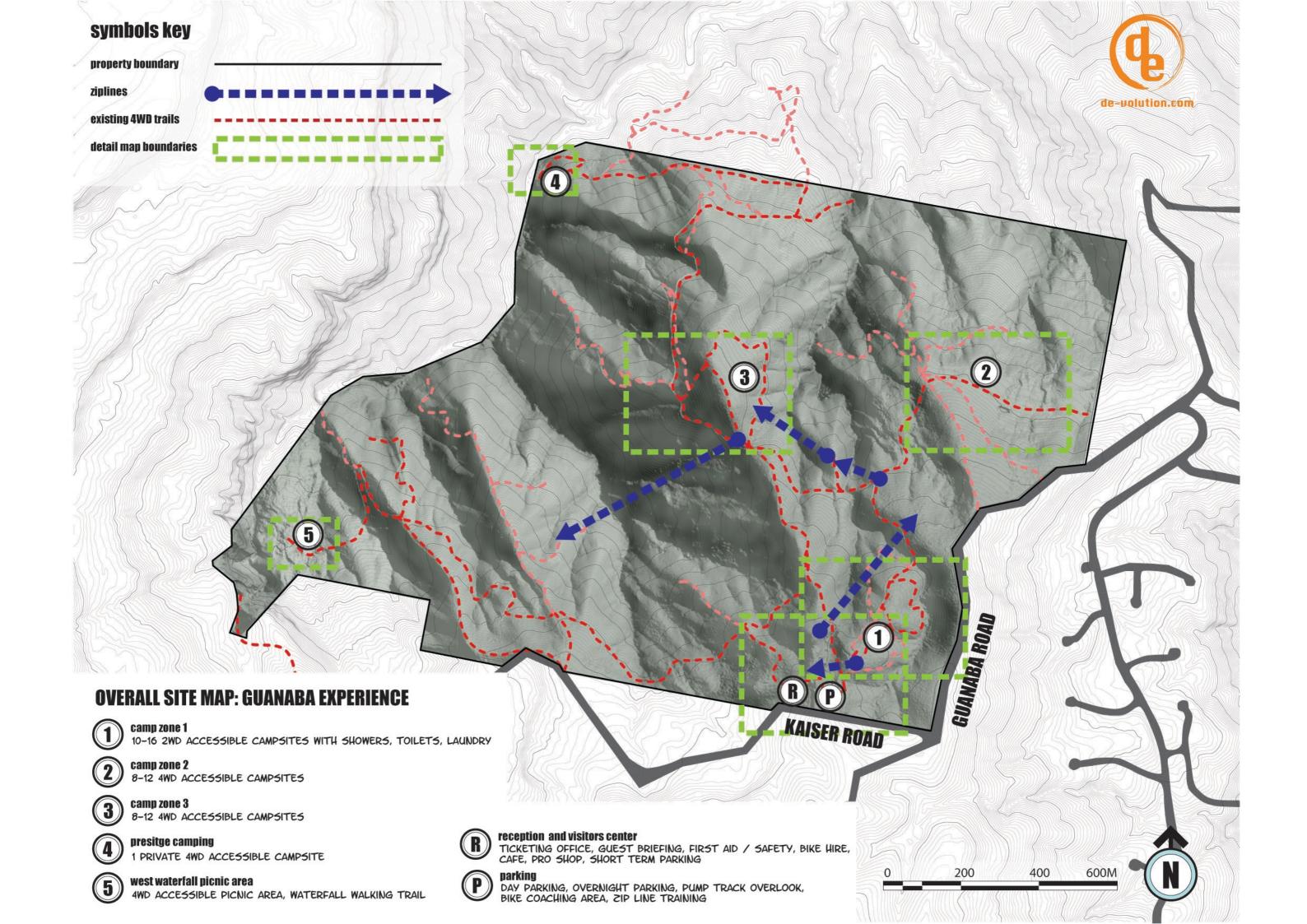
Van Dyck, S. and Strahan, R. (eds) (2008). *The Mammals of Australia (3<sup>rd</sup> ed)*. Reed New Holland, Sydney.

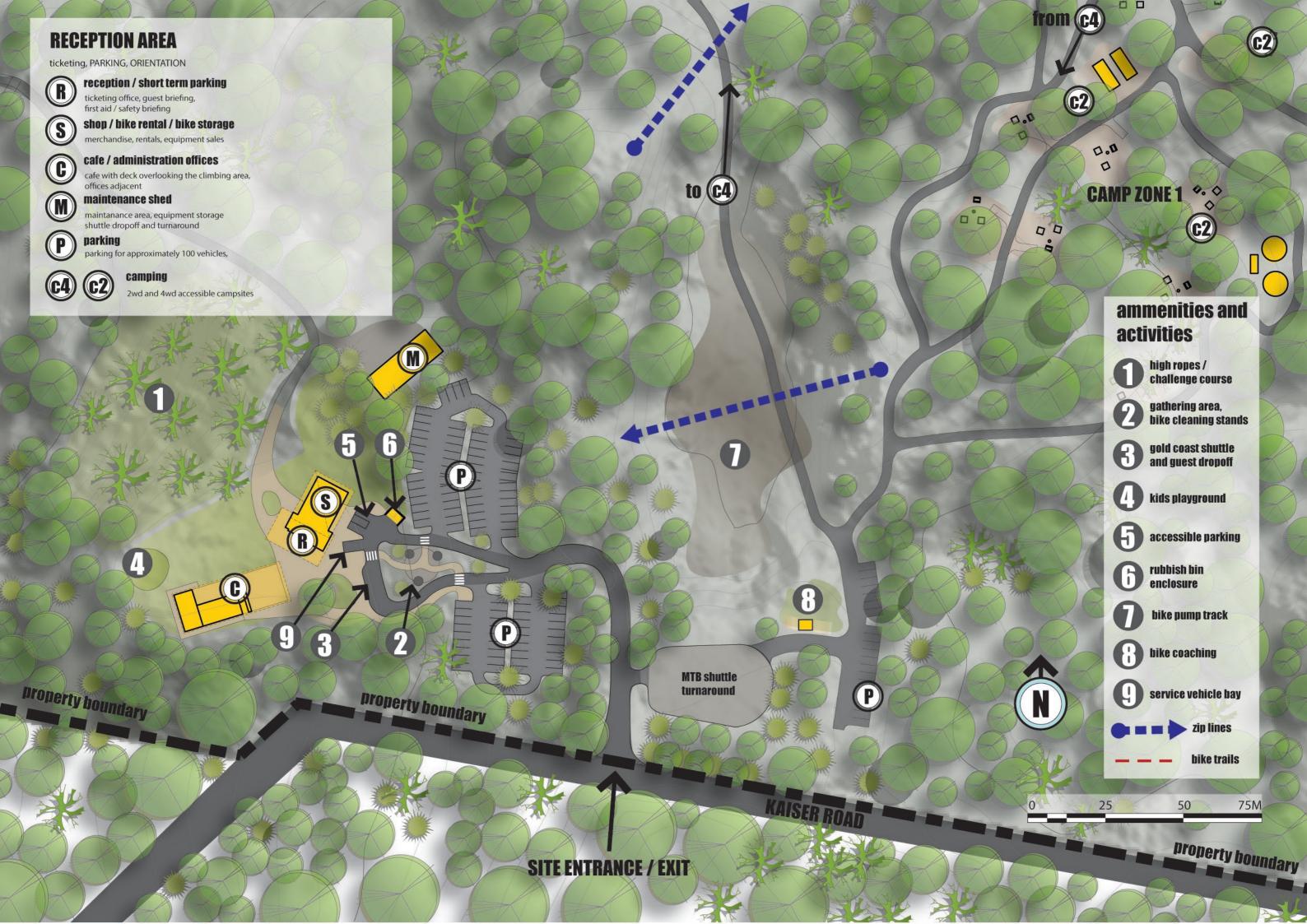


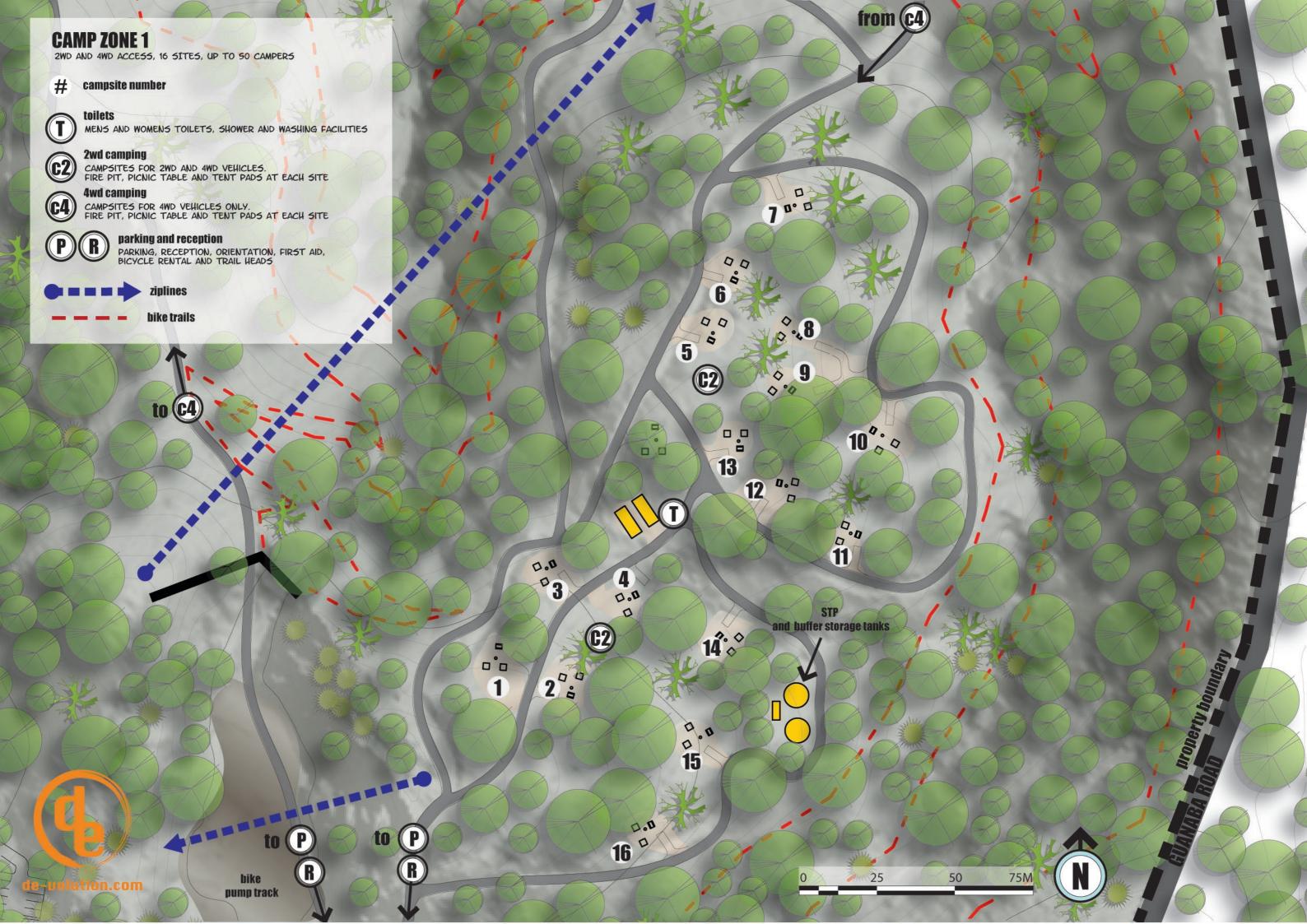
## **PROPOSED SITE PLANS**

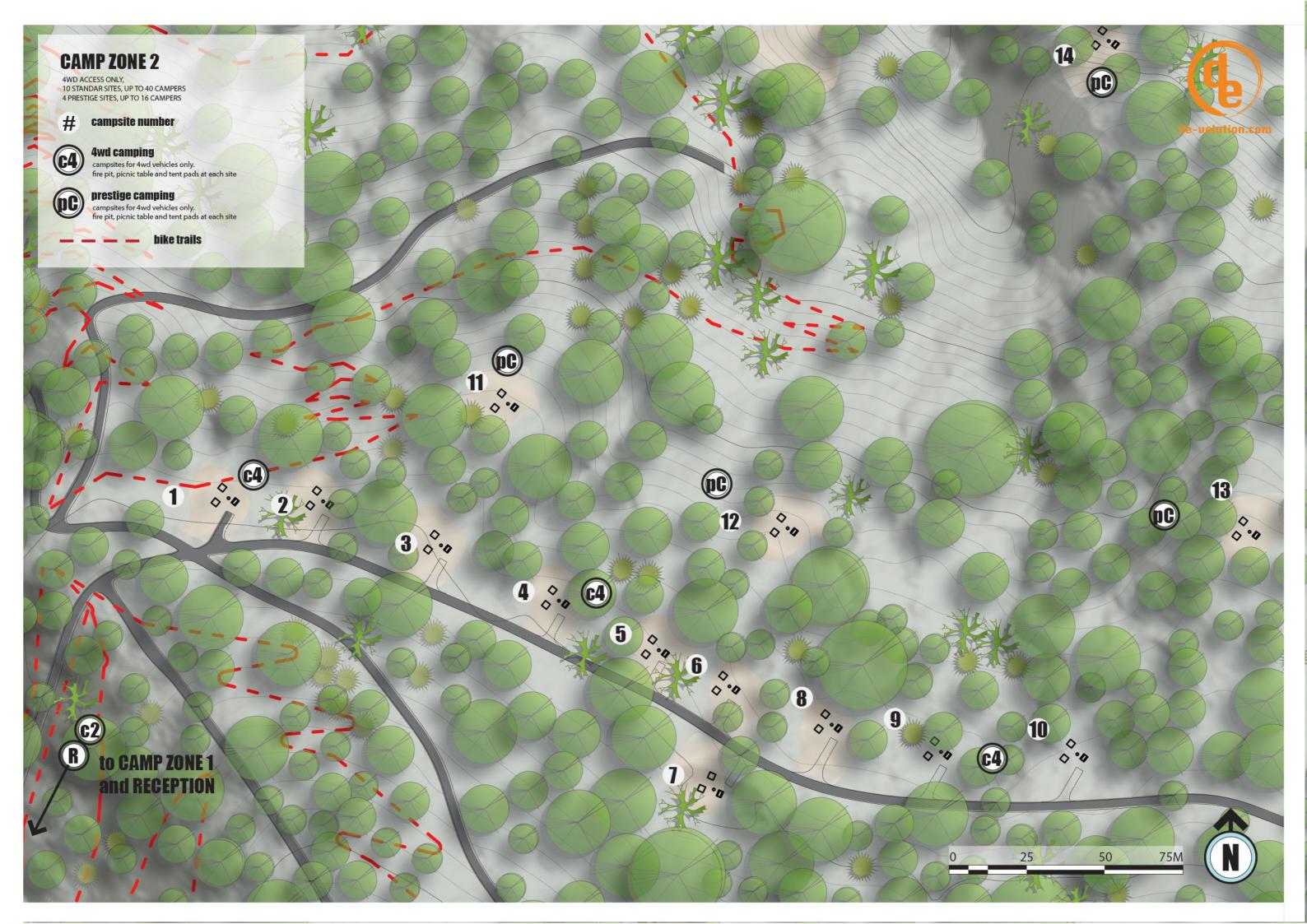
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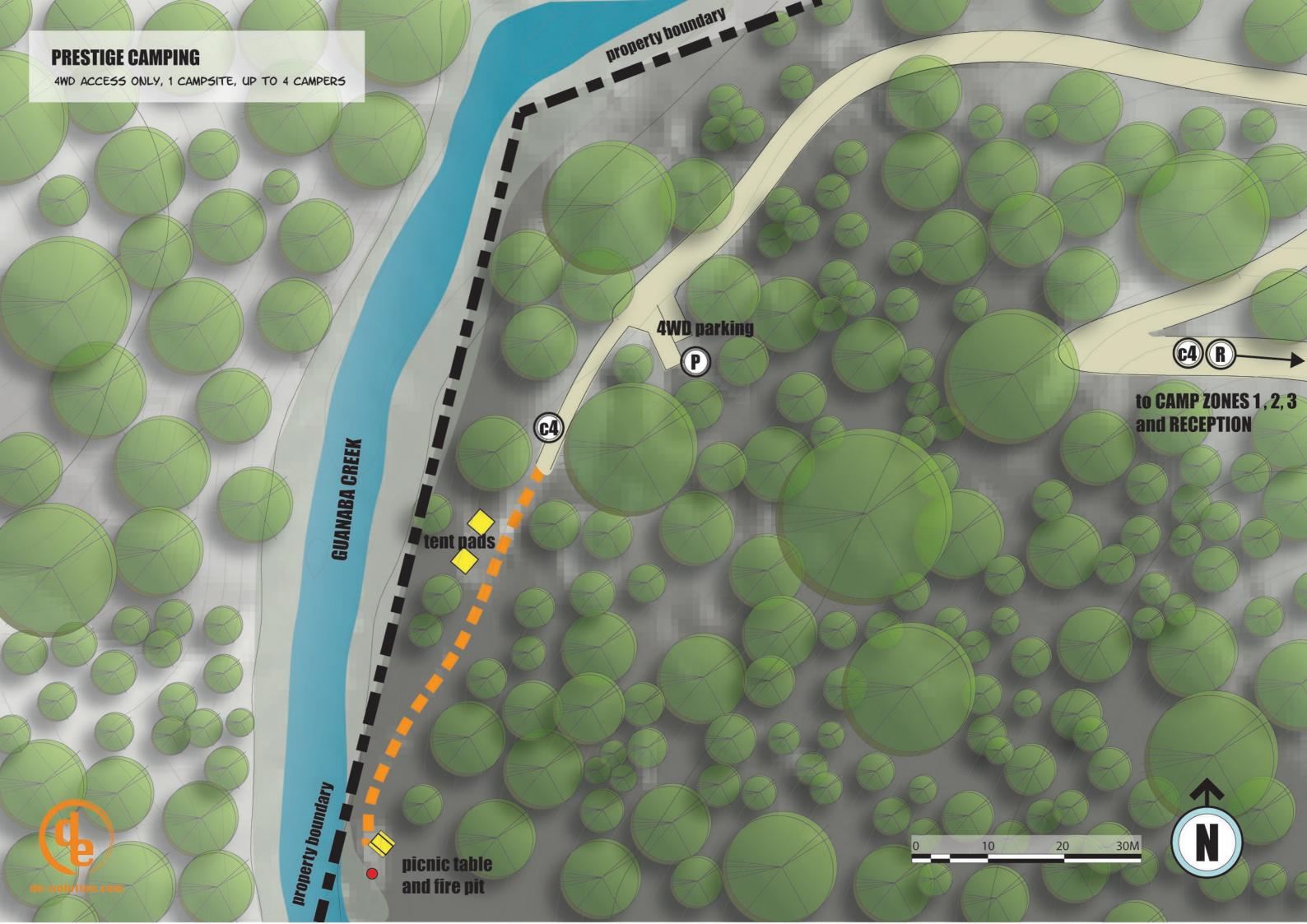


