

**Proposed Residential Development of  
Blue Dolphin Holiday Resort  
(Lot 8 DP 1022360),  
Yamba Road, Yamba**

**Fauna Survey and Assessment**

**Prepared For:**

**Mitchell Partners Pty Ltd,  
C/- Planning Workshop Australia Pty Ltd,  
Level 3, 7 Bridge Street,  
SYDNEY NSW 2001  
Tel: (02) 9251 0288 Fax: (02) 9251 0777  
Email: [cwatson@planningworkshop.com.au](mailto:cwatson@planningworkshop.com.au)**

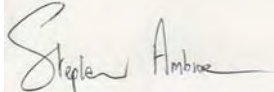
**30 October 2006  
Report No. 200630r1**

**Prepared By:**

**Dr Stephen Ambrose  
Ambrose Ecological Services Pty Ltd  
PO Box 246,  
RYDE NSW 1680  
Tel : (02) 9808 1236 Fax : (02) 9807 6865  
Email : [stephen@ambecol.com.au](mailto:stephen@ambecol.com.au)**

## Report No. 200625rp1

This report has been prepared in accordance with the scope of services described in the contract or agreement between Ambrose Ecological Services Pty Ltd (Ambecol) and the Client. The report relies upon data, surveys, measurements and results taken at or under the particular times and conditions specified herein. Any findings, conclusions or recommendations only apply to the aforementioned circumstances and no greater reliance should be assumed or drawn by the Client. Furthermore, the report has been prepared solely for use by the Client and Ambecol accepts no responsibility for its use by other parties.

Author:	Dr Stephen Ambrose
Position:	Director
Signature:	
Date:	30 October 2006

# INTRODUCTION

## 1.1 INTRODUCTION

The purpose of this report is to provide a fauna assessment of the potential impacts of the proposed residential development of the Blue Dolphin Holiday Resort (Lot 8 in DP 1022360), Yamba Road in Yamba (Figure 1) in the Clarence Valley Local Government Area.

The fauna assessment:

- ❑ identifies key fauna habitats within the development site ("the subject site");
- ❑ reviews literature and databases relevant to the subject site;
- ❑ describes the methodology and results of the fauna surveys;
- ❑ addresses potential impacts on fauna and their habitats resulting from the proposed development;
- ❑ proposes appropriate impact mitigation measures; and
- ❑ provides an assessment of the likelihood of significant impacts on threatened species and populations, and endangered ecological communities, according to Section 5A of the NSW *Environmental Planning and Assessment Act, 1979* (EP&A Act), NSW *Threatened Species Conservation Act, 1995* (TSC Act) and Commonwealth *Environmental Protection and Biodiversity Conservation Act, 1999* (EPBC Act). This was done to determine the need for a Species Impact Statement (SIS) under the TSC Act or an application for development under the EPBC Act.

Purcell *et al.* (2006) conducted a comprehensive flora and fauna survey of the subject site and adjoining areas in September 2005. The present report uses the data collected in that survey and in supplementary surveys conducted as part of the present study to assess the potential impacts of the proposed development on the status of native fauna and their habitats.

A comprehensive assessment of the impact of the proposed development on the status of native flora and their habitats is provided by Clements *et al.* (2006).

## 1.2 SITE DESCRIPTION

The subject site is 5.74 ha in area and is about 3 km north of the Yamba township. It is bounded to the:

- ❑ north by the Clarence Estuary Nature Reserve;
- ❑ east by the Clarence River;
- ❑ south by Moby Dick Motel; and
- ❑ west by residential development on the western side of Yamba Road (Figure 2).

It is probable that SSFF once occurred over much of the subject site. However, the site is now highly modified, consisting of landscaped grounds, caravan bays (lawned areas), holiday cabins and villas, outdoor swimming pools, a tennis court private roads, picnic and barbecue areas and service buildings.

It is important to note that the Clarence River shoreline (Plate 6 in Appendix 1) and Clarence Estuary Nature Reserve (Plates 7 & 8 in Appendix 1) are not part of the subject site. A stormwater drain and existing fire-trail occur along the boundary of the subject site and the Clarence Estuary Nature Reserve.



