

Westminster Estates Pty Ltd
Jindee Innovation Project
Conservation Management Plan

9 December 2020 57481/130,978 (Rev 8) JBS&G Australia Pty Ltd T/A Strategen-JBS&G



EPBC number: EPBC 2012/6631

**Project name:** Jindee Innovation Project **Proponent:** Westminster Estates Pty Ltd

**Proposed/approved action:** To clear native vegetation on Lot 9036 and part lot 3054 Marmion

Avenue, Jindalee, WA for development of a residential estate

**Location:** 37km north of Perth and 14km west of Joondalup City Centre within lot 9006

Marmion Avenue

Date: 8 December 2020

#### **Declaration of Accuracy**

In making this declaration, I am aware that section 491 of the *Environmental Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) makes it an offence in certain circumstances to knowingly provide false or misleading information or documents to specified persons who are known to be performing a duty or carrying out a function under the EPBC Act or the *Environment Protection and Biodiversity Conservation Regulations 2000* (Cth). The offence is punishable on conviction by imprisonment or a fine, or both. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed

Full name (please print)

Darren Walsh

Organisation (please print)

JBS&G Australia Pty Ltd T/A Strategen-JBS&G

Date

9 December 2020



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#### 1. Introduction

Westminster Estates Pty Ltd (Westminster) entered into an agreement in 2007 with the Western Australian Planning Commission (WAPC) and the City of Wanneroo (CoW) to undertake an innovative residential development, known as the Jindee Innovation Project. The Jindee Innovation Project is located approximately 37 km north of Perth, and 14 km west of the Joondalup City Centre, Western Australia, in the CoW (Figure 1.1). The development will occur on land owned by Westminster or under contract to Westminster, within Lot 9006 Marmion Avenue (Figure 1.2).

The Project Area covers a total area of 119.5 ha, including 6.9 ha of Parks and Recreation which was developed in consultation with the WAPC and the Environmental Protection Authority (EPA) with an objective to maximise the biodiversity protected on site.

This Conservation Management Plan (CMP) has been prepared in accordance with Condition 10 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) approval 2012/6631 for the Jindee Innovation Project (Appendix A). The purpose of this CMP is to demonstrate how Carnaby's Cockatoo habitat retained within ROS spaces within the Project Area will be managed in order to protect and enhance the available habitat (Figure 1.3).

#### 1.1 Objective

The objective of this CMP is to meet the requirements of condition 10 of EPBC 2012/6631. The CMP has been prepared in accordance with condition 10 as outlined in Table 1.1.

Table 1.1: Sub-requirements of condition 10 and corresponding CMP section where each addressed

<b>Condition No</b>	Condition text	Relevant section
10	To protect and enhance habitat for Carnaby's Black Cockatoo, the approval	N/A
	holder must prepare and submit a Conservation Management Plan (the	
	plan) detailing management of habitat for Carnaby's Black Cockatoo that is	
	to be retained on the proposal site, for the Minister's approval. The plan	
	must include	
10(a)	measures to physically delineate areas that will be retained	Section 3.1.1
10(b)	erosion and dust control measures during construction	Section 3.1.2
10(c)	the management of weeds, Phytophthora dieback, bushfire and feral	Sections 3.1.3, 3.1.4,
	animals	3.1.5 and 3.1.6
10(d)	identification of any degraded habitat and how those areas will be managed	Section 3; Figure 3.1
10(e)	a monitoring program for Carnaby's Black Cockatoo and their habitat	Section 4
10(f)	Details of who will be responsible for the long-term management of the	Section 6.1.
	retained land, and how the land will be protected in the long term	
10(g)	a commitment to fund all management actions in the two Parks and	Section 3.1
	Recreation areas within the site boundary marked in green at Attachment B	
	until the management of those areas is handed over to another party,	
	including the amount of funding that will be allocated to these management	
	actions	
10(h)	performance indicators and corrective actions	Section 5
10(i)	roles and responsibilities; and	Section 6.2
10(j)	timeframes for the implementation of the above measures	Section 6.1

#### 1.2 Land details

The Project Area includes Lots 9006, 8001 and 8002 Marmion Avenue and has approximately 800 m frontage to the Indian Ocean. It is located within proximity to the Brighton District Centre, the proposed Brighton rail station and the Mitchell Freeway extension.



Table 1.2: Land identification information

Street address	Suburb	Cadastral information	Title	Zoning	Structure Plan
2469 Marmion	Jindalee	Lot 9006 Marmion	Lot 9006 on	Urban	LSP 84
Avenue		Avenue	DP 403862		
2409K Marmion	Jindalee	Lot 8001 Marmion	Lot 8001 on	Parks and Recreation	LSP 84
Avenue		Avenue	DP 403862		
1000K Maritime	Jindalee	Lot 8002 Marmion	Lot 8002 on	Parks and Recreation	LSP 84
Drive		Avenue	DP 403862		

#### 1.3 Statutory and policy context

#### 1.3.1 Metropolitan Regional Scheme Amendment

The Project Area includes Lots 9006, 8001 and 8002 Marmion Avenue. The coastal environment within and adjacent to Lot 9006 includes both limestone cliffs and beaches underpinned by limestone formation, which can support development closer to the coast than contemplated by the former Metropolitan Regional Scheme (MRS) boundary. An MRS amendment application was lodged in 2008 to amend the boundary (1152/41) and was approved by State Parliament in November 2009.

The MRS amendment was referred under the Section 48A of the *Environmental Protection Act 1986* (EP Act) to the EPA in March 2008. The level of assessment was set at 'Scheme Amendment Not Assessed – Advice Given' in May 2008. The EPA supported the scheme amendment on the basis that the two Parks and Recreation reserve were to be provided to offset the area of the foreshore Parks and Recreation Reserve that was proposed to be zoned Urban. As a result a land exchange was completed between the landowner and the WAPC for the reserves that are now Lots 8001, 8002.

#### 1.3.2 Environment Protection and Biodiversity Conservation Act 1999

The Jindee Project Area was the subject of EPBC approval 2012/6631, referred to the Department of the Environment (DotE) on 16 November 2012 and approved 18 July 2013. This CMP has been prepared in accordance with proposed condition 10 of this EPBC approval (refer to Table 1.1).

In accordance with condition 10 of EPBC approval 2012/6631, if the Minister approves the CMP, the approved plan must be implemented.









#### 2. Carnaby's Cockatoo

#### 2.1 Species information

Carnaby's Cockatoos (*Calyptorhynchus latirostris*) are endemic to the South West of Western Australia. They mainly occur in uncleared remnant native eucalypt woodlands, especially those that contain Salmon gum, wandoo, and in shrubland or Kwongan heathland dominated by *Hakea*, *Dryandra*, *Banksia* and *Grevillea* species (DSEWPaC 2012). Current data on distribution of this species shows that there are numerous records along the Northern Swan Coastal Plain, including records in and around the Project Area.

#### 2.2 Habitat within the Project Area

The vegetation within the Project Area is varied, reflecting the topography and soils found on site. Areas of Banksia woodland as well as the *Dryandra sessilis* thickets within the Project Area have the potential to support flora species known to be a food source for Carnaby's Cockatoo (Bamford 2006). The Project Area is not considered to contain breeding habitat for this species as it does not contain trees suitable for breeding purposes (RPS 2012).