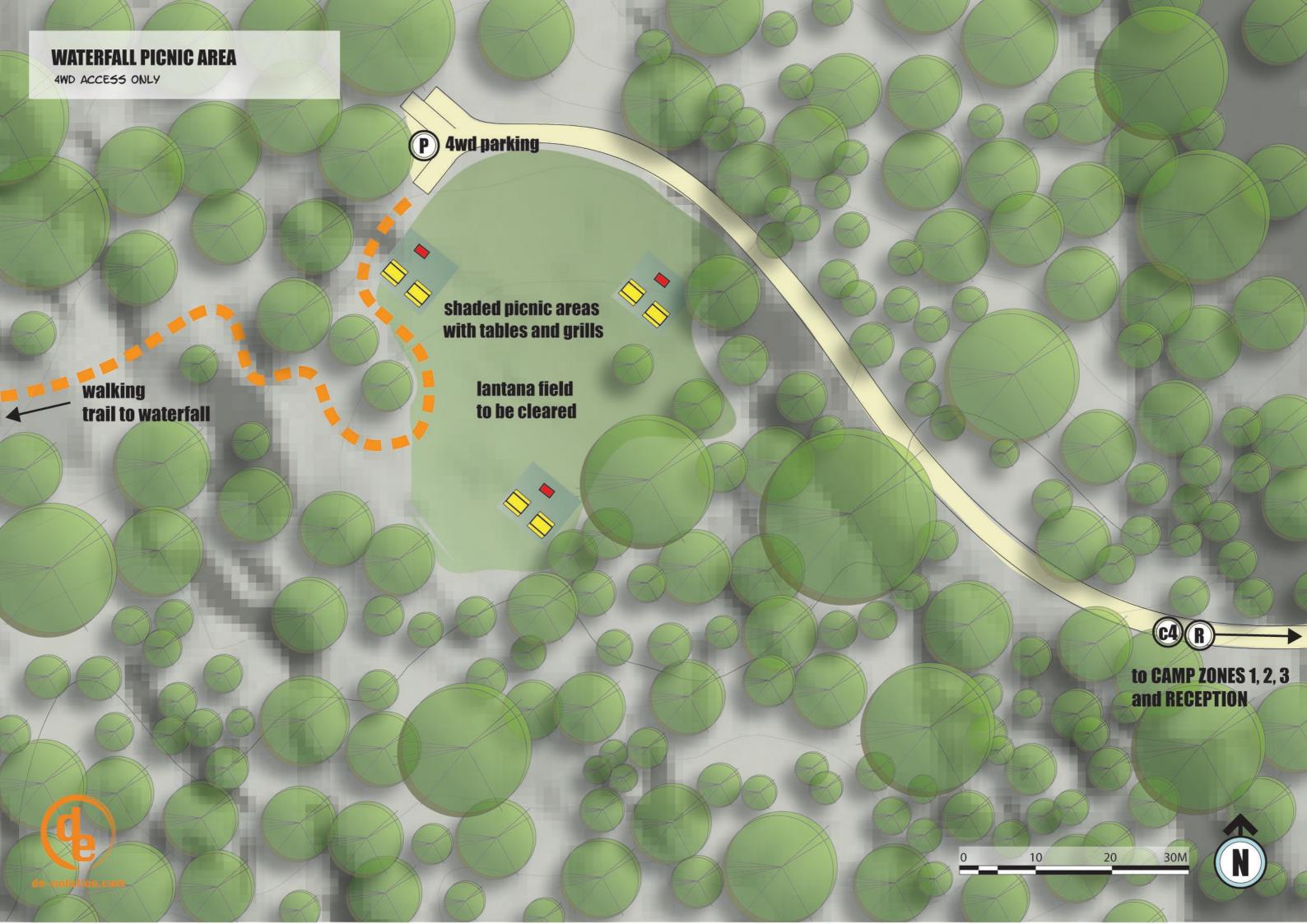








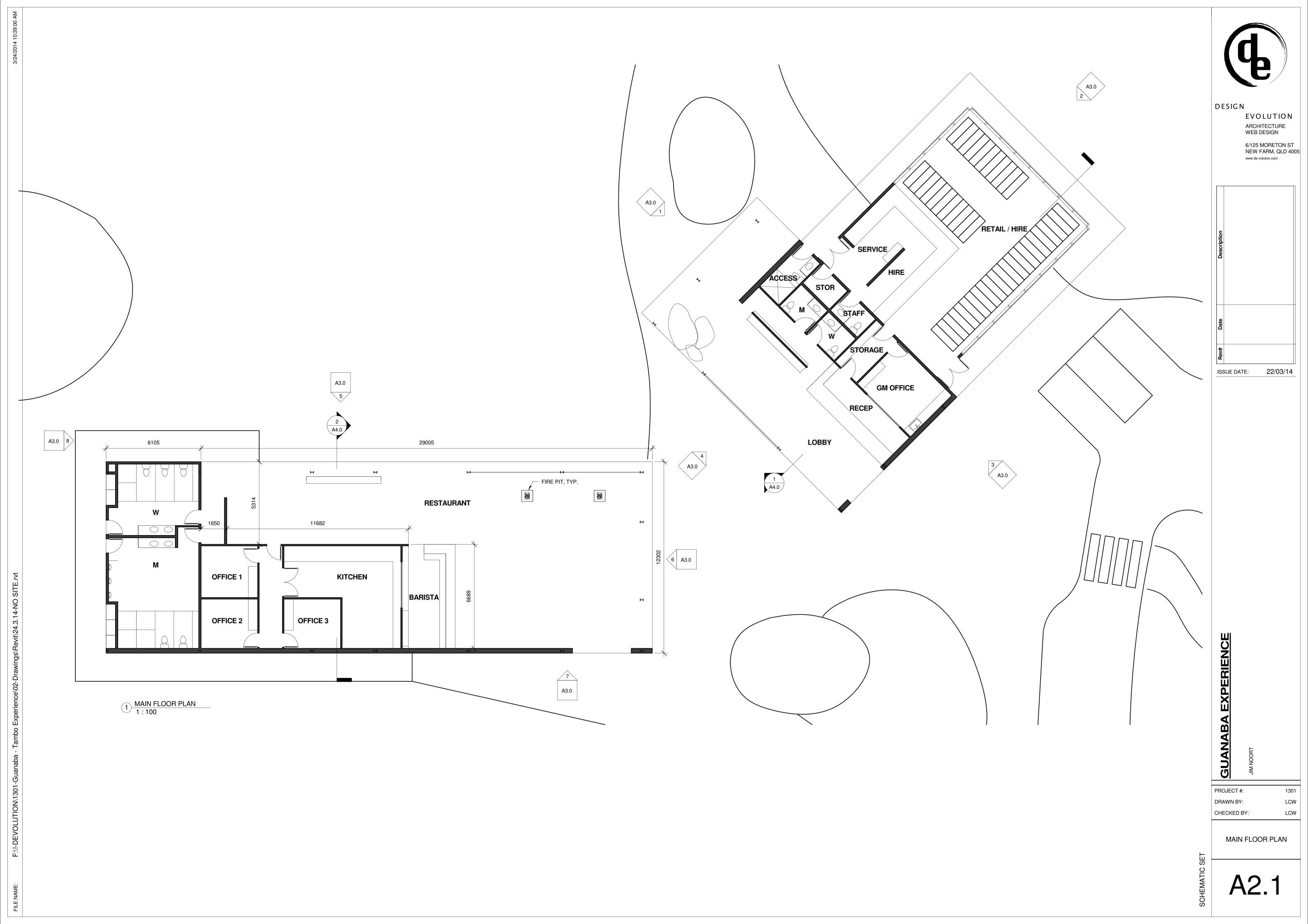


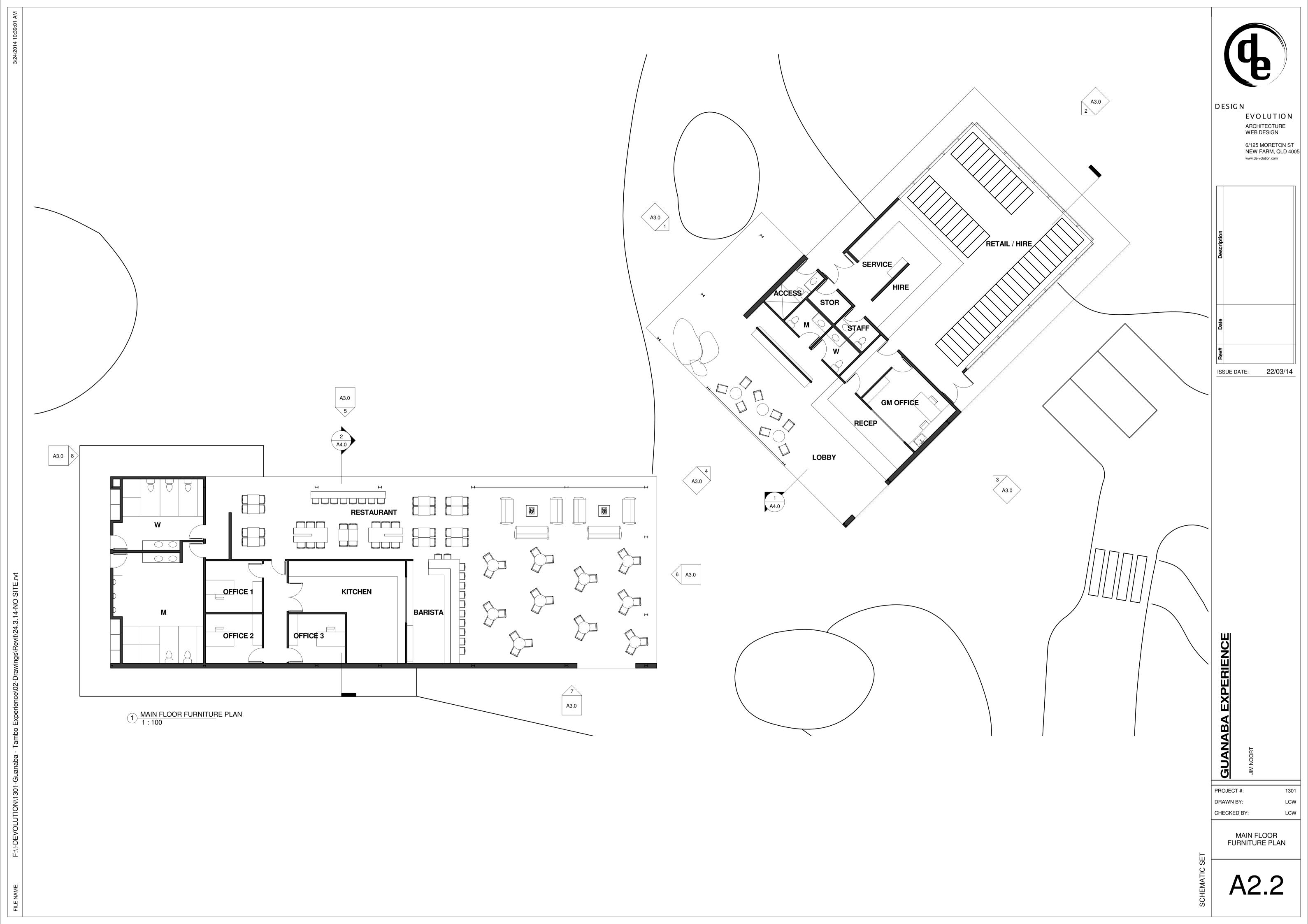


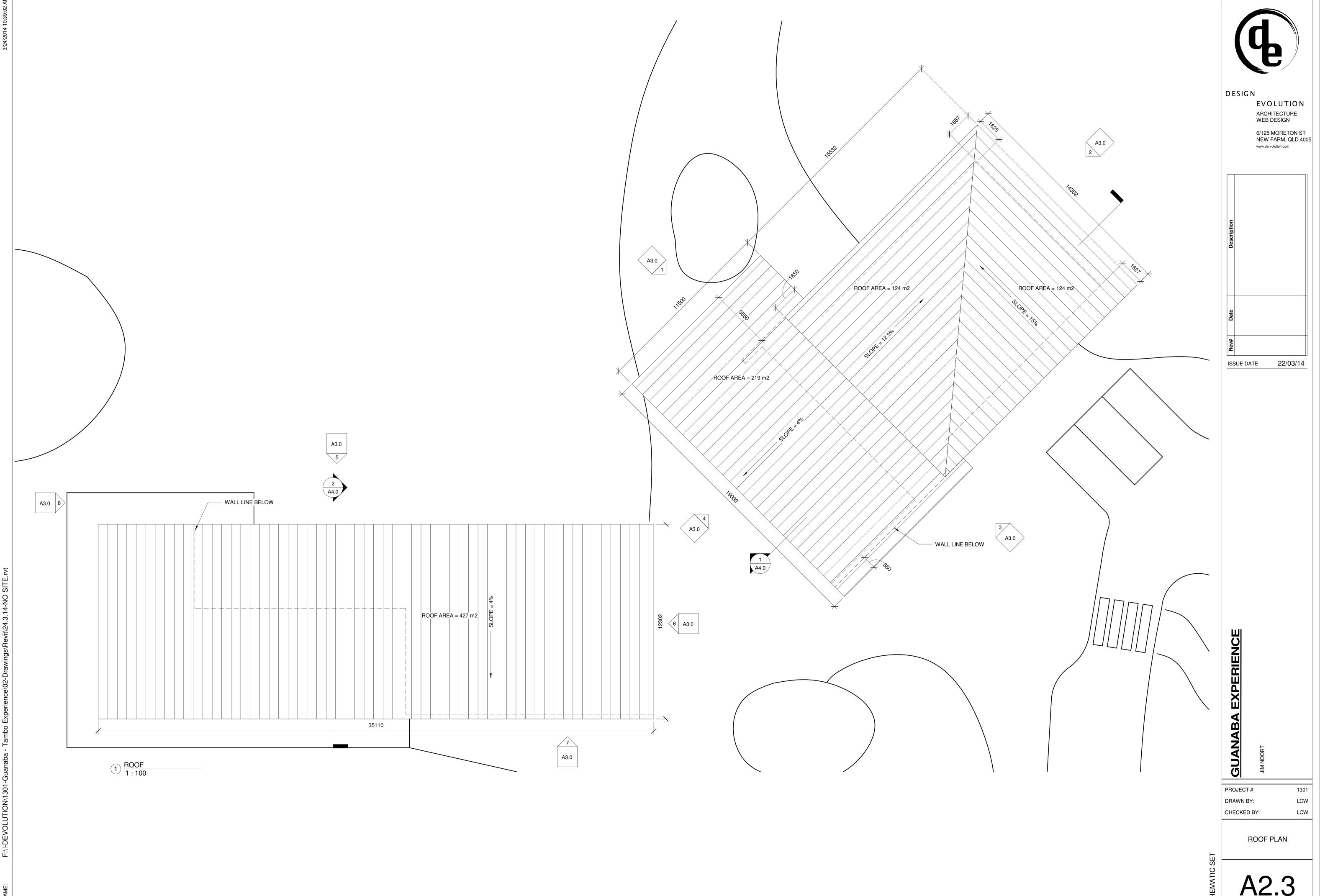
## PROPOSED ARCHITECTURAL PLANS

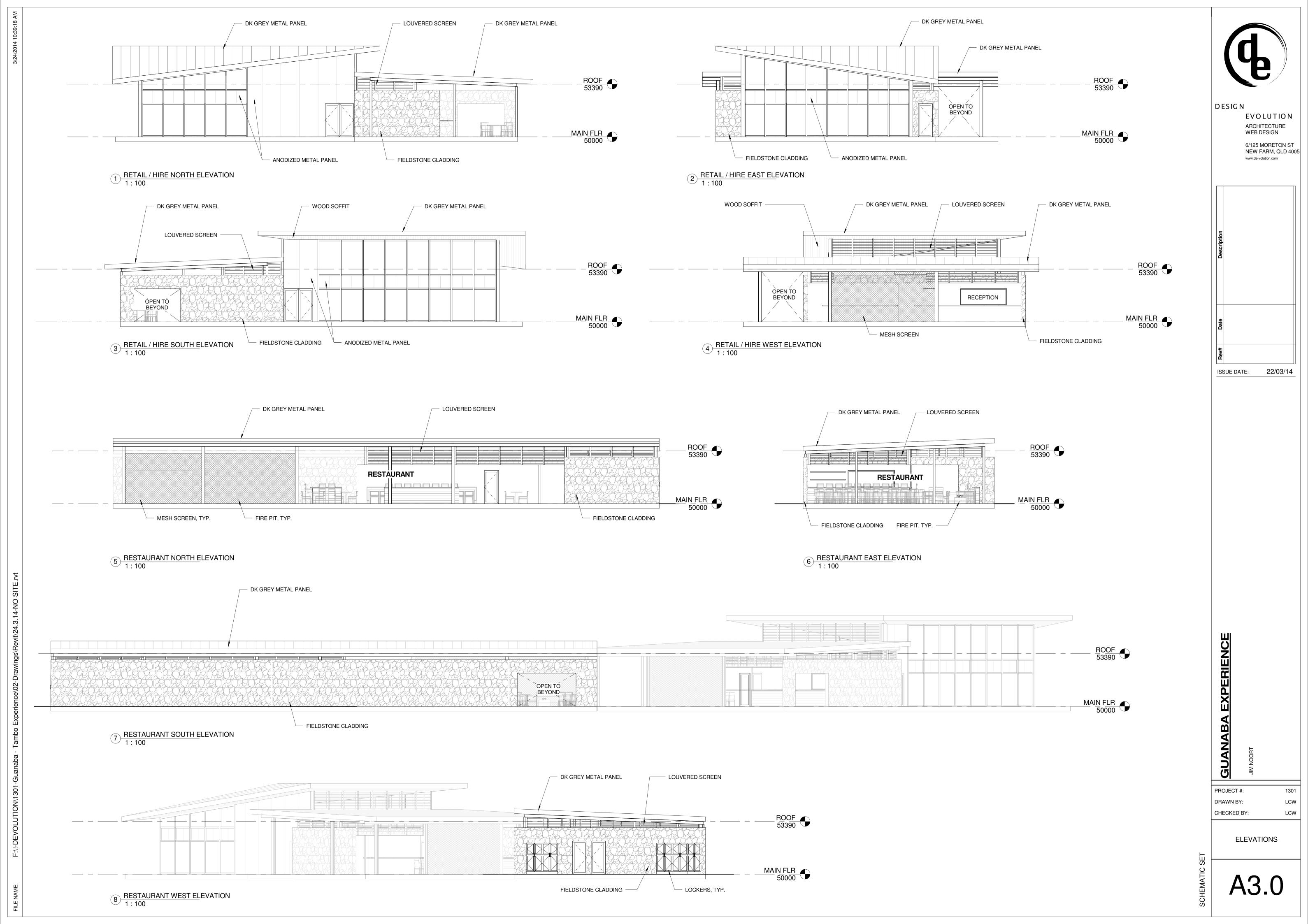
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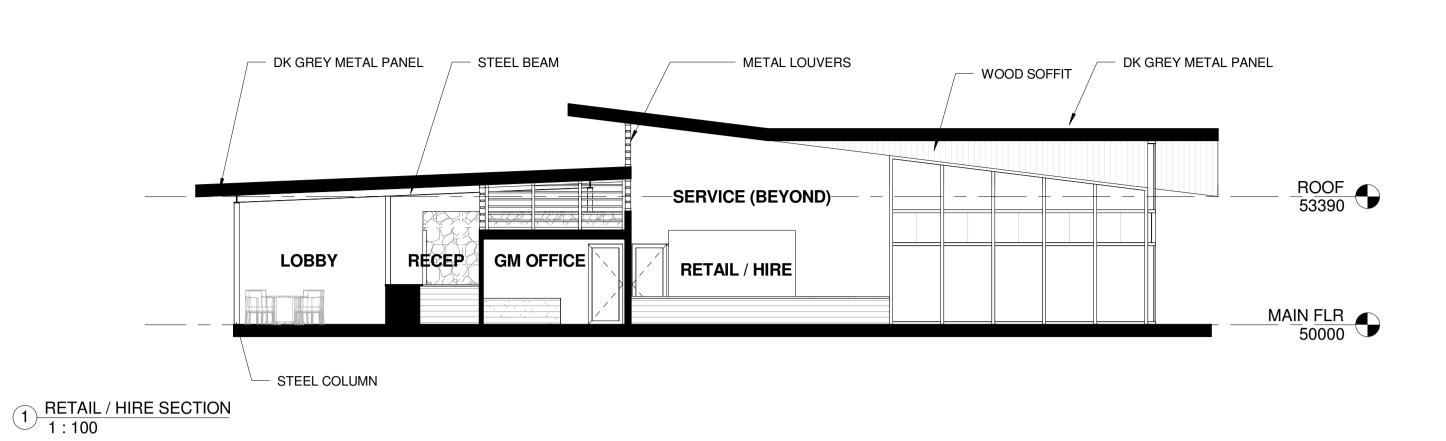


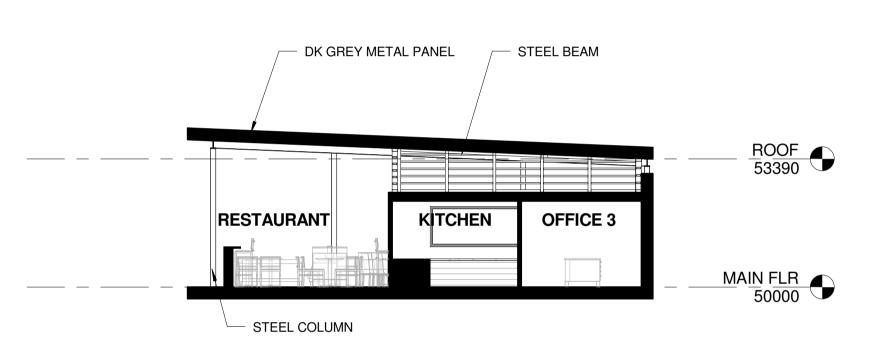












2 RESTAURANT SECTION 1:100

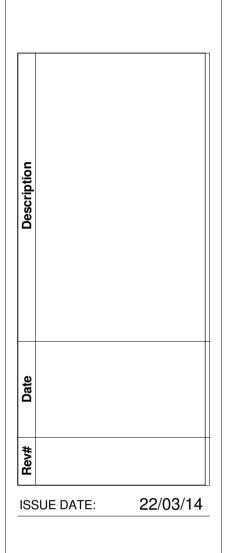
(de

DESIGN

EVOLUTION

ARCHITECTURE
WEB DESIGN

6/125 MORETON ST NEW FARM, QLD 4005 www.de-volution.com



GUANABA EXPERIENCE

JIM NOORT

PROJECT #:
DRAWN BY:
CHECKED BY:

BUILDING SECTIONS

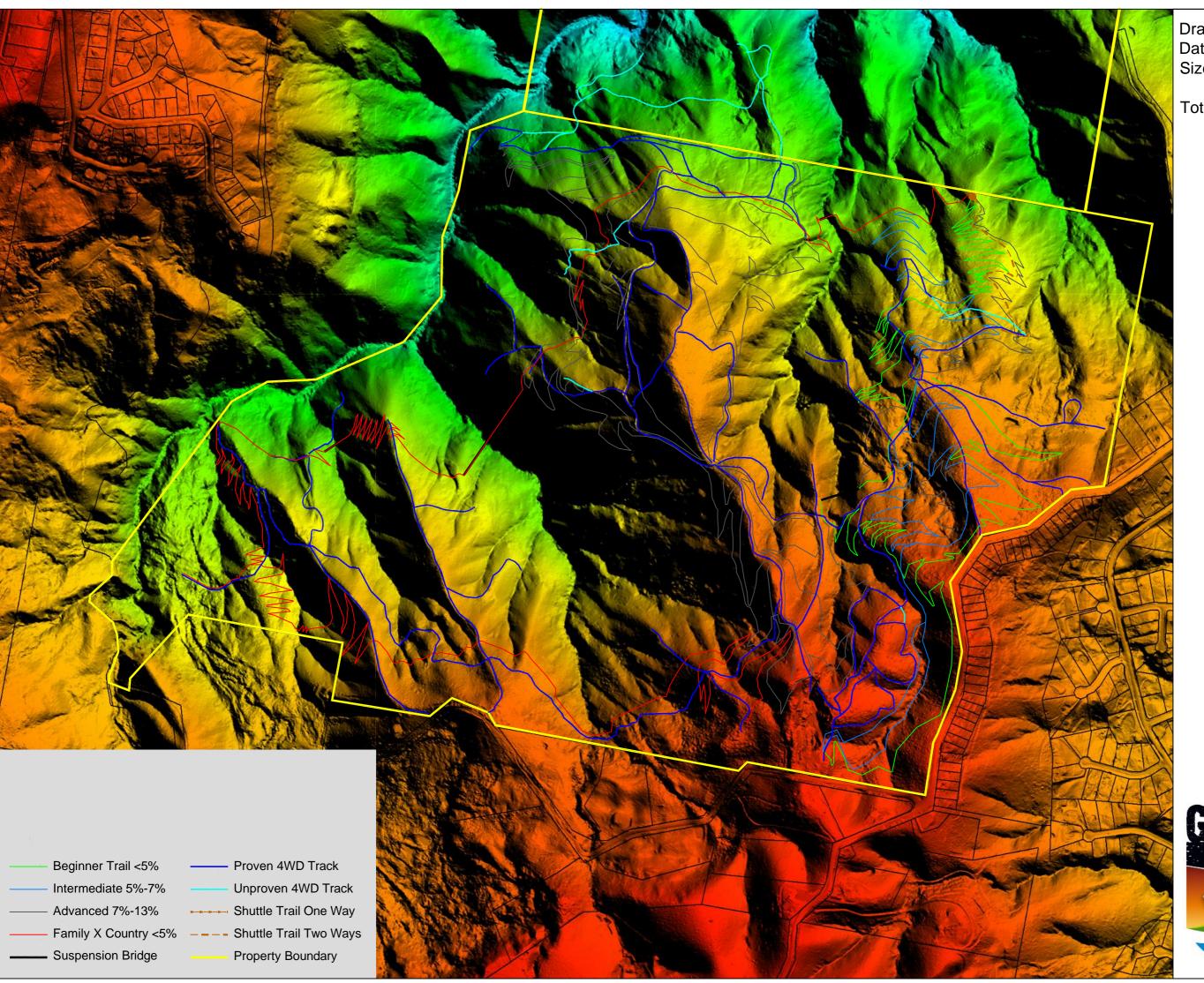
LCW

A4.0

# PROPOSED MOUNTAIN BIKE TRAILS AND ZIPLINE COURSE PLANS

(Source: Jim Noort)



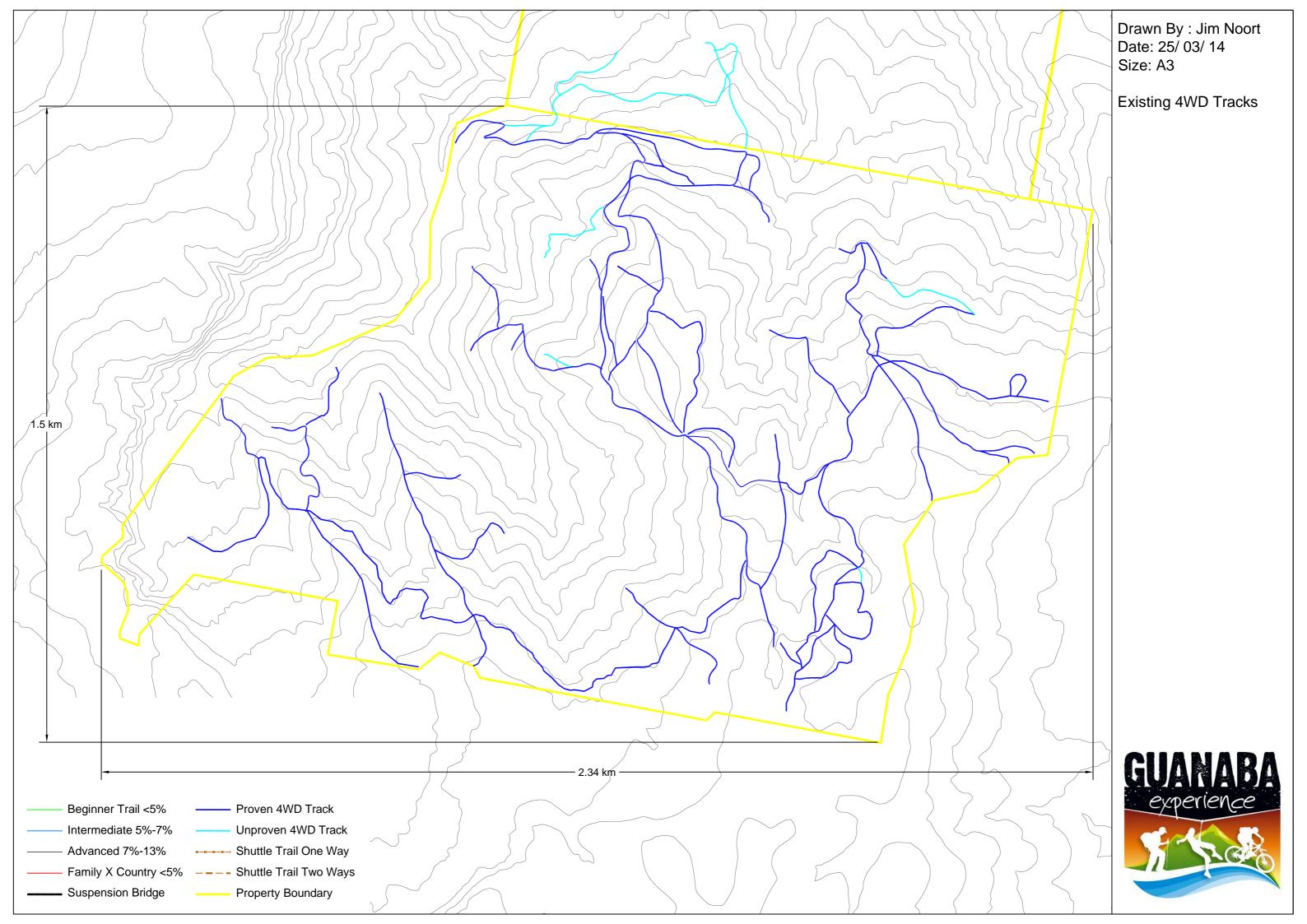


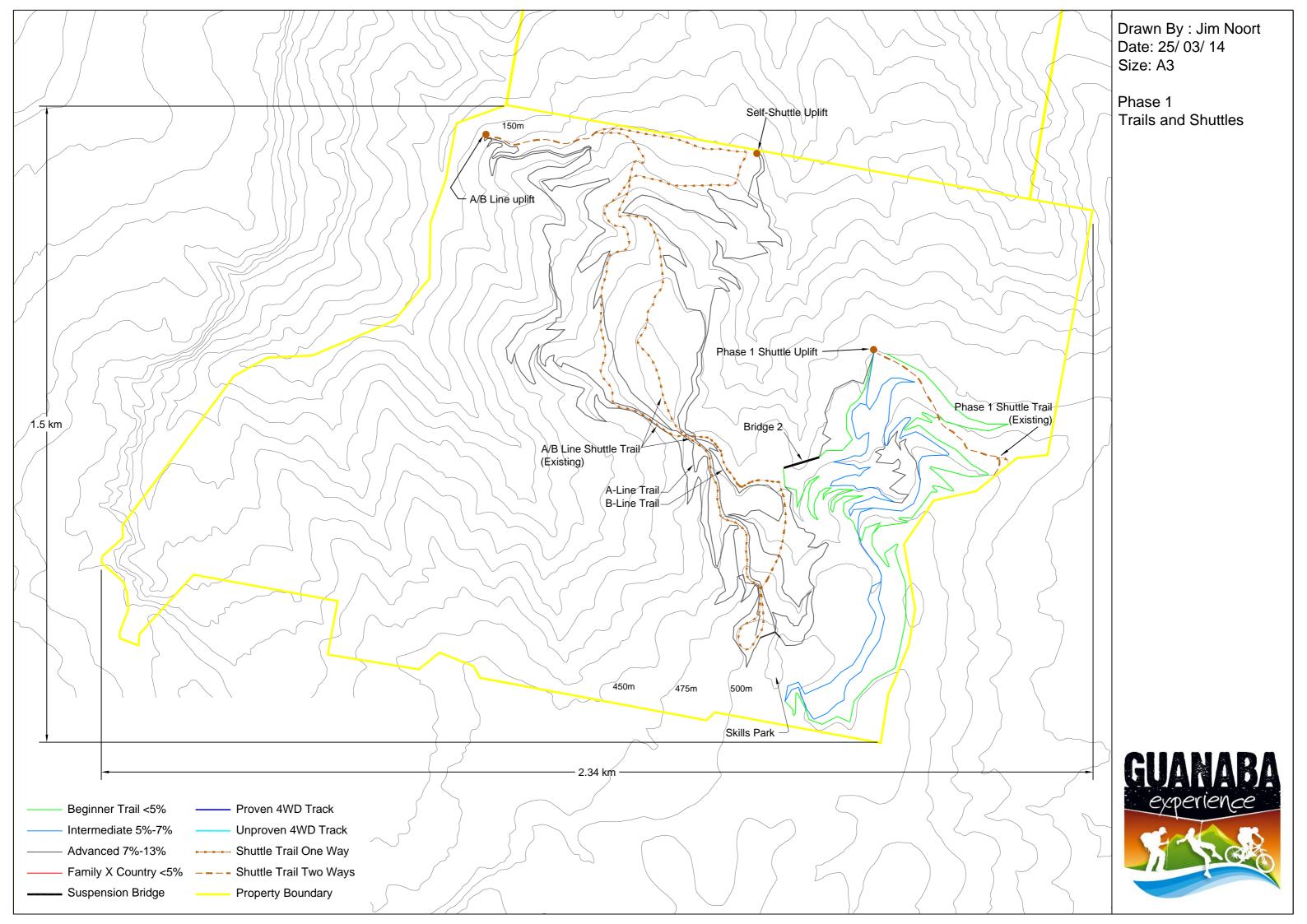
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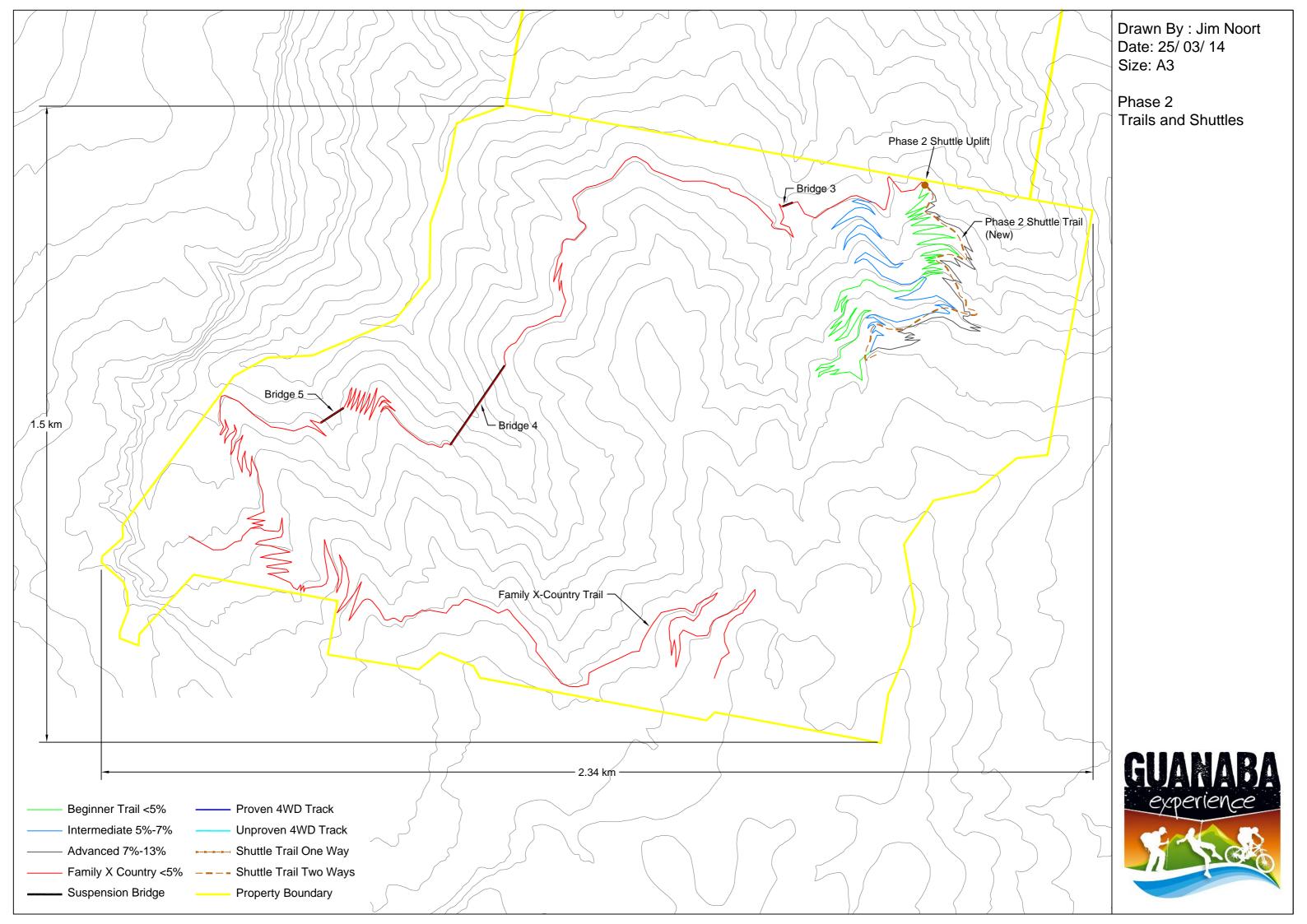
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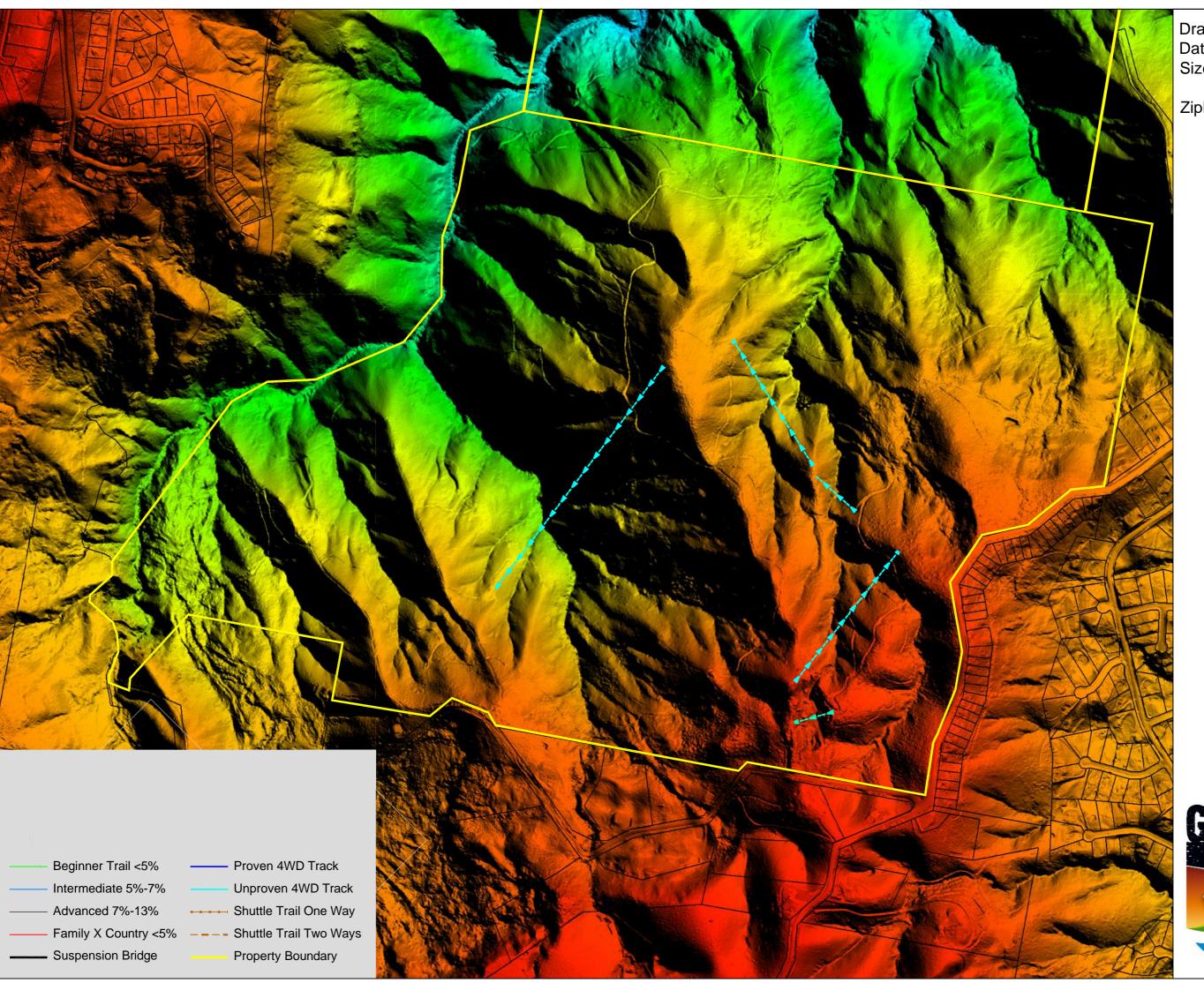
**Total Trail Network** 