**FIGURE 2     AERIAL VIEW OF SUBJECT SITE AND SURROUNDING AREAS**



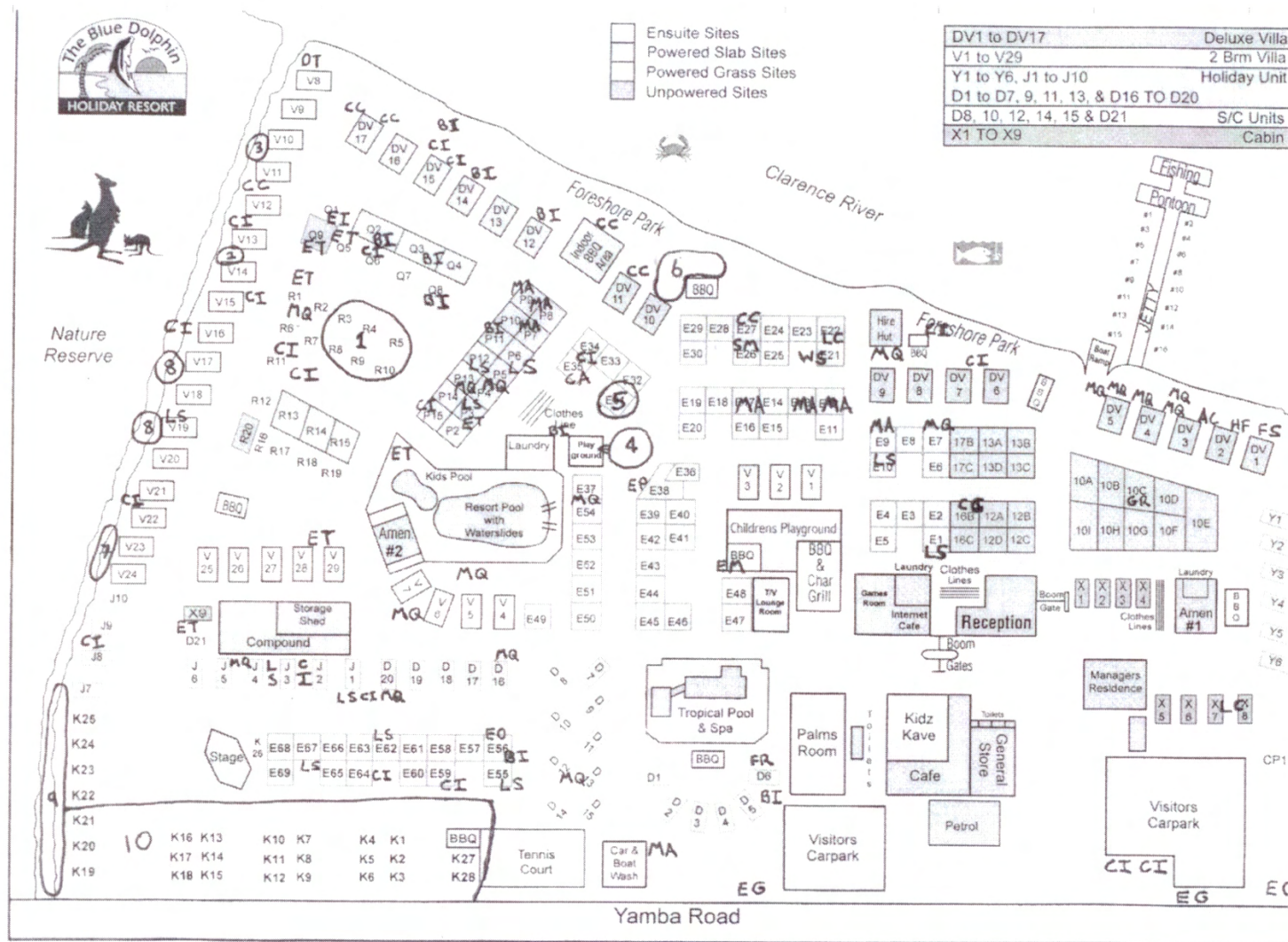
**FIGURE 3 DISTRIBUTION OF REMNANT TREES ON SUBJECT SITE**  
(from Purcell *et al.* 2006)