The development will result in the removal of no more than 43.45 ha of potential Carnaby's Cockatoo foraging habitat. At least 1.72 ha of good – excellent potential Carnaby's Cockatoo foraging habitat will be retained in ROS areas (Figure 1.3, Figure 2.1).





#### 3. Management measures for Carnaby's Cockatoo and their habitat

#### 3.1 Parks and Recreation Reserves

The purpose of this CMP is to demonstrate how Carnaby's Cockatoo habitat retained within the Project Area will be managed in order to protect and enhance the available habitat (Figure 2.1).

In accordance with conditions 10(g) of EPBC approval 2012/6631, Westminster will implement works funded to the order of \$393 000 (excl GST), as agreed by the WAPC to implement all relevant management actions in the two Parks and Recreation Reserves (A and B), until the management of those areas is handed over to another party, which is mostly likely to be the WAPC. The reserves will be handed over within 5 years of substantial commencement of the action, which will occur when land titles are created through the subdivision process administered by the WAPC. These areas are vested as Parks and Recreation Reserve under the Metropolitan Region Scheme (MRS) ensuring it is protected in the long term (see Table 6.1 for further information). The MRS is the highest order instrument within the WA town planning system and modifications can only occur with the approval of Parliament.

The works to be undertaken by Westminster are outlined in Appendix B, and will include:

- fire management
- installation of appropriate barriers to prevent pedestrian access such as fencing and access gates to dunes
- installation public amenities (i.e. pathways and observation deck)
- infill planting/seeding and weed control of areas to be revegetated as per the Clearing and Revegetation Management Plan and Table 3.1.

These management works will therefore be implemented as per Table 3.1 to protect and enhance the retained Carnaby's Cockatoo habitat within the Parks and Recreation Reserves. Vegetation across the site is predominantly in very good condition (RPS 2012, Appendix C); however, there are some degraded areas that are in proximity to Carnaby's Black-Cockatoo habitat proposed to be retained where native vegetation has been disturbed and weeds have been introduced by unauthorised access of off-road vehicles within the Parks and Recreation Reserves (Figure 3.1). Some of these unauthorised tracks are also proposed to be used in the creation of formal access pathways for pedestrians to reduce the clearing requirements in the Parks and Recreation Reserves. All degraded areas not proposed to be used for formal access tracks will be revegetated.

Degraded habitat within the Parks and Recreation Reserves will be managed through revegetation and weed control will be implemented as outlined in the Clearing and Revegetation Management Plan (Strategen 2014).

Table 3.1: Management measures for the Parks and Recreation reserves

Action	Timing	Responsibility
Carnaby's Cockatoo habitat being retained will be delineated by survey along	Prior to clearing	Construction
clearing boundaries and protected by the installation of temporary fencing or survey		contractor
pegs and flagging tape.		
GPS co-ordinates of areas approved to be cleared and those required to be retained	Prior to clearing	Construction
will be provided to the contractor to ensure no unapproved clearing is undertaken.		contractor
Appropriate barriers to prevent pedestrian access such as fencing will be installed	During	Construction
around the perimeter of the Parks and Recreation Reserves.	construction	contractor
Access point in the form of a single gate will be installed at strategic locations in the	During	Construction
Parks and Recreation Reserves.	construction	contractor
Stabilised gravel path and limestone bollards will be installed within the Parks and	During	Construction
Recreation Reserve to ensure controlled public use.	construction	contractor
Gravel fire access tracks will be constructed in accordance with the Fire	During	Construction
Management Plan*.	construction	contractor



Action	Timing	Responsibility
Firebreak creation, maintenance, removal of dead branches, and general fire	During	Construction
prevention activities will be undertaken as recommended in the Fire Management	construction	contractor, and
Plan*. Note: Avoid disturbance of any Carnaby's Cockatoo habitat in Parks and		Westminster
Recreation areas for the purpose of firebreak creation.		
Determine appropriate method and timing of weed control in consultation with a	As per CRMP	Westminster
suitably qualified specialist, based on monitoring results as described in the CRMP.		
Implement weed control.	As determined	Westminster
	by previous step	
	and CRMP	
Monitor weed control results and implement further control if required as described	As per CRMP	Westminster.
in the CRMP		
All vehicles, machinery and equipment will be free of mud and soil.	When entering	Revegetation
	Parks and	(weed)
	Recreation	contractor
	areas.	
Engage a qualified and licensed subcontractor, if necessary to undertake pest fauna	On advice of	Westminster
control/removal appropriate to the species detected, based on monitoring	qualified	
described in CRMP.	subcontractor	

<sup>\*</sup>A Fire Management Plan will be addressed as part of the planning approvals process and will be finalised in accordance with CoW standard operating procedures.

#### 3.1.1 Physical delineation of habitat to be retained

Delineation of habitat to be retained is important during the construction phase, as well as post construction. If retained Carnaby's Cockatoo habitat is not adequately delineated, it may become degraded through unapproved clearing, trampling, predation by feral animals/domestic pests and the introduction/spreading of weeds.

Prior to commencement of works within proximity of Carnaby's Cockatoo habitat to be retained within the ROS spaces will be delineated by survey and adequately delineated to ensure the areas are not disturbed during clearing or earthworks. Refer to Table 3.2 for further specific management measures.

Table 3.2: Management measures for delineating areas to be retained

Action	Timing	Responsibility
Carnaby's Cockatoo habitat being retained will be delineated by survey along	Prior to clearing	Construction
clearing boundaries and protected by the installation of temporary fencing in areas		contractor
adjacent to construction activity, or survey pegs and flagging tape where		
construction activity is not occurring.		
Temporary signage will be installed in accordance CoW standard signage policy to	Prior to clearing	Construction
restrict construction workers from entering Carnaby's Cockatoo habitat being		contractor
retained.		
GPS co-ordinates of areas approved to be cleared and those required to be retained	Prior to clearing	Construction
will be provided to the contractor to ensure no unapproved clearing is undertaken.		contractor
Appropriate barriers to prevent pedestrian access such as fencing 'will be installed	During	Construction
around the perimeter of ROS areas or retained habitat within to CoW specifications	construction	contractor
designed to prevent public access.		
Access points will be installed at strategic locations in the ROS areas to CoW	During	Construction
requirements.	construction	contractor
Permanent signage will be installed to encourage public education and awareness	During	Construction
on:	construction	contractor
the importance of retained bushland		
• the detrimental effects of rubbish, weeds and pathogens on biodiversity		
the importance of keeping to the designated walking tracks		
• the requirement for dogs to be on a lead in designated areas.		





#### 3.1.2 Erosion and dust control measures for retained habitat

Dust generation within the Project Area has the potential to affect the health of retained Carnaby's Cockatoo habitat and/or cause changes in fauna behaviour in areas with frequently high dust levels.

The following project activities have the potential to generate dust during construction:

- earthworks (i.e. excavation, stockpiling, loading and movement of soil and construction waste, clearing of vegetation)
- vehicle/machinery activity on unsealed surfaces.

Appropriate dust and erosion management measures will be utilised to ensure that impacts to retained Carnaby's Cockatoo habitat areas are minimised. Refer to Table 3.3 for further specific management measures.

