

3 July 2019

**MS Projects Pty Ltd
PO Box 1163
Coorparoo DC Qld 4151**

ATTENTION: Michael Scammel

**RE: Pre-clear fauna habitat inspection
Construction of bioretention basin
84-160 Christensen Road South, Stapylton, Qld**

icubed consulting
innovation ingenuity inspiration
ABN 89 106 675 156

Dear Sir,

i3 consulting Pty Ltd (icubed) was engaged by Burnside Developments Pty Ltd and Yellowstone Investments Pty Ltd to complete a pre-clear inspection of a proposed bioretention basin located on a proposed industrial development site at 84-160 Christensen Road South, Stapylton. The proposed development has been previously approved by the Council of the City of Gold Coast and Condition 10(iv) of the approval requires a letter from a licenced fauna spotter-catcher (FSC) and Fauna Management Plan to be prepared.

I, Dave Fleming (Principal Ecologist, icubed), hold a Rehabilitation Permit (WA0014287) under the Nature Conservation (Administration) Regulation 2017. I completed a pre-clear inspection on 12th March 2019. The site visit was completed to confirm the presence of:

- vegetation to be removed during site works
- fauna habitat features including, but not limited to, habitat trees, scats, scratches, log-piles, termitaria, burrows, hollows, stags, fruit and seed falls, fallen logs, ground diggings, rocky outcrops, nests and breeding sites
- habitat for threatened species.

The site contains mapped non-remnant vegetation that provides minimal habitat for fauna species. No significant habitat trees, hollows or other features are present. The site does not contain any ecologically significant areas (as per Appendix 4 of Policy 8: Guidelines for Ecological Assessments) and does not contain any habitat for koala *Phascolarctos cinereus*. No threatened species are likely to regularly utilise the site. No fauna species were detected during the pre-clear inspection.

The existing detention basin contains native wetland plants with occasional infestations of exotic grasses. The basin provides limited values for aquatic fauna.

A Fauna Management Plan has been prepared for the site (Plan ref. 17-209-V300-B).

Should you require any further information, please do not hesitate to contact the undersigned at this office on (07) 3870 8888.

Yours faithfully



**Dave Fleming
Principal Ecologist**

1.0 INTRODUCTION

- This Fauna Management Plan meets the requirements of Condition 27 of the Amended Decision Notice (ROL201800026) for 84-160 Christensen Road South, Stapylton
- This Fauna Management Plan has been prepared by Dave Fleming, Principal Ecologist, icubed consulting and has been prepared in accordance with Schedule 6.8.6 of the City Plan Version 6 (2018)

2.0 FAUNA HABITAT VALUES

2.1 METHODS

- A desktop assessment was completed followed by a site visit. The desktop assessment interrogated the following databases:
- Protected matters search tool (PMST) for matters of national environmental significance (MNES) under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) within 1 km radius of the site.
 - Wildlife online (Department of Environment and Science [DES]) for species listed as threatened under the Nature Conservation Act 1992 (NC Act) within 1 km.
 - vegetation management regional ecosystem (RE), essential habitat and koala habitat mapping layers from the Queensland Globe
 - Environmental significance - priority species overlay under the Gold Coast City Plan.

- The site visit was completed by Dave Fleming, Principal Ecologist, icubed consulting, on Tuesday 12 March 2019. The site visit was completed to confirm the presence of:
- vegetation to be removed and to be retained during site works
 - fauna habitat features including, but not limited to, habitat trees, scats, scratches, log-piles, termitarium, burrows, hollows, stags, fruit and seed falls, fallen logs, ground diggings, rocky outcrops, nests and breeding sites.