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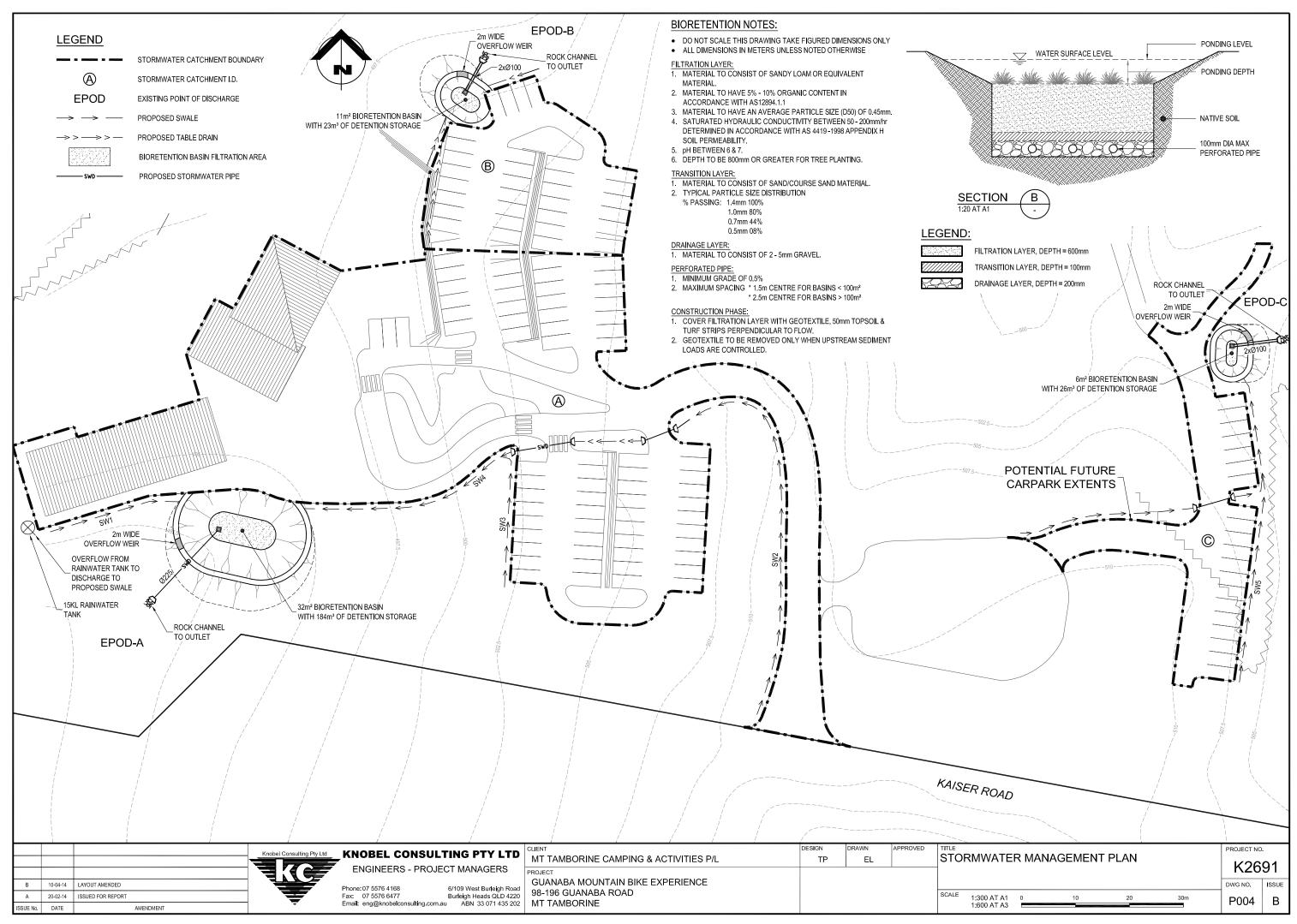
Zipline Course



#### PROPOSED STORMWATER MANAGEMENT PLAN

(Source: Knobel Consulting)

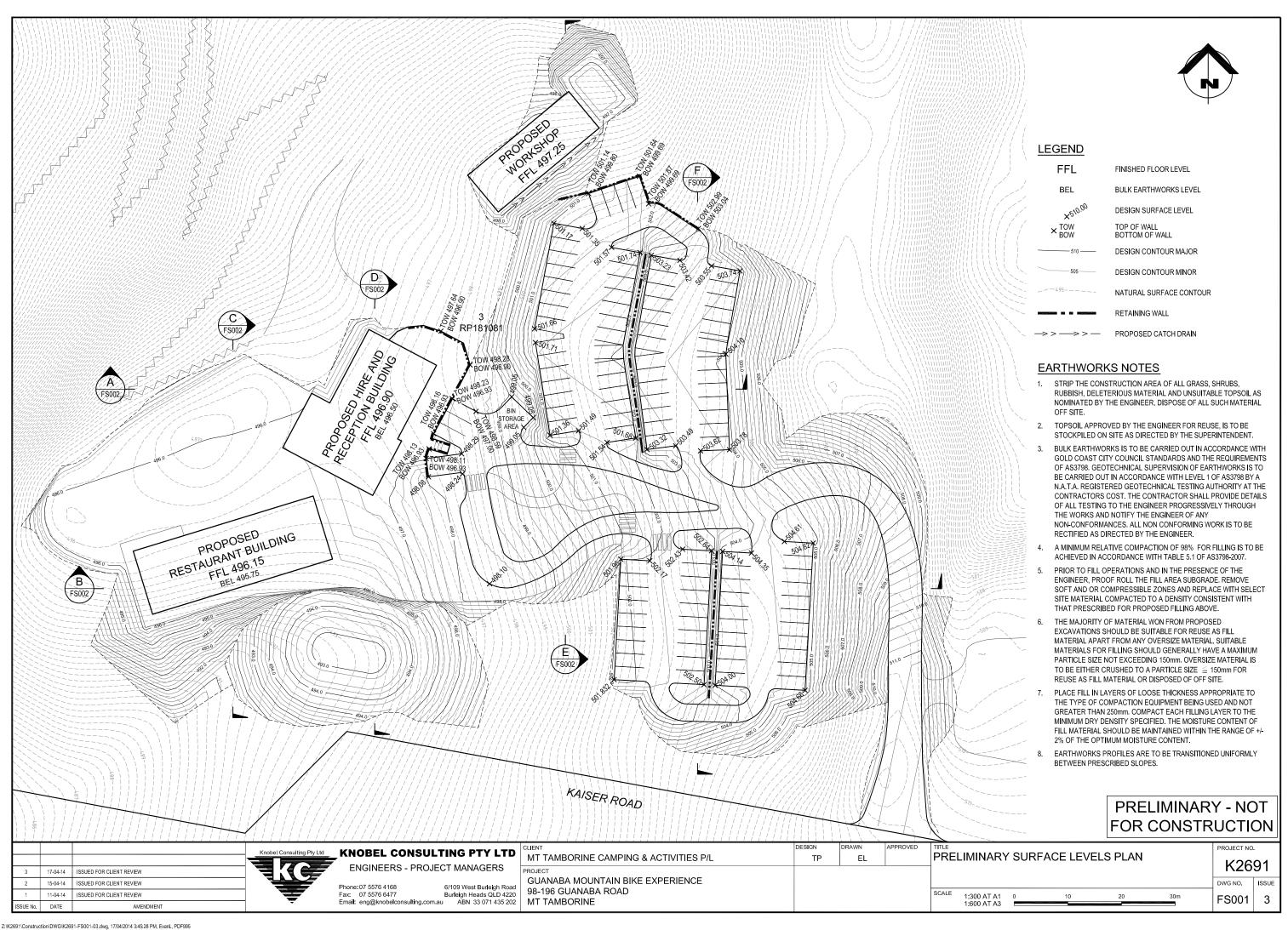


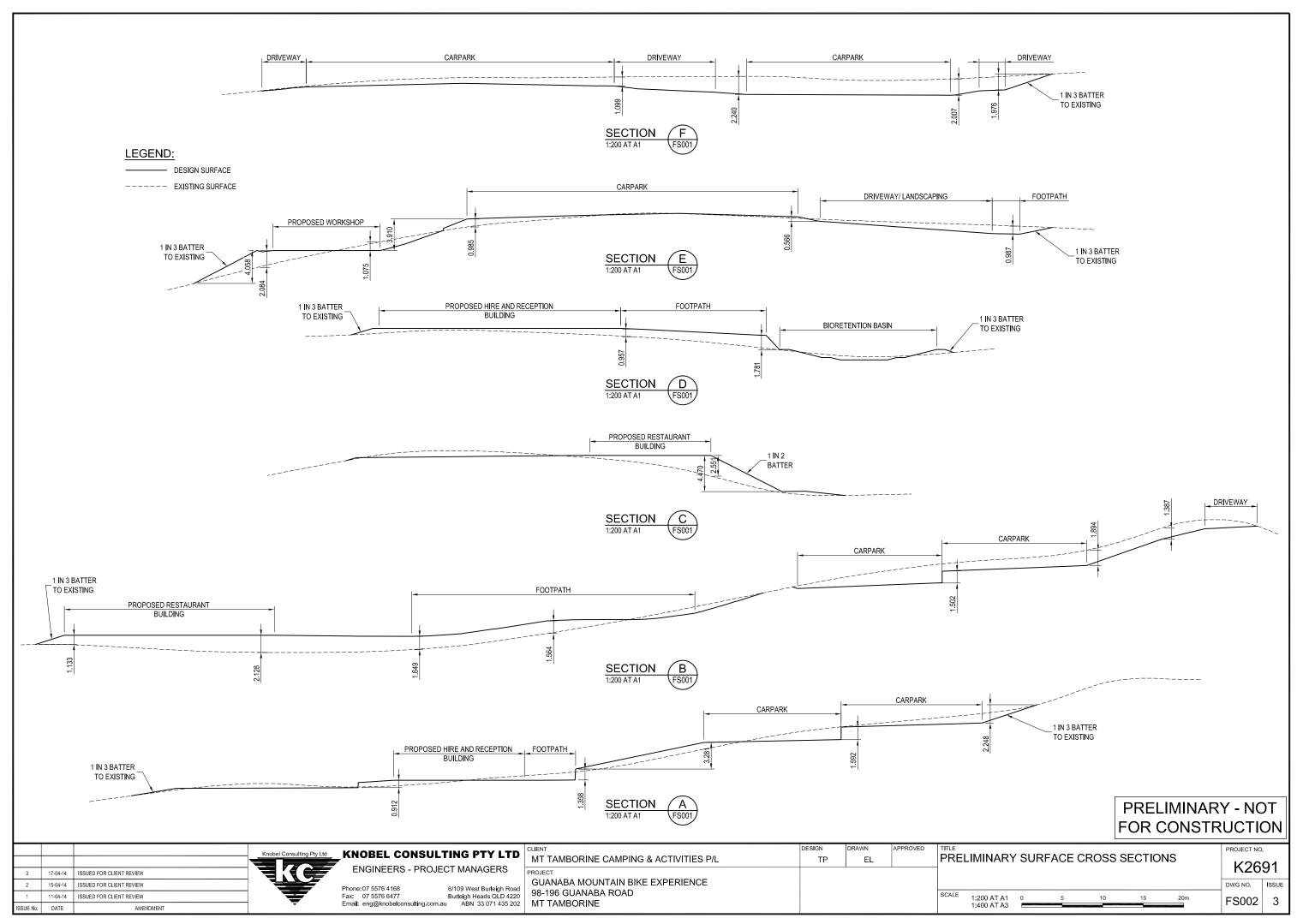


# PROPOSED SURFACE LEVELS/CROSS SECTIONS PLANS

(Source: Knobel Consulting)



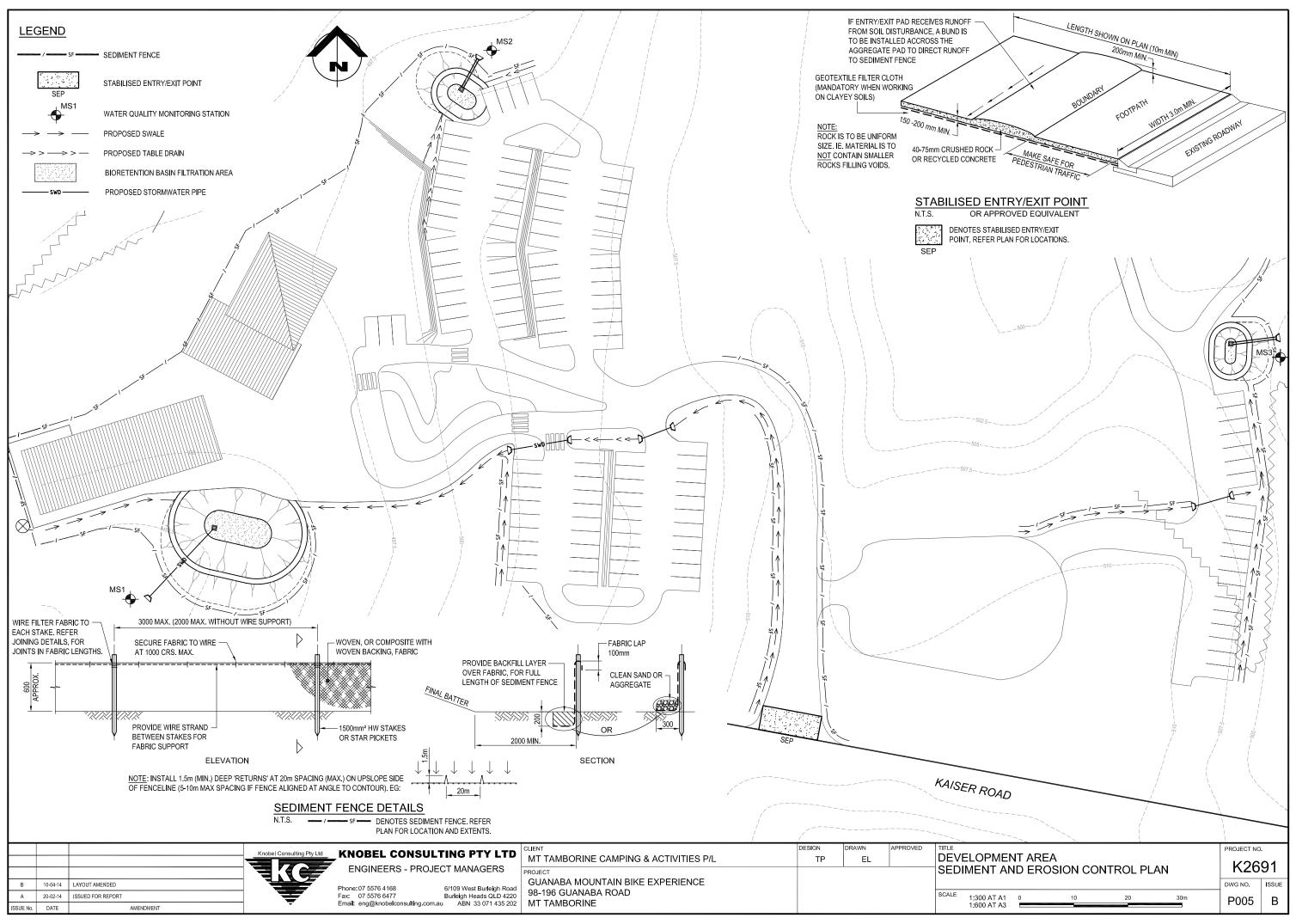




#### PROPOSED SEDIMENT AND EROSION CONTROL PLAN

(Source: Knobel Consulting)

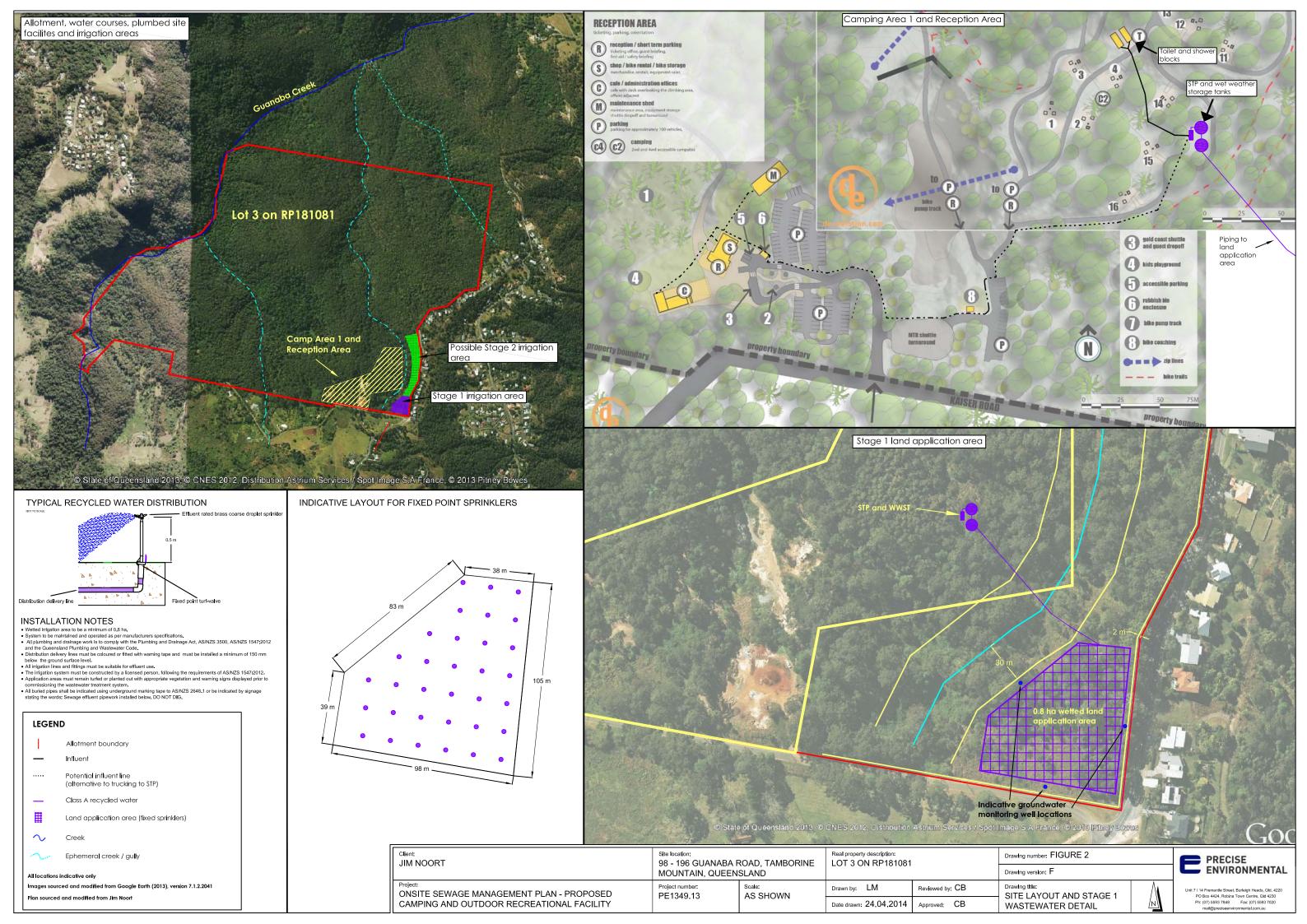




# PROPOSED WASTEWATER LAYOUT/DETAIL PLAN

(Source: Precise Environmental)

