

1. Application details

T. Application details						
1.1. Permit application Permit application No.:	595/1					
Permit type:	Area Permit					
1.2. Proponent details Proponent's name:	MR Frank Crago	MR Frank Crago				
1.3. Property details						
Property:	LOT 6385 ON PL	AN 230092 (MARCHA	AGEE 6515)			
Local Government Area:	Shire Of Coorow	LOT 6385 ON PLAN 230092 (MARCHAGEE 6515) Shire Of Coorow				
Colloquial name:		Vanzetti Rd, Coorow				
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1.4. ApplicationClearing Area (ha)No0.8		•	the purpose of: pping			
2. Site Information						
2.1. Existing environm	ent and information	า				
2.1.1. Description of the n	ative vegetation und	er application				
Vegetation Description Cle	aring Description	Vegetation Condition	Comment			
association 1143: are Shrublands; Allocasuarina campestris thicket with patches of heath. lep (Hopkins et al 2001, Ma Shepherd et al 2001). und vini par Alla (CA	getation typical to this a includes Eucalyptus ophleba (York Gum), E. thii, E. subangusta, E. topoda (Tammin llee), Melaleuca sinata (broombush), M. nula, Grevillea niculata and some ocasurina species ALM - Geraldton). Chief s are sandy neutral ow mottled soils tstralian Atlas Soils tabase).	Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery 1994)	Comments from site visit: The vegetation to be cleared is a thin band of vegetation (~20-30m wide) consisting predominantly of mallee. The little understorey exists and the structure of the vegetation has been altered by grazing and other agricultural practices. Large amounts of vegetation have been retained on the property. The area to be cleared does not appear to provide a corridor between other areas of existing bush.			
 Assessment of appli (a) Native vegetation sh 			igh level of biological diversity.			

Comments Proposal is not at variance to this Principle

The area under application falls within the Avon Wheatbelt bioregion, a region that is recognised for its high biodiversity. However the area to be cleared is small and degraded from years of exposure to spray drift, root damage and grazing due to farming practices. CALM advises that the small area to be cleared is unlikely to represent an area of outstanding biodiversity. The clearing is proposed to take place in a matrix of cleared farmland with remnant patches present through-out the property that are likely to contain biological diversity typical of the area. In addition, as a part of the surface water management demonstration project, CALM will be working with the propent to revegetate areas of the property including the riparian zone of a creek line that runs through the property. Seed will be collected from local remnants and were possible vegetation that has been cleared will be used in regeneration projects. Areas of remnant bush will also be fenced off as a part of this project. Therefore the proposed clearing is not at variance to this Principle.

Methodology GIS Databases: Interim Biogeographic Regionalisation of Australia-EA 18/10/00. Clearing Permit Application CALM advice

(b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.

CommentsProposal is not at variance to this PrincipleThe area of proposed clearing is within the known range of Carnaby's Black Cockatoo (Calyptorhynchus

	latirostris), that is listed as 'e CALM advice implies sufficie mitigate the potential impact Cockatoo Calyptorhynchus I sufficient remnant vegetation Photographs that were supp not contain nesting hollows so nearby that could provide ap	ent habitat corri of this clearing atirostris may u n is available el lied by the prop suitable for Cal	dors and adjace on local native use the remnant lsewhere in the a conent reveal tha yptorhynchus lat	nt remnant pa fauna popula vegetation fo irea to provid at the vegetat irostris. In ac	atches exist in the ar tions. Although Carn r foraging habitat, it e alternative foraging ion that is proposed Idition there are poc	ea so as to laby's Black- would appear that g opportunities. to be cleared does kets of vegetation
Methodology	CALM's Threatened and Priority Fauna Database [The comprehensiveness of the database is dependent on the amount of survey carried out in the area and does not necessarily represent a comprehensive listing (CALM, 2005)]. CALM advice					
	vegetation should not be ant flora.	cleared if it i	ncludes, or is	necessary	for the continue	d existence of,
Comments	Proposal is not likely to CALM advice indicated that humile, Eremophila vernicos Management System). Thes of the area proposed to be o understorey, it is unlikely that conservation significance. T	the following D sa ms, Ptilotus e species are a leared. Based t the proposed	RF occur within fasciculatus (ba associated with s on the small are clearing of 0.8h	10km of the a sed on CALM aline or wetla a to be cleard a poses a sig	I's Threatened Flora and environments the ed, and the degrade nificant threat to flor	a Data at are not reflective d condition of the
Methodology	GIS Databases: Declared Ra CALM's Threatened and Prio dependent on the amount of listing. The determination of appropriate flora survey (CA CALM advice	prity Flora Data survey carried the presence c	A Management S	ystem [The o and does not	necessarily represe	
	vegetation should not be nance of a significant eco			whole or a	part of, or is nec	essary for the
Comments	Proposal is not at varia The Threatened Ecological (not include t	he area affected by	this application.
Methodology	GIS Databases: Threatened	Ecological Co	mmunities - CAL	M 15/07/03		
• •	vegetation should not be s been extensively cleare		s significant a	is a remnar	nt of native veget	ation in an area
Comments	Proposal is at variance The Avon Wheatbelt Bioregi 'vulnerable' by conservation 'endangered' by conservatio	to this Princi on has betwee status. Beard v	n 10-30% of its p vegetation assoc fore the clearing n Current	iation 1143 h	as less than 10% re	
		- 41 14				
	IBRA Bioregion - Avon Whe	9,578,995	1,536,296	16	Vulnerable	10.3
	Shire - Coorow Beard veg type - 1143 * (Shepherd et al. 2001) ** (Department of Natural Re	424,583 76,026	164, 895 4,812	38.8 6.3	Depleted	Not available 2.9
Methodology	GIS Databases: Interim Biog DA 01/01, Local Governmer Shepherd et al, 2001. Department of Natural Reso	t Authorities - I	DLI 08/07/04.	ustralia - EA	18/10/00, Pre-Europ	ean Vegetation -
	vegetation should not be ated with a watercourse o		s growing in,	or in assoc	iation with, an er	nvironment
Comments	Proposal is not at varian No watercourse or wetlands watercourse that flows south	nce to this P occur within th	e area under ap			