2.2 RESULTS

- The PMST report is provided in Appendix 1. A total of 36 listed threatened species and 16 migratory species are potential occurrences based on modelled habitat. No species are likely occurrences within the site.
- 14 records were returned in the Wildlife online search (Appendix 2), including:
 - tusked frog *Adelotus brevis*, listed as vulnerable under NC Act
 - koala *Phascogaleos cinereus*, listed as vulnerable under NC Act and EPBC Act
 - grey-headed flying-fox *Pteropus poliocephalus*, listed as vulnerable under EPBC Act
- the following species are listed as special least concern fauna:
 - short-beaked echidna *Tachyglossus aculeatus*
 - eastern osprey *Pandion cristatus*
 - white-throated needletail *Hirundapus caudacutus*
 - gull-billed tern *Gelochelidon nilotica*
 - spectacled monarch *Symposiachrus trivirgatus*
 - black-faced monarch *Monarcha melanopsis*
 - rufous fantail *Rhipidura rufifrons*
 - wood sandpiper *Tringa glareola*
 - sharp-tailed sandpiper *Calidris acuminata*
 - marsh sandpiper *Tringa stagnatilis*
 - glossy ibis *Plegadis falcinellus*
- Koalas have been recorded from Halfway Creek, within 1.25 km south of the site (BioMaps, DES 2019).
- The Gold Coast Flora and Fauna database shows koala (listed vulnerable under EPBC Act and NC Act), wallum froglet *Crinia tinnula* (listed vulnerable NC Act), wallum sedgefrog *Litoria longibarbata* (listed vulnerable under EPBC Act and NC Act) records from Sandy Creek, west of the Pacific Highway and approximately 1.5 km from the site (GCCC Flora and Fauna Database)
- The site contains mapped non-remnant vegetation that provides minimal habitat for fauna species. No significant habitat trees or features are present.
- The site does not contain any ecologically significant areas (as per Appendix 4 of Policy 8: Guidelines for Ecological Assessments)
- The site does not contain any habitat for koala and is mapped as low value rehabilitation under the SEQ koala habitat mapping (GHD 2009). The site is not included in a koala assessable development area (KADA) or priority koala assessable development area (PKADA).
- No other threatened species are likely to regularly utilise the site.
- The detention basin contains native wetland plants with occasional infestations of exotic grasses. The basin provides limited values for aquatic fauna.
- Significant ecological values are mapped within Sandy Creek and the mapped remnant vegetation to the east of the site. (Figure 1)



3.0 FAUNA MANAGEMENT

3.1 IMPACTS TO FAUNA

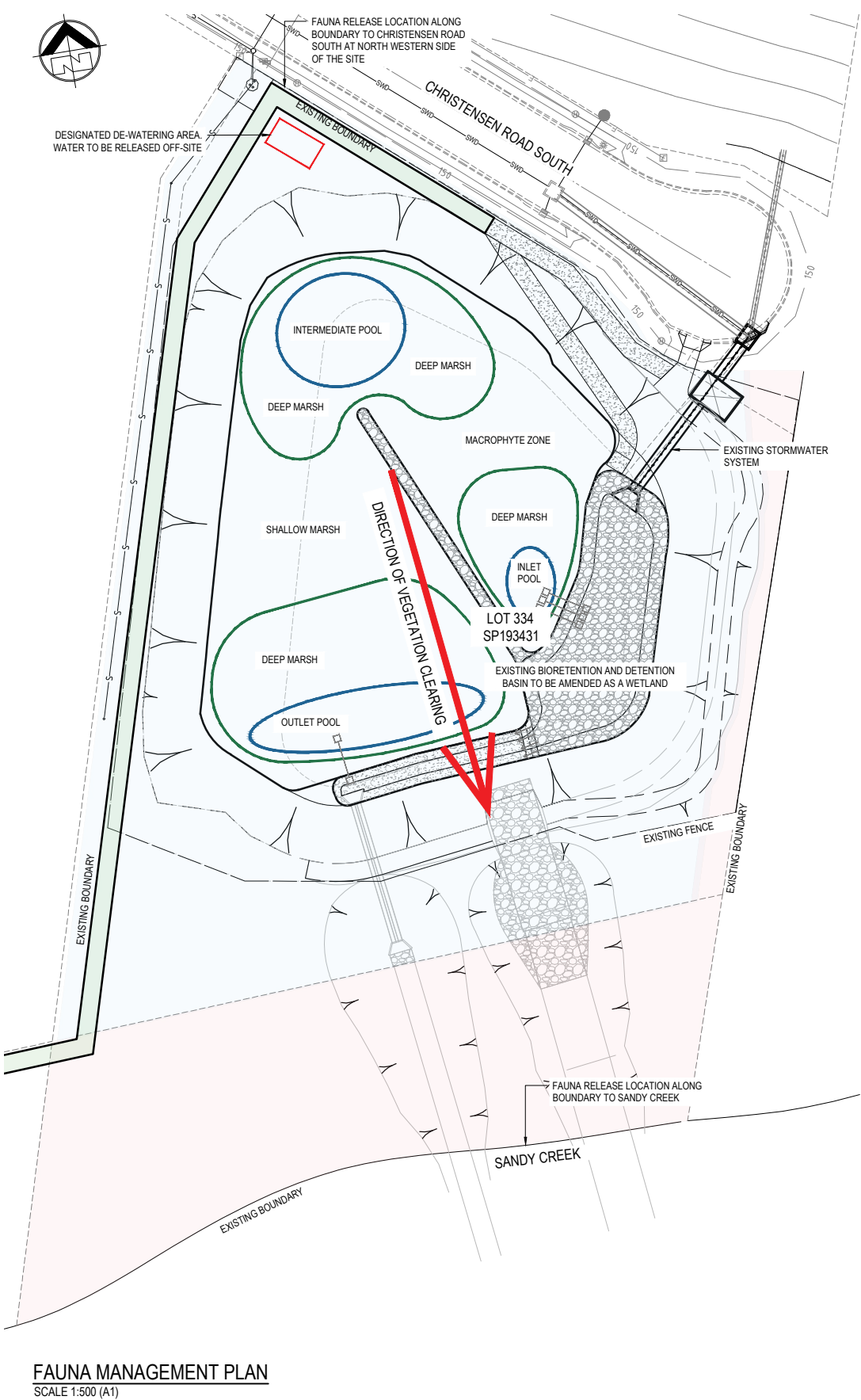
- Impacts to fauna from clearing activities will be restricted to removal of regrowth vegetation
- Fauna injury or death may occur from vegetation clearing activities