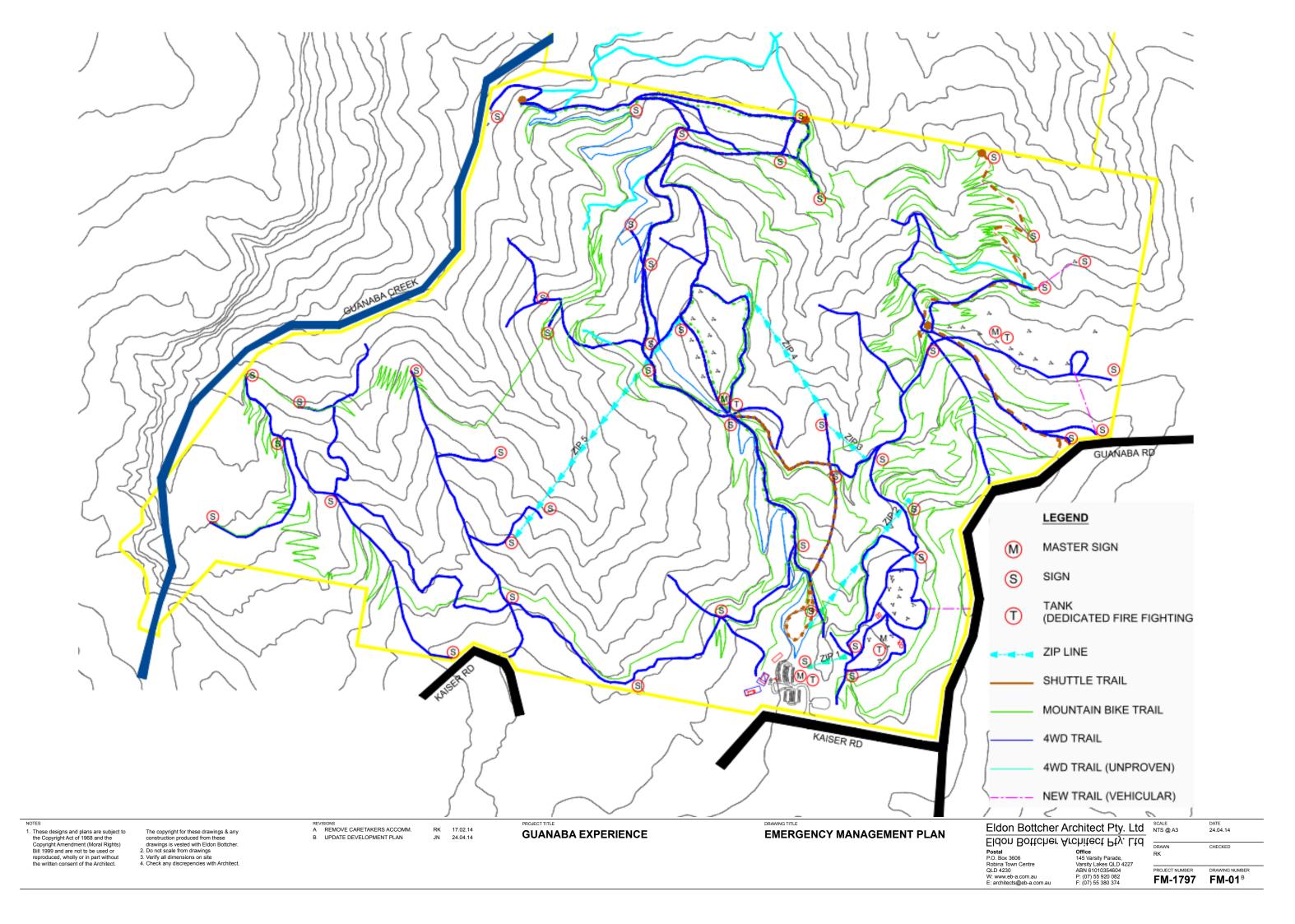


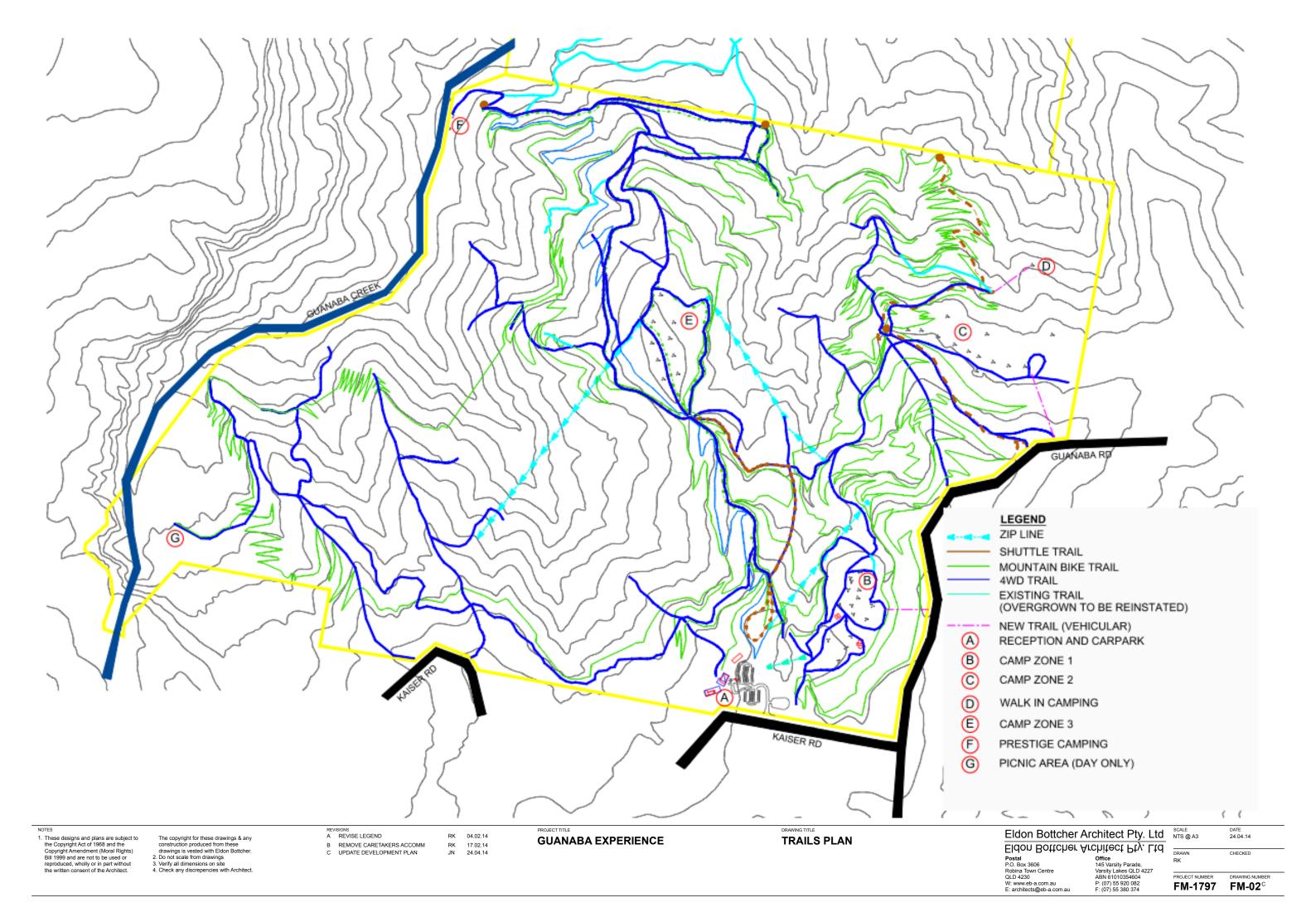


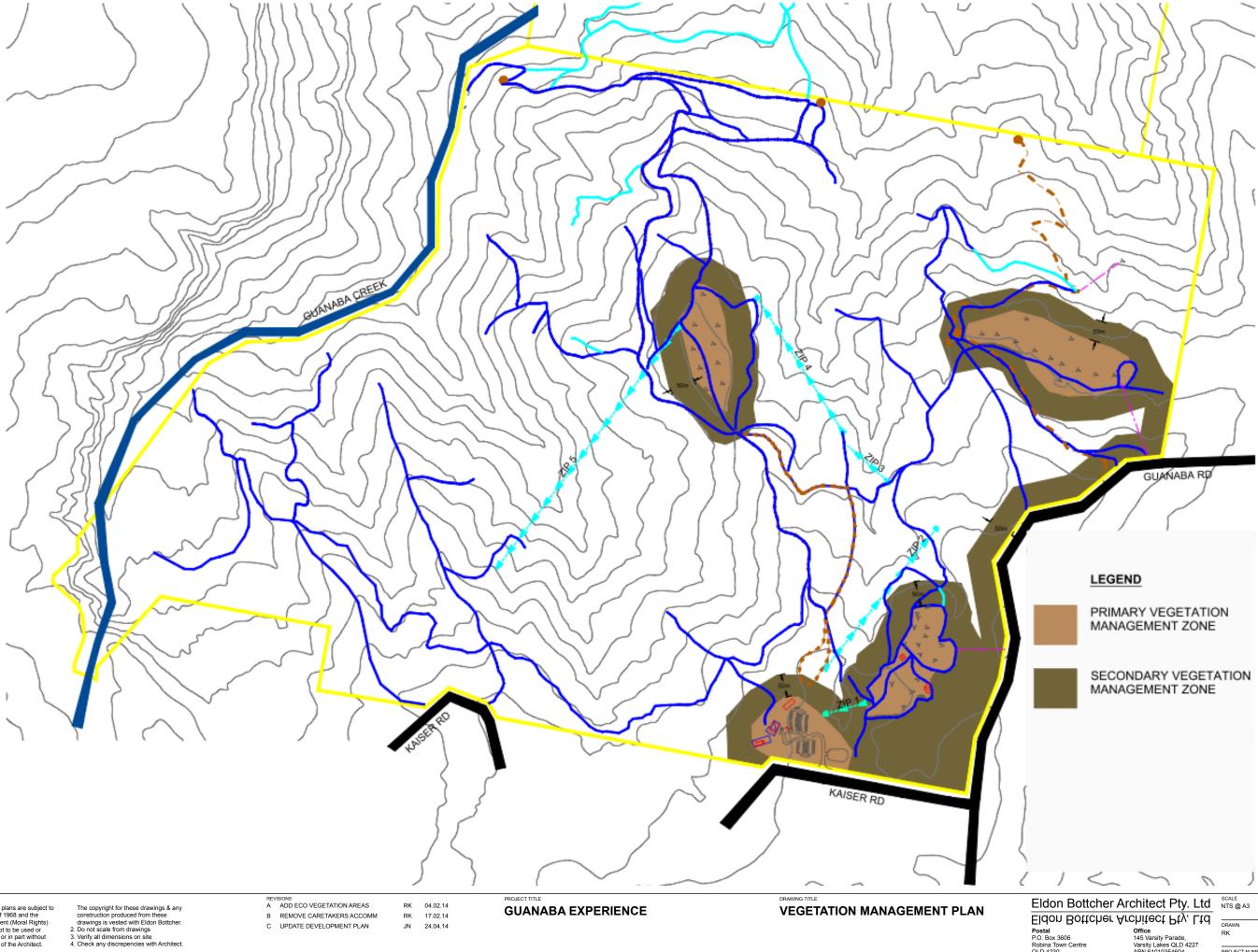
#### PROPOSED BUSHFIRE MANAGEMENT PLANS

(Source: Eldon Bottcher Architect)









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Postal
P.O. Box 3606
Robina Town Centre
QLD 4230
W: www.eb-a.com.au
E: architects@eb-a.com.au

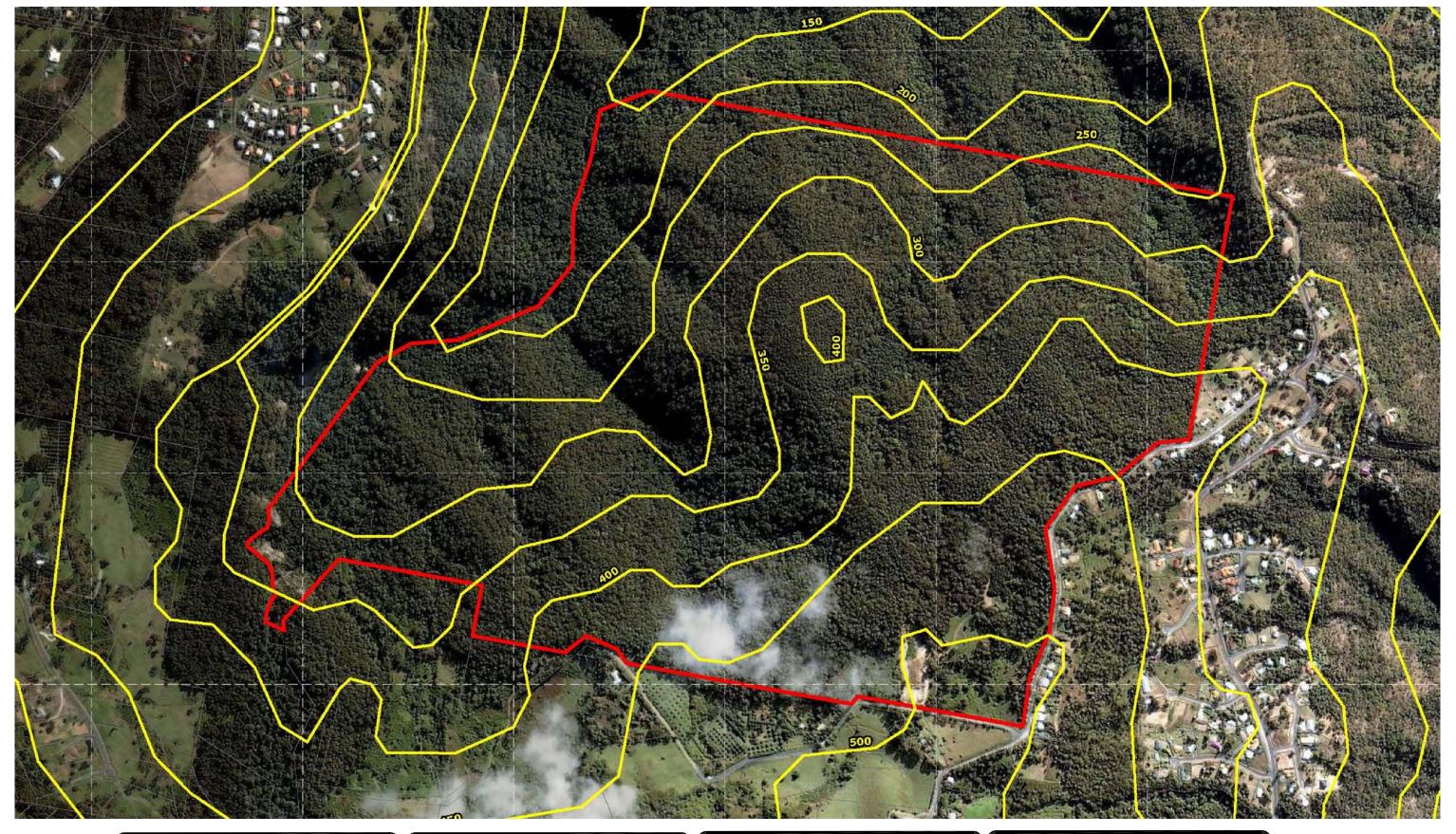
Office 145 Varsity Parade, Varsity Lakes QLD 4227 ABN 61010354604 P: (07) 55 920 082 F: (07) 55 380 374

DATE 24.04.14 PROJECT NUMBER FM-1797 FM-03°

#### **AERIAL IMAGE**

(Adapted From: HBA/DAB Geospatial)





DRAWING:

AERIAL IMAGE

DATE: DRAWN:
SEPTEMBER 2013 MJ

PROJECT NO: SCALE:
TAM03 NTS

DRAWING NO: ISSUE: SHEET NO:
TAM03\_AI A 1 0F 1

PROJECT:

# PROPOSED MCU DEVELOPMENT

98 GUANABA ROAD, TAMBORINE MOUNTAIN LOT 3 RP181081

BYRNS LARDNER ENVIRONMENTAL P: PO BOX 928 SOUTHPORT BC QLD 4215 E: mark@byrnslardner.com.au T: 07 5528 6712



CLIENT:

MOUNT TAMBORINE CAMPING & ACTIVITIES PTY LTD

BYRNS LARDNER ENVIRONMENTAL ADAPTED FROM:

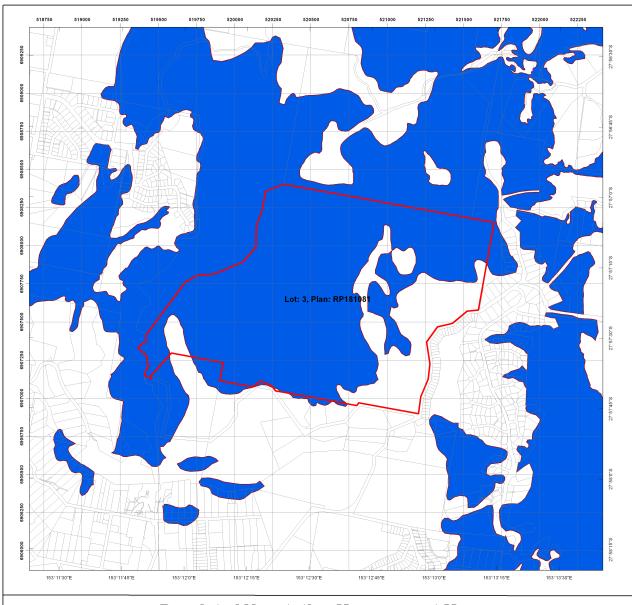
HBA/DAB GEOSPATIAL

### **ATTACHMENT 10**

# CERTIFIED REGULATED VEGETATION MANAGEMENT/SUPPORTING MAPS

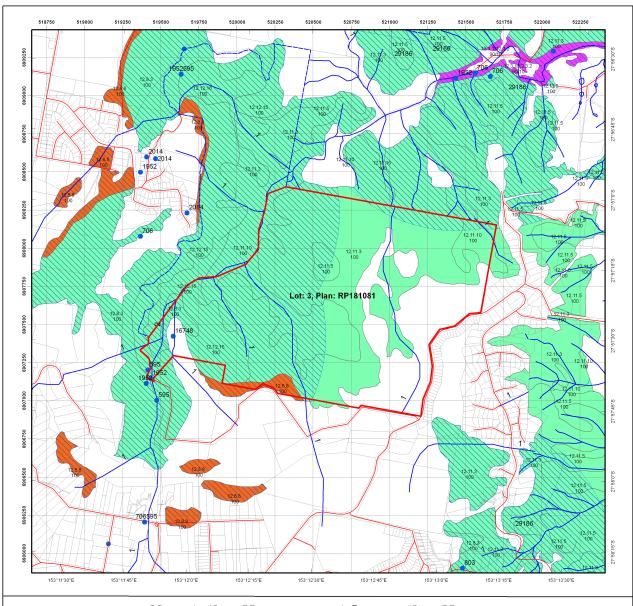
(Source: DNRM)





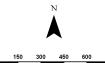
#### **Regulated Vegetation Management Map**

#### Disclaimer: While every care is taken to ensure the accuracy of this product, the Department of Natural Resources and Mines makes no representations or warranties about its accuracy, reliability, completeness or suitability or 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 incurr as a result of the product being inaccurate or incomplete in any way and for any reason. Legend Lot and Plan Category A area (Vegetation offsets/compliance notices/VDecs) Category B area (Remnant vegetation) Category C area (High-value regrowth vegetation) Category R area (Reef regrowth watercourse vegetation) any way and for any reason. LOCALITY DIAGRAM Category X area (Vegetation not regulated under the VMA) Additional information required for the assessment of vegetation values is provided in the accompanying "Vegetation Management Supporting map". For further information go to the web site: www.dnrm.qld.gov.au or contact the Department of Natural Resources and Mines. Water Area not categorised Cadastral line Property boundaries shown are provided as a locational aid only Digital data for the regulated vegetation management map is available from the Queensland Spatial Portal at http://www.information.qld.gov.au/ This map is updated on a monthly basis to ensure new PMAVs are included as they are approved. 1.000 m This product is projected into: GDA 1994 MGA Zone 56 @ <u>0</u> © The State of Queensland (Department of Natural Resources and Mines), 2014



## **Vegetation Management Supporting Map**





This product is projected into: GDA 1994 MGA Zone 56

Labels for Essential Habitat are centred on the area of enquiry.

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.

Disclaimer:
While every care is taken to ensure the accuracy of this product, the Department of Natural Resources and Mines and Pitney Bowes Software, makes no representations or warranties about its accuracy, reliability, completeness or suitability or 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 damages) and costs which you might incurr as a result of the product being inaccurate or incomplete in any way and for any reason.

Additional information may be 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 or contact the Department of Natural Resources and Mines.

Digital data for the vegetation management watercourse map, vegetation management wetlands map, essential habitat map and the vegetation management remnant and regional ecosystem map are available from the Queensland Spatial Portal at http://www.information.qld.gov.au/

#### Vegetation Management Act 1999 - Extract from the essential habitat database - version 4.0

Essential habitat is required for assessment under the:

- State Development Assessment Provisions Module 8: Native vegetation clearing which sets out the matters of interest to the state for development assessment under the Sustainable Planning Act 2009; and
- Self-assessable vegetation clearing codes made under the Vegetation Management Act 1999

Essential habitat for one or more of the following species is found on and within 1.1 km of the identified subject lot/s or on and within 2.2 km of an identified coordinate on the accompanying essential habitat map.

This report identifies essential habitat in Category A, B and Category C areas.

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 (<a href="http://www.dnrm.qld.gov.au">http://www.dnrm.qld.gov.au</a>) has more information on how the layer is applied under the State Development Assessment Provisions - Module 8: Native vegetation clearing and the Vegetation Management Act 1999.

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

Essential habitat, for protected wildlife, means a category A area, a category B area or category C area shown on the regulated vegetation management map-

- (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.

Essential habitat identifies endangered or vulnerable native wildlife prescribed under the Nature Conservation Act 1994.

#### Essential habitat in Category A and B (Remnant vegetation species record) areas:1100m Species Information

| Label | Scientific<br>Name                  | Common<br>Name                                  | NCA Status | Vegetation Community  | Altitude            | Soils   | Position in Landscape  |
|-------|-------------------------------------|---|------------|---|---------------------|---|--|
| 803   | Dasyurus<br>maculatus<br>maculatus  | Spotted-tailed<br>Quoll<br>(southern<br>subsp.) | V          | Rainforest, wet and dry structurally complex solerophyll forest (e.g. Eucalyptus andrewsii, E. saligna, E. tereticomis & Corymbia intermedia) on productive soils (gullies & flats) and in rocky areas (ridges), also open woodland (E. alba, E. melliodora, Callitris glaucophylla), coastal heathland (adjacent to forest) and riparian forest. Dens in caves, rock crevices and hollow logs.     | Sea level to 1000m. | no soil information   | None   |
| 706   | Adelotus<br>brevis                  | Tusked Frog                                     | V          | In cavities, under debris (logs, stones) in<br>subtropical vine forest, tall open moist forest,<br>heaths, Melaleuca swamp and pasturelands near<br>puddles and streams.  | Sea level to 1000m. | no soil information   | None   |
| 595   | Litoria<br>pearsoniana              | Cascade<br>Treefrog                             | V          | Under stones and in low vegetation along relatively large (upstream catchment volume >1000GL) fast flowing rocky streams in subtropical vine forest (complex notophyll) and wet sclerophyll forest, especially where palms present in midstorey, and occasionally along perennial densely vegetated streams in open forest adjacent to rainforest.  | 100-1000m.          | no soil information   | Near/in streams.   |
| 1952  | Podargus<br>ocellatus<br>plumiferus | Marbled<br>Frogmouth<br>(Plumed)                | V          | Upper canopy of closed forest (notophyll and complex notophyll vine forest), often with emergents (Eucalyptus grandis and Lophostemon confertus = wet sclerophyll forest), vines and palms Archonotophoenix cunninghamiana along creeks, occasionally in araucarian vine forest (notophyll and microphyll); roosts by day in thick rainforest vegetation and occasionally use adjacent open forest. | Sea level to 900m.  | no soil information   | None   |
| 16748 | Macadamia<br>tetraphylla            | macadamia<br>nut                                | V          | complex notophyll vine forest   | 0 to 700 m          | red to brown loam or clay occasionally shallow and rocky, derived from metasediments, acid volcanics or basalts | alluvial terrace or bank of<br>watercourse or hill slope or<br>rocky scree slope |
| 2014  | Ornithoptera<br>richmondia          | Richmond<br>Birdwing<br>Butterfly               | V          | Lowland (including littoral & gallery) and upland subtropical rainforest with Paristolochia praevenosa and P. laheyana respectively; P. praevenosa occurs below 600m asl on basaltic slopes, creek banks, or on volcanic alluvial soils near watercourses, while P. laheyana occurs on basaltic ridges and slopes at >800m asl.   | Sea level to >800m. | Basalt and volcanic alluvial substrates.  | None   |

#### Essential habitat in Category A and B (Remnant vegetation species record) areas:1100m Regional Ecosystems Information

| Label | Regional Ecosystem (this is a mandatory essential habitat factor, unless otherwise stated)  |
|-------|---|
| 803   | 11.1.4, 11.2.1, 11.2.2, 11.2.3, 11.2.5, 11.3.1, 11.3.2, 11.3.3, 11.3.4, 11.3.6, 11.3.8, 11.3.9, 11.3.10, 11.3.11, 11.3.12, 11.3.13, 11.3.14, 11.3.15, 11.3.16, 11.3.17, 11.3.18, 11.3.19, 11.3.23, 11.3.26, 11.3.27, 11.3.28, 11.3.29, 11.3.30, 11.3.35, 11.3.36, 11.3.37, 11.3.39, 11.4.1, 11.4.2, 11.4.3, 11.4.5, 11.4.6, 11.4.7, 11.4.8, 11.4.9, 11.4.10, 11.4.12, 11.4.3, 11.5.1, 11.5.2, 11.5.3, 11.5.4, 11.5.5, 11.5.7, 11.5.8, 11.5.9, 11.5.12, 11.5.12, 11.5.13, 11.5.14, 11.5.15, 11.5.16, 11.5.17, 11.5.20, 11.5.20, 11.5.21, 11.7.1, 11.7.2, 11.7.4, 11.7.6, 11.8.1, 11.8.1, 11.8.2, 11.8.3, 11.8.4, 11.8.1, 11.8.15, 11.9.1, 11.9.2, 11.9.3, 11.9.4, 11.9.5, 11.9.6, 11.9.7, 11.9.8, 11.9.9, 11.9.10, 11.9.13, 11.9.14, 11.10.1, 11.10.2, 11.10.3, 11.10.4, 11.10.5, 11.10.6, 11.10.7, 11.10.8, 11.10.9, 11.10.1, 11.10.1, 11.11.1, 11.11.10, |

| Label | Regional Ecosystem (this is a mandatory essential habitat factor, unless otherwise stated)   |
|-------|--|
| 706   | 8.15, 8.21, 8.22, 8.23, 8.24, 8.25, 8.26, 8.27, 8.28, 8.211, 8.212, 8.213, 8.31, 8.32, 8.33, 8.35, 8.36, 8.38, 8.3.9, 8.3.10, 8.3.11, 8.313, 8.51, 8.52, 8.53, 8.55, 8.56, 8.81, 8.91, 8.11.1, 8.11.2, 8.11.3, 8.11.4, 8.11.5, 8.11.6, 8.11.8, 8.12.1, 8.12.2, 8.12.3, 8.12.4, 8.12.5, 8.12.6, 8.12.7, 8.12.8, 8.12.9, 8.12.10, 8.12.11, 8.12.12, 8.12.14, 8.12.16, 8.12.17, 8.12.18, 8.12.19, 8.12.20, 8.12.20, 8.12.22, 8.12.23, 8.12.25, 8.12.26, 8.12.27, 8.12.28, 8.12.29, 8.12.30, 8.12.31, 8.12.32, 11.4, 11.2.1, 11.2.1, 11.2.2, 11.2.3, 11.2.5, 11.3.1, 11.3.2, 11.3.3, 11.3.4, 11.3.5, 11.3.6, 11.3.7, 11.3.8, 11.3.3, 11.3.4, 11.3.15, 11.3.16, 11.3.17, 11.3.18, 11.3.9, 11.3.20, 11.3.26, 11.3.27, 11.3.28, 11.3.29, 11.3.30, 11.3.32, 11.3.33, 11.3.34, 11.3.35, 11.3.36, 11.3.37, 11.3.38, 11.3.39, 11.3.39, 11.3.30, 11.3.32, 11.3.33, 11.3.34, 11.3.35, 11.3.36, 11.3.37, 11.3.38, 11.3.39, 11.3.39, 11.3.50, 11.3.26, 11.3.26, 11.3.26, 11.3.29, 11.3.29, 11.3.30, 11.3.32, 11.3.33, 11.3.34, 11.3.36, 11.3.37, 11.3.38, 11.3.39, 11.3.39, 11.3.5, 11.4.6, 11.4.7, 11.4.8, 11.4.9, 11.4.10, 11.4.12, 11.4.12, 11.4.13, 11.5.14, 11.5.15, 11.5.14, 11.5.15, 11.5.14, 11.5.17, 11.5.20, 11.5.21, 11.7.1, 11.7.2, 11.7.3, 11.7.4, 11.7.6, 11.7.7, 11.8.1, 11.8.2, 11.8.3, 11.8.4, 11.8.5, 11.8.6, 11.8.9, 11.8.11, 11.8.1, 11.8.1, 11.8.15, 11.9.1, 11.9.2, 11.1.9.1, 11.9.1, 11.1.04, 11.10.4, 11.10.4, 11.10.4, 11.10.4, 11.10.4, 11.10.4, 11.10.4, 11.10.4, 11.10.4, 11.10.4, 11.10.4, 11.10.4, 11.10.4, 11.10.4, 11.10.4, 11.10.4, 11.1.11, 11.11.11, 11. |
| 595   | 12.1.1, 12.2.1, 12.2.2, 12.2.3, 12.2.4, 12.2.5, 12.2.7, 12.2.8, 12.3.1, 12.3.2, 12.3.3, 12.3.4, 12.3.5, 12.3.7, 12.3.9, 12.3.10, 12.3.11, 12.3.15, 12.5.1, 12.5.3, 12.5.6, 12.5.13, 12.8.1, 12.8.2, 12.8.3, 12.8.4, 12.8.5, 12.8.4, 12.8.5, 12.8.6, 12.8.7, 12.8.10, 12.8.11, 12.8.12, 12.8.13, 12.8.14, 12.8.18, 12.8.21, 12.8.22, 12.8.23, 12.8.24, 12.8.25, 12.8.26, 12.9-10.1, 12.9-10.2, 12.9-10.2, 12.9-10.4, 12.9-10.4, 12.9-10.6, 12.9-10.10, 12.9-10.11, 12.9-10.14, 12.9-10.15, 12.9-10.16, 12.9-10.17, 12.9-10.18, 12.9-10.20, 12.9-10.20, 12.9-10.21, 12.9-10.23, 12.9-10.24, 12.11.1, 12.11.2, 12.11.3, 12.11.4, 12.11.5, 12.11.6, 12.11.9, 12.11.0, 12.11.1,  |
| 1952  | 12.1.1, 12.2.1, 12.2.2, 12.2.3, 12.2.4, 12.2.5, 12.2.7, 12.2.8, 12.3.1, 12.3.2, 12.3.3, 12.3.4, 12.3.5, 12.3.7, 12.3.9, 12.3.10, 12.3.11, 12.3.15, 12.5.1, 12.5.3, 12.5.6, 12.5.13, 12.8.1, 12.8.2, 12.8.3, 12.8.4, 12.8.5, 12.8.6, 12.8.7, 12.8.8, 12.8.9, 12.8.10, 12.8.11, 12.8.12, 12.8.13, 12.8.14, 12.8.18, 12.8.21, 12.8.22, 12.8.23, 12.8.24, 12.8.25, 12.8.26, 12.9-10.1, 12.9-10.2, 12.9-10.2, 12.9-10.4, 12.9-10.4, 12.9-10.14, 12.9-10.16, 12.9-10.17, 12.9-10.19, 12.9-10.19, 12.9-10.20, 12.9-10.21, 12.9-10.23, 12.9-10.24, 12.11.1, 12 |
| 16748 | 12.8.3, 12.11.1, 12.11.5, 12.11.10, 12.12.16   |
| 2014  | 12.2.1, 12.2.2, 12.2.3, 12.5.13, 12.8.3, 12.8.4, 12.8.5, 12.8.6, 12.8.7, 12.8.13, 12.8.18, 12.8.21, 12.8.22, 12.9-10.16, 12.11.1, 12.11.4, 12.11.10, 12.11.11, 12.11.12, 12.11.13, 12.12.1, 12.12.13, 12.12.16, 12.12.17, 12.12.18   |

#### Essential habitat in Category A and B (Remnant vegetation) areas:1100m Species Information

| Label | Scientific Name   | Common Name | NCA Status | Vegetation Community  | Altitude               | Soils               | Position in<br>Landscape |
|-------|---|-------------|------------|---|------------------------|---------------------|--------------------------|
| 29186 | Phascolarctos cinereus<br>(southeast Queensland<br>bioregion) | Koala       | V          | 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) at least 1 of the following species: Eucalyptus tereticornis, E. fibrosa, E. propinqua; E. umbra, E. grandis, E. microcorys, E. tindaliae, E. resinifera, E. populnea, E. robusta, E. nigra, E. racemosa, E. crebra, E. exserta, E. seeana, Lophostemon confertus, L. suaveolens, Melaleuca quinquenervia. | Sea level to<br>1000m. | no soil information | None                     |

#### Essential habitat in Category A and B (Remnant vegetation) areas:1100m Regional Ecosystems Information

| Label | Regional Ecosystem (this is a mandatory essential habitat factor, unless otherwise stated)   |
|-------|--|
| 29186 | 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 |

Essential habitat in Category C (High value regrowth vegetation) areas:1100m Species Information - (no results)

Essential habitat in Category C (High value regrowth vegetation) areas:1100m Regional Ecosystems Information - (no results)

### **ATTACHMENT 11**

### **WILDLIFE ONLINE EXTRACT**

(Source: DEHP/DSITIA)





#### Wildlife Online Extract

Search Criteria: Species List for a Specified Point

Species: All Type: Native Status: All Records: All

Date: All

Latitude: 27.9553 Longitude: 153.2104

Distance: 5

Email: mark@byrnslardner.com.au

Date submitted: Wednesday 12 Jun 2013 14:43:44 Date extracted: Wednesday 12 Jun 2013 14:50:07

The number of records retrieved = 853

#### **Disclaimer**

As the DSITIA is still in a process of collating and vetting data, it is possible the information given is not complete. The information provided should only be used for the project for which it was requested and it should be appropriately acknowledged as being derived from Wildlife Online when it is used.

The State of Queensland does not invite reliance upon, nor accept responsibility for this information. Persons should satisfy themselves through independent means as to the accuracy and completeness of this information.