	currently has little vegetation occurring along it. CALM will be assisting the proponent to fence off and revegetate the riparian area of this creek-line over the coming year. Therefore the proposed clearing is not at variance to this Principle.			
Methodology	GIS Databases: Hydrography, linear - DoE 01/02/04 Midwest Gascoyne Hydro Unit			
	vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable gradation.			
Comments	Proposal is not at variance to this Principle The Department of Agriculture feels that the clearing of this area of vegetation would be unlikely to result in appreciable land degradation. Therefore the proposal is not at variance to this Principle			
Methodology	GIS Databases - Rainfall, Mean Annual - BOM 30/09/01, Salinity Risk LM 25m - DOLA 00, Soils Statewide - DAWA 11/99, Department of Agriculture			
	vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on ironmental values of any adjacent or nearby conservation area.			
Comments	Proposal is not likely to be at variance to this Principle CALM advice indicates that Un-named Nature Reserves (28669 & 21175) occur with in a 10m radius of the area. The vegetation that is proposed to be cleared is small in area, and located some distance from the identified nature reserves. On this basis it is unlikely to link the identified conservation areas. Negligible impacts on the local nature reserves are anticipated. This proposal is not likely to be at variance to this Principle.			
Methodology	GIS Databases - CALM Regional Parks - CALM 12/04/02, WRC Estate - WRC 05/99, CALM Managed Lands & Waters - CALM 01/06/04, Proposed National Parks FMP-CALM 19/03/03, Register of National Estate - EA 28/01/03 CALM Advice			
	vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration uality of surface or underground water.			
Comments	Proposal is not likely to be at variance to this Principle Predictions indicate that 16% if the Moore River Catchment is at risk of developing a shallow water table (Clarke 2002). However it is unlikely that the removal a small area of vegetation such as this will have an impact on the surrounding water table. In addition the proponent will be working with CALM to revegetate areas on the property. Planting of perennial species is one of the recognised options for managing dryland salinity (Clarke 2002). Therefore the clearing proposal is not likely to be at variance to this Principle.			
Methodology	Clarke M. and Rogers D., 2002. Rapid Catchment Appraisal 2002 - The Moore River Catchment, Department of Agriculture, Geraldton, Western Australia Midwest Gascoyne Hydro Unit			
	vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the ice of flooding.			
Comments	Proposal is not likely to be at variance to this Principle The mean annual rainfall of this area is 400mm. The Buntine Marchagee road, which exists to the north of the proposed clearing area, is prone to flooding. It is unlikely that the removal of 0.8 hectare of vegetation will effect peak flood height or duration in the area. Also, the area to be cleared is part of a surface water management demonstration site that aims to alleviate the flooding of this road by controlling the flow of water from the surrounding catchment. This will be done by creating a series of shallow surface water control structures (grade banks and contour banks). In addition some areas of the property will be revegetated with natives perennials. These measures should ease flood levels. Therefore it is not likely that the proposed clearing will be at variance to this Principle.			
Methodology	GIS Databases - Rainfall, Mean Annual - BOM 30/09/01 AgWA - Bunbury Mid-West Hydro Unit CALM - Geraldton			
Planning in	strument, Native Title, Previous EPA decision or other matter.			
Comments	The Shire of Coorow has indicated that there are no planning requirements/approvals that effect the clearing proposal.			
Methodology	Page 3			
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Purpose	Method	Applied area (ha)/ trees	Decision	Comment / recommendation
Cropping	Mechanical Removal	0.8	Grant	The assessable criteria have been addressed and the clearing is at variance to Principle e). The amount of vegetation in the Avon Wheatbelt Bioregion and vegetation type 1143 is less than 30% of its original extent. Although the clearing is taking place in an area that has been extensively cleared the vegetation to be removed is small (0.8ha) and degraded. It is felt that the proposed clearing will hav an insignificant effect on the current vegetation extent for the region. In addition the area is part of a surface water management demonstration site which is jointly managed by CALM and the Coorow LCDC. The anticipated benefits of this project compensate for the removal of this vegetation. The assessing officer therefore recommends that the permit should be granted.

5. References

- CALM (2005) Land clearing proposal advice. Advice to A/Director General, Department of Environment (DoE). Department of Conservation and Land Management, Western Australia. DoE TRIM ref IN22149
- Clarke M. and Rogers D., 2002. Rapid Catchment Appraisal 2002 The Moore River Catchment, Department of Agriculture, Geraldton, Western Australia
- Crago F (2005) Application for a Clearing Permit CPS 595/1, Frank Milton Crago, Coorow, Western Australian, DoE TRIM ref IN21219
- Department of Natural Resources and Environment (2002) Biodiversity Action Planning. Action planning for native biodiversity at multiple scales ; catchment bioregional, landscape, local. Department of Natural Resources and Environment, Victoria.
- Hopkins, A.J.M., Beeston, G.R. and Harvey J.M. (2001) A database on the vegetation of Western Australia. Stage 1. CALMScience after J. S. Beard, late 1960's to early 1980's Vegetation Survey of Western Australia, UWA Press.
- Keighery, BJ (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Shepherd, D.P., Beeston, G.R. and Hopkins, A.J.M. (2001) Native Vegetation in Western Australia, Extent, Type and Status. Resource Management Technical Report 249. Department of Agriculture, Western Australia.