3.2 FAUNA PROTECTION

- All activities to be undertaken within the site must have regard to the protection and management of fauna.
- The aim of the FMP is to protect and manage fauna and their welfare during vegetation clearing

3.3 PRE-CLEARING PHASE

- A licenced and experienced fauna spotter-catcher (FSC) shall be engaged by the Project Manager.
- A pre-clearance survey shall be completed by the FSC within two weeks prior to vegetation clearing.
- The FSC shall prepare a pre-clear report following the survey and provide to Council no less than one week prior to the pre-start meeting.
- The FSC shall attend the pre-start meeting
- The pre-clearance survey shall identify and mark any breeding places potentially impacted by site works. Any habitat features potential containing fauna shall be recorded and appended to this FMP and demarcated on the site.
- Areas of vegetation to be retained / removed shall be demarcated in accordance with the Vegetation Management Plan (icubed consulting 2019)
- Should dewatering of the detention basin be required, a FSC who has experience and is licenced to remove aquatic fauna under the NC Act and/or Fisheries Act 1994 shall be present. The aquatic FSC shall attempt to remove any aquatic species present within the basin prior to final dewatering.
- Captured aquatic species shall be translocated into pools within Sandy Creek.



FAUNA MANAGEMENT PLAN
SCALE 1:500 (A1)

3.4 CLEARING PHASE

- The FSC shall be present for all vegetation clearing and/or dewatering activities
- The FSC and clearing equipment operator must establish a system of communication to manage safe interaction during clearing. This may involve use of two way radios or other method of communication.
- The FSC shall operate in accordance with the requirements of their Rehabilitation Permit issued by the DES and Animal Ethics authorisation from the Department of Agriculture and Fisheries. If the FSC does not possess a guide to FSC activities, they shall operate in accordance with the 'Code of Practice for the Welfare of Wild Animals affected by Land-clearing and other Habitat Impacts and Wildlife Spotter/catchers' (Hanger & Notridge, 2008).
- Should clearing be completed over more than one day, the FSC shall perform a pre-clear check of the vegetation to be cleared that day
- Clearing activities proposed adjacent to retained vegetation shall have due regard for potential impact on adjacent fauna breeding places
- Due to the homogenous nature of the regrowth vegetation present, the clearing does not require staging
- There shall be one FSC per piece of clearing equipment. If additional clearing equipment is to be used, then additional FSCs shall be present, unless the equipment is being used in close proximity to each other and the FSC can adequately service each clearing front
- The FSC shall be present for any proposed interaction with stockpiled material if the material has been stockpiled for more than 24 hours.
- FSCs shall attempt to direct any fauna within the site to leave of their own accord. Should fauna be at risk of injury, the FSC may attempt to capture the fauna.
- Captured fauna during clearing activities shall be translocated into the conservation buffer zone to the south of the site, or adjacent vegetation along Sandy Creek, on within the Christensen Road reserve.
- If fauna are suspected to be injured, the FSC shall attempt to capture the fauna and make an assessment about whether to:
 - release the fauna within the translocation area if uninjured
 - transport the fauna to a veterinary surgeon for assessment, treatment and rehabilitation or humane termination. The fauna may then be taken to a registered wildlife carer for rehabilitation and eventual release
 - euthanise the fauna in the field according to the Australian and New Zealand Council for the Care of Animals in Research and Teaching guide 'Euthanasia of Animals Used for Scientific Purposes' (2001, currently under revision).
- No clearing activities shall be performed on the site while the FSC is not present
- Fauna injuries, deaths and incidents involving fauna shall be reported to Council immediately by the FSC or Site Supervisor
- Fauna should be transported in accordance with the holding times and carriers in Hanger & Notridge (2008).