No statements, representations or warranties are made about the accuracy or completeness of this information. The State of Queensland disclaims all responsibility for this information and all liability (including without limitation, liability in negligence) for all expenses, losses, damages and costs you may incur as a result of the information being inaccurate or incomplete in any way for any reason.

| Kingdom | Class      | Family          | Scientific Name                        | Common Name                | I | Q             | Α | Records |
|---------|------------|-----------------|--|----------------------------|---|---------------|---|---------|
| animals | amphibians | Hylidae         | Litoria fallax                         | eastern sedgefrog          |   | С             |   | 12      |
| animals | amphibians | Hylidae         | Litoria nasuta                         | striped rocketfrog         |   | С             |   | 3       |
| animals | amphibians | Hylidae         | Litoria pearsoniana                    | cascade treefrog           |   | V             |   | 16      |
| animals | amphibians | Hylidae         | Litoria latopalmata                    | broad palmed rocketfrog    |   | С             |   | 13      |
| animals | amphibians | Hylidae         | Litoria verreauxii                     | whistling treefrog         |   | Č             |   | 5       |
| animals | amphibians | Hylidae         | Litoria gracilenta                     | graceful treefrog          |   | Ċ             |   | 14      |
| animals | amphibians | Hylidae         | Litoria wilcoxii                       | eastern stony creek frog   |   | C<br>C        |   | 6       |
| animals | amphibians | Hylidae         | Litoria revelata                       | whirring treefrog          |   | NT            |   | 2/1     |
| animals | amphibians | Hylidae         | Litoria caerulea                       | common green treefrog      |   |               |   | 19/1    |
| animals | amphibians | Hylidae         | Litoria rubella                        | ruddy treefrog             |   | C<br>C        |   | 16      |
| animals | amphibians | Hylidae         | Litoria peronii                        | emerald spotted treefrog   |   | Č             |   | 16      |
| animals | amphibians | Hylidae         | Litoria dentata                        | bleating treefrog          |   | C             |   | 4/1     |
|         |            |                 | Litoria deritata<br>Litoria chloris    |                            |   | C<br>C<br>C   |   |         |
| animals | amphibians | Hylidae         |  | orange eyed treefrog       |   | $\mathcal{C}$ |   | 15      |
| animals | amphibians | Hylidae         | Litoria tyleri                         | southern laughing treefrog |   | C             |   | 3       |
| animals | amphibians | Limnodynastidae | Limnodynastes tasmaniensis             | spotted grassfrog          |   | С             |   | 3/2     |
| animals | amphibians | Limnodynastidae | Adelotus brevis                        | tusked frog                |   | V             |   | 17      |
| animals | amphibians | Limnodynastidae | Lechriodus fletcheri                   | black soled frog           |   | С             |   | 10/1    |
| animals | amphibians | Limnodynastidae | Limnodynastes peronii                  | striped marshfrog          |   | C<br>C        |   | 34      |
| animals | amphibians | Limnodynastidae | Platyplectrum ornatum                  | ornate burrowing frog      |   | C             |   | 2       |
| animals | amphibians | Limnodynastidae | Limnodynastes terraereginae            | scarlet sided pobblebonk   |   | С             |   | 8       |
| animals | amphibians | Myobatrachidae  | Mixophyes sp.                          |                            |   |               |   | 3       |
| animals | amphibians | Myobatrachidae  | Uperoleia fusca                        | dusky gungan               |   | С             |   | 2       |
| animals | amphibians | Myobatrachidae  | Crinia signifera                       | clicking froglet           |   | C<br>C        |   | 1       |
| animals | amphibians | Myobatrachidae  | Pseudophryne raveni                    | copper backed broodfrog    |   | C<br>C        |   | 1/1     |
| animals | amphibians | Myobatrachidae  | Crinia parinsignifera                  | beeping froglet            |   | С             |   | 3       |
| animals | amphibians | Myobatrachidae  | Pseudophryne coriacea                  | red backed broodfrog       |   | С             |   | 2       |
| animals | amphibians | Myobatrachidae  | Mixophyes fasciolatus                  | great barred frog          |   | C<br>C        |   | 31/1    |
| animals | birds      | Acanthizidae    | Acanthiza nana                         | yellow thornbill           |   | С             |   | 5       |
| animals | birds      | Acanthizidae    | Acanthiza chrysorrhoa                  | yellow-rumped thornbill    |   | C             |   | 1       |
| animals | birds      | Acanthizidae    | Sericornis frontalis                   | white-browed scrubwren     |   | Č             |   | 116     |
| animals | birds      | Acanthizidae    | Smicrornis brevirostris                | weebill                    |   | C<br>C        |   | 5       |
| animals | birds      | Acanthizidae    | Sericornis citreogularis               | yellow-throated scrubwren  |   | Č             |   | 20      |
| animals | birds      | Acanthizidae    | Gerygone albogularis                   | white-throated gerygone    |   | Ċ             |   | 2       |
| animals | birds      | Acanthizidae    | Acanthiza reguloides                   | buff-rumped thornbill      |   | C<br>C        |   | 3       |
| animals | birds      | Acanthizidae    | Acanthiza pusilla                      | brown thornbill            |   | Č             |   | 162     |
| animals | birds      | Acanthizidae    | Acanthiza jusilia<br>Acanthiza lineata | striated thornbill         |   | Č             |   | 41      |
| animals | birds      | Acanthizidae    |  | Striated thornbill         |   | C             |   | 41      |
|         |            |                 | Sericornis sp.                         | brown gorvanno             |   | 0             |   | 74      |
| animals | birds      | Acanthizidae    | Gerygone mouki                         | brown gerygone             |   | C             |   | 74      |
| animals | birds      | Acanthizidae    | Sericornis magnirostra                 | large-billed scrubwren     |   | C             |   | 104     |
| animals | birds      | Accipitridae    | Haliastur sphenurus                    | whistling kite             |   | С             |   | 6       |
| animals | birds      | Accipitridae    | Aviceda subcristata                    | Pacific baza               |   | С             |   | 37      |
| animals | birds      | Accipitridae    | Accipiter novaehollandiae              | grey goshawk               |   | NT            |   | 25      |
| animals | birds      | Accipitridae    | Accipiter cirrocephalus                | collared sparrowhawk       |   | C             |   | 3       |
| animals | birds      | Accipitridae    | Aquila audax                           | wedge-tailed eagle         |   | С             |   | 33      |
| animals | birds      | Accipitridae    | Accipiter fasciatus                    | brown goshawk              |   | C<br>C        |   | 10      |
| animals | birds      | Accipitridae    | Elanus axillaris                       | black-shouldered kite      |   | С             |   | 10      |

| Kingdom | Class | Family        | Scientific Name                | Common Name                          | l Q | Α | Records |
|---------|-------|---------------|--------------------------------|--------------------------------------|-----|---|---------|
| animals | birds | Accipitridae  | Haliastur indus                | brahminy kite                        | С   |   | 1       |
| animals | birds | Accipitridae  | Elanus scriptus                | letter-winged kite                   | С   |   | 1       |
| animals | birds | Accipitridae  | Haliaeetus leucogaster         | white-bellied sea-eagle              | С   |   | 2       |
| animals | birds | Aegothelidae  | Aegotheles cristatus           | Australian owlet-nightjar            | С   |   | 1       |
| animals | birds | Alcedinidae   | Ceyx azureus                   | azure kingfisher                     | С   |   | 15      |
| animals | birds | Anatidae      | Chenonetta jubata              | Australian wood duck                 | С   |   | 42      |
| animals | birds | Anatidae      | Dendrocygna eytoni             | plumed whistling-duck                | С   |   | 2       |
| animals | birds | Anatidae      | Dendrocygna arcuata            | wandering whistling-duck             | С   |   | 2       |
| animals | birds | Anatidae      | Anas superciliosa              | Pacific black duck                   | С   |   | 58      |
| animals | birds | Anhingidae    | Anhinga novaehollandiae        | Australasian darter                  | С   |   | 9       |
| animals | birds | Anseranatidae | Anseranas semipalmata          | magpie goose                         | С   |   | 5       |
| animals | birds | Apodidae      | Apus pacificus                 | fork-tailed swift                    | С   |   | 1       |
| animals | birds | Apodidae      | Hirundapus caudacutus          | white-throated needletail            | С   |   | 8       |
| animals | birds | Ardeidae      | Egretta garzetta               | little egret                         | С   |   | 7       |
| animals | birds | Ardeidae      | Ardea ibis                     | cattle egret                         | С   |   | 44      |
| animals | birds | Ardeidae      | Ardea modesta                  | eastern great egret                  | С   |   | 5       |
| animals | birds | Ardeidae      | Ardea pacifica                 | white-necked heron                   | С   |   | 10      |
| animals | birds | Ardeidae      | Ardea intermedia               | intermediate egret                   | С   |   | 6       |
| animals | birds | Ardeidae      | Egretta novaehollandiae        | white-faced heron                    | С   |   | 37      |
| animals | birds | Ardeidae      | Nycticorax caledonicus         | Nankeen night-heron                  | С   |   | 1       |
| animals | birds | Artamidae     | Cracticus nigrogularis         | pied butcherbird                     | С   |   | 167     |
| animals | birds | Artamidae     | Cracticus torquatus            | grey butcherbird                     | С   |   | 104     |
| animals | birds | Artamidae     | Artamus cyanopterus            | dusky woodswallow                    | С   |   | 4       |
| animals | birds | Artamidae     | Cracticus tibicen              | Australian magpie                    | С   |   | 238     |
| animals | birds | Artamidae     | Strepera graculina             | pied currawong                       | С   |   | 279     |
| animals | birds | Burhinidae    | Burhinus grallarius            | bush stone-curlew                    | С   |   | 1       |
| animals | birds | Cacatuidae    | Eolophus roseicapillus         | galah                                | С   |   | 40      |
| animals | birds | Cacatuidae    | Calyptorhynchus banksii        | red-tailed black-cockatoo            | С   |   | 4       |
| animals | birds | Cacatuidae    | Calyptorhynchus lathami        | glossy black-cockatoo                | V   |   | 35      |
| animals | birds | Cacatuidae    | Calyptorhynchus funereus       | yellow-tailed black-cockatoo         | С   |   | 64      |
| animals | birds | Cacatuidae    | Cacatua galerita               | sulphur-crested cockatoo             | С   |   | 87      |
| animals | birds | Cacatuidae    | Calyptorhynchus sp.            | ·                                    |     |   | 3       |
| animals | birds | Cacatuidae    | Cacatua sanguinea              | little corella                       | С   |   | 2       |
| animals | birds | Campephagidae | Coracina novaehollandiae       | black-faced cuckoo-shrike            | С   |   | 139     |
| animals | birds | Campephagidae | Coracina tenuirostris          | cicadabird                           | С   |   | 53      |
| animals | birds | Campephagidae | Coracina papuensis             | white-bellied cuckoo-shrike          | С   |   | 5       |
| animals | birds | Campephagidae | Coracina lineata               | barred cuckoo-shrike                 | С   |   | 10      |
| animals | birds | Campephagidae | Lalage leucomela               | varied triller                       | С   |   | 15      |
| animals | birds | Charadriidae  | Vanellus miles novaehollandiae | masked lapwing (southern subspecies) | С   |   | 70      |
| animals | birds | Charadriidae  | Vanellus miles                 | masked lapwing                       | С   |   | 9       |
| animals | birds | Charadriidae  | Erythrogonys cinctus           | red-kneed dotterel                   | С   |   | 1       |
| animals | birds | Ciconiidae    | Ephippiorhynchus asiaticus     | black-necked stork                   | NT  |   | 1       |
| animals | birds | Cisticolidae  | Cisticola exilis               | golden-headed cisticola              | С   |   | 12      |
| animals | birds | Climacteridae | Cormobates leucophaea          | white-throated treecreeper           | С   |   | 33      |
| animals | birds | Climacteridae | Climacteris erythrops          | red-browed treecreeper               | NT  |   | 1       |
| animals | birds | Climacteridae | Climacteris picumnus           | brown treecreeper                    | С   |   | 1       |

| Kingdom | Class | Family        | Scientific Name                  | Common Name                           | 1 | Q      | Α | Records |
|---------|-------|---------------|----------------------------------|---------------------------------------|---|--------|---|---------|
| animals | birds | Climacteridae | Cormobates leucophaea metastasis | white-throated treecreeper (southern) |   | С      |   | 57      |
| animals | birds | Columbidae    | Ptilinopus regina <sup>'</sup>   | rose-crowned fruit-dove               |   | С      |   | 22      |
| animals | birds | Columbidae    | Chalcophaps indica               | emerald dove                          |   | С      |   | 15      |
| animals | birds | Columbidae    | Geopelia humeralis               | bar-shouldered dove                   |   | С      |   | 102     |
| animals | birds | Columbidae    | Leucosarcia picata               | wonga pigeon                          |   | С      |   | 50      |
| animals | birds | Columbidae    | Ptilinopus superbus              | superb fruit-dove                     |   | С      |   | 2       |
| animals | birds | Columbidae    | Ptilinopus magnificus            | wompoo fruit-dove                     |   | С      |   | 92/1    |
| animals | birds | Columbidae    | Macropygia amboinensis           | brown cuckoo-dove                     |   | С      |   | 164     |
| animals | birds | Columbidae    | Lopholaimus antarcticus          | topknot pigeon                        |   | С      |   | 67      |
| animals | birds | Columbidae    | Phaps elegans                    | brush bronzewing                      |   | С      |   | 1       |
| animals | birds | Columbidae    | Geopelia striata                 | peaceful dove                         |   | С      |   | 23      |
| animals | birds | Columbidae    | Columba leucomela                | white-headed pigeon                   |   | С      |   | 30      |
| animals | birds | Columbidae    | Ocyphaps lophotes                | crested pigeon                        |   | С      |   | 90      |
| animals | birds | Columbidae    | Phaps chalcoptera                | common bronzewing                     |   | С      |   | 3       |
| animals | birds | Coraciidae    | Eurystomus orientalis            | dollarbird                            |   | С      |   | 65      |
| animals | birds | Corvidae      | Corvus orru                      | Torresian crow                        |   | С      |   | 236     |
| animals | birds | Corvidae      | Corvus coronoides                | Australian raven                      |   |        |   | 1       |
| animals | birds | Cuculidae     | Cacomantis variolosus            | brush cuckoo                          |   | CCC    |   | 18      |
| animals | birds | Cuculidae     | Cacomantis pallidus              | pallid cuckoo                         |   | Ċ      |   | 3       |
| animals | birds | Cuculidae     | Chalcites lucidus                | shining bronze-cuckoo                 |   | С      |   | 15      |
| animals | birds | Cuculidae     | Chalcites basalis                | Horsfield's bronze-cuckoo             |   | С      |   | 6       |
| animals | birds | Cuculidae     | Centropus phasianinus            | pheasant coucal                       |   | Č      |   | 93      |
| animals | birds | Cuculidae     | Cacomantis flabelliformis        | fan-tailed cuckoo                     |   | Č      |   | 53      |
| animals | birds | Cuculidae     | Scythrops novaehollandiae        | channel-billed cuckoo                 |   | Č      |   | 46      |
| animals | birds | Cuculidae     | Eudynamys orientalis             | eastern koel                          |   | Č      |   | 77      |
| animals | birds | Dicruridae    | Dicrurus bracteatus              | spangled drongo                       |   | Č      |   | 81      |
| animals | birds | Estrildidae   | Taeniopygia bichenovii           | double-barred finch                   |   | C<br>C |   | 5       |
| animals | birds | Estrildidae   | Stagonopleura guttata            | diamond firetail                      |   | Č      |   | 1       |
| animals | birds | Estrildidae   | Lonchura castaneothorax          | chestnut-breasted mannikin            |   | C      |   | 4       |
| animals | birds | Estrildidae   | Neochmia temporalis              | red-browed finch                      |   | Č      |   | 96      |
| animals | birds | Falconidae    | Falco berigora                   | brown falcon                          |   | Č      |   | 5       |
| animals | birds | Falconidae    | Falco subniger                   | black falcon                          |   | C      |   | 1       |
| animals | birds | Falconidae    | Falco longipennis                | Australian hobby                      |   | Č      |   | 1       |
| animals | birds | Falconidae    | Falco cenchroides                | nankeen kestrel                       |   | С      |   | 14      |
| animals | birds | Falconidae    | Falco peregrinus                 | peregrine falcon                      |   | С      |   | 4       |
| animals | birds | Halcyonidae   | Todiramphus sanctus              | sacred kingfisher                     |   | Č      |   | 4       |
| animals | birds | Halcyonidae   | Dacelo novaeguineae              | laughing kookaburra                   |   | Č      |   | 304     |
| animals | birds | Halcyonidae   | Dacelo leachii                   | blue-winged kookaburra                |   | Č      |   | 1       |
| animals | birds | Halcyonidae   | Todiramphus macleayii            | forest kingfisher                     |   | Č      |   | 34      |
| animals | birds | Hirundinidae  | Hirundo sp.                      | g                                     |   | _      |   | 2       |
| animals | birds | Hirundinidae  | Petrochelidon nigricans          | tree martin                           |   | С      |   | 20      |
| animals | birds | Hirundinidae  | Hirundo neoxena                  | welcome swallow                       |   | Č      |   | 109     |
| animals | birds | Maluridae     | Malurus melanocephalus           | red-backed fairy-wren                 |   | č      |   | 49      |
| animals | birds | Maluridae     | Malurus cyaneus                  | superb fairy-wren                     |   | Č      |   | 51      |
| animals | birds | Maluridae     | Malurus lamberti                 | variegated fairy-wren                 |   | C<br>C |   | 39      |
| animals | birds | Megaluridae   | Megalurus gramineus              | little grassbird                      |   | Č      |   | 1       |

| Kingdom | Class | Family            | Scientific Name              | Common Name               | I | Q  | Α | Records |
|---------|-------|-------------------|------------------------------|---------------------------|---|----|---|---------|
| animals | birds | Megaluridae       | Megalurus timoriensis        | tawny grassbird           |   | С  |   | 2       |
| animals | birds | Megapodiidae      | Alectura lathami             | Australian brush-turkey   |   | С  |   | 228     |
| animals | birds | Meliphagidae      | Melithreptus lunatus         | white-naped honeyeater    |   | С  |   | 11      |
| animals | birds | Meliphagidae      | Philemon corniculatus        | noisy friarbird           |   | С  |   | 39      |
| animals | birds | Meliphagidae      | Manorina melanocephala       | noisy miner               |   | С  |   | 175     |
| animals | birds | Meliphagidae      | Myzomela sanguinolenta       | scarlet honeyeater        |   | С  |   | 41      |
| animals | birds | Meliphagidae      | Philemon citreogularis       | little friarbird          |   | С  |   | 16      |
| animals | birds | Meliphagidae      | Anthochaera carunculata      | red wattlebird            |   | С  |   | 6       |
| animals | birds | Meliphagidae      | Anthochaera chrysoptera      | little wattlebird         |   | С  |   | 75      |
| animals | birds | Meliphagidae      | Phylidonyris novaehollandiae | New Holland honeyeater    |   | С  |   | 3       |
| animals | birds | Meliphagidae      | Lichmera indistincta         | brown honeyeater          |   | С  |   | 40      |
| animals | birds | Meliphagidae      | Entomyzon cyanotis           | blue-faced honeyeater     |   | С  |   | 25      |
| animals | birds | Meliphagidae      | Caligavis chrysops           | yellow-faced honeyeater   |   | С  |   | 58      |
| animals | birds | Meliphagidae      | Meliphaga lewinii            | Lewin's honeyeater        |   | С  |   | 267     |
| animals | birds | Meliphagidae      | Acanthorhynchus tenuirostris | eastern spinebill         |   | С  |   | 81      |
| animals | birds | Meliphagidae      | Melithreptus albogularis     | white-throated honeyeater |   | С  |   | 28      |
| animals | birds | Meliphagidae      | Manorina melanophrys         | bell miner                |   | С  |   | 1       |
| animals | birds | Menuridae         | Menura alberti               | Albert's lyrebird         |   | NT |   | 326     |
| animals | birds | Meropidae         | Merops ornatus               | rainbow bee-eater         |   | С  |   | 16      |
| animals | birds | Monarchidae       | Monarcha melanopsis          | black-faced monarch       |   | C  |   | 44      |
| animals | birds | Monarchidae       | Carterornis leucotis         | white-eared monarch       |   | С  |   | 5       |
| animals | birds | Monarchidae       | Symposiarchus trivirgatus    | spectacled monarch        |   | Č  |   | 46      |
| animals | birds | Monarchidae       | Myiagra inquieta             | restless flycatcher       |   | C  |   | 5       |
| animals | birds | Monarchidae       | Myiagra rubecula             | leaden flycatcher         |   | С  |   | 8       |
| animals | birds | Monarchidae       | Grallina cyanoleuca          | magpie-lark               |   | Č  |   | 92      |
| animals | birds | Motacillidae      | Anthus novaeseelandiae       | Australasian pipit        |   | С  |   | 9       |
| animals | birds | Nectariniidae     | Dicaeum hirundinaceum        | mistletoebird             |   | Č  |   | 28      |
| animals | birds | Neosittidae       | Daphoenositta chrysoptera    | varied sittella           |   | C  |   | 8       |
| animals | birds | Oriolidae         | Oriolus sagittatus           | olive-backed oriole       |   | С  |   | 31      |
| animals | birds | Oriolidae         | Sphecotheres vieilloti       | Australasian figbird      |   | Č  |   | 92      |
| animals | birds | Orthonychidae     | Orthonyx temminckii          | Australian logrunner      |   | C  |   | 125     |
| animals | birds | Pachycephalidae   | Colluricincla megarhyncha    | little shrike-thrush      |   | С  |   | 75      |
| animals | birds | Pachycephalidae   | Pachycephala rufiventris     | rufous whistler           |   | С  |   | 27      |
| animals | birds | Pachycephalidae   | Pachycephala pectoralis      | golden whistler           |   | C  |   | 131     |
| animals | birds | Pachycephalidae   | Colluricincla harmonica      | grey shrike-thrush        |   | С  |   | 127     |
| animals | birds | Pachycephalidae   | Falcunculus frontatus        | crested shrike-tit        |   | C  |   | 2       |
| animals | birds | Paradisaeidae     | Ptiloris paradiseus          | paradise riflebird        |   | С  |   | 10      |
| animals | birds | Pardalotidae      | Pardalotus striatus          | striated pardalote        |   | C  |   | 105     |
| animals | birds | Pardalotidae      | Pardalotus punctatus         | spotted pardalote         |   | Č  |   | 88      |
| animals | birds | Petroicidae       | Melanodryas cucullata        | hooded robin              |   | Č  |   | 1       |
| animals | birds | Petroicidae       | Eopsaltria australis         | eastern yellow robin      |   | С  |   | 62      |
| animals | birds | Petroicidae       | Petroica rosea               | rose robin                |   | Č  |   | 56      |
| animals | birds | Petroicidae       | Tregellasia capito           | pale-yellow robin         |   | Č  |   | 117     |
| animals | birds | Phalacrocoracidae | Microcarbo melanoleucos      | little pied cormorant     |   | Č  |   | 8       |
| animals | birds | Phalacrocoracidae | Phalacrocorax sulcirostris   | little black cormorant    |   | Č  |   | 8       |
| animals | birds | Phalacrocoracidae | Phalacrocorax varius         | pied cormorant            |   | Č  |   | 10      |

| Kingdom | Class | Family            | Scientific Name                     | Common Name                 | 1 | Q  | Α | Records |
|---------|-------|-------------------|-------------------------------------|-----------------------------|---|----|---|---------|
| animals | birds | Phalacrocoracidae | Phalacrocorax carbo                 | great cormorant             |   | С  |   | 1       |
| animals | birds | Phasianidae       | Coturnix sp.                        | 3                           |   |    |   | 1       |
| animals | birds | Phasianidae       | Coturnix ypsilophora                | brown quail                 |   | С  |   | 6       |
| animals | birds | Pittidae          | Pitta versicolor                    | noisy pitta                 |   | С  |   | 30      |
| animals | birds | Podargidae        | Podargus strigoides                 | tawny frogmouth             |   | С  |   | 79      |
| animals | birds | Podargidae        | Podargus ocellatus plumiferus       | plumed frogmouth            |   | V  |   | 17      |
| animals | birds | Podargidae        | Podargus ocellatus marmoratus       | marbled frogmouth           |   | С  |   | 2       |
| animals | birds | Podicipedidae     | Tachybaptus novaehollandiae         | Australasian grebe          |   | С  |   | 3       |
| animals | birds | Pomatostomidae    | Pomatostomus temporalis             | grey-crowned babbler        |   | С  |   | 8       |
| animals | birds | Psittacidae       | Platycercus elegans                 | crimson rosella             |   | С  |   | 212     |
| animals | birds | Psittacidae       | Glossopsitta pusilla                | little lorikeet             |   | С  |   | 18      |
| animals | birds | Psittacidae       | Trichoglossus haematodus moluccanus | rainbow lorikeet            |   | С  |   | 266     |
| animals | birds | Psittacidae       | Trichoglossus chlorolepidotus       | scaly-breasted lorikeet     |   | С  |   | 111     |
| animals | birds | Psittacidae       | Aprosmictus erythropterus           | red-winged parrot           |   | С  |   | 2       |
| animals | birds | Psittacidae       | Glossopsitta concinna               | musk lorikeet               |   | С  |   | 1       |
| animals | birds | Psittacidae       | Platycercus eximius                 | eastern rosella             |   | С  |   | 27      |
| animals | birds | Psittacidae       | Alisterus scapularis                | Australian king-parrot      |   | С  |   | 184     |
| animals | birds | Psittacidae       | Barnardius zonarius                 | Australian ringneck         |   | С  |   | 1       |
| animals | birds | Psittacidae       | Platycercus adscitus                | pale-headed rosella         |   | С  |   | 174     |
| animals | birds | Psophodidae       | Cinclosoma punctatum                | spotted quail-thrush        |   | С  |   | 3       |
| animals | birds | Psophodidae       | Psophodes olivaceus                 | eastern whipbird            |   | С  |   | 241     |
| animals | birds | Ptilonorhynchidae | Ptilonorhynchus violaceus           | satin bowerbird             |   | С  |   | 194     |
| animals | birds | Ptilonorhynchidae | Sericulus chrysocephalus            | regent bowerbird            |   | С  |   | 82      |
| animals | birds | Ptilonorhynchidae | Ailuroedus crassirostris            | green catbird               |   | С  |   | 108     |
| animals | birds | Rallidae          | Fulica atra                         | Eurasian coot               |   | С  |   | 2       |
| animals | birds | Rallidae          | Porphyrio porphyrio                 | purple swamphen             |   | С  |   | 27      |
| animals | birds | Rallidae          | Gallinula tenebrosa                 | dusky moorhen               |   | С  |   | 12      |
| animals | birds | Rallidae          | Gallirallus philippensis            | buff-banded rail            |   | С  |   | 3       |
| animals | birds | Rallidae          | Lewinia pectoralis                  | Lewin's rail                |   | NT |   | 1       |
| animals | birds | Rhipiduridae      | Rhipidura leucophrys                | willie wagtail              |   | С  |   | 73      |
| animals | birds | Rhipiduridae      | Rhipidura rufifrons                 | rufous fantail              |   | С  |   | 50      |
| animals | birds | Rhipiduridae      | Rhipidura albiscapa                 | grey fantail                |   | С  |   | 136     |
| animals | birds | Scolopacidae      | Gallinago hardwickii                | Latham's snipe              |   | С  |   | 1       |
| animals | birds | Strigidae         | Ninox strenua                       | powerful owl                |   | V  |   | 2       |
| animals | birds | Strigidae         | Ninox boobook                       | southern boobook            |   | С  |   | 64      |
| animals | birds | Threskiornithidae | Platalea regia                      | royal spoonbill             |   | С  |   | 7       |
| animals | birds | Threskiornithidae | Platalea flavipes                   | yellow-billed spoonbill     |   | С  |   | 2       |
| animals | birds | Threskiornithidae | Threskiornis spinicollis            | straw-necked ibis           |   | С  |   | 53      |
| animals | birds | Threskiornithidae | Threskiornis molucca                | Australian white ibis       |   | С  |   | 13      |
| animals | birds | Timaliidae        | Zosterops lateralis                 | silvereye                   |   | С  |   | 103     |
| animals | birds | Turdidae          | Zoothera lunulata                   | Bassian thrush              |   | С  |   | 8       |
| animals | birds | Turdidae          | Zoothera sp.                        |                             |   |    |   | 2       |
| animals | birds | Turdidae          | Zoothera heinei                     | russet-tailed thrush        |   | С  |   | 1       |
| animals | birds | Turnicidae        | Turnix melanogaster                 | black-breasted button-quail |   | V  | V | 2       |
| animals | birds | Turnicidae        | Turnix maculosus                    | red-backed button-quail     |   | С  |   | 2       |
| animals | birds | Tytonidae         | Tyto tenebricosa tenebricosa        | sooty owl                   |   | NT |   | 62      |