Table 3.3: Management measures for erosion and dust control measures during construction

Action	Timing	Responsibility
Cleared areas and any dry, dust-prone areas or stockpiles will be stabilised to	During	Construction
prevent dust generation. Stabilisation methods may include wetting (through use of water trucks), application of hydromulch, use of chemical polymers (if required) or other sealing material.	construction	contractor
Vehicle speeds will be restricted to 40 km/hr to minimise dust generation on	During	Construction
designated roads, access tracks and within construction areas.	construction	contractor

#### 3.1.3 Weed management for retained habitat

A weed assessment has been undertaken of the areas of Carnaby's Cockatoo habitat within the Project Area (Strategen 2014). The purpose of the assessment was to determine the presence and abundance of exotic or weed species, particularly in the habitat to be retained. The weed assessment recorded high numbers and densities of introduced weeds through the majority of the existing Carnaby's Cockatoo habitat (Strategen 2014). A total of 20 weed species were recorded, including ten species listed as having a high ecological impact (DEC 2009).

Appropriate weed management measures will be implemented within ROS areas as soon as vegetation clearing commences adjacent to the ROS areas. Weed management will occur during and after construction works adjacent to ROS areas to minimise further spread of weed within retained Carnaby's Cockatoo habitat.

Weed management will be implemented using several techniques, including:

- spot spraying where hand-spraying apparatus is applied directly to the target plant
- hand weeding physical removal of the weeds.

Refer to Table 3.4 for further specific management measures.

Table 3.4: Weed management measures

•		
Action	Timing*	Responsibility
Identify weeds occurring in retained habitat in ROS areas.	Annually	Westminster until
		handover
Determine appropriate method and timing of weed control in	Annually	Westminster until
consultation with a suitably qualified specialist.		handover
Implement weed control.	As determined by previous	Westminster until
	step	handover
Monitor weed control results and implement further control if	Annually	Westminster until
required, on the advice of CoW (e.g. bushland management		handover
personnel) or suitably qualified specialist.		

<sup>\*</sup> Weed control will commence in ROS areas when those ROS areas are directly adjacent or within the current stage of construction. Weed control will continue to be implemented by Westminster until the ROS area is handed over to the WAPC for management.



#### 3.1.4 Pathogen management for retained habitat

A dieback assessment has been undertaken across all Carnaby's Cockatoo habitat contained within the Project Area. The purpose of this assessment was to identify areas at risk of dieback in order to prevent the possible spread of dieback to other areas (Glevan 2013).

No dieback infestations were observed during the assessment; however the survey area was found to be underlain by the calcareous soils of the Quindalup Dune system and these alkaline soils are known to be hostile to the pathogen (Glevan 2013). As a result, dieback does not express on such soils, and the entire study area has been classified as uninterpretable. The pathogen may be present within the study area, but it will subsist as an organism, rather than manifest and proliferate as visible disease symptoms. Due to the uncertainty of whether dieback exists within the areas to be retained, these areas will be managed as if they are dieback infested to minimise potential spread.

Appropriate management measures will therefore be implemented prior to, during and after construction works to minimise potential spread of dieback infestations to retained Carnaby's Cockatoo habitat. Access into these areas will be restricted and the appropriate dieback hygiene procedures will be undertaken for any authorised access to these areas. Refer to Table 3.5 for further specific management measures.

**Table 3.5: Pathogen management measures** 

Action	Timing	Responsibility
All construction personnel will be inducted in relation to dieback risk,	During construction	Construction
potential impacts and management.		contractor
All vehicles, machinery and equipment will be free of mud and soil.	During construction –	Construction
	when arriving at site	contractor

#### 3.1.5 Bushfire management for retained habitat

Bushfires have the potential to cause serious damage to habitat within the Project Area. A Fire Hazard Assessment was prepared for the Project Area in 2012 by Town Planning Management Engineering Pty (TME 2012; Appendix E) in accordance with the requirements of the Planning for Bushfire Protection Guidelines (FESA & DPI 2010) to identify the relevant bush fire management issues which need to be addressed in the implementation of the Local Structure Plan, Detailed Area Plans and subdivision design.

A Fire Management Plan will be addressed as part of the planning approvals process and will be finalised in accordance with CoW standard operating procedures.

Refer to Table 3.6 for further specific management measures in relation to retained habitat.

**Table 3.6: Fire management measures** 

Action	Timing	Responsibility
A Fire Management Plan will be prepared as required in accordance	Pre-construction	Westminster
with CoW standard operating procedures.		
Firebreak creation, maintenance, removal of dead branches, and	Ongoing	Westminster until
general fire prevention activities will be undertaken as recommended		handover
in the Fire Management Plan.		
A reticulated water supply will be extended throughout the subdivision	During construction	Westminster
area to all proposed lots.		



#### 3.1.6 Feral animal control for retained habitat

Feral animals have the potential to negatively affect retained Cockatoo habitat through overgrazing, predation, burrowing, and generally providing additional competition for food and shelter. In particular, feral cats, foxes and rabbits have the potential to cause considerable damage to retained habitat if they occur within the Project Area.

Given this project involves the establishment of a residential development, it is anticipated that domestic cats and dogs will also likely pose a threat to native flora and fauna contained within retained Carnaby's Cockatoo habitat. Community education will therefore be required as well as appropriate feral animal controls utilised where required to protect and enhance the Carnaby's Cockatoo habitat being retained (Table 3.7).

Table 3.7: Feral animal control measures

Action	Timing	Responsibility
Engage a qualified and licensed subcontractor to undertake pest	On advice of qualified	Westminster until
fauna control/removal appropriate to the species detected, based	subcontractor	handover
on monitoring results (Table 4.1).		
Provide community education signage around conservation areas	To be placed post-	Westminster
detailing the potential risk domestic cats and dogs may pose to	construction	
native flora and fauna within the Estate.		



#### 4. Monitoring actions

A monitoring program has been developed focusing on monitoring of retained Carnaby's Cockatoo habitat within the site rather than monitoring of individual Carnaby's Cockatoos utilising the site (Table 4.1). This species is highly mobile in nature and rely on different areas of habitat at different times of the year and between years. It would therefore be difficult to obtain a true representation of the effects of the development on this species through the monitoring of individual Cockatoos. Provision for the recording of opportunistic sightings or evidence of Carnaby's Cockatoo on-site has been included in this CMP.

A detailed monitoring program for revegetation, including weed control and degraded habitat within the two Parks and Recreation Reserves, is provided in the Clearing and Revegetation Management Plan (Strategen 2014).

Fire management will be monitored in accordance with the Fire Management Plan that will be prepared if required as part of the planning approval process and will be developed in accordance with CoW standard operating procedures.

