



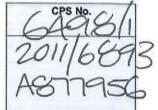
GOVERNMENT OF WESTERN AUSTRALIA

Application for a clearing permit (purpose permit)

Environmental Protection Act 1986 s 51E

FORM C2

Clearing of native vegetation is prohibited in Western Australia except where a clearing permit has been granted or an exemption applies. A person who causes or allows unauthorised clearing commits an offence.



Date stamp

Part 1 Assessment under the EPBC bilateral agreement

The native vegetation clearing processes under Part V of the Environmental Protection Act 1986 (EP Act) have been accredited by the Commonwealth of Australia under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) and can be assessed under an assessment bilateral agreement.

To be assessed under the assessment bilateral agreement, the proposed clearing action must be referred to the Commonwealth under the EPBC Act prior to submitting this application form and Annex C7 must also be completed.

For further information see Annex C7 and A guide to native vegetation clearing processes under the assessment bilateral agreement available at www.der.wa.gov.au.

Do you want your proposed clearing action assessed in accordance with,	or under,	an EPBC Act
Accredited Process such as the assessment bilateral agreement?	EAL ARMS FOLDER	

☑ Yes ☐ No Proceed to Part 2

Has the proposed clearing action been referred to the Commonwealth of Australia under the EPBC Act?

Yes EPBC Number EPBC 2015/7441

☐ No It cannot be assessed under an Accredited Process until it has been referred to the Commonwealth. Proceed to Part 2.

Has a decision been made under the EPBC Act as to whether or not the proposed clearing action is a controlled action?

☐ Yes ☑ No Proceed to Part 2

Is the proposed clearing action a controlled action under the EPBC Act?

- ☐ No It cannot be assessed under an Accredited Process, proceed to Part 2
- ☐ Yes Complete and attach the requirements of Annex C7 to this completed form

List the controlling provisions identified in the notification of the controlled action decision

Annex C7 is complete and the required supporting information is attached

Part 2 Land details

The location of the land where clearing is proposed must be accurately described.

Land description: volume and folio number, lot or location number(s), Crown lease or reserve number, pastoral lease number or mining tenement number of all properties.

Various Lots Abernethy Road Byford

	1	.et	Lot Type	III.
FILE REFERENCE	- 1		ELIOLD	

De	partment of Environment
	Regulation

-9 MAR 2015

Clearing Regulation

Lot	Lot Type	Plan/Lot Number	Lot	Lot Type	Plan/Lot Number	Lot	Lot Type	Plan/Lot Number
	The state of the s	D009644		The state of the s	P009526			
1	FHOLD	15	25	FHOLD	40	49	ROAD	P ROAD
		D065664			P009526			
2	FHOLD	2	26	FHOLD	44	50	ROAD	P ROAD
	SHEET AND STATES	D075562	17000	200000000000000000000000000000000000000	P009526	7.00	0000 000	100000000000000000000000000000000000000
3	FHOLD	4	27	FHOLD	45	51	ROAD	P ROAD
8		D085188			P402315	1		
4	FHOLD	122	28	FHOLD	9050	52	ROAD	P ROAD
		D082920			D085188			100 100 100 100
5	FHOLD	5	29	FHOLD	116	53	ROAD	P ROAD
si i	*****	D087936	-	1222200000000	P009526	123	2002.0124	121 2013/100
6	FHOLD	151	30	FHOLD	49	54	ROAD	P ROAD
7	YELLOY D	D087936		2000000	D065664	58	1252.133	AS A SOLET
7	FHOLD	150	31	FHOLD	1	55	ROAD	P ROAD
8	FHOLD	D095657	20	PETON P	D085188	-2	2012	
0	FHOLD	235	32	FHOLD	117	56	ROAD	P ROAD
9	FHOLD	D095657 234	33	FUOLO	D087936		noun	2 2010
9	FROLD	D095657	33	FHOLD	152	57	ROAD	P ROAD
10	FHOLD	239	34	FHOLD	P009526 38	58	ROAD	n novn
10	PHOLD	P009526	314	FHOLD	P016845	20	KUAD	P ROAD
11	FHOLD	47	35	FHOLD	23	59	ROAD	P ROAD
11	THOLD	P009526	44	THOLD	D085188	39	KUAD	F KOAD
12	FHOLD	42	36	FHOLD	118	60	ROAD	P ROAD
	2.1.107.1.107	P009526	270	1110111	P009526	00	(CAD)	1 KOAD
13	FHOLD	39	37	FHOLD	43	61	ROAD	P ROAD
		P009526	-	211000	P073082	1	45507.442	. Korto
14	FHOLD	48	38	FHOLD	8001	62	ROAD	P ROAD
		P009526	1		D089805	1 2 2	1,0,10	. 107117
15	FHOLD	46	39	FHOLD	51	63	ROAD	P ROAD
		P016845			P072610		1	100.00
16	FHOLD	22	40	FHOLD	282	64	ROAD	P ROAD
	CONTRACTOR OF THE STATE OF	P072802		10 Sept 1980 19 Sept 19	D085188			
17	FHOLD	446	41	FHOLD.	120	65	ROAD	P ROAD