| Kingdom | Class   | Family       | Scientific Name                      | Common Name                                      | I | Q | Α | Records |
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| animals | birds   | Tytonidae    | Tyto javanica                        | eastern barn owl                                 |   | С |   | 1       |
| animals | birds   | Tytonidae    | Tyto novaehollandiae novaehollandiae | masked owl (southern subspecies)                 |   | С |   | 1       |
| animals | insects | Lycaenidae   | Žizina labradus labradus             | common grass-blue (Australian subspecies)        |   |   |   | 2       |
| animals | insects | Lycaenidae   | Acrodipsas illidgei                  | Illidge's ant-blue                               |   | V |   | 1       |
| animals | insects | Nymphalidae  | Phaedyma shepherdi shepherdi         | white-banded plane (southern subspecies)         |   |   |   | 1       |
| animals | insects | Nymphalidae  | Acraea andromacha andromacha         | glasswing  |   |   |   | 2       |
| animals | insects | Nymphalidae  | Heteronympha merope merope           | common brown                                     |   |   |   | 1       |
| animals | insects | Nymphalidae  | Junonia villida calybė               | meadow argus                                     |   |   |   | 1       |
| animals | insects | Nymphalidae  | Danaus plexippus plexippus           | monarch  |   |   |   | 2       |
| animals | insects | Nymphalidae  | Doleschallia bisaltide australis     | leafwing   |   |   |   | 1       |
| animals | insects | Nymphalidae  | Hypocysta metirius                   | brown ringlet                                    |   |   |   | 2       |
| animals | insects | Nymphalidae  | Euploea core corinna                 | common crow                                      |   |   |   | 1       |
| animals | insects | Nymphalidae  | Hypocysta pseudirius                 | grey ringlet                                     |   |   |   | 1       |
| animals | insects | Nymphalidae  | Argyreus hyperbius inconstans        | Australian fritillary                            |   | Ε |   | 1       |
| animals | insects | Nymphalidae  | Vanessa itea                         | yellow admiral                                   |   | _ |   | 4       |
| animals | insects | Papilionidae | Ornithoptera richmondia              | Richmond birdwing                                |   | V |   | 22      |
| animals | insects | Papilionidae | Graphium sarpedon choredon           | blue triangle                                    |   | ٧ |   | 4       |
| animals | insects | Papilionidae | Papilio aegeus aegeus                | orchard swallowtail (Australian subspecies)      |   |   |   | 4       |
| animals | insects | Pieridae     | Delias harpalyce                     | imperial jezebel                                 |   |   |   | 2       |
| animals | insects | Pieridae     | Delias nigrina                       | black jezebel                                    |   |   |   | 4       |
| animals | insects | Pieridae     | Eurema hecabe phoebus                | large grass-yellow                               |   |   |   | 2       |
| animals | insects | Pieridae     | Belenois java teutonia               | caper white                                      |   |   |   | 1       |
| animals | insects | Pieridae     | Catopsilia gorgophone gorgophone     | yellow migrant                                   |   |   |   | 1       |
| animals | mammals | Acrobatidae  | Acrobates pygmaeus                   | feathertail glider                               |   | С |   | 3       |
|         | mammals | Canidae      | Conic lunus dingo                    |  |   | C |   | 15      |
| animals |         | Canidae      | Canis lupus dingo                    | dingo  |   |   |   | 15      |
| animals | mammals |              | Canis sp.                            | hard toiled abases as                            |   | _ |   | 3       |
| animals | mammals | Dasyuridae   | Phascogale tapoatafa                 | brush-tailed phascogale                          |   | C |   |         |
| animals | mammals | Dasyuridae   | Sminthopsis murina                   | common dunnart                                   |   | С |   | 1/1     |
| animals | mammals | Dasyuridae   | Planigale maculata                   | common planigale                                 |   | С |   | 1       |
| animals | mammals | Dasyuridae   | Antechinus sp.                       |  |   | _ |   | 1       |
| animals | mammals | Dasyuridae   | Antechinus subtropicus               |  |   | C |   | 10/1    |
| animals | mammals | Dasyuridae   | Antechinus flavipes flavipes         | yellow-footed antechinus (south-east Queensland) |   | С |   | 2       |
| animals | mammals | Dasyuridae   | Dasyurus maculatus maculatus         | spotted-tailed quoll (southern subspecies)       |   | V | Е | 1       |
| animals | mammals | Dasyuridae   | Antechinus stuartii                  | brown antechinus                                 |   | С |   | 1       |
| animals | mammals | Macropodidae | Macropus rufogriseus                 | red-necked wallaby                               |   | С |   | 15/1    |
| animals | mammals | Macropodidae | Thylogale stigmatica                 | red-legged pademelon                             |   | С |   | 4/2     |
| animals | mammals | Macropodidae | Macropus giganteus                   | eastern grey kangaroo                            |   | Č |   | 1       |
| animals | mammals | Macropodidae | Wallabia bicolor                     | swamp wallaby                                    |   | Č |   | 2       |
| animals | mammals | Macropodidae | Thylogale thetis                     | red-necked pademelon                             |   | Č |   | 25/3    |
| animals | mammals | Macropodidae | Macropus parryi                      | whiptail wallaby                                 |   | Č |   | 25      |
| animals | mammals | Macropodidae | Macropus sp.                         |  |   | _ |   | 2       |

| Kingdom | Class             | Family                    | Scientific Name   | Common Name                                 | I | Q      | Α | Records |
|---------|-------------------|---------------------------|---|---|---|--------|---|---------|
| animals | mammals           | Molossidae                | Tadarida australis                                      | white-striped freetail bat                  |   | С      |   | 2       |
| animals | mammals           | Muridae                   | Rattus fuscipes   | bush rat                                    |   | С      |   | 13      |
| animals | mammals           | Muridae                   | Rattus lutreolus  | swamp rat                                   |   | С      |   | 2       |
| animals | mammals           | Muridae                   | Melomys cervinipes                                      | fawn-footed melomys                         |   | С      |   | 5       |
| animals | mammals           | Muridae                   | Hydromys chrysogaster                                   | water rat                                   |   | Č      |   | 3       |
| animals | mammals           | Ornithorhynchidae         | Ornithorhynchus anatinus                                | platypus                                    |   | C      |   | 34/1    |
| animals | mammals           | Peramelidae               | Isoodon macrourus                                       | northern brown bandicoot                    |   | Č      |   | 26      |
| animals | mammals           | Peramelidae               | Perameles nasuta  | long-nosed bandicoot                        |   | Č      |   | 30/1    |
| animals | mammals           | Petauridae                | Petaurus sp.  | iong needs bananees                         |   | •      |   | 1       |
| animals | mammals           | Petauridae                | Petaurus australis australis                            | yellow-bellied glider (southern subspecies) |   | С      |   | 62      |
| animals | mammals           | Petauridae                | Petaurus norfolcensis                                   | squirrel glider                             |   | С      |   | 10/1    |
| animals | mammals           | Petauridae                | Petaurus breviceps                                      | sugar glider                                |   | С      |   | 21/1    |
| animals | mammals           | Phalangeridae             | Trichosurus vulpecula                                   | common brushtail possum                     |   | С      |   | 9       |
| animals | mammals           | Phalangeridae             | Trichosurus sp.   | '   |   |        |   | 1       |
| animals | mammals           | Phalangeridae             | Trichosurus caninus                                     | short-eared possum                          |   | С      |   | 52      |
| animals | mammals           | Phascolarctidae           | Phascolarctos cinereus (southeast Queensland bioregion) | koala (southeast Queensland bioregion)      |   | V      | V | 45      |
| animals | mammals           | Potoroidae                | Potorous tridactylus tridactylus                        | long-nosed potoroo                          |   | V      | V | 4/1     |
| animals | mammals           | Pseudocheiridae           | Pseudocheirus peregrinus                                | common ringtail possum                      |   | С      |   | 38      |
| animals | mammals           | Pseudocheiridae           | Petauroides volans                                      | greater glider                              |   | С      |   | 1/1     |
| animals | mammals           | Pteropodidae              | Pteropus alecto   | black flying-fox                            |   | С      |   | 5       |
| animals | mammals           | Pteropodidae Pteropodidae | Pteropus scapulatus                                     | little red flying-fox                       |   | С      |   | 5       |
| animals | mammals           | Pteropodidae Pteropodidae | Pteropus poliocephalus                                  | grey-headed flying-fox                      |   | С      | V | 21      |
| animals | mammals           | Pteropodidae              | Pteropus sp.  | <i>,</i> , , ,                              |   |        |   | 7       |
| animals | mammals           | Rhinolophidae             | Rhinolophus megaphyllus                                 | eastern horseshoe-bat                       |   | С      |   | 7       |
| animals | mammals           | Tachygİossidae            | Tachyglossus aculeatus                                  | short-beaked echidna                        |   | С      |   | 7/1     |
| animals | mammals           | Vespertilionidae          | Nyctophilus gouldi                                      | Gould's long-eared bat                      |   | С      |   | 1/1     |
| animals | mammals           | Vespertilionidae          | Vespadelus pumilus                                      | eastern forest bat                          |   | С      |   | 1       |
| animals | mammals           | Vespertilionidae          | Nyctophilus geoffroyi                                   | lesser long-eared bat                       |   | С      |   | 1       |
| animals | mammals           | Vespertilionidae          | Miniopterus schreibersii oceanensis                     | eastern bent-wing bat                       |   | С      |   | 1       |
| animals | ray-finned fishes | Anguillidae               | Anguilla reinhardtii                                    | longfin eel                                 |   |        |   | 1       |
| animals | ray-finned fishes | Melanotaeniidae           | Melanotaenia duboulayi                                  | crimsonspotted rainbowfish                  |   |        |   | 2       |
| animals | reptiles          | Agamidae                  | Intellagama lesueurii                                   | eastern water dragon                        |   | С      |   | 32      |
| animals | reptiles          | Agamidae                  | Pogona barbata  | bearded dragon                              |   | С      |   | 28      |
| animals | reptiles          | Boidae                    | Morelia spilota   | carpet python                               |   | C      |   | 57/1    |
| animals | reptiles          | Boidae                    | Morelia sp.   | 1 17  |   |        |   | 1       |
| animals | reptiles          | Boidae                    | Antaresia maculosa                                      | spotted python                              |   | С      |   | 1       |
| animals | reptiles          | Carphodactylidae          | Saltuarius swaini                                       | -1 1 7                                      |   |        |   | 40/1    |
| animals | reptiles          | Chelidae                  | Emydura macquarii macquarii                             | Murray turtle                               |   | C      |   | 7       |
| animals | reptiles          | Chelidae                  | Wollumbinia latisternum                                 | saw-shelled turtle                          |   | С      |   | 2       |
| animals | reptiles          | Chelidae                  | Chelodina longicollis                                   | eastern snake-necked turtle                 |   | Č      |   | 8       |
| animals | reptiles          | Chelidae                  | Chelodina sp.   |   |   | -      |   | 8       |
| animals | reptiles          | Colubridae                | Boiga irregularis                                       | brown tree snake                            |   | С      |   | 1       |
| animals | reptiles          | Colubridae                | Dendrelaphis punctulata                                 | common tree snake                           |   | Ć      |   | 12      |
| animals | reptiles          | Colubridae                | Tropidonophis mairii                                    | freshwater snake                            |   | C<br>C |   | 3       |

| Kingdom | Class      | Family          | Scientific Name                 | Common Name                       | I C         | <u> </u> | Records |
|---------|------------|-----------------|---------------------------------|-----------------------------------|-------------|----------|---------|
| animals | reptiles   | Diplodactylidae | Nebulifera robusta              | robust velvet gecko               | С           |          | 2/1     |
| animals | reptiles   | Diplodactylidae | Amolosia lesueurii              | Lesueur's velvet gecko            | С           |          | 13      |
| animals | reptiles   | Diplodactylidae | Oedura sp.                      |                                   |             |          | 1       |
| animals | reptiles   | Elapidae        | Pseudechis porphyriacus         | red-bellied black snake           | С           |          | 4       |
| animals | reptiles   | Elapidae        | Acanthophis antarcticus         | common death adder                | N           | T        | 1       |
| animals | reptiles   | Elapidae        | Tropidechis carinatus           | rough-scaled snake                | С           |          | 4       |
| animals | reptiles   | Elapidae        | Cryptophis nigrescens           | eastern small-eyed snake          | C<br>C<br>C |          | 5/4     |
| animals | reptiles   | Elapidae        | Cacophis squamulosus            | golden crowned snake              | С           |          | 10/4    |
| animals | reptiles   | Elapidae        | Vermicella annulata             | bandy-bandy                       | С           |          | 2       |
| animals | reptiles   | Elapidae        | Pseudonaja textilis             | eastern brown snake               | C<br>C<br>C |          | 1       |
| animals | reptiles   | Elapidae        | Demansia psammophis             | yellow-faced whip snake           | С           |          | 5/1     |
| animals | reptiles   | Elapidae        | Hemiaspis signata               | black-bellied swamp snake         | С           |          | 7/4     |
| animals | reptiles   | Elapidae        | Cacophis krefftii               | dwarf crowned snake               | С           |          | 7/1     |
| animals | reptiles   | Elapidae        | Hoplocephalus stephensii        | Stephens' banded snake            | C<br>C<br>C |          | 2       |
| animals | reptiles   | Pygopodidae     | Lialis burtonis                 | Burton's legless lizard           | С           |          | 1       |
| animals | reptiles   | Scincidae       | Eulamprus sp.                   |                                   |             |          | 3       |
| animals | reptiles   | Scincidae       | Eulamprus quoyii                | eastern water skink               | С           |          | 2/1     |
| animals | reptiles   | Scincidae       | Eulamprus tenuis                |                                   |             |          | 4/2     |
| animals | reptiles   | Scincidae       | Bellatorias major               | land mullet                       | C<br>C<br>C |          | 45/3    |
| animals | reptiles   | Scincidae       | Eulamprus martini               |                                   | C           |          | 1       |
| animals | reptiles   | Scincidae       | Eulamprus murrayi               |                                   | Č           |          | 5/1     |
| animals | reptiles   | Scincidae       | Bellatorias frerei              | major skink                       | Č           |          | 24      |
| animals | reptiles   | Scincidae       | Tiliqua scincoides              | eastern blue-tongued lizard       | C<br>C<br>C |          | 7       |
| animals | reptiles   | Scincidae       | Anomalopus verreauxii           |                                   | Č           |          | 2       |
| animals | reptiles   | Scincidae       | Lampropholis delicata           |                                   | C<br>C<br>C |          | 24/2    |
| animals | reptiles   | Scincidae       | Morethia taeniopleura           | fire-tailed skink                 | Č           |          | 1       |
| animals | reptiles   | Scincidae       | Tiliqua rugosa aspera           | shingle-back (eastern subspecies) | Č           |          | 1       |
| animals | reptiles   | Scincidae       | Calyptotis scutirostrum         | g.: (                             | C           |          | 12/3    |
| animals | reptiles   | Scincidae       | Calyptotis lepidorostrum        |                                   | Č           |          | 2       |
| animals | reptiles   | Scincidae       | Cyclodomorphus gerrardii        | pink-tongued lizard               | Č           |          | 14      |
| animals | reptiles   | Scincidae       | Saproscincus challengeri        | F seriger a                       | Č           |          | 18/3    |
| animals | reptiles   | Scincidae       | Coeranoscincus reticulatus      | three-toed snake-tooth skink      | N           | T V      | 1       |
| animals | reptiles   | Scincidae       | Carlia pectoralis sensu lato    |                                   | C           |          | 1       |
| animals | reptiles   | Scincidae       | Cryptoblepharus pulcher pulcher | elegant snake-eyed skink          | Č           |          | 6/3     |
| animals | reptiles   | Scincidae       | Saiphos equalis                 | ciegani enane eyea enini          | Č           |          | 13/4    |
| animals | reptiles   | Scincidae       | Ctenotus arcanus                |                                   | Č           |          | 3       |
| animals | reptiles   | Typhlopidae     | Ramphotyphlops nigrescens       |                                   | Č           |          | 1/1     |
| animals | reptiles   | Typhlopidae     | Ramphotyphlops sp.              |                                   | •           |          | 1       |
| animals | reptiles   | Varanidae       | Varanus sp.                     | goanna                            |             |          | 1       |
| animals | reptiles   | Varanidae       | Varanus varius                  | lace monitor                      | С           |          | 7       |
| fungi   | club fungi | Basidiomycota   | Macrolepiota clelandii          | idoo momoi                        | Č           |          | 1/1     |
| fungi   | club fungi | Basidiomycota   | Marasmius crinisequi            |                                   | C           |          | 3/3     |
| fungi   | club fungi | Basidiomycota   | Polyporus dictyopus             |                                   | C<br>C<br>C |          | 1/1     |
| fungi   | club fungi | Basidiomycota   | Lentinula lateritia             |                                   | C           |          | 1/1     |
| fungi   | club fungi | Basidiomycota   | Microporus affinis              |                                   | C           |          | 1/1     |
| fungi   | club fungi | Basidiomycota   | Russula                         |                                   | C           |          | 2/2     |
|         | Side fally | Daoidioinyoota  | , taobaia                       |                                   | O           |          | <i></i> |

| Kingdom | Class      | Family         | Scientific Name                        | Common Name       | Ī | Q      | Α | Records |
|---------|------------|----------------|--|-------------------|---|--------|---|---------|
| fungi   | club fungi | Basidiomycota  | Lepiota aspera                         |                   |   | С      |   | 1/1     |
| fungi   | club fungi | Basidiomycota  | Phellinus .                            |                   |   | С      |   | 1/1     |
| fungi   | club fungi | Basidiomycota  | Lactarius                              |                   |   | С      |   | 1/1     |
| fungi   | club fungi | Basidiomycota  | Entoloma                               |                   |   | С      |   | 1/1     |
| fungi   | club fungi | Basidiomycota  | Lactarius clarkeae                     |                   |   | С      |   | 1/1     |
| fungi   | sac fungi  | Cladoniaceae   | Cladonia ochrochlora                   |                   |   | С      |   | 1/1     |
| fungi   | sac fungi  | Cladoniaceae   | Cladonia floerkeana                    |                   |   | С      |   | 1/1     |
| fungi   | sac fungi  | Cladoniaceae   | Cladonia kuringaiensis                 |                   |   | С      |   | 2/2     |
| fungi   | sac fungi  | Collemataceae  | Physma byrsaeum                        |                   |   | С      |   | 1/1     |
| fungi   | sac fungi  | Crocyniaceae   | Crocynia glaucescens                   |                   |   | С      |   | 1/1     |
| fungi   | sac fungi  | Graphidaceae   | Glyphis cicatricosa                    |                   |   | С      |   | 1/1     |
| fungi   | sac fungi  | Haematommaceae | Haematomma africanum                   |                   |   | C      |   | 1/1     |
| fungi   | sac fungi  | Lichen         | Leproplaca                             |                   |   | С      |   | 1/1     |
| fungi   | sac fungi  | Parmeliaceae   | Parmotrema tinctorum                   |                   |   | С      |   | 1/1     |
| fungi   | sac fungi  | Parmeliaceae   | Parmotrema reticulatum                 |                   |   | С      |   | 2/2     |
| fungi   | sac fungi  | Parmeliaceae   | Relicinopsis rahengensis               |                   |   | Č      |   | 1/1     |
| fungi   | sac fungi  | Parmeliaceae   | Parmotrema                             |                   |   | Č      |   | 1/1     |
| fungi   | sac fungi  | Pertusariaceae | Pertusaria                             |                   |   | Č      |   | 1/1     |
| fungi   | sac fungi  | Physciaceae    | Dirinaria applanata                    |                   |   | Č      |   | 1/1     |
| fungi   | sac fungi  | Pyrenulaceae   | Anthracothecium gregale                |                   |   | C      |   | 1/1     |
| fungi   | sac fungi  | Ramalinaceae   | Ramalina inflata subsp. perpusilla     |                   |   | Č      |   | 6/6     |
| fungi   | sac fungi  | Ramalinaceae   | Ramalina subfraxinea                   |                   |   | Č      |   | 1/1     |
| fungi   | sac fungi  | Ramalinaceae   | Ramalina luciae                        |                   |   | Č      |   | 1/1     |
| fungi   | sac fungi  | Ramalinaceae   | Ramalina                               |                   |   | Č      |   | 2/2     |
| fungi   | sac fungi  | Usneaceae      | Usnea bismolliuscula                   |                   |   | Č      |   | 2/2     |
| fungi   | sac fungi  | Usneaceae      | Usnea molliuscula subsp. queenslandica |                   |   | Č      |   | 1/1     |
| fungi   | sac fungi  | Usneaceae      | Usnea rubrotincta                      |                   |   | C<br>C |   | 1/1     |
| fungi   | sac fungi  | Usneaceae      | Usnea sanguinea                        |                   |   | Č      |   | 1/1     |
| fungi   | sac fungi  | Usneaceae      | Usnea rubicunda                        |                   |   | Č      |   | 1/1     |
| fungi   | sac fungi  | Usneaceae      | Usnea baileyi                          |                   |   | C      |   | 1/1     |
| fungi   | sac fungi  | Usneaceae      | Usnea dasaea                           |                   |   | Č      |   | 3/3     |
| fungi   | sac fungi  | Usneaceae      | Usnea                                  |                   |   | Č      |   | 2/2     |
| fungi   | uncertain  | Ascomycota     | Hypoxylon rubiginosum var. rubiginosum |                   |   | C<br>C |   | 1/1     |
| plants  | conifers   | Cupressaceae   | Callitris macleayana                   | stringybark pine  |   | Č      |   | 2/1     |
| plants  | cycads     | Zamiaceae      | Lepidozamia peroffskyana               | shining burrawang |   | Č      |   | 5/5     |
| plants  | ferns      | Adiantaceae    | Adiantum atroviride                    | orming barramang  |   | C<br>C |   | 1/1     |
| plants  | ferns      | Adiantaceae    | Adiantum formosum                      |                   |   | Č      |   | 8/1     |
| plants  | ferns      | Adiantaceae    | Adiantum hispidulum                    |                   |   | Č      |   | 2       |
| plants  | ferns      | Adiantaceae    | Adiantum silvaticum                    |                   |   | č      |   | 2/1     |
| plants  | ferns      | Adiantaceae    | Adiantum aethiopicum                   |                   |   | č      |   | 1       |
| plants  | ferns      | Adiantaceae    | Pellaea paradoxa                       | heart fern        |   | Č      |   | 1/1     |
| plants  | ferns      | Aspleniaceae   | Asplenium australasicum                | noart form        |   | C      |   | 7/1     |
| plants  | ferns      | Aspleniaceae   | Asplenium attenuatum                   | walking fern      |   | č      |   | 1       |
| plants  | ferns      | Blechnaceae    | Doodia caudata                         | Walking Total     |   | Č      |   | 3/3     |
| plants  | ferns      | Blechnaceae    | Doodia aspera                          | prickly rasp fern |   | Č      |   | 6       |
| plants  | ferns      | Blechnaceae    | Blechnum cartilagineum                 | gristle fern      |   | Č      |   | 1       |

| Kingdom | Class         | Family           | Scientific Name                                 | Common Name              | I | Q           | Α | Records |
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| plants  | ferns         | Blechnaceae      | Blechnum patersonii                             |                          |   | С           |   | 1       |
| plants  | ferns         | Cyatheaceae      | Cyathea australis                               |                          |   | С           |   | 1       |
| plants  | ferns         | Cyatheaceae      | Cyathea leichhardtiana                          | prickly tree fern        |   | С           |   | 2       |
| plants  | ferns         | Dennstaedtiaceae | Histiopteris incisa                             | bats-wing fern           |   | С           |   | 2/1     |
| plants  | ferns         | Dennstaedtiaceae | Pteridium esculentum                            | common bracken           |   | С           |   | 2/1     |
| plants  | ferns         | Dicksoniaceae    | Calochlaena dubia                               |                          |   | C<br>C<br>C |   | 1       |
| plants  | ferns         | Dryopteridaceae  | Lastreopsis marginans                           | glossy shield fern       |   | С           |   | 4       |
| plants  | ferns         | Dryopteridaceae  | Lastreopsis microsora                           | •                        |   | C<br>C      |   | 5       |
| plants  | ferns         | Dryopteridaceae  | Lastreopsis smithiana                           |                          |   | С           |   | 1/1     |
| plants  | ferns         | Dryopteridaceae  | Lastreopsis microsora subsp. microsora          |                          |   | С           |   | 1/1     |
| plants  | ferns         | Nephrolepidaceae | Arthropteris beckleri                           |                          |   | С           |   | 2/1     |
| plants  | ferns         | Nephrolepidaceae | Nephrolepis cordifolia                          | fishbone fern            |   | CCC         |   | 1       |
| plants  | ferns         | Nephrolepidaceae | Arthropteris tenella                            | climbing fern            |   | С           |   | 6       |
| plants  | ferns         | Polypodiaceae    | Platycerium bifurcatum                          | -                        |   | C<br>C      |   | 5       |
| plants  | ferns         | Polypodiaceae    | Platycerium superbum                            | staghorn fern            |   | С           |   | 2       |
| plants  | ferns         | Polypodiaceae    | Dictymia brownii                                | strap fern               |   | С           |   | 1/1     |
| plants  | ferns         | Polypodiaceae    | Microsorum scandens                             | fragrant climbing fern   |   | С           |   | 2/1     |
| plants  | ferns         | Pteridaceae      | Pteris umbrosa                                  | jungle bracken           |   | CCC         |   | 1/1     |
| plants  | higher dicots | Acanthaceae      | Pseuderanthemum variabile                       | pastel flower            |   | С           |   | 1       |
| plants  | higher dicots | Akaniaceae       | Akania bidwillii                                | turnip wood              |   | C           |   | 5/3     |
| plants  | higher dicots | Anacardiaceae    | Euroschinus falcatus                            | ·                        |   | С           |   | 2       |
| plants  | higher dicots | Anacardiaceae    | Rhodosphaera rhodanthema                        | tulip satinwood          |   | С           |   | 1       |
| plants  | higher dicots | Apocynaceae      | Tabernaemontana pandacaqui                      | banana bush              |   | С           |   | 2       |
| plants  | higher dicots | Apocynaceae      | Carissa ovata                                   | currantbush              |   | CCC         |   | 3       |
| plants  | higher dicots | Apocynaceae      | Parsonsia fulva                                 | furry silkpod            |   | С           |   | 1/1     |
| plants  | higher dicots | Apocynaceae      | Melodinus australis                             | southern melodinus       |   | С           |   | 6       |
| plants  | higher dicots | Apocynaceae      | Parsonsia straminea                             | monkey rope              |   | C<br>C      |   | 1       |
| plants  | higher dicots | Apocynaceae      | Parsonsia lanceolata                            | northern silkpod         |   | С           |   | 1/1     |
| plants  | higher dicots | Apocynaceae      | Parsonsia ventricosa                            | -                        |   | C           |   | 1/1     |
| plants  | higher dicots | Apocynaceae      | Parsonsia induplicata                           | thin-leaved silkpod      |   | С           |   | 1       |
| plants  | higher dicots | Apocynaceae      | Parsonsia brisbanensis                          | broad-leaved monkey vine |   | С           |   | 1/1     |
| plants  | higher dicots | Araliaceae       | Polyscias sambucifolia                          | elderberry panax         |   | C<br>C      |   | 2       |
| plants  | higher dicots | Araliaceae       | Hydrocotyle tripartita                          |                          |   | С           |   | 1/1     |
| plants  | higher dicots | Araliaceae       | Schefflera actinophylla                         | umbrella tree            |   | С           |   | 2       |
| plants  | higher dicots | Araliaceae       | Cephalaralia cephalobotrys                      | climbing panax           |   | С           |   | 3       |
| plants  | higher dicots | Araliaceae       | Hydrocotyle pedicellosa                         |                          |   | C           |   | 3/3     |
| plants  | higher dicots | Araliaceae       | Astrotricha latifolia                           |                          |   | С           |   | 2/2     |
| plants  | higher dicots | Araliaceae       | Polyscias murrayi                               |                          |   | С           |   | 1       |
| plants  | higher dicots | Araliaceae       | Polyscias elegans                               | celery wood              |   | С           |   | 4       |
| plants  | higher dicots | Asteraceae       | Senecio tenuiflorus                             |                          |   | С           |   | 1/1     |
| plants  | higher dicots | Asteraceae       | Sigesbeckia orientalis                          | Indian weed              |   | С           |   | 1/1     |
| plants  | higher dicots | Asteraceae       | Gynura drymophila var. drymophila               |                          |   | С           |   | 1/1     |
| plants  | higher dicots | Asteraceae       | Picris angustifolia subsp. carolorum-henricorum |                          |   | С           |   | 1/1     |
| plants  | higher dicots | Asteraceae       | Cassinia subtropica                             |                          |   | C           |   | 1/1     |
| plants  | higher dicots | Asteraceae       | Eclipta prostrata                               | white eclipta            |   | С           |   | 1/1     |
| plants  | higher dicots | Asteraceae       | Youngia japonica                                | -                        |   | С           |   | 1/1     |