Table 4.1: Monitoring actions – Parks & Recreation and ROS spaces

Parameter	Frequency	Location	Purpose	Responsibility
Delineation of habitat to	• •			,
Condition of	Quarterly during	Retained habitat near	To ensure infrastructure is in	Construction
infrastructure	construction.	clearing boundaries.	good condition and that there	contractor
delineating Carnaby's			has been no unauthorised	
Cockatoo habitat			clearing beyond the barrier.	
(fencing, gates,				
pathways, signage etc).				
Monitoring of revegetation	on success within degr	aded habitat	I	I
			thin retained habitat areas is pro	vided in the
Clearing and Revegetatio	-	-	<b>,</b>	
Erosion and dust control	-	, ,		
Visual observations of	Opportunistically	Unsealed surfaces	To minimise erosion and dust	Construction
dust generation and	during construction.	prone to dust	impacts from construction on	contractor
erosion.	0 : : : : : : : : : : : : : : : : : : :	generation (e.g. roads,	retained habitat.	
		stockpiles).		
Dust suppression	Opportunistically	Where potential dust		Construction
equipment / actions.	during construction.	generation is taking		contractor
		place.		
Visual observation of	Monthly during	Retained Carnaby's		Construction
vegetation health,	construction.	Cockatoo habitat		contractor
including dust		beyond clearing		
smothering and		boundaries.		
erosion.				
Weed management for re	etained habitat			
A detailed monitoring pro	ogram for revegetation	, including weed contro	l, of degraded habitat within the	Parks and
Recreation Reserves is pr	ovided in the Clearing	and Revegetation Plan (	Strategen 2014).	
Pathogen management fo	or retained habitat			
Inspection of machinery	At first time of entry	Authorised access	To ensure appropriate dieback	Construction
for construction works.	and	points into the site.	hygiene are being undertaken.	contractor
	opportunistically			
	during construction.			
Bushfire management for				
			equired as part of the planning a	oproval process
and will be developed in		standard operating proc	edures.	
Feral animal control for r				
Presence of pests/feral	Annually in spring.	Retained Carnaby's	To determine presence of	Westminster
animals/domestic	Opportunistically.	Cockatoo habitat in	pests/feral animals within the	
animals (foxes, rabbits		ROS areas until	retained habitat, and whether	
and feral cats).		handover.	fauna control is required.	



Parameter	Frequency	Location	Purpose	Responsibility
Carnaby's Cockatoo oppo	ortunistic monitoring			
Presence of Carnaby's	Opportunistically.	Retained Carnaby's	To determine presence of	Westminster
Cockatoo (as indicated		Cockatoo habitat in	Carnaby's Cockatoo within the	
by sightings, evidence		ROS areas, and in	retained habitat.	
of foraging, etc.).		revegetation areas,		
		until handover.		



#### 5. Performance indicators and corrective actions

#### 5.1 Parks and Recreation Reserves

Corrective actions for the Parks and Recreation reserves are to be initiated in the event that the objectives for the protection and management of the retained habitat areas are not, or will not be met (Table 5.1).

**Table 5.1: Performance indicators and corrective actions** 

Parameter	Performance indicator	Trigger	Action			Responsibility
Access /	Areas of retained	Unrestricted or	Determine ho	ow access was gained and,	if	Construction
delineation of	habitat	unauthorised	possible, the	likely time of access.		contractor
areas that will	delineated.	access.	Implement re	emedy, which could include	e:	
be retained.			repair fence/			
			_	highlight prohibited acces	S.	
			Monitor succ	ess of control.		
Erosion and	Cleared areas and	Excessive dust	Investigate ca	ause.		Construction
dust.	any dry, dust-	levels are	Implement a	dditional dust control meas	sures	contractor
	prone areas or	observed.	as appropriat			
	stockpiles			nitoring (visual observatior	ıs) to	
	stabilised.		determine su	iccess of implemented		
			management	t actions.		
Weed and	In accordance with the Clearing and Revegetation Management Plan.					
pathogens.						
Bushfires.	In accordance with the Fire Management Plan that will be prepared if required as part of the planning approval process and will be developed in accordance with CoW standard operating procedures.			, ,		
Feral animals	No encounters with	n Pest/other	grazing	Investigate cause.	Westm	inster
	Pest/other grazing	animal (pri	marily	Undertake intervention		
	animal encounters	rabbits) en	counters	or remediation works		
	within POS/civic are	eas within reta	ined habitat	(including moving bins,		
				implementing a feral		
				animal trapping and		
				baiting program).		
				Monitor success		



#### 6. Plan implementation

#### 6.1 Long-term management and timeframes for implementation

In accordance with condition 10 of EPBC approval 2012/6631 this Conservation Management Plan will be implemented by Westminster as outlined in Table 6.1.

Table 6.1: Long-term management and timeframes for implementation

Туре	Responsible for long term management	Legal mechanisms for protection in the future
Retained habitat in	Management of the retained habitat will be	Vested as Parks and Recreation Reserves as part of
Parks and	undertaken by Westminster until the	the MRS amendment.
Recreation Reserves.	completion of construction adjacent to the	
	reserves and completion of the CRMP	
	commitments.	
	Formal transfer of management	
	responsibility to CoW (in the form a of a	
	revestment order over the lot) will be the	
	responsibility of WAPC (refer to Section 6.2).	
	WAPC will initiate the revestment order once	
	Westminster Estate has completed the works	
	required under 10 (g) of the EPBC approval.	

#### 6.2 Roles and responsibilities

All contractors and staff will be required to operate in accordance with this CMP. Key developer personnel and responsibilities are described in the following sections:

#### 6.2.1.1 Westminster

The primary responsibilities of Westminster include:

- act as primary liaison between the construction contractor, DAWE and the CoW
- ensure all construction contracts contain relevant environmental management provisions
- review quarterly reports provided by the construction contractor
- management of Parks and Recreation Reserves until handover to another party
- report to DotE in accordance with Condition 4 of EPBC Approval 2012/6631.

#### 6.2.1.2 Construction contractor

The primary responsibilities of the construction contractor include:

- overall accountability to ensure construction activities do not adversely impact Carnaby's Cockatoo habitat being retained
- ensure all site personnel are aware of the requirements of the CMP and related management plans
- provide support to the project manager and DPaW as required during the construction phase.

#### 6.2.1.3 Revegetation contractor

The primary responsibilities of the revegetation contractor include:

- ensure all revegetation personnel are aware of the requirements of the CMP and related management plans
- provide support to the project manager and CoW as required during the construction phase.



#### **6.2.1.4 Western Australian Planning Commission**

The primary responsibilities of the WAPC include:

- facilitation of formal transfer of management responsibility of the Parks and Recreation Reserves to the long term manager (CoW).
- WAPC will initiate the revestment order once Westminster Estate has completed the works required under 10 (g) of the EPBC approval.
- As provincial landowner, ensure the land is managed consistent with the requirements of EPBC approval 2012/6631.

#### 6.2.1.5 City of Wanneroo

The primary responsibilities of the CoW include:

• undertake the long term management and protection of retained habitat within the Project Area.