	The second secon	
	18 FHOLD 8006 42 FHOLD 233 66 ROAD	P ROAD
	19 FHOLD 281 43 FHOLD 9047 67 ROAD	P ROAD
	20 FHOLD 9051 44 FHOLD 119 68 ROAD	P ROAD
	21 FHOLD 238 45 FHOLD 1153 69 ROAD	P ROAD
	22 FHOLD 41 46 FHOLD 121 70 ROAD	P ROAD
	23 FHOLD 9048 47 RESVE R 51240 71 ROAD	P ROAD
	24 FHOLD 232 48 RESVE R 51161	
	Local government area Shire of Serpentine Jarrahdale	
Part 3 Proposal		specific Edward
An aerial photograph or map with a north arrow must be attached, clearly marking the area proposed to be cleared or if you have the facilities, a digital map on CDROM of the area to clear as an ESRI shapefile with the following properties: • Geometry type: polygon shape • Coordinate system: GDA 1994 (Geographic latitude/longitude) • Datum: GDA 1994 (Geocentric Datum of Australia 1994). Part 4 Applicant To apply for a permit you must either be: • the landowner or • have the authority of the landowner to access the land and undertake the clearing.	Total area of clearing proposed (hectares) 1.70 ha Proposed method of clearing or final land use Lopping, mechanical removal Period within which clearing is proposed to be undertaken, e.g. May 2013 - Clearing will be conducted on a staged basis commencing mid-2015 Purpose of clearing Road construction Has this clearing application or any related matter been referred to the Enverotection Authority (EPA) Yes X No Are you applying as an individual, a company or an incorporated body? Enonly (please print). Local government	rironmental
Ownership of land	Form of ownership:	
A landowner can be: • a person who holds the Certificate of Title • a person who is the lessee of Crown land or • a public authority that is responsible for care of the land.	Certificate of Title (please attach a copy of the certificate and all asso encumbrances with the application, available from the Western Australinformation Authority – Landgate) Pastoral lease (please attach a copy of the lease and all associated ewith the application) Mining lease Public authority that has care, control or management of the land Other form of lease, land tenure or specific arrangement. Please state	alian Land

Our Ref: 736AB



4 March 2015

Matt Warnock
Senior Manager
Clearing Regulation
Department of Environment Regulation
Level 7, the Atrium
168 St Georges Terrace
Perth WA 6000

Dear Mr Warnock

Submission of Application for a Clearing Permit - Abernethy Road Upgrade, Byford

The Shire of Serpentine Jarrahdale proposes to upgrade Abernethy Road in Byford from two lanes to four lanes. The application area extends from between Kardan/Tourmaline Boulevard to Soldiers Road, a section approximately 2.78 kilometres (km) in length. To facilitate the widening and associated works, 1.70 ha of remnant native vegetation within the road verge will need to be cleared. Please find enclosed an application for a clearing permit (and associated documentation) required to facilitate clearing of the 1.70 ha of native vegetation.