| Kingdom | Class         | Family          | Scientific Name                | Common Name            | 1 | Q           | Α | Records |
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| plants  | higher dicots | Asteraceae      | Olearia nernstii               | Ipswich daisy          |   | С           |   | 1/1     |
| plants  | higher dicots | Bignoniaceae    | Pandorea pandorana             | wonga vine             |   | С           |   | 2       |
| plants  | higher dicots | Bignoniaceae    | Pandorea jasminoides           | -                      |   | С           |   | 2       |
| plants  | higher dicots | Boraginaceae    | Ehretia acuminata              |                        |   | С           |   | 2       |
| plants  | higher dicots | Byttneriaceae   | Commersonia bartramia          | brown kurrajong        |   | С           |   | 1       |
| plants  | higher dicots | Caesalpiniaceae | Caesalpinia subtropica         | corky pricklevine      |   | С           |   | 2       |
| plants  | higher dicots | Callitrichaceae | Callitriche muelleri           |                        |   | С           |   | 1/1     |
| plants  | higher dicots | Campanulaceae   | Lobelia trigonocaulis          | forest lobelia         |   | С           |   | 2/2     |
| plants  | higher dicots | Capparaceae     | Capparis arborea               | brush caper berry      |   | 00000000000 |   | 2       |
| plants  | higher dicots | Capparaceae     | Capparis sarmentosa            | scrambling caper       |   | С           |   | 1       |
| plants  | higher dicots | Casuarinaceae   | Allocasuarina torulosa         |                        |   | С           |   | 1       |
| plants  | higher dicots | Casuarinaceae   | Allocasuarina littoralis       |                        |   | С           |   | 1       |
| plants  | higher dicots | Celastraceae    | Siphonodon australis           | ivorywood              |   | С           |   | 1       |
| plants  | higher dicots | Celastraceae    | Celastrus subspicata           | large-leaved staffvine |   | С           |   | 2/1     |
| plants  | higher dicots | Celastraceae    | Denhamia celastroides          | broad-leaved boxwood   |   | C           |   | 3/1     |
| plants  | higher dicots | Celastraceae    | Hedraianthera porphyropetala   | hedrianthera           |   | С           |   | 2       |
| plants  | higher dicots | Celastraceae    | Elaeodendron australe          |                        |   | С           |   | 1       |
| plants  | higher dicots | Convolvulaceae  | Calystegia marginata           | forest bindweed        |   | С           |   | 1       |
| plants  | higher dicots | Cornaceae       | Alangium villosum              |                        |   |             |   | 1       |
| plants  | higher dicots | Cucurbitaceae   | Trichosanthes subvelutina      | silky cucumber         |   | С           |   | 1       |
| plants  | higher dicots | Cucurbitaceae   | Diplocyclos palmatus           |                        |   | С           |   | 1       |
| plants  | higher dicots | Cucurbitaceae   | Neoachmandra cunninghamii      |                        |   | С           |   | 1       |
| plants  | higher dicots | Cunoniaceae     | Geissois benthamiana           | red carabeen           |   | 00000       |   | 5/2     |
| plants  | higher dicots | Cunoniaceae     | Schizomeria ovata              | white cherry           |   | С           |   | 2/2     |
| plants  | higher dicots | Cunoniaceae     | Pseudoweinmannia lachnocarpa   | rose marara            |   | С           |   | 9       |
| plants  | higher dicots | Dilleniaceae    | Hibbertia aspera               |                        |   | С           |   | 1/1     |
| plants  | higher dicots | Dilleniaceae    | Hibbertia aspera subsp. aspera |                        |   | С           |   | 1/1     |
| plants  | higher dicots | Dilleniaceae    | Hibbertia scandens             |                        |   | С           |   | 2/1     |
| plants  | higher dicots | Ebenaceae       | Diospyros fasciculosa          | grey ebony             |   | С           |   | 1       |
| plants  | higher dicots | Ebenaceae       | Diospyros pentamera            | myrtle ebony           |   | CCCC        |   | 4       |
| plants  | higher dicots | Elaeocarpaceae  | Elaeocarpus grandis            | blue quandong          |   | С           |   | 2       |
| plants  | higher dicots | Elaeocarpaceae  | Sloanea australis              |                        |   | С           |   | 3       |
| plants  | higher dicots | Elaeocarpaceae  | Sloanea woollsii               | yellow carrabeen       |   | С           |   | 5/1     |
| plants  | higher dicots | Elatinaceae     | Elatine gratioloides           | waterwort              |   | С           |   | 1/1     |
| plants  | higher dicots | Ericaceae       | Trochocarpa laurina            | tree heath             |   | C<br>C      |   | 1       |
| plants  | higher dicots | Ericaceae       | Acrotriche aggregata           | red cluster heath      |   | С           |   | 1       |
| plants  | higher dicots | Escalloniaceae  | Polyosma cunninghamii          | featherwood            |   | С           |   | 2       |
| plants  | higher dicots | Euphorbiaceae   | Alchornea ilicifolia           | native holly           |   | С           |   | 2       |
| plants  | higher dicots | Euphorbiaceae   | Croton acronychioides          | thick-leaved croton    |   | С           |   | 3/1     |
| plants  | higher dicots | Euphorbiaceae   | Mallotus philippensis          | red kamala             |   | С           |   | 4       |
| plants  | higher dicots | Euphorbiaceae   | Macaranga tanarius             | macaranga              |   | C<br>C<br>C |   | 1       |
| plants  | higher dicots | Euphorbiaceae   | Homalanthus nutans             |                        |   | С           |   | 4/1     |
| plants  | higher dicots | Euphorbiaceae   | Croton stigmatosus             | white croton           |   | С           |   | 1/1     |
| plants  | higher dicots | Euphorbiaceae   | Claoxylon australe             | brittlewood            |   | C           |   | 4/2     |
| plants  | higher dicots | Euphorbiaceae   | Beyeria lasiocarpa             |                        |   | С           |   | 2/2     |
| plants  | higher dicots | Euphorbiaceae   | Baloghia marmorata             | jointed baloghia       |   | V           | V | 15/10   |

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| plants  | higher dicots | Euphorbiaceae    | Baloghia inophylla                    | scrub bloodwood      | С                                       |   | 3       |
| plants  | higher dicots | Euphorbiaceae    | Mallotus discolor                     | white kamala         | С                                       |   | 1       |
| plants  | higher dicots | Euphorbiaceae    | Acalypha                              |                      | С                                       |   | 1/1     |
| plants  | higher dicots | Euphorbiaceae    | Croton verreauxii                     | green cascarilla     | 000000000000000000000000000000000000000 |   | 2/2     |
| plants  | higher dicots | Fabaceae         | Derris involuta                       | native derris        | С                                       |   | 4       |
| plants  | higher dicots | Fabaceae         | Indigofera australis subsp. australis |                      | С                                       |   | 2/2     |
| plants  | higher dicots | Fabaceae         | Daviesia arborea                      | golden pea tree      | С                                       |   | 2/2     |
| plants  | higher dicots | Fabaceae         | Desmodium gunnii                      |                      | С                                       |   | 1/1     |
| plants  | higher dicots | Fabaceae         | Goodia macrocarpa                     |                      | С                                       |   | 1/1     |
| plants  | higher dicots | Fabaceae         | Pultenaea euchila                     | orange pultenaea     | С                                       |   | 1/1     |
| plants  | higher dicots | Fabaceae         | Pultenaea villosa                     | hairy bush pea       | С                                       |   | 1/1     |
| plants  | higher dicots | Fabaceae         | Glycine tomentella                    | woolly glycine       | С                                       |   | 1/1     |
| plants  | higher dicots | Fabaceae         | Jacksonia scoparia                    |                      | С                                       |   | 1       |
| plants  | higher dicots | Fabaceae         | Desmodium nemorosum                   |                      | С                                       |   | 1/1     |
| plants  | higher dicots | Fabaceae         | Hardenbergia violacea                 |                      | С                                       |   | 1       |
| plants  | higher dicots | Fabaceae         | Swainsona galegifolia                 | smooth Darling pea   | С                                       |   | 2/2     |
| plants  | higher dicots | Fabaceae         | Austrosteenisia blackii               | bloodvine            | С                                       |   | 2       |
| plants  | higher dicots | Fabaceae         | Castanospermum australe               | black bean           | С                                       |   | 9       |
| plants  | higher dicots | Fabaceae         | Austrosteenisia glabristyla           | giant blood vine     | С                                       |   | 1       |
| plants  | higher dicots | Fabaceae         | Tephrosia brachyodon var. longipes    | _                    | С                                       |   | 1/1     |
| plants  | higher dicots | Flacourtiaceae   | Scolopia braunii                      | flintwood            | С                                       |   | 1       |
| plants  | higher dicots | Goodeniaceae     | Goodenia grandiflora                  |                      | С                                       |   | 1/1     |
| plants  | higher dicots | Goodeniaceae     | Goodenia ovata                        |                      | С                                       |   | 3/3     |
| plants  | higher dicots | Lamiaceae        | Vitex lignum-vitae                    |                      | С                                       |   | 3/1     |
| plants  | higher dicots | Lamiaceae        | Clerodendrum floribundum              |                      | С                                       |   | 2       |
| plants  | higher dicots | Lamiaceae        | Callicarpa pedunculata                | velvet leaf          | С                                       |   | 1/1     |
| plants  | higher dicots | Lamiaceae        | Ajuga australis                       | Australian bugle     | С                                       |   | 1/1     |
| plants  | higher dicots | Lamiaceae        | Plectranthus parviflorus              |                      | С                                       |   | 1/1     |
| plants  | higher dicots | Lamiaceae        | Teucrium corymbosum                   | forest germander     | С                                       |   | 1/1     |
| plants  | higher dicots | Lamiaceae        | Gmelina leichhardtii                  | white beech          | С                                       |   | 1       |
| plants  | higher dicots | Lentibulariaceae | Utricularia gibba                     | floating bladderwort | С                                       |   | 1/1     |
| plants  | higher dicots | Leptaulaceae     | Citronella moorei                     | churnwood            | С                                       |   | 1       |
| plants  | higher dicots | Loranthaceae     | Amylotheca dictyophleba               |                      | С                                       |   | 4/2     |
| plants  | higher dicots | Malvaceae        | Hibiscus heterophyllus                |                      | С                                       |   | 1       |
| plants  | higher dicots | Meliaceae        | Dysoxylum fraserianum                 | rose mahogany        | С                                       |   | 2       |
| plants  | higher dicots | Meliaceae        | Synoum glandulosum                    |                      | С                                       |   | 1       |
| plants  | higher dicots | Meliaceae        | Melia azedarach                       | white cedar          | С                                       |   | 3       |
| plants  | higher dicots | Meliaceae        | Dysoxylum rufum                       |                      | С                                       |   | 3       |
| plants  | higher dicots | Meliaceae        | Toona ciliata                         | red cedar            | С                                       |   | 1       |
| plants  | higher dicots | Mimosaceae       | Acacia irrorata subsp. irrorata       |                      | С                                       |   | 1/1     |
| plants  | higher dicots | Mimosaceae       | Pararchidendron pruinosum             |                      | С                                       |   | 1       |
| plants  | higher dicots | Mimosaceae       | Archidendron grandiflorum             | lace flower tree     | C<br>C                                  |   | 7/2     |
| plants  | higher dicots | Mimosaceae       | Acacia aulacocarpa                    |                      | С                                       |   | 3       |
| plants  | higher dicots | Mimosaceae       | Acacia viscidula                      |                      | C<br>C                                  |   | 1/1     |
| plants  | higher dicots | Mimosaceae       | Acacia binervata                      | two-veined hickory   | С                                       |   | 1/1     |
| plants  | higher dicots | Mimosaceae       | Acacia maidenii                       | Maiden's wattle      | С                                       |   | 2       |
|         |               |                  |                                       |                      |   |   |         |

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| plants  | higher dicots                  | Mimosaceae     | Acacia melanoxylon                        | blackwood                    |   | С                                       |   | 1       |
| plants  | higher dicots                  | Mimosaceae     | Acacia bakeri                             | marblewood                   |   | С                                       |   | 1       |
| plants  | higher dicots                  | Mimosaceae     | Acacia orites                             | mountain wattle              |   | NT                                      |   | 1/1     |
| plants  | higher dicots                  | Moraceae       | Trophis scandens subsp. scandens          |                              |   | С                                       |   | 4       |
| plants  | higher dicots                  | Moraceae       | Ficus macrophylla forma macrophylla       | Moreton Bay fig              |   | С                                       |   | 1       |
| plants  | higher dicots                  | Moraceae       | Maclura cochinchinensis                   | cockspur thorn               |   | С                                       |   | 1       |
| plants  | higher dicots                  | Moraceae       | Ficus watkinsiana                         | green-leaved Moreton Bay fig |   | С                                       |   | 2       |
| plants  | higher dicots                  | Moraceae       | Ficus macrophylla                         | , ,                          |   | С                                       |   | 2<br>2  |
| plants  | higher dicots                  | Moraceae       | Trophis scandens                          |                              |   | С                                       |   | 1       |
| plants  | higher dicots                  | Moraceae       | Ficus coronata                            | creek sandpaper fig          |   | C                                       |   | 4/1     |
| plants  | higher dicots                  | Moraceae       | Ficus obliqua                             | 2 22 24 24 2                 |   | C                                       |   | 3       |
| plants  | higher dicots                  | Moraceae       | Ficus fraseri                             | white sandpaper fig          |   | C                                       |   | 4       |
| plants  | higher dicots                  | Moraceae       | Ficus virens                              | g                            |   | Č                                       |   | 1       |
| plants  | higher dicots                  | Myrsinaceae    | Myrsine subsessilis                       |                              |   | Č                                       |   | 2/1     |
| plants  | higher dicots                  | Myrsinaceae    | Embelia australiana                       | embelia                      |   | Č                                       |   | 4       |
| plants  | higher dicots                  | Myrtaceae      | Eucalyptus propinqua                      | small-fruited grey gum       |   | Č                                       |   | 1       |
| plants  | higher dicots                  | Myrtaceae      | Syzygium crebrinerve                      | purple cherry                |   | Č                                       |   | 4/1     |
| plants  | higher dicots                  | Myrtaceae      | Eucalyptus acmenoides                     | parpie errerry               |   | 000000000000000000000000000000000000000 |   | 1       |
| plants  | higher dicots                  | Myrtaceae      | Eucalyptus microcorys                     |                              |   | Č                                       |   | 4       |
| plants  | higher dicots                  | Myrtaceae      | Lophostemon confertus                     | brush box                    |   | Č                                       |   | 3       |
| plants  | higher dicots                  | Myrtaceae      | Eucalyptus eugenioides                    | DIGGIT DOX                   |   | Ċ                                       |   | 1       |
| plants  | higher dicots                  | Myrtaceae      | Rhodomyrtus psidioides                    | native guava                 |   | C                                       |   | 2       |
| plants  | higher dicots                  | Myrtaceae      | Eucalyptus siderophloia                   | nativo gadva                 |   | Č                                       |   | 1       |
| plants  | higher dicots                  | Myrtaceae      | Acmena hemilampra subsp. hemilampra       |                              |   | C                                       |   | 2/2     |
| plants  | higher dicots                  | Myrtaceae      | Gossia hillii                             |                              |   | C                                       |   | 1       |
| plants  | higher dicots                  | Myrtaceae      | Acmena ingens                             | southern satinash            |   | C                                       |   | 2/1     |
| plants  | higher dicots                  | Myrtaceae      | Melaleuca bracteata                       | 30dinem 3dinash              |   | C                                       |   | 1       |
| plants  | higher dicots                  | Myrtaceae      | Corymbia intermedia                       | pink bloodwood               |   | C                                       |   | 1       |
| plants  | higher dicots                  | Myrtaceae      | Angophora leiocarpa                       | rusty gum                    |   | Č                                       |   | 1       |
| plants  | higher dicots                  | Myrtaceae      | Rhodamnia argentea                        | white myrtle                 |   | Č                                       |   | 4/1     |
| plants  | higher dicots                  | Myrtaceae      | Eucalyptus grandis                        | flooded gum                  |   | Č                                       |   | 3       |
| plants  | higher dicots                  | Myrtaceae      | Decaspermum humile                        | silky myrtle                 |   | Č                                       |   | 2       |
|         |                                |                | Eucalyptus crebra                         | narrow-leaved red ironbark   |   | C                                       |   | 1       |
| plants  | higher dicots<br>higher dicots | Myrtaceae      |   | nanow-leaved red nonbark     |   | C                                       |   | 1       |
| plants  |                                | Myrtaceae      | Acmena hemilampra<br>Gossia bidwillii     |                              |   | C                                       |   | 1       |
| plants  | higher dicots                  | Myrtaceae      |   | lillypilly cotinoch          |   | C                                       |   | 2<br>2  |
| plants  | higher dicots                  | Myrtaceae      | Acmena smithii                            | lillypilly satinash          |   | C<br>C                                  |   |         |
| plants  | higher dicots                  | Myrtaceae      | Melaleuca viminalis                       |                              |   | C                                       |   | 1       |
| plants  | higher dicots                  | Myrtaceae      | Rhodamnia rubescens                       |                              |   |   |   | 2       |
| plants  | higher dicots                  | Oleaceae       | Olea paniculata                           |                              |   | C                                       |   | 3       |
| plants  | higher dicots                  | Oleaceae       | Notelaea longifolia                       |                              |   | С                                       |   | 2       |
| plants  | higher dicots                  | Oleaceae       | Jasminum singuliflorum                    | veialese meet allier         |   | С                                       |   | 1/1     |
| plants  | higher dicots                  | Oleaceae       | Notelaea johnsonii                        | veinless mock-olive          |   | С                                       |   | 1/1     |
| plants  | higher dicots                  | Onagraceae     | Epilobium billardierianum subsp. cinereum |                              |   | С                                       |   | 1/1     |
| plants  | higher dicots                  | Oxalidaceae    | Oxalis chnoodes                           | harren harab                 |   | С                                       |   | 1/1     |
| plants  | higher dicots                  | Pennantiaceae  | Pennantia cunninghamii                    | brown beech                  |   | С                                       |   | 2       |
| plants  | higher dicots                  | Phyllanthaceae | Actephila lindleyi                        | actephila                    |   | С                                       |   | 5/1     |

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| plants           | higher dicots                  | Phyllanthaceae         | Phyllanthus similis                                   |                    |   | С             |   | 1/1     |
| plants           | higher dicots                  | Phyllanthaceae         | Cleistanthus cunninghamii                             | omega              |   | C<br>C        |   | 7       |
| plants           | higher dicots                  | Phyllanthaceae         | Breynia oblongifolia                                  |                    |   | С             |   | 1       |
| plants           | higher dicots                  | Phyllanthaceae         | Phyllanthus microcladus                               |                    |   | 00000         |   | 1       |
| plants           | higher dicots                  | Phyllanthaceae         | Poranthera microphylla                                | small poranthera   |   | С             |   | 1/1     |
| plants           | higher dicots                  | Phyllanthaceae         | Glochidion ferdinandi                                 |                    |   | С             |   | 3       |
| plants           | higher dicots                  | Picrodendraceae        | Dissiliaria baloghioides                              | hauer              |   | С             |   | 2/1     |
| plants           | higher dicots                  | Pittosporaceae         | Auranticarpa rhombifolia                              |                    |   | С             |   | 1       |
| plants           | higher dicots                  | Pittosporaceae         | Pittosporum multiflorum                               |                    |   | С             |   | 1/1     |
| plants           | higher dicots                  | Pittosporaceae         | Pittosporum undulatum                                 | sweet pittosporum  |   | C             |   | 4/2     |
| plants           | higher dicots                  | Pittosporaceae         | Pittosporum spinescens                                |                    |   | С             |   | 3       |
| plants           | higher dicots                  | Pittosporaceae         | Pittosporum revolutum                                 | yellow pittosporum |   | C             |   | 2       |
| plants           | higher dicots                  | Pittosporaceae         | Hymenosporum flavum                                   | native frangipani  |   | 000000        |   | 1       |
| plants           | higher dicots                  | Pittosporaceae         | Bursaria spinosa                                      |                    |   | C             |   | 1       |
| plants           | higher dicots                  | Polygonaceae           | Persicaria decipiens                                  | slender knotweed   |   | 0000          |   | 1/1     |
| plants           | higher dicots                  | Polygonaceae           | Persicaria dichotoma                                  |                    |   | C             |   | 1/1     |
| plants           | higher dicots                  | Polygonaceae           | Persicaria hydropiper                                 | water pepper       |   | C             |   | 1/1     |
| plants           | higher dicots                  | Proteaceae             | Grevillea robusta                                     |                    |   | C             |   | 2       |
| plants           | higher dicots                  | Proteaceae             | Macadamia integrifolia                                | macadamia nut      |   | ٧             | V | 3/2     |
| plants           | higher dicots                  | Proteaceae             | Persoonia stradbrokensis x P.virgata                  |                    |   | C             |   | 2       |
| plants           | higher dicots                  | Proteaceae             | Macadamia integrifolia - M.tetraphylla                | 1 1 66             |   | C             |   | 9/9     |
| plants           | higher dicots                  | Proteaceae             | Stenocarpus sinuatus                                  | wheel of fire      |   | C<br>C        |   | 6/1     |
| plants           | higher dicots                  | Proteaceae             | Banksia integrifolia                                  |                    |   | C             |   | 1       |
| plants           | higher dicots                  | Proteaceae             | Macadamia tetraphylla                                 |                    |   | ٧             | V | 7/5     |
| plants           | higher dicots                  | Quintiniaceae          | Quintinia sieberi                                     |                    |   | 0000000000000 |   | 1       |
| plants           | higher dicots                  | Quintiniaceae          | Quintinia verdonii                                    | grey possumwood    |   | Č             |   | 1       |
| plants           | higher dicots                  | Rhamnaceae             | Alphitonia excelsa                                    | soap tree          |   | $\tilde{c}$   |   | 3       |
| plants           | higher dicots                  | Rhamnaceae             | Emmenosperma alphitonioides                           | yellow ash         |   | $\sim$        |   | 1 4/4   |
| plants           | higher dicots                  | Rosaceae               | Rubus rosifolius                                      |                    |   | $\sim$        |   | 1/1     |
| plants           | higher dicots                  | Rosaceae               | Rubus x novus   |                    |   | $\sim$        |   | 1/1     |
| plants           | higher dicots                  | Rosaceae               | Rosa  |                    |   | $\sim$        |   | 1/1     |
| plants           | higher dicots                  | Rosaceae               | Rubus moluccanus                                      |                    |   | $\mathcal{C}$ |   | 1/1     |
| plants           | higher dicots                  | Rubiaceae<br>Rubiaceae | Psychotria simmondsiana                               |                    |   | $\mathcal{C}$ |   | 1/1     |
| plants           | higher dicots<br>higher dicots | Rubiaceae              | Atractocarpus chartaceus                              |                    |   | $\mathcal{C}$ |   | 1/1     |
| plants           | higher dicots                  | Rubiaceae              | Gynochthodes jasminoides<br>Cyclophyllum coprosmoides |                    |   | $\mathcal{C}$ |   | 1/ 1    |
| plants<br>plants | higher dicots                  | Rubiaceae              | Ixora beckleri  | brown coffeewood   |   | $\mathcal{C}$ |   | 1       |
| •                | higher dicots                  | Rubiaceae              | Psydrax odorata                                       | brown coneewood    |   | C             |   | 1       |
| plants<br>plants | higher dicots                  | Rubiaceae              | Morinda canthoides                                    |                    |   | C             |   | 1       |
| plants           | higher dicots                  | Rubiaceae              | Morinda cantrioldes<br>Morinda jasminoides            | morinda            |   | C             |   | 3       |
| plants           | higher dicots                  | Rubiaceae              | Pavetta australiensis                                 | monina             |   | $\tilde{c}$   |   | 1       |
| plants           | higher dicots                  | Rubiaceae              | Hodgkinsonia ovatiflora                               | golden ash         |   | $\tilde{c}$   |   | 1       |
| plants           | higher dicots                  | Rubiaceae              | Psychotria loniceroides                               | hairy psychotria   |   | 0000          |   | 3       |
| plants           | higher dicots                  | Rutaceae               | Citrus australasica                                   | nany psychotna     |   | $\tilde{C}$   |   | 8/6     |
| plants           | higher dicots                  | Rutaceae               | Bouchardatia neurococca                               | union nut          |   | C             |   | 1/1     |
| plants           | higher dicots                  | Rutaceae               | Acronychia laevis                                     | glossy acronychia  |   | č             |   | 1/1     |
| piarito          | ingrici dicota                 | Mulabode               | Actoriyania laavia                                    | glossy actoriyona  |   | J             |   | 1/ 1    |

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| plants  | higher dicots  | Rutaceae      | Zieria collina                                   |                       |   | V      | V | 12/12   |
| plants  | higher dicots  | Rutaceae      | Bosistoa transversa                              | three-leaved bosistoa |   | С      | V | 1       |
| plants  | higher dicots  | Rutaceae      | Sarcomelicope simplicifolia subsp. simplicifolia | yellow aspen          |   | С      |   | 2       |
| plants  | higher dicots  | Rutaceae      | Bosistoa pentacocca var. pentacocca              | •                     |   | С      |   | 1/1     |
| plants  | higher dicots  | Rutaceae      | Zanthoxylum brachyacanthum                       |                       |   | С      |   | 1       |
| plants  | higher dicots  | Rutaceae      | Melicope micrococca                              | white evodia          |   | С      |   | 3/2     |
| plants  | higher dicots  | Rutaceae      | Acronychia pubescens                             | hairy acronychia      |   | C<br>C |   | 6       |
| plants  | higher dicots  | Rutaceae      | Flindersia australis                             | crow's ash            |   | С      |   | 2       |
| plants  | higher dicots  | Rutaceae      | Acronychia pauciflora                            | soft acronychia       |   | С      |   | 1       |
| plants  | higher dicots  | Rutaceae      | Flindersia xanthoxyla                            | yellow-wood           |   | C<br>C |   | 2/2     |
| plants  | higher dicots  | Rutaceae      | Flindersia bennettiana                           | Bennett's ash         |   | Č      |   | 2       |
| plants  | higher dicots  | Rutaceae      | Medicosma cunninghamii                           | pinkheart             |   | C      |   | 1       |
| plants  | higher dicots  | Santalaceae   | Exocarpos latifolius                             | <b>F</b>              |   | C<br>C |   | 1       |
| plants  | higher dicots  | Sapindaceae   | Dodonaea triquetra                               | large-leaved hop bush |   | Č      |   | 1       |
| plants  | higher dicots  | Sapindaceae   | Cupaniopsis serrata                              | smooth tuckeroo       |   | Č      |   | 3       |
| plants  | higher dicots  | Sapindaceae   | Alectryon tomentosus                             |                       |   | Č      |   | 1       |
| plants  | higher dicots  | Sapindaceae   | Cossinia australiana                             |                       |   | Ĕ      | Е | 2/2     |
| plants  | higher dicots  | Sapindaceae   | Cupaniopsis newmanii                             | long-leaved tuckeroo  |   | NT     | _ | 12/6    |
| plants  | higher dicots  | Sapindaceae   | Harpullia pendula                                | iong loaved tackered  |   | C      |   | 1       |
| plants  | higher dicots  | Sapindaceae   | Guioa semiglauca                                 | guioa                 |   | Č      |   | 3       |
| plants  | higher dicots  | Sapindaceae   | Jagera pseudorhus                                | guica                 |   | Č      |   | 6       |
| plants  | higher dicots  | Sapindaceae   | Arytera distylis                                 | twin-leaved coogera   |   | č      |   | 4/1     |
| plants  | higher dicots  | Sapindaceae   | Alectryon subcinereus                            | twiii ioavoa ooogoia  |   | č      |   | 1       |
| plants  | higher dicots  | Sapindaceae   | Mischocarpus pyriformis                          |                       |   | Ċ      |   | 2       |
| plants  | higher dicots  | Sapindaceae   | Diploglottis australis                           | native tamarind       |   | C<br>C |   | 4       |
| plants  | higher dicots  | Sapindaceae   | Arytera divaricata                               | coogera               |   | Č      |   | 4       |
| plants  | higher dicots  | Sapindaceae   | Elattostachys nervosa                            | green tamarind        |   | č      |   | 6       |
| plants  | higher dicots  | Sapotaceae    | Planchonella australis                           | groom tamamia         |   | č      |   | 7/2     |
| plants  | higher dicots  | Sapotaceae    | Niemeyera antiloga                               | brown pearwood        |   | Č      |   | 1       |
| plants  | higher dicots  | Solanaceae    | Duboisia myoporoides                             | brown poarwood        |   | Č      |   | 1       |
| plants  | higher dicots  | Solanaceae    | Solanum stelligerum                              | devil's needles       |   | C<br>C |   | 1       |
| plants  | higher dicots  | Solanaceae    | Solanum aviculare                                | kangaroo apple        |   | Č      |   | 1       |
| plants  | higher dicots  | Solanaceae    | Solanum rixosum                                  | Rangaroo appio        |   | č      |   | 1/1     |
| plants  | higher dicots  | Solanaceae    | Solanum corifolium                               | straggling nightshade |   | Č      |   | 2/2     |
| plants  | higher dicots  | Sterculiaceae | Brachychiton acerifolius                         | flame tree            |   | Č      |   | 3       |
| plants  | higher dicots  | Sterculiaceae | Argyrodendron actinophyllum                      | name area             |   | Č      |   | 3       |
| plants  | higher dicots  | Sterculiaceae | Argyrodendron trifoliolatum                      | booyong               |   | Č      |   | 7       |
| plants  | higher dicots  | Sterculiaceae | Sterculia quadrifida                             | peanut tree           |   | Č      |   | 1       |
| plants  | higher dicots  | Surianaceae   | Guilfoylia monostylis                            | guilfoylia            |   | č      |   | 1/1     |
| plants  | higher dicots  | Symplocaceae  | Symplocos thwaitesii                             | buff hazelwood        |   | č      |   | 2       |
| plants  | higher dicots  | Thymelaeaceae | Pimelea linifolia                                | ban nazomoda          |   | Č      |   | 2       |
| plants  | higher dicots  | Ulmaceae      | Trema tomentosa var. aspera                      |                       |   | č      |   | 1       |
| plants  | higher dicots  | Ulmaceae      | Aphananthe philippinensis                        |                       |   | Č      |   | 2       |
| plants  | higher dicots  | Urticaceae    | Dendrocnide excelsa                              | giant stinging tree   |   | Č      |   | 6       |
| plants  | higher dicots  | Urticaceae    | Pipturus argenteus                               | white nettle          |   | č      |   | 1/1     |
| plants  | higher dicots  | Urticaceae    | Elatostema reticulatum                           | rainforest spinach    |   | Č      |   | 1, 1    |
| Piulito | ingilor dicots | Ortioaccac    | Liatostorna rottodiatarri                        | rannorost opinasii    |   | 9      |   | •       |