#### 7. References

- Department of Environment and Conservation (DEC) 2009, *DEC Swan Region Environmental Weed List*, [Online]. Government of Western Australia. Available online: http://www.dec.wa.gov.au/management-and-protection/plants/invasive-plants/invasive-plant-prioritisation-process.html?showall=&start=1 [October 2013].
- Department of Environment and Conservation (DEC) 2011, *DEC Nature Conservation Service Biodiversity: Standard Operating Procedure Techniques for mapping weed distribution and cover in bushland and vegetation*, prepared for DEC Regional Services and Nature Conservation Divisions, Perth.
- Department of Sustainability, Environment, Water, Population & Communities (DSEWPaC) 2012, Calyptorhynchus latirostris—Carnaby's Black-Cockatoo, short billed black-cockatoo, (SPRAT), [Online], Available at <a href="http://www.environment.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon\_id=59523">http://www.environment.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon\_id=59523</a> [6 August 2013].
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- Glevan Consulting (Glevan) 2013, Westminster Estates Pty Ltd Jindee Innovation Project Phytophthora dieback occurrence assessment, Report prepared for Westminster Estates Pty Ltd, December 2013, Western Australia.
- M.J. & A.R. Bamford Consulting Ecologists (Bamford) 2006, *Jindee Fauna Assessment*, prepared for RPS Bowman Bishaw Gorham, Perth.
- RPS Environment and Planning Pty Ltd (RPS) 2012, Environmental Assessment Report, District Planning Scheme Amendment Lot 9036 and Part Lot 3054 Marmion Avenue, Jindalee, report prepared for Estates Development Company, Nedlands.
- Standards Australia (2009) *AS 3959 Construction of Buildings in Bush Fire Prone Area,* Sydney, Standards Australia International Ltd.
- Strategen 2014, *Weed Assessment Jindee*, prepared for Westminster Estates Pty Ltd, April 2014, Western Australia.
- Strategen 2016, *Jindee Innovation Project Clearing and Revegetation Management Plan*, prepared for Westminster Estates Pty Ltd, June 2016.
- Town Planning Management Engineering (TME) 2012, Jindee Estate Estates Development Company Fire Hazard Assessment, September 2012.



#### 8. Limitations

#### Scope of services

This report ("the report") has been prepared by Strategen-JBS&G in accordance with the scope of services set out in the contract, or as otherwise agreed, between the Client and Strategen-JBS&G. In some circumstances, a range of factors such as time, budget, access and/or site disturbance constraints may have limited the scope of services. This report is strictly limited to the matters stated in it and is not to be read as extending, by implication, to any other matter in connection with the matters addressed in it.

#### Reliance on data

In preparing the report, Strategen-JBS&G has relied upon data and other information provided by the Client and other individuals and organisations, most of which are referred to in the report ("the data"). Except as otherwise expressly stated in the report, Strategen-JBS&G has not verified the accuracy or completeness of the data. To the extent that the statements, opinions, facts, information, conclusions and/or recommendations in the report ("conclusions") are based in whole or part on the data, those conclusions are contingent upon the accuracy and completeness of the data. Strategen-JBS&G has also not attempted to determine whether any material matter has been omitted from the data. Strategen-JBS&G will not be liable in relation to incorrect conclusions should any data, information or condition be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to Strategen-JBS&G. The making of any assumption does not imply that Strategen-JBS&G has made any enquiry to verify the correctness of that assumption.

The report is based on conditions encountered and information received at the time of preparation of this report or the time that site investigations were carried out. Strategen-JBS&G disclaims responsibility for any changes that may have occurred after this time. This report and any legal issues arising from it are governed by and construed in accordance with the law of Western Australia as at the date of this report.

#### **Environmental conclusions**

Within the limitations imposed by the scope of services, the preparation of this report has been undertaken and performed in a professional manner, in accordance with generally accepted environmental consulting practices. No other warranty, whether express or implied, is made.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

Strategen-JBS&G accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced without prior approval by the client, or amended in any way without prior approval by Strategen-JBS&G, and should not be relied upon by other parties, who should make their own enquiries.



# Appendix A EPBC approval 2012/6631



#### VARIATION OF CONDITIONS ATTACHED TO APPROVAL

#### Jindee Innovation Project, Jindalee, WA (EPBC 2012/6631)

This decision to vary conditions of approval is made under section 143 of the *Environment Protection and Biodiversity Conservation Act* 1999 (EPBC Act).

Αp	prove	d ac	tion
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Person to whom the approval is granted	Westminster Estates Pty Ltd
	ABN: 48 008 675 081
Approved action	To clear native vegetation on Lot 9036 and Part Lot 3054 Marmion Avenue, Jindalee, WA, for development of a residential estate [See EPBC Act referral 2012/6631].

#### Variation

Variation	of	conditions
attached	to	approval

The variation is:

Delete conditions 3, 5, 5A, 5B, 5C, 7, 9, 12 and 15 and the definition of New or increased impact attached to the approval and substitute with the conditions and definitions specified in the table below

Revoke the definition of Primary feeding plants attached to the

Add new conditions 5D, 5E, 16 and 17 specified in the table below

Add new definitions of Business day, Environmental Offsets Policy, Legal securement, Further additional loss of habitat and WA DBCA as specified in the table below

Add new Attachment A1 as specified in the table below

#### Date of effect

This variation has effect on the date the instrument is signed

#### Person authorised to make decision

Name and position Declan O'Connor-Cox

Assistant Secretary A/g

Assessments (Vic, Tas) and Post Approvals Branch

**Signature** 

Jun

#### Date of decision

26 October 2020

Date of decision	Conditions attached to approval
Original dated 18/7/2013	Within 30 days after the <b>commencement</b> of the action, the approval holder must advise the <b>Department</b> in writing of the actual date of <b>commencement</b> .
Original dated 18/7/2013	2. The approval holder must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the management plans required by this approval, and make them available upon request to the <b>Department</b> . Such records may be subject to audit by the <b>Department</b> or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the <b>Department's</b> website. The results of audits may also be publicised through the general media.
As varied on the date this instrument was signed	3. Within three months of every 12 month anniversary of the <b>commencement</b> of the action, the approval holder must publish a report on the <b>website</b> addressing compliance with the conditions of approval over the previous 12 months, including implementation of the management plans as specified in the conditions. Documentary evidence providing proof of the date of publication must be provided to the <b>Department</b> at the same time the compliance report is published. The approval holder must notify the <b>Department</b> in writing of any non-compliance with any conditions of this approval no later than two <b>business days</b> of becoming aware of the non-compliance.
Original dated 18/7/2013	4. Upon the direction of the <b>Minister</b> , the approval holder must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the <b>Minister</b> . The independent auditor must be approved by the <b>Minister</b> prior to the commencement of the audit. Audit criteria must be agreed to by the <b>Minister</b> and the audit report must address the criteria to the satisfaction of the <b>Minister</b> .
As varied on the date this instrument was signed	Revision of action management plans 5. The approval holder may, at any time, apply to the Minister for a variation to an action management plan approved by the Minister under conditions 10 and 12, or as subsequently revised in accordance with these conditions, by submitting an application in accordance with the requirements of section 143A of the EPBC Act. If the Minister approves a revised action management plan (RAMP) then, from the date specified, the approval holder must implement the RAMP in place of the previous action management plan.
As varied on the date this instrument was signed	5A. The approval holder may choose to revise an action management plan approved by the <b>Minister</b> under conditions 10 and 12, or as subsequently revised in accordance with these conditions, without submitting it for approval under section 143A of the <b>EPBC Act</b> , if the taking of the action in accordance with the RAMP would not be likely to have a <b>new or increased impact</b> .
As varied on the date this instrument was signed	5B. If the approval holder makes the choice under condition 5A to revise an action management plan without submitting it for approval, the approval holder must:
	<ul> <li>(a) notify the <b>Department</b> in writing that the approved action management plan has been revised and provide the <b>Department</b> with:         <ol> <li>an electronic copy of the RAMP;</li> </ol> </li> </ul>
	<li>ii. an electronic copy of the RAMP marked up with track changes to show the differences between the approved action management plan and the RAMP;</li>