**Legend:**

Mapped No.	Species List
1	Mature Coast Banksia ( <i>Banksia integrifolia</i> ), Pink Bloodwood ( <i>Corymbia intermedia</i> ), 5 Cypress Pines ( <i>Callitris columellaris</i> ), 4 Blue Lillypillies ( <i>Syzigium oleosum</i> ).
2	6 young Forest Red Gums ( <i>Eucalyptus tereticornis</i> ), 1 Coast Banksia, 1 Brush Ironbark Wattle ( <i>Acacia aulacocarpa</i> ).
3	1 Pink Bloodwood sapling, 1 Brush Ironbark Wattle
4	Clump of mature Broad-leaved Paperbarks ( <i>Melaleuca quinquernervia</i> ), 1 Cypress Pine.
5	3 Cheese Trees ( <i>Glochidion ferdinandi</i> ), 1 Pink Bloodwood, 1 Ribbonwood ( <i>Euroschinus falcata</i> ), 1 Red Ash ( <i>Alphitonia excelsa</i> ), 1 Tuckeroo ( <i>Cupaniopsis anacardioides</i> ), 1 Celerywood ( <i>Polyscias elegans</i> ).
6	13 Cypress Pines, 9 Coast Banksias.
7	1 Brush Ironbark Wattle, 1 New Zealand Spinach ( <i>Tetragonia tetragonoides</i> ), 1 Coastal Wattle ( <i>Acacia sophorae</i> ).
8	1 Brush Ironbark Wattle, 1 Grey Mangrove ( <i>Avicennia marina</i> var. <i>australasica</i> )
9	1 Red Ash, 1 Swamp Oak ( <i>Casuarina glauca</i> ), 1 Broad-leaved Paperbark, 1 White Cedar ( <i>Melia azedarach</i> ), 1 Swamp Turpentine ( <i>Lophostemon suaveolens</i> ), 1 New Zealand Spinach, 1 Native Raspberry ( <i>Rubus parvifolius</i> ), 1 Blackwood ( <i>Acacia melanoxylon</i> ), 1 Black She-oak ( <i>Allocasuarina littoralis</i> ), 1 Cheese Tree.
10	18 Broad-leaved Paperbark, 10 Swamp Turpentines, 3 Coast Banksias, 2 Pink Bloodwoods, 5 Brush Ironbark Wattles, 1 Willow Bottlebrush ( <i>Callistemon salignus</i> ), 1 Forest Red Gum, 1 Hard Quandong ( <i>Eleocarpus obovatus</i> ) with Mistletoe ( <i>Amylotheca dictyophleba</i> ).

Mapped Species	Common Name	Scientific Name
EP	Blackbutt	<i>Eucalyptus pilularis</i>
EM	Swamp Mahogany x Forest Red Gum	<i>Eucalyptus major</i> (hybrid)
EG	Flooded Gum	<i>Eucalyptus grandis</i>
EO	Hard Quandong	<i>Eleocarpus obovatus</i>
FR	Port Jackson Fig	<i>Ficus rubiginosa</i>
DT	Large-leaved Hop Bush	<i>Dodonea triquetra</i>
GR	Silky Oak	<i>Grevillea robusta</i> (planted)
FS	Deciduous Fig	<i>Ficus superba</i>
HV	Native Frangipanni	<i>Hymenostereum flavum</i>
AC	Smooth-barked Apple	<i>Angophora costata</i>
MA	White Cedar	<i>Melia azedarach</i>
CI	Pink Bloodwood	<i>Corymbia intermedia</i>





DV1 to DV17	Deluxe Villa
V1 to V29	2 Brm Villa
Y1 to Y6, J1 to J10	Holiday Unit
D1 to D7, 9, 11, 13, & D16 TO D20	S/C Units
D8, 10, 12, 14, 15 & D21	Cabin
X1 TO X9	