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| plants  | higher dicots | Urticaceae       | Dendrocnide photinophylla                        | shiny-leaved stinging tree |   | С      |   | 6         |
| plants  | higher dicots | Urticaceae       | Boehmeria macrophylla                            | native ramie               |   | С      |   | 1/1       |
| plants  | higher dicots | Violaceae        | Viola hederacea                                  |                            |   | С      |   | 2/1       |
| plants  | higher dicots | Violaceae        | Viola betonicifolia                              |                            |   | С      |   | 1         |
| plants  | higher dicots | Violaceae        | Viola betonicifolia subsp. betonicifolia         |                            |   | С      |   | 1/1       |
| plants  | higher dicots | Violaceae        | Hybanthus stellarioides                          |                            |   | С      |   | 2/2       |
| plants  | higher dicots | Vitaceae         | Cissus hypoglauca                                |                            |   | С      |   | 1/1       |
| plants  | higher dicots | Vitaceae         | Cissus antarctica                                |                            |   | С      |   | 9/2       |
| plants  | liverworts    | Frullaniaceae    | Frullania monocera                               |                            |   | С      |   | 1/1       |
| plants  | liverworts    | Frullaniaceae    | Frullania allanii                                |                            |   | С      |   | 1/1       |
| plants  | liverworts    | Frullaniaceae    | Frullania  |                            |   | С      |   | 1/1       |
| plants  | liverworts    | Liverwort        | Liverwort  |                            |   | С      |   | 3/3       |
| plants  | liverworts    | Plagiochilaceae  | Plagiochila metcalfii                            |                            |   | С      |   | 1/1       |
| plants  | lower dicots  | Annonaceae       | Polyalthia nitidissima                           | polyalthia                 |   | C      |   | 1         |
| plants  | lower dicots  | Annonaceae       | Melodorum leichhardtii                           | 1 - 7                      |   | С      |   | 5         |
| plants  | lower dicots  | Annonaceae       | Meiogyne stenopetala                             |                            |   | Č      |   | 11/4      |
| plants  | lower dicots  | Aristolochiaceae | Pararistolochia praevenosa                       |                            |   | ŇT     |   | 3/2       |
| plants  | lower dicots  |                  | ae Daphnandra apatela                            |                            |   | C      |   | 1/1       |
| plants  | lower dicots  | Eupomatiaceae    | Eupomatia laurina                                | bolwarra                   |   | Č      |   | 2         |
| plants  | lower dicots  | Eupomatiaceae    | Eupomatia bennettii                              | small bolwarra             |   | Č      |   | 3         |
| plants  | lower dicots  | Lauraceae        | Neolitsea australiensis                          | green bolly gum            |   | Č      |   | 4/1       |
| plants  | lower dicots  | Lauraceae        | Cryptocarya sclerophylla                         | totempole                  |   | č      |   | 1/1       |
| plants  | lower dicots  | Lauraceae        | Beilschmiedia obtusifolia                        | hard bolly gum             |   | č      |   | 2         |
| plants  | lower dicots  | Lauraceae        | Endiandra muelleri subsp. bracteata              | mara bony gam              |   | Č      |   | 2/2       |
| plants  | lower dicots  | Lauraceae        | Cryptocarya triplinervis                         |                            |   | č      |   | 2         |
| plants  | lower dicots  | Lauraceae        | Cryptocarya obovata                              | pepperberry                |   | Č      |   | 7         |
| plants  | lower dicots  | Lauraceae        | Cryptocarya foetida                              | stinking cryptocarya       |   | V      | V | ,<br>1/1  |
| plants  | lower dicots  | Lauraceae        | Neolitsea dealbata                               | white bolly gum            |   | Č      | V | 7/2       |
| plants  | lower dicots  | Lauraceae        | Endiandra muelleri                               | Willie bolly guill         |   | Č      |   | 2         |
| plants  | lower dicots  | Lauraceae        | Cinnamomum oliveri                               | Oliver's sassafras         |   | č      |   | 4         |
| plants  | lower dicots  | Lauraceae        | Litsea reticulata                                | Oliver 3 3a33ana3          |   | č      |   | 1         |
| plants  | lower dicots  | Lauraceae        | Endiandra floydii                                |                            |   | E      | Е | 1/1       |
| plants  | lower dicots  | Lauraceae        | Endiandra noyuli<br>Endiandra pubens             | hairy walnut               |   | Ċ      | _ | 9/2       |
| plants  | lower dicots  | Lauraceae        | Litsea leefeana                                  | rially wallfut             |   | Č      |   | 3/ Z<br>1 |
| •       | lower dicots  | Lauraceae        | Endiandra compressa                              |                            |   | Č      |   | 1/1       |
| plants  | lower dicots  |                  |  | yellow laurel              |   | Č      |   | 1/ 1      |
| plants  | lower dicots  | Lauraceae        | Cryptocarya bidwillii<br>Cryptocarya meisneriana |                            |   | Č      |   | 1         |
| plants  | lower dicots  | Lauraceae        |  | thick-leaved cryptocarya   |   | C      |   | 1         |
| plants  |               | Lauraceae        | Cryptocarya glaucescens                          | murro aun                  |   |        |   | 1         |
| plants  | lower dicots  | Lauraceae        | Cryptocarya microneura                           | murrogun                   |   | C<br>V | V | 1         |
| plants  | lower dicots  | Menispermaceae   | Tinospora tinosporoides                          | arrow head vine            |   |        | V | 1<br>4    |
| plants  | lower dicots  | Menispermaceae   | Sarcopetalum harveyanum                          | pearl vine                 |   | C      |   | 1 4/4     |
| plants  | lower dicots  | Menispermaceae   | Echinostephia aculeata                           | prickly snake vine         |   | C      |   | 1/1       |
| plants  | lower dicots  | Menispermaceae   | Stephania japonica                               |                            |   | С      |   | 2         |
| plants  | lower dicots  | Menispermaceae   | Legnephora moorei                                | م داداند در دادی           |   | С      |   | 1         |
| plants  | lower dicots  | Monimiaceae      | Wilkiea huegeliana                               | veiny wilkiea              |   | C      |   | 5         |
| plants  | lower dicots  | Monimiaceae      | Palmeria foremanii                               |                            |   | С      |   | 1/1       |

| Kingdom | Class        | Family            | Scientific Name                       | Common Name                           |  | Q      | Α | Records |
|---------|--------------|-------------------|---------------------------------------|---------------------------------------|--|--------|---|---------|
| plants  | lower dicots | Monimiaceae       | Palmeria scandens                     | anchor vine                           |  | С      |   | 4       |
| plants  | lower dicots | Monimiaceae       | Wilkiea austroqueenslandica           | smooth wilkiea                        |  | С      |   | 4/2     |
| plants  | lower dicots | Monimiaceae       | Hedycarya angustifolia                | native mulberry                       |  | С      |   | 2/1     |
| plants  | lower dicots | Piperaceae        | Piper hederaceum                      | ·                                     |  | С      |   | 3       |
| plants  | lower dicots | Ranunculaceae     | Clematis glycinoides                  |                                       |  | С      |   | 1       |
| plants  | monocots     | Araceae           | Pothos longipes                       |                                       |  | C<br>C |   | 4/2     |
| plants  | monocots     | Araceae           | Gymnostachys anceps                   | settler's flax                        |  | С      |   | 2/1     |
| plants  | monocots     | Araceae           | Alocasia brisbanensis                 |                                       |  | С      |   | 6       |
| plants  | monocots     | Araceae           | Alocasia macrorrhizos                 |                                       |  | С      |   | 1       |
| plants  | monocots     | Arecaceae         | Calamus muelleri                      | lawyer vine                           |  | С      |   | 10      |
| plants  | monocots     | Arecaceae         | Linospadix monostachyos               | walking stick palm                    |  | С      |   | 5       |
| plants  | monocots     | Arecaceae         | Archontophoenix cunninghamiana        | piccabeen palm                        |  | С      |   | 11/1    |
| plants  | monocots     | Colchicaceae      | Tripladenia cunninghamii              |                                       |  | С      |   | 9/8     |
| plants  | monocots     | Commelinaceae     | Aneilema acuminatum                   |                                       |  | С      |   | 3/1     |
| plants  | monocots     | Commelinaceae     | Commelina diffusa                     | wandering jew                         |  | С      |   | 1       |
| plants  | monocots     | Commelinaceae     | Pollia crispata                       | pollia                                |  | С      |   | 1       |
| plants  | monocots     | Cyperaceae        | Gahnia aspera                         | •                                     |  | С      |   | 3/1     |
| plants  | monocots     | Cyperaceae        | Schoenoplectus tabernaemontani        |                                       |  | С      |   | 1/1     |
| plants  | monocots     | Cyperaceae        | Cyperus semifertilis                  |                                       |  | V      | V | 1/1     |
| plants  | monocots     | Cyperaceae        | Cyperus trinervis                     |                                       |  | С      |   | 1/1     |
| plants  | monocots     | Cyperaceae        | Cyperus exaltatus                     | tall flatsedge                        |  | С      |   | 1/1     |
| plants  | monocots     | Dioscoreaceae     | Dioscorea transversa                  | native yam                            |  | С      |   | 6/1     |
| plants  | monocots     | Flagellariaceae   | Flagellaria indica                    | whip vine                             |  | С      |   | 5/1     |
| plants  | monocots     | Hemerocallidaceae | Dianella nervosa                      | ,                                     |  | С      |   | 1/1     |
| plants  | monocots     | Hemerocallidaceae | Dianella caerulea                     |                                       |  | С      |   | 1/1     |
| plants  | monocots     | Hemerocallidaceae | Geitonoplesium cymosum                | scrambling lily                       |  | С      |   | 3       |
| plants  | monocots     | Juncaceae         | Juncus usitatus                       | , , , , , , , , , , , , , , , , , , , |  | С      |   | 1/1     |
| plants  | monocots     | Laxmanniaceae     | Cordyline congesta                    | Boonah palm lily                      |  | С      |   | 1       |
| plants  | monocots     | Laxmanniaceae     | Lomandra longifolia                   | ,                                     |  | С      |   | 4       |
| plants  | monocots     | Laxmanniaceae     | Lomandra multiflora                   |                                       |  | Č      |   | 1       |
| plants  | monocots     | Laxmanniaceae     | Cordyline petiolaris                  | large-leaved palm lily                |  | Č      |   | 3       |
| plants  | monocots     | Laxmanniaceae     | Eustrephus latifolius                 | wombat berry                          |  | Č      |   | 2       |
| plants  | monocots     | Laxmanniaceae     | Arthropodium milleflorum              | vanilla lily                          |  | Č      |   |         |
| plants  | monocots     | Laxmanniaceae     | Thysanotus tuberosus subsp. tuberosus | <b>,</b>                              |  | Č      |   | 1/1     |
| plants  | monocots     | Laxmanniaceae     | Cordyline rubra                       | red-fruited palm lily                 |  | С      |   | 3       |
| plants  | monocots     | Laxmanniaceae     | Lomandra hystrix                      | ,                                     |  | Č      |   | 2       |
| plants  | monocots     | Orchidaceae       | Dendrobium kingianum subsp. kingianum |                                       |  | Č      |   | 1       |
| plants  | monocots     | Orchidaceae       | Acianthus exsertus                    |                                       |  | Č      |   | 1/1     |
| plants  | monocots     | Orchidaceae       | Cymbidium madidum                     |                                       |  | Č      |   | 1/1     |
| plants  | monocots     | Orchidaceae       | Epipogium roseum                      | leafless nodding orchid               |  | Č      |   | 1/1     |
| plants  | monocots     | Orchidaceae       | Cymbidium suave                       | ioanioso nodanig oroma                |  | Č      |   | 1/1     |
| plants  | monocots     | Orchidaceae       | Pterostylis baptistii                 | king greenhood                        |  | Č      |   | 1       |
| plants  | monocots     | Orchidaceae       | Dendrobium gracilicaule               | slender orchid                        |  | Č      |   | 1       |
| plants  | monocots     | Orchidaceae       | Dipodium punctatum                    | Sionage Ground                        |  | Č      |   | 4/3     |
| plants  | monocots     | Orchidaceae       | Dendrobium speciosum                  |                                       |  | č      |   | 1       |
| plants  | monocots     | Orchidaceae       | Dendrobium tetragonum                 | tree spider orchid                    |  | č      |   | 2       |
| Pianto  |              | 0.0               | = 0a. oblam tottagonam                | and opider ordina                     |  | •      |   | _       |

| Kingdom | Class     | Family             | Scientific Name                                     | Common Name         | I | Q           | Α | Records |
|---------|-----------|--------------------|---|---------------------|---|-------------|---|---------|
| plants  | monocots  | Orchidaceae        | Caladenia carnea var. carnea                        |                     |   | С           |   | 1/1     |
| plants  | monocots  | Poaceae            | Imperata cylindrica                                 | blady grass         |   | С           |   | 1       |
| plants  | monocots  | Poaceae            | Echinopogon ovatus                                  | , -                 |   | С           |   | 1/1     |
| plants  | monocots  | Poaceae            | Themeda triandra                                    | kangaroo grass      |   | С           |   | 1       |
| plants  | monocots  | Poaceae            | Sarga leiocladum                                    |                     |   | С           |   | 2/2     |
| plants  | monocots  | Poaceae            | Aristida personata                                  |                     |   | С           |   | 1/1     |
| plants  | monocots  | Poaceae            | Austrostipa ramosissima                             | bamboo grass        |   | C<br>C      |   | 1/1     |
| plants  | monocots  | Poaceae            | Paspalidium distans                                 | shotgrass           |   | С           |   | 1/1     |
| plants  | monocots  | Poaceae            | Cymbopogon refractus                                | barbed-wire grass   |   | C<br>C      |   | 1       |
| plants  | monocots  | Poaceae            | Poa labillardierei var. labillardierei              | tussock grass       |   | С           |   | 1/1     |
| plants  | monocots  | Poaceae            | Poa sieberiana var. sieberiana                      | -                   |   | С           |   | 1/1     |
| plants  | monocots  | Poaceae            | Rytidosperma longifolium                            |                     |   | C<br>C<br>C |   | 1/1     |
| plants  | monocots  | Potamogetonaceae   | Potamogeton perfoliatus                             | perfoliate pondweed |   | С           |   | 1/1     |
| plants  | monocots  | Ripogonaceae       | Ripogonum album                                     | white supplejack    |   | С           |   | 5/2     |
| plants  | monocots  | Ripogonaceae       | Ripogonum discolor                                  | prickly supplejack  |   | C<br>C      |   | 1       |
| plants  | monocots  | Ripogonaceae       | Ripogonum elseyanum                                 | hairy supplejack    |   | С           |   | 3       |
| plants  | monocots  | Smilacaceae        | Smilax glyciphylla                                  | sweet sarsaparilla  |   | С           |   | 1       |
| plants  | monocots  | Smilacaceae        | Smilax australis                                    | barbed-wire vine    |   | C<br>C      |   | 1       |
| plants  | monocots  | Xanthorrhoeaceae   | Xanthorrhoea macronema                              |                     |   | С           |   | 1/1     |
| plants  | monocots  | Zingiberaceae      | Alpinia caerulea                                    | wild ginger         |   | С           |   | 4       |
| plants  | monocots  | Zingiberaceae      | Alpinia arundelliana                                |                     |   | С           |   | 2/2     |
| plants  | mosses    | Aulacomniaceae     | Mesochaete undulata                                 |                     |   | С           |   | 1/1     |
| plants  | mosses    | Calymperaceae      | Syrrhopodon platycerii                              |                     |   | C<br>C      |   | 1/1     |
| plants  | mosses    | Ditrichaceae       | Ditrichum difficile                                 |                     |   | С           |   | 1/1     |
| plants  | mosses    | Fissidentaceae     | Fissidens   |                     |   | С           |   | 2/2     |
| plants  | mosses    | Hedwigiaceae       | Hedwigidium integrifolium                           |                     |   | C<br>C      |   | 1/1     |
| plants  | mosses    | Hypnaceae          | Hypnum cupressiforme                                |                     |   | С           |   | 1/1     |
| plants  | mosses    | Hypnodendraceae    | Hypnodendron  |                     |   | С           |   | 2/2     |
| plants  | mosses    | Hypnodendraceae    | Bescherellia elegantissima                          |                     |   | С           |   | 1/1     |
| plants  | mosses    | Hypopterygiaceae   | Lopidium  |                     |   | C<br>C      |   | 1/1     |
| plants  | mosses    | Lembophyllaceae    | Camptochaete excavata                               |                     |   | С           |   | 2/2     |
| plants  | mosses    | Leucobryaceae      | Leucobryum candidum                                 |                     |   | С           |   | 1/1     |
| plants  | mosses    | Leucobryaceae      | Campylopus introflexus                              |                     |   | C<br>C      |   | 1/1     |
| plants  | mosses    | Meteoriaceae       | Papillaria crocea                                   |                     |   |             |   | 2/2     |
| plants  | mosses    | Meteoriaceae       | Papillaria flexicaulis                              |                     |   | C<br>C      |   | 1/1     |
| plants  | mosses    | Neckeraceae        | Thamnobryum pandum                                  |                     |   | С           |   | 2/2     |
| plants  | mosses    | Orthotrichaceae    | Macromitrium  |                     |   | С           |   | 1/1     |
| plants  | mosses    | Orthotrichaceae    | Macromitrium involutifolium subsp. ptychomitrioides |                     |   | С           |   | 1/1     |
| plants  | mosses    | Polytrichaceae     | Dawsonia superba var. pulchra                       |                     |   | С           |   | 1/1     |
| plants  | mosses    | Polytrichaceae     | Pogonatum subulatum                                 |                     |   | С           |   | 3/3     |
| plants  | mosses    | Rhizogoniaceae     | Pyrrhobryum paramattense                            |                     |   | С           |   | 2/2     |
| plants  | mosses    | Thuidiaceae        | Thuidium  |                     |   | C<br>C<br>C |   | 1/1     |
| plants  | uncertain | Indet.             | Indet.  |                     |   | С           |   | 1       |
| plants  |           | Braithwaiteaceae   | Braithwaitea sulcata                                |                     |   | C<br>C      |   | 1/1     |
| plants  |           | Dendrocerotaceae   | Dendroceros   |                     |   | С           |   | 1/1     |
| plants  |           | Pylaisiadelphaceae | Wijkia extenuata                                    |                     |   | С           |   | 1/1     |

| Kingdom     | Class             | Family                  | Scientific Name                         | Common Name | 1 | Q      | Α | Records |
|-------------|-------------------|-------------------------|---|-------------|---|--------|---|---------|
| plants      |                   | Streptophyceae          | Spirogyra                               |             |   | С      |   | 1/1     |
| plants      |                   | Streptophyceae          | Closterium                              |             |   | C      |   | 1/1     |
| ,<br>plants |                   | Streptophyceae          | Micrasterias                            |             |   | С      |   | 1/1     |
| plants      |                   | Streptophyceae          | Nitella cristata                        |             |   | С      |   | 1/1     |
| plants      |                   | Streptophyceae          | Klebsormidium flaccidum                 |             |   | С      |   | 1/1     |
| plants      |                   | Streptophyceae          | Cosmarium                               |             |   | С      |   | 1/1     |
| plants      |                   | Streptophyceae          | Zygnema                                 |             |   | С      |   | 1/1     |
| plants      |                   | Streptophyceae          | Chara                                   |             |   | С      |   | 1/1     |
| plants      |                   | Streptophyceae          | Hyalotheca                              |             |   | С      |   | 1/1     |
| protists    | blue-green algae  | Cyanophyceae            | Scytonema hofman-bangii                 |             |   | С      |   | 1/1     |
| protists    | blue-green algae  |                         | Schizothrix calcicola                   |             |   | С      |   | 1/1     |
| protists    | blue-green algae  | Cyanophyceae            | Calothrix parietina                     |             |   | С      |   | 1/1     |
| protists    | diatoms           | Bacillariophyceae       | Tabellaria flocculosa                   |             |   | C<br>C |   | 1/1     |
| protists    | diatoms           | Bacillariophyceae       | Fragilariforma virescens                |             |   | С      |   | 1/1     |
| protists    | golden-brown alg  | a <b>€</b> hrysophyceae | Chrysophyceae                           |             |   | С      |   | 2/2     |
| protists    | green algae       | Chlorophyceae           | Stigeoclonium tenue                     |             |   | С      |   | 2/2     |
| protists    | green algae       | Chlorophyceae           | Ulothrix aequalis                       |             |   | С      |   | 1/1     |
| protists    | green algae       | Chlorophyceae           | Trentepohlia arborum                    |             |   | С      |   | 3/3     |
| protists    | green algae       | Chlorophyceae           | Trentepohlia peruana                    |             |   | С      |   | 3/3     |
| protists    | green algae       | Chlorophyceae           | Trentepohlia rigidula                   |             |   | С      |   | 1/1     |
| protists    | green algae       | Chlorophyceae           | Schizomeris leibleinii                  |             |   | С      |   | 1/1     |
| protists    | green algae       | Chlorophyceae           | Radiofilum transversalis                |             |   | С      |   | 2/2     |
| protists    | green algae       | Chlorophyceae           | Trentepohlia randhawaiana               |             |   | С      |   | 1/1     |
| protists    | green algae       | Chlorophyceae           | Trentepohlia abietina var. tenue        |             |   | С      |   | 3/3     |
| protists    | green algae       | Chlorophyceae           | Trentepohlia bossei var. samoensis      |             |   | С      |   | 4/4     |
| protists    | green algae       | Chlorophyceae           | Trentepohlia bossei var. brevicellulis  |             |   | С      |   | 2/2     |
| protists    | green algae       | Chlorophyceae           | Trentepohlia abietina forma crassisepta |             |   | С      |   | 2/2     |
| protists    | green algae       | Chlorophyceae           | Oedogonium                              |             |   | С      |   | 1/1     |
| protists    | green algae       | Chlorophyceae           | Trentepohlia effusa                     |             |   | С      |   | 1/1     |
| protists    | red algae         | Rhodophyceae            | Sirodotia suecica                       |             |   | C      |   | 1/1     |
| protists    | red algae         | Rhodophyceae            | Audouinella hermannii                   |             |   | С      |   | 1/1     |
| protists    | yellow-green alga | eXanthophyceae          | Phyllosiphon                            |             |   | С      |   | 1/1     |

#### CODES

- I Y indicates that the taxon is introduced to Queensland and has naturalised.
- Q Indicates the Queensland conservation status of each taxon under the *Nature Conservation Act 1992*. The codes are Extinct in the Wild (PE), Endangered (E), Vulnerable (V), Near Threatened (NT), Least Concern (C) or Not Protected ().
- A Indicates the Australian conservation status of each taxon under the *Environment Protection and Biodiversity Conservation Act 1999.* The values of EPBC are Conservation Dependent (CD), Critically Endangered (CE), Endangered (E), Extinct (EX), Extinct in the Wild (XW) and Vulnerable (V).

Records – The first number indicates the total number of records of the taxon for the record option selected (i.e. All, Confirmed or Specimens).

This number is output as 99999 if it equals or exceeds this value. The second number located after the / indicates the number of specimen records for the taxon.

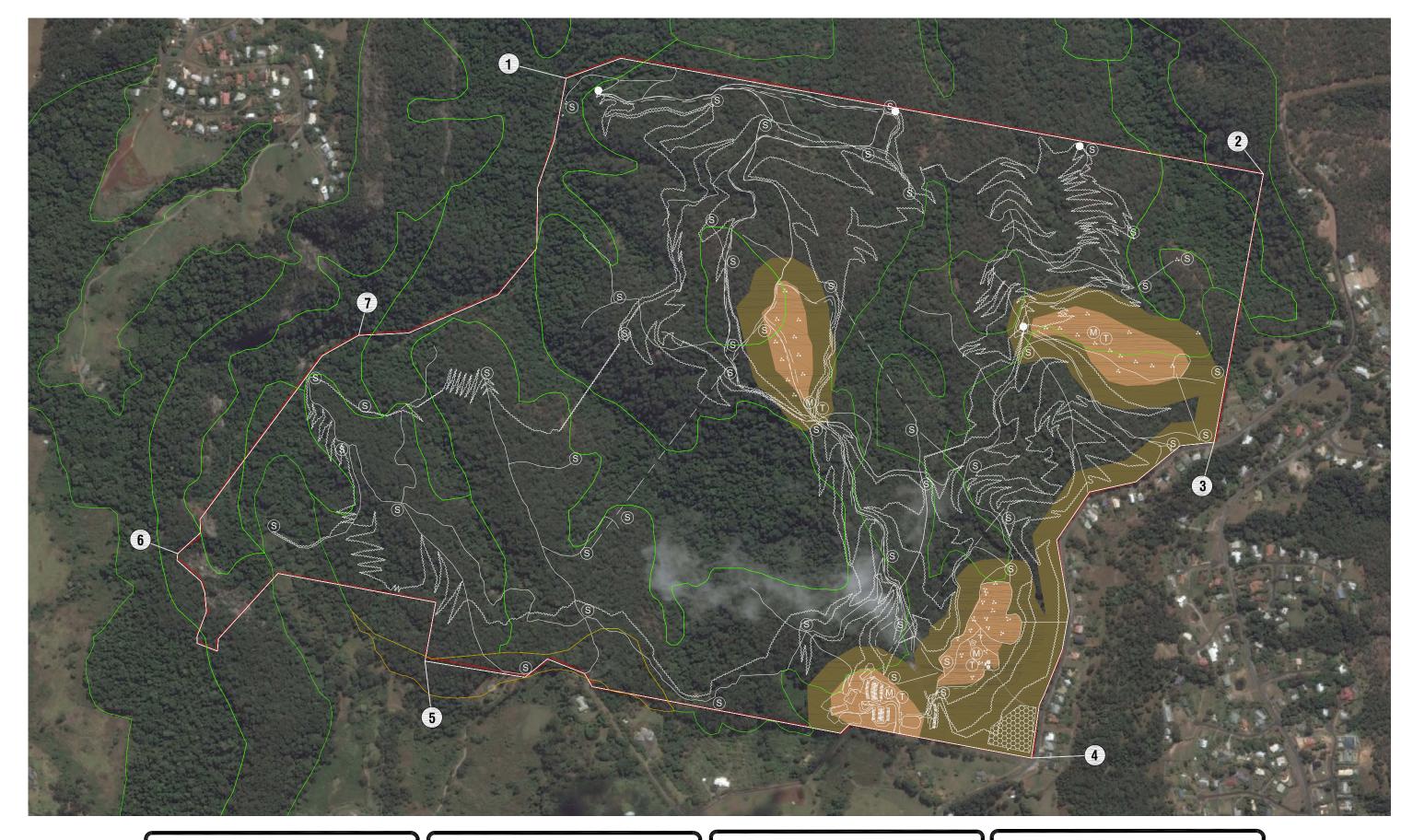
This number is output as 999 if it equals or exceeds this value.

#### **ATTACHMENT 12**

#### PROPERTY VEGETATION MANAGEMENT PLAN

(Adapted From: Design Evolution/Jim Noort/Knobel Consulting/Precise Environmental/Eldon Bottcher Architect)





DRAWING:

#### PROPERTY VEGETATION MANAGEMENT PLAN

DATE: DRAWN: MJ

PROJECT NO: SCALE: TAM03 1:7500 @ A3

DRAWING NO: ISSUE: SHEET NO: GUA03\_PVMP A 1 0F 1

PROJECT:

### PROPOSED MCU DEVELOPMENT

98 GUANABA ROAD, TAMBORINE MOUNTAIN LOT 3 RP181081

BYRNS LARDNER ENVIRONMENTAL P: PO BOX 928 SOUTHPORT BC QLD 4215 E: mark@byrnslardner.com.au T: 07 5528 6712



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MOUNT TAMBORINE CAMPING AND ACTIVITIES PTY LTD



ADAPTED FROM

HBA/DAB GEOSPATIAL
DESIGN EVOLUTION
JIM NOORT
KNOBEL CONSULTING
PRECISE ENVIRONMENTAL
ELDON BOTTCHER ARCHITECT
DNRM