The proposal has recently been referred to the Commonwealth Department of the Environment under the *Environment Protection and Biodiversity Conservation Act 1999*. The EPBC number received on referral is EPBC 2015/7441. Our assessment against the Matters of National Environmental Significance Guidelines suggests that the residual impact may not be significant, however if the proposal is deemed a controlled action, it is expected that the proposed action will be assessed under bilateral agreement.

Abernethy Road Upgrade, Byford, Flora, Vegetation and Fauna Report Addendum

1. Background

360 Environmental Pty Ltd (360 Environmental) was commissioned by Shire of Serpentine Jarrahdale to undertake a flora, vegetation and fauna survey of the refined alignment of Abernethy Road, Byford (the Survey Area). The purpose of the assessment was for the proposed upgrade and duplication of Abernethy Road, between the future Tonkin Highway extension and South Western Highway. The original Survey Area was approximately 20.5 hectare (ha), the refined alignment area is now 9.88 ha. The Survey Area is located approximately 33 kilometres (km) south-east of Perth, Western Australia (WA).

The Survey Area is a linear transect that runs along a 2.8 km section of Abernethy Road.

The original survey was undertaken on the 15th October 2014 (360 Environmental 2014) which included the surveying of four relevés and recording of field observations. The Survey Area was then refined in January 2015 and therefore the vegetation and condition mapping had to be updated and additional areas surveyed on 2nd February 2015.



1.2 Objective of the Survey

The primary objective of the flora, vegetation and fauna survey was to amend the results of the previous survey to reflect the updated road alignment.

2. Results

An additional relevé (R5) was surveyed within a Resource Enhancement Wetland (UFI 15713) (See Attachment A). Due to the change in the Survey Area boundary the original four relevés are no longer in the current survey boundary. The data in the relevés is still able to be used to extrapolate the vegetation along the rest of the road alignment.

2.1 Vegetation Associations

The vegetation associations present within the refined road alignment differs from the original Survey Area, See Table 1 for the updated calculations and Figures 1a and 1b.

Table 1: Vegetation Association Descriptions and Extent in the Refined Survey Area

VEGETATION ASSOCIATION CODE	DESCRIPTION	AREA (HA)
MpRc	Low Open Woodland of Melaleuca preissiana and Actinostrobus pyramidalis over Open Shrubland of Regelia ciliata, Jacksonia furcellata, Hakea sulcata over Very Open Sedgeland of Meeboldina cana and Meeboldina coangustata over Grassland of *Eragrostis curvula, Avena barbata and Briza maxima.	No longer in the boundary of refined Survey Area
Мр	Mature isolated Melaleuca preissiana	0.01
Mr	Mature isolated Melaleuca rhaphiophylla	No longer in the boundary of refined Survey Area
СсХр	Open Woodland of Corymbia calophylla over Low open Shrubland of Xanthorrhoea preissii and Hibbertia hypericoides.	0.33
Cc	Isolated Mature trees of Corymbia calophylla.	0.99
Ne	Non-endemic species and/or Garden species.	0.83
As	Isolated Acacia saligna.	0.01
Er	Mature isolated Eucalyptus rudis	0.08
CcKa	Isolated Mature Corymbia calophylla with Kingia australis.	0.06



VEGETATION ASSOCIATION CODE	Description	AREA (HA)
СсВа	Open woodland of Corymbia calophylla over Low Open Shrubland of Banksia armata, Kingia australis and Hibbertia hypericoides.	0.16
CcTd	Open Forest of Corymbia calophylla over Shrubland of Thysanotus dichotomus, Jacksonia sternbergiana, Tricoryne elatior, Lomandra micrantha and Lepidosperma pubisquameum.	No longer in the boundary of refined Survey Area
Co*Wm	Woodland of Corymbia calophylla over *Watsonia meriana var. bulbilifera	0.03

2.2 Vegetation Condition

The original Survey Area included vegetation that ranged in condition from very Good to Completely Degraded. The reduction in the Survey Area size has excluded vegetation that ranged from Very Good to Degraded, subsequently vegetation in the refined Survey Area is now considered to be in a Completely Degraded condition (9.88 ha inclusive of road). Vegetation condition mapping is presented in Figures 2a and 2b.