Date of decision	Conditions attached to approval
	iii. an explanation of the differences between the approved action management plan and the RAMP;
	<ul> <li>iv. the reasons the approval holder considers that taking the action in accordance with the RAMP would not be likely to have a new or increased impact; and</li> </ul>
	v. written notice of the date on which the approval holder will implement the RAMP (RAMP implementation date), being at least 20 <b>business days</b> after the date of providing notice of the revision of the action management plan, or a date agreed to in writing with the <b>Department</b> .
	<ul><li>(b) subject to condition 5D, implement the RAMP from the RAMP implementation date.</li></ul>
As varied on the date this instrument was signed	5C. The approval holder may revoke its choice to implement a RAMP under condition 5A at any time by giving written notice to the <b>Department</b> . If the approval holder revokes the choice under condition 5A, the approval holder must implement the action management plan in force immediately prior to the revision undertaken under condition 5A.
As varied on the date this instrument was signed	5D. If the <b>Minister</b> gives a notice to the approval holder that the <b>Minister</b> is satisfied that the taking of the action in accordance with the RAMP would be likely to have a <b>new or increased impact</b> , then:
	(a) condition 5A does not apply, or ceases to apply, in relation to the RAMP; and
	(b) the approval holder must implement the action management plan specified by the <b>Minister</b> in the notice.
As varied on the date this instrument was signed	5E. At the time of giving the notice under condition 5D, the <b>Minister</b> may also notify that, for a specified period of time, condition 5C does not apply for one or more specified action management plans.
	<b>Note:</b> conditions 5A, 5B, 5C and 5D are not intended to limit the operation of section 143A of the <b>EPBC Act</b> which allows the approval holder to submit a revised action management plan, at any time, to the <b>Minister</b> for approval.
Variation dated 7/4/2016	6. Revoked
As varied on the date this instrument was signed	7. Unless otherwise agreed to in writing by the <b>Minister</b> , the approval holder must publish the management plans referred to in these conditions of approval on the <b>website</b> . The management plans must be published on the <b>website</b> within 1 month of being approved by the <b>Minister</b> or being submitted under condition 5B.
Original dated 18/7/2013	8. If, at any time after five (5) years from the date of this approval, the approval holder has not substantially commenced the action, then the approval holder must not substantially commence this action without the written agreement of the <b>Minister</b> .
	<b>Note</b> : The date in condition 8 refers to the date of the approval decision (18 July 2013).
As varied on the date this instrument was signed	9. To mitigate impacts to Carnaby's Black Cockatoo ( <i>Calyptorhynchus latirostris</i> ):
	(a) At least 1.72 hectares of Carnaby's Black Cockatoo foraging habitat, must be retained and clearing of Carnaby's Black Cockatoo foraging habitat must not exceed 0.30 hectares within the areas shaded in green at <u>Attachment A1</u> ;

Date of decision	Conditions attached to approval
	<ul><li>(b) clearing of Carnaby's Black Cockatoo habitat in the areas shaded blue at <u>Attachment A1</u> must not exceed 40.57 hectares; and</li></ul>
	(c) total clearing of Carnaby's Black Cockatoo foraging habitat within areas shaded blue and areas shaded green at <u>Attachment A1</u> must not exceed 43.45 hectares.
Variation dated 21/7/2014	10. To protect and enhance habitat for Carnaby's Black Cockatoo, the approval holder must prepare and submit a <i>Conservation Management Plan</i> (the plan) detailing management of habitat for Carnaby's Black Cockatoo that is to be retained on the <b>proposal site</b> , for the <b>Minister's</b> approval. The plan must include:
	(a) measures to physically delineate areas that will be retained;
	(b) erosion and dust control measures during construction;
	(c) the management of weeds, <i>Phytophthora</i> dieback, bushfire and feral animals;
	(d) identification of any degraded habitat and how those areas will be managed;
	(e) a monitoring program for Carnaby's Black Cockatoo and their habitat;
	<ul><li>(f) details of who will be responsible for the long-term management of the retained land, and how the land will be protected in the long-term;</li></ul>
	<ul> <li>(g) a commitment to fund all management actions in the two Parks and Recreation areas within the site boundary marked in green at <u>Attachment B</u> until the management of those areas is handed over to another party, including the amount of funding that will be allocated to these management actions;</li> </ul>
	(h) performance indicators and corrective actions;
	(i) roles and responsibilities; and
	(j) timeframes for the implementation of the above measures.
	If the <b>Minister</b> approves the plan, the approved plan must be implemented.
Original dated 18/7/2013	11. Within 5 years of the <b>substantial commencement</b> of the action, the approval holder must provide the <b>Department</b> with written evidence that the two green areas of Parks and Recreation within the site boundary at <u>Attachment B</u> , have been granted to the City of Wanneroo for the purpose of conservation.
As varied on the date this instrument was signed	12. To mitigate impacts to Carnaby's Black Cockatoo, the approval holder must submit a <i>Clearing and Revegetation Management Plan</i> for the <b>Minister's</b> approval. The plan must include:
	<ul> <li>(a) a commitment to the staged collection of native seed from the areas shaded blue and areas shaded green at <u>Attachment A1</u>, prior to the clearing of these areas, for use in revegetation;</li> </ul>
	<ul> <li>(b) a commitment to store native seed and either use it on-site for revegetation or transport it to a seed bank or receiving site(s) where revegetation is being undertaken by WA DPaW or another receiving party (or parties);</li> </ul>
	<ul><li>(c) detailed protocols for staged collection and use of native seed required by conditions 12(a) and 12(b) including:</li></ul>

Date of decision	Conditions attached to approval
	<ul> <li>i. the optimal methodology for native seed collection from the proposal site;</li> </ul>
	<li>ii. how clearing will be staged to best harvest and utilise the native seed resource for <b>revegetation</b>;</li>
	iii. how native seed will be stored and transported; and
	iv. onsite supervision and implementation monitoring mechanisms.
	The approval holder must implement the <i>Clearing and Revegetation Management Plan</i> approved by the <b>Minister</b> in writing.
Variation dated 21/7/2014	13. The approval holder must not undertake any <b>clearing</b> of habitat for Carnaby's Black Cockatoo on the <b>proposal site</b> unless:
	<ul> <li>(a) the Conservation Management Plan required under condition 10 has been approved by the Minister; and</li> </ul>
	(b) the Clearing and Revegetation Management Plan required under condition 12 has been approved by the Minister.
Variation dated 21/7/2014	14. To offset the loss of habitat for Carnaby's Black Cockatoo, prior to the <b>commencement</b> of <b>construction</b> , the approval holder must provide the <b>Department</b> with written evidence of the provision of funds to <b>WA DPaW</b> for the acquisition of the <b>offset property</b> on Lot 24, Mimegarra Road, Lancelin, WA (Attachment C). The written evidence must be accompanied with the <b>offset attributes</b> and <b>Shapefile</b> .
As varied on the date this instrument was signed	15. To offset the additional loss of habitat for Carnaby's Black Cockatoo, the approval holder must provide the <b>Department</b> with written evidence of the provision of funds to <b>WA DPaW</b> to acquire 34 hectares of Carnaby's Black Cockatoo habitat (the <b>additional offset</b> ). The written evidence along with the <b>offset attributes</b> and <b>Shapefile</b> must be provided to the <b>Department</b> prior to undertaking the <b>clearing</b> of up to 2.88 hectares within the areas shaded green at <u>Attachment A</u> as specified in condition 9(a) prior to the variation made on the date this instrument was signed.
As varied on the date this instrument was signed	16: To offset the <b>further additional loss of habitat</b> for Carnaby's Black Cockatoo, the approval holder must provide a second additional offset comprising either:
	a) Legal securement in perpetuity of an offset site that:
	<ul> <li>i. is a property containing no less than 40 ha of Carnaby's Black Cockatoo habitat with a habitat quality score of 8 or more out of 10 in accordance with the Environmental Offsets Policy and maintained for conservation; and</li> </ul>
	<li>fully offsets the further additional loss of habitat in accordance with the Environmental Offsets Policy; and</li>
	iii. has been agreed to by the <b>Minister</b> in writing, prior to its <b>legal</b> securement;
	OR
	b) A provision of funds to the <b>WA DBCA</b> that demonstrably provides all necessary funding for the purchase of at least 40 hectares within an offset site containing no less than 40 ha of Carnaby's Black Cockatoo habitat with a habitat quality score of 8 or more out of 10 in accordance

