

1. Applicat	tion details								
	t application								
Permit applicat	tion No.:	545/1	_						
Permit type:		Area Permit							
•	onent details								
Proponent's name:		Hamers	Hamersley Iron Pty Ltd						
-	erty details								
Property: Local Government Area: Colloquial name:			AML70/4						
			Shire Of Ashburton						
		Tom Pr	Tom Price Iron Ore Mine - West Pit extension						
1.4. Applie	cation								
Clearing Area (ha) No 11.3		. Trees		-		or the purpose of:			
			Mechani			ining			
2. Site Info	rmation								
	ng environm								
	iption of the na	•							
Vegetation Description Clear		aring Descri	-	Vegetation Con		Comment			
Beard Vegetatio		e area under a		Very Good: Vege		Desktop assessment of vegetation association based on			
Association 82: grasslands, low		nprises of 11. Inant vegetat		structure altered; obvious signs of		Pilbara Iron's Botanical Survey Advice (Hamersley Iron Pty Ltd, 2004).			
steppe; snappy	gum over sur	ounded by e	xisting	,,,					
Triodia wiseana et al., 2001)		e operations. etation has b		The 1994)					
et al., 2001)	-	acted upon b							
		loration track	s and						
		acent mining declared rare							
		ated within the							
		a, however o							
		pecies, Indigo arpa, and on							
		cies, Eremop							
		gnifica subsp	-						
		e recorded. (ed species, A							
		icaria, was id							
		site (Hamers	ley Iron						
	Pty	Ltd, 2004).							
3. Assessi	ment of appli	cation aga	inst clea	ring principles	3				
(a) Native	vegetation sh	ould not l	be cleare	d if it compris	es a h	igh level of biological diversity.			
Comments Proposal is not likely to be at variance to this Principle				ciple					
						nant vegetation in a mostly cleared landscape.			
		While the vegetation is quite diverse with a total of 33 families, 57 genera and 91 species were identified within the survey area, the vegetation to be cleared borders an active mine pit and the site area has also been previously disturbed by exploration tracks (Hamersley Iron Pty Ltd, 2004). Therefore, the site to be cleared is							
						Pty Ltd, 2004). Therefore, the site to be cleared is getation in the local region.			
			conversity a	againeance trait					
Methodology	Permit Applica	ation;							
	Hamersley Irc		2005)						
(b) Notivo	ogotation at	ould not b	o olocia-	l if it comprise	0 4h 0	whole or a part of ar is passagery for the			
						whole or a part of, or is necessary for the to Western Australia.			
Comments				variance to thi		ciple			

While there is limited CALM fauna records that relate to the area under application (CALM, 2005), it has been disturbed by previous mining activity and is surrounded by existing mining infrastructure. Therefore links, such

	as wildlife corridors, between the proposed area to be cleared and other native vegetation do not exist. Thus, the vegetation is unlikely to support significant habitat for fauna populations (CALM, 2005).							
Methodology	Aerial Photograph; Permit application; CALM (2005).							
	vegetation should not be o ant flora.	cleared if it in	cludes, or is	necessary	or the continued	existence of,		
Comments	Proposal may be at variance to this Principle The vegetation to be cleared borders an active mine pit. Whilst no Declared Rare Flora was located within the proposed area to be cleared, a number of occurrences of Priority Species Indigofera ixocarpa (priority 2) and Eremophila magnifica subsp. magnifica (priority 4) were recorded in the survey area (Hamersley Iron Pty Ltd, 2004). These species seem to be distributed throughout the Tom Price area as they have been recorded in numerous prior surveys (Hamersley Iron Pty Ltd, 2004). Clearing of the area under application is unlikely to pose a significant risk on the regional viability of Indigofera ixocarpa given that it is known to be a disturbance opportunist and is present elsewhere in the local area (CALM, 2005). CALM is supportive of licensed seed collection and the subsequent regeneration of Indigofera ixocarpa in rehabilitation programs following the cessation of mining activities in the area (CALM 2005).							
Methodology	Permit Application; Hamersley Iron Pty Ltd (2004); CALM (2005).							
	vegetation should not be on ance of a significant eco			whole or a	part of, or is nece	ssary for the		
Comments	Proposal is not likely to be at variance to this Principle There are no known Threatened Ecological Communities recorded within 50km of the area under application. Further to this, past and present mining activities in the areas adjacent to the area under application would have significantly impacted on flora and fauna habitat values (CALM, 2005). Therefore, the site under application is unlikely to be necessary for the maintenance of a threatened ecological community.							
Methodology	GIS Database: Threatened Ecological Communities - CALM 15/7/03; Threatened Plant CommunitiesDEP 06