2.3 Geomorphic Wetlands

The DPaW Geomorphic Wetlands Dataset identifies four wetlands as occurring within the original Survey Area (Figure 3). The refinement of the Survey Area resulted in an additional wetland being included in the Survey Area (UFI 15713). The unique identification numbers (UFI), type and management category of the wetlands occurring in the refined Survey Area are provided in Table 2.

The additional wetland (UFI 15713) is a Resource Enhancement Wetland which is in Completely Degraded condition. The portion of the wetland inside of the Survey Area is 0.02 ha and consists of only two Corymbia calophylla with no native understorey species (98% of the understorey was comprised of *Watsonia meriana var. bulbillifera).

Table 2: Geomorphic Wetlands in the Project Area

MANAGEMENT CATEGORY	WETLAND UFI	NAME	LOCATION
Multiple Use Wetland	15797	Armadale Palusplain	Within
Multiple Use Wetland	15426	Unknown	Within



MANAGEMENT CATEGORY	WETLAND UFI	NAME	LOCATION
Multiple Use Wetland	14159	Unknown	Within
Resource Enhancement Wetland	14538	Unknown	Within
Resource Enhancement Wetland	15713	Unknown	Within

2.4 Black Cockatoo Assessment

The alteration in the Survey Area boundary, resulted in two further mature Corymbia calophylla being included in the Survey Area. Both of these trees were located at the outer edge of the REW (UFI 15713) (Figure 4). One of these trees had a diameter at breast height (DBH) of >500 mm and so can be considered as a potential Black Cockatoo breeding tree in accordance with the DSEWPaC (2011) EPBC Act referral guidelines for three threatened black cockatoo species (GPS co-ordinate: 406216 / 6434535). No hollows or any feeding evidence was recorded.

Following the alteration to the Survey Area boundary, the overall number of foraging and potential breeding trees in the Survey Area has been reduced. In the original report 70 potential breeding trees were recorded. This number has now been reduced to 52 potential breeding trees (Attachment G and Attachment H). All of these trees are considered to be foraging habitat for all three species of Black Cockatoo including Carnaby's Black Cockatoo (Calyptohynchus latirostris), Baudin's Black Cockatoo (C.baudinii) and the Forest Red-tailed Black Cockatoo (C. banksia naso).

3. Conclusions

The Survey Area was surveyed sufficiently and to a high standard, and as such the following conclusions can be drawn from the survey: a:

- Vegetation associations Mr, MpRc and CcTd are no longer in the Survey Area;
- An additional vegetation association was surveyed, Cc*Wm, which is within a REW:
- The vegetation association, MpRc, which was inferred as TEC FCT SCP08 -Herb rich Shrublands in clay pans in the original Survey Area is no longer in the refined Survey Area boundary;
- Two REW wetlands and three MUWs occur within the Survey Area. The two REWs consist of scattered mature trees with no native understorey; and

Flora, Vegetation and Fauna Report, Addendum
Abernethy Road Diponide
Shire of Surportine Jarrandale

The number of Black Cockatoo potential breeding and foraging habitat trees has been reduced from 69 to 52.



Site ABR05

Described by NW

Date 2/02/2015

Type R

Location Adjacent to Abernethy Road
MGA Zone 50 406216mE 6434535mN

Habitat Woodland Soil Sandy Clay

Vegetation Woodland of Corymbia calophylla

over Herbland of *Watsonia

meriana var. bulbilifera

Veg Condition Completely Degraded

Fire Age Very old



SPECIES LIST:

Name	Cover	Height
Briza maxima	4	35
Briza minor	2	30
Corymbia calophylla	5	1200
Watsonia meriana var. bulbillifera	98	160