3.5 POST-CLEARING PHASE

- A post-clear report shall be prepared by the FSC and provided to Council.

4.0 ROLES AND RESPONSIBILITIES

- FSC - responsible for fauna management and welfare during clearing activities
- Clearing operator - responsible for following all reasonable directions from the FSC in order to ensure the safe welfare of fauna
- Site Supervisor - responsible for ensuring that the Fauna Management Plan measures are complied with.
- Project Manager - responsible for organising the FSC pre-clear survey and to be present during clearing
- All other site personnel - responsible following all reasonable instructions from the FSC.

5.0 KEY CONTACTS

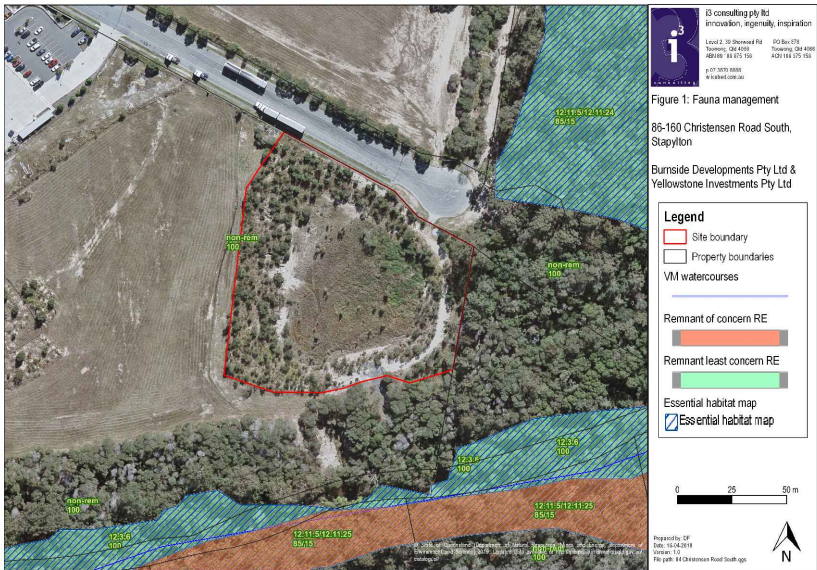
- FSC - to be advised
- Veterinary Surgery - Greenroosa Vets, 69 City Rd, Beenleigh QLD 4207, Ph: (07) 3287 2470
- Wildlife Care Gold Coast, Ph: (07) 5527 2444
- DES wildlife incidents, licensing and permits, Ph: 1300 130 372
- RSPCA Queensland, for reporting sick, injured or orphaned wildlife, Ph: 1300 ANIMAL (264 625)
- Site Supervisor - To be advised
- Council contact - To be advised

APPENDIX 1 - PMST RESULTS

Attached external to this drawing.

APPENDIX 2 - WILDLIFE ONLINE RESULTS

Attached external to this drawing.



GCCC REF: OPW/2019/160



FOR TENDER			
B	FOR TENDER	03.06.2019	K.J.L.
FOR CLIENT REVIEW			
A	FOR CLIENT REVIEW	15.04.2019	K.J.L.
REV	DESCRIPTION	DATE	BY

Consulting Engineer:

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innovation, ingenuity, inspiration
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LEGEND

- PROPOSED LOT BOUNDARY
- EXISTING PROPERTY BOUNDARY
- VEGETATION TO BE CLEARED
- VEGETATION TO BE RETAINED

Engineers Certification:

Travis Smith MIE Aust. CPEng.
RPEQ 16400

Signature:

Date:/...../.....

Project
**PROPOSED SUBDIVISION AT
86-160 CHRISTENSEN ROAD
SOUTH, STAPYLTON**
for
**BURNSIDE DEVELOPMENTS P/L &
YELLOWSTONE INVESTMENTS P/L**

Title
**FAUNA MANAGEMENT
PLAN**

Status
FOR TENDER

Drawn	Date	Chkd	Date
K.J.L.	05.04.19	D.F.	05.04.19
Design	Date	Apprd	Date
D.F.	05.04.19		
Scale	A1	Certif	Date
AS SHOWN			
Project No.	Dwg. No.	Rev.	
17-209	V300	B	

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