Date of decision	Conditions attached to approval
	with the <b>Environmental Offsets Policy</b> , as agreed by the <b>Minister</b> in writing prior to the provision of the funds.
As varied on the date this instrument was signed	17. The approval holder must not commence works that are part of the <b>further</b> additional loss of habitat for Carnaby's Black Cockatoo until the approval holder has provided the second additional offset required under Condition 16.

Date of decision	Definitions attached to approval
Variation dated 7/4/2016	Additional offset is a property (or part of a property) totalling 34 or more hectares of Carnaby's Black Cockatoo habitat purchased by WA DPaW on behalf of the approval holder, which will be maintained for conservation by WA DPaW.
As varied on the date this instrument was signed	<b>Business day</b> means a day that is not a Saturday, a Sunday or a public holiday in the state or territory of the action.
Original dated 18/7/2013	<b>Clearing</b> is defined as the cutting down, felling, thinning, logging, removing, killing, destroying, poisoning, ringbarking, uprooting or burning of native vegetation.
Original dated 18/7/2013	<b>Commencement</b> includes <b>clearing</b> and any preparatory works required to be undertaken including clearing vegetation, the erection of any fences, signage or on-site temporary structures and the use of construction or excavation equipment on site for the purpose of breaking the ground for buildings, infrastructure or resource extraction.
Original dated 18/7/2013	<b>Construction</b> includes any preparatory works required to be undertaken including clearing vegetation, the erection of any on-site temporary structures and the use of heavy duty equipment for the purpose of breaking the ground for buildings or infrastructure.
Original dated 18/7/2013	<b>Department</b> is the Australian Government Department administering the Environment Protection and Biodiversity Conservation Act 1999.
As varied on the date this instrument was signed	Environmental Offsets Policy means the Department's Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy, October 2012
Original dated 18/7/2013	<b>EPBC Act</b> is the <i>Environment Protection and Biodiversity Conservation Act</i> 1999.
As varied on the date this instrument was signed	Further additional loss of habitat means the additional clearing of 2.56 ha of Carnaby's Black Cockatoo foraging habitat within areas shaded blue and areas shaded green at <a href="Attachment A1">Attachment A1</a> (changed from 40.89 hectares to 43.45 hectares) enabled by the variation of condition 9 on the date this instrument was signed.
Variation dated 21/7/2014	Independent Revegetation Expert - Revoked
Original dated 18/7/2013	<b>Minister</b> is the minister administering the <i>Environment Protection and Biodiversity Conservation Act 1999</i> and includes a delegate of the <b>Minister</b> .
As varied on the date this instrument was signed	<b>Legal securement</b> means to execute a legal status or tenure of the offset site so as to provide enduring protection against it being used in a manner incompatible with the conservation of the habitat of matters protected under the <b>EPBC Act</b> which it contains.

Date of decision	Definitions attached to approval
As varied on the date this instrument was signed	New or increased impact means a new or increased environmental impact or risk relating to any protected matter, or a reduced overall environmental benefit from any restoration or offsetting works, when compared to the likely impact of implementing the action management plan that has been approved by the Minister under conditions 10 and 12, including any subsequent revisions approved by the Minister, as outlined in the Guidance on 'New or Increased Impact' relating to changes to approved management plans under EPBC Act environmental approvals (2017).
Original dated 18/7/2013	Offset attributes must be in the form of an excel file ('.xls') capturing relevant attributes of the Offset Area, including the EPBC reference ID number, the physical address of the offset site, coordinates of the boundary points in decimal degrees, the EPBC protected matters that the offset compensates for, any additional EPBC protected matters that are benefiting from the offset, and the size of the offset in hectares.
Variation dated 21/7/2014	<b>Offset property</b> is the property that is no less than 635 ha in size (identified as the 'Carnaby's offset site at <u>Attachment C</u> ) that will be purchased by the approval holder and will be maintained for conservation by the <b>WA DPaW</b> ) on behalf of the approval holder. The offset property is Lot 24 (on Deposited Plan 75789) on Mimegarra Road, 27 kilometres north-east of Lancelin, Western Australia.
As varied on the date this instrument was signed	Primary feeding plants - Revoked
Original dated 18/7/2013	<b>Proposal site</b> is Lot 9036 and Part Lot 3054 Marmion Avenue, shown as the 'site boundary' in <u>Attachment A</u> .
Original dated 18/7/2013	<b>Revegetation</b> is the removal of weeds and the long-term establishment of native vegetation.
Original dated 18/7/2013	Shapefile means an ESRI Shapefile containing '.shp', '.shx' and '.dbf' files and other files capturing attributes of the Offset Area, including the shape, EPBC reference ID number and EPBC protected matters present at the relevant site. Attributes should also be captured in '.xls' format.
Original dated 18/7/2013	<b>Substantial commencement</b> is when 1 hectare of land on the proposal site has been impacted by clearing or construction.
Variation dated 21/7/2014	WA DER - Revoked
Variation dated 21/7/2014	<b>WA DPaW</b> is the Western Australian Department of Parks and Wildlife (or equivalent agency).
As varied on the date this instrument was signed	WA DBCA means the Western Australian Department of Biodiversity, Conservation and Attractions (or successor agency)
As varied on the date this instrument was signed	<b>Website</b> means a set of related web pages located under a single domain name attributed to the approval holder and available to the public.



# Date of decision As varied on the date this instrument was signed

# **Attachment A1** Legend: Scale 1:10,000 at A4 3 Site boundary Subdivision layout REVISED ATTACHMENT A Potential foraging habitat for Carnaby's Black Cockatoo to be cleared (40.57 ha) Potential foraging habitat for Carnaby's Black Cockatoo to be retained and cleared in ROS (minimum total area retained 1.72 ha; maximum total area cleared 0.30ha) Coord, Sys. GDA 1994 MGA Zone 50 Job No: 57481

Client: Estates Development Company

Date: 17-Dec-2019

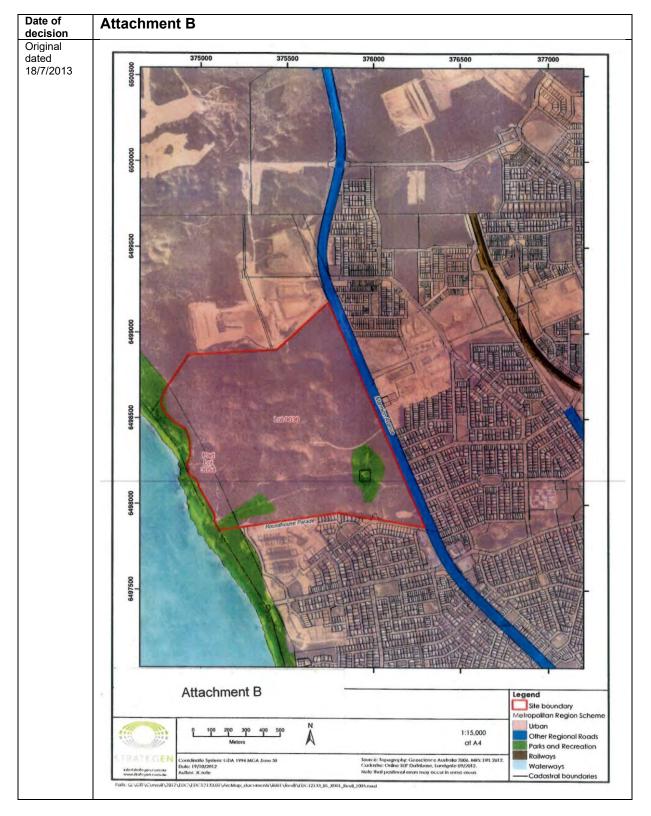
Checked By: RM

Version: A

Drawn By: hsullivan

FIGURE 1

Strategen JBS&G







## Appendix B Management works for the Parks and Recreation Reserves

Table A 1 Cost estimate for Parks and Recreation Reserve A

Description	Unit	Quantity	Cost at 2012			
Preliminaries						
Preliminaries - 2%	item	1	\$19,000			
Safety Hazard Study	item	1	\$5,745			
Structures						
Appropriate barriers to prevent pedestrian access such	lin m	605	\$10,427			
as fencing						
Access gate	each	6	\$1,800			
Clearing of fire access track	lin m	605	\$12,100			
Gravel for fire access track	sq m	1,630	\$16,300			
Hardworks						
Stabilized gravel path (100mm thick)	sq m	992	\$49,012			
Planting						
Dune rehabilitation (includes 1 tube/sqm and brush)	sq m	3,000	\$20,682			
Total (excl GST)			\$135,066			

Table A 2 Cost estimate for Parks and Recreation Reserve B

Description	Unit	Quantity	Cost at 2012			
Preliminaries						
Preliminaries - 2%	item	1	\$13,000			
Safety Hazard Study	item	1	\$5,745			
Structures						
Appropriate barriers to prevent pedestrian access such	lin m	555	\$9,565			
as fencing						
Access gate	each	8	\$2,400			
Clearing of fire access track	lin m	910	\$18,200			
Gravel for fire access track	sq m	2,690	\$26,900			
Limestone bollards (1.5m spacings)	each	36	\$7,200			
Hardworks						
Stabilized gravel path (100mm thick)	sq m	1,914	\$94,565			
Observation Deck + Obselisk	item	1	\$28,725			
Planting			_			
Dune rehabilitation (includes 1 tube/sqm and brush)	sq m	7,500	\$51,705			
Total (excl GST)			\$258,005			

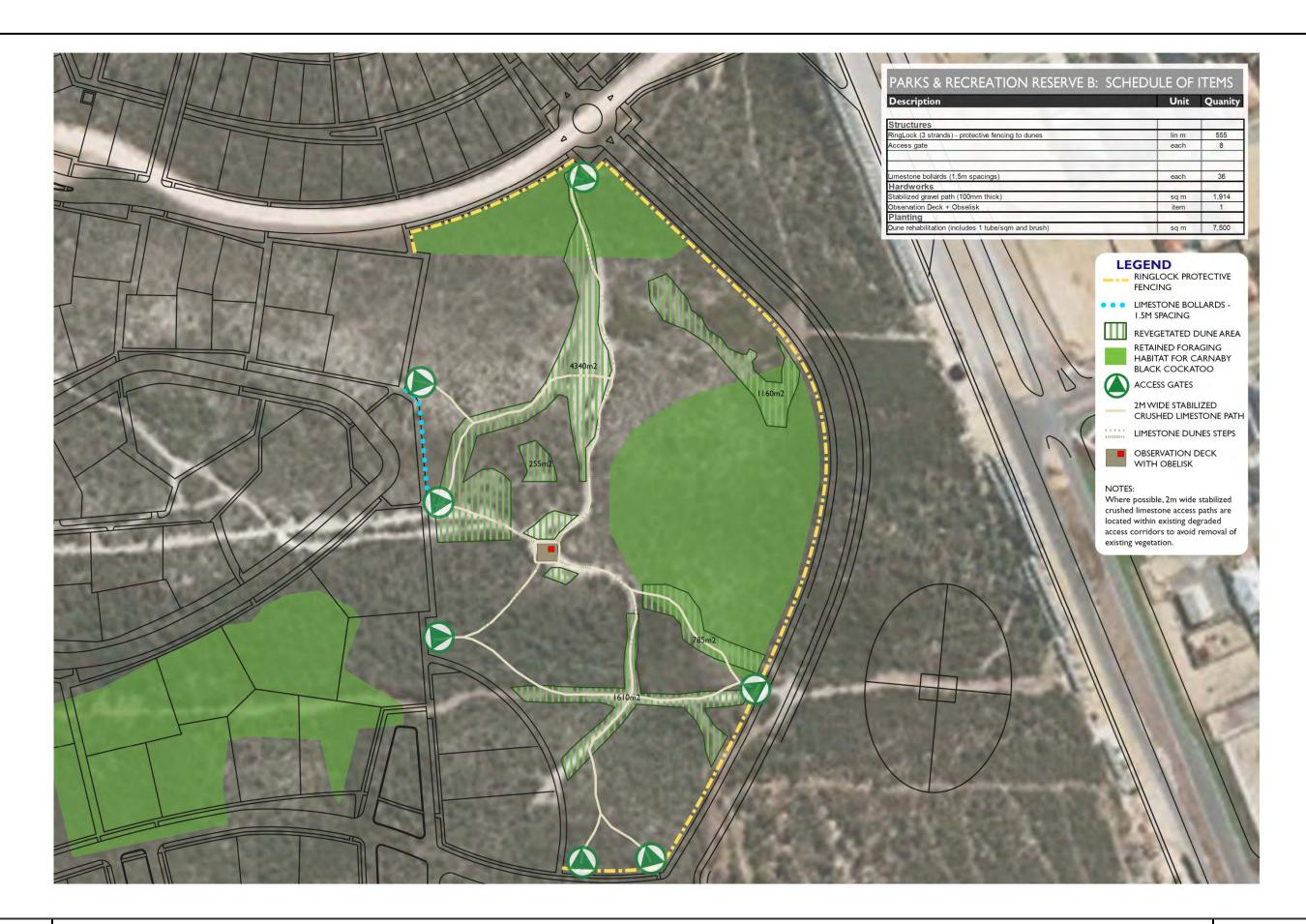




Jindee Innovation Project

Indicative works for Parks and Recreation Reserve A
Source: Blackwell Associates Pty Ltd 2014

Figure 1





Jindee Innovation Project

Indicative works for Parks and Recreation Reserve B

Source: Blackwell Associates Pty Ltd 2014



# Appendix C Vegetation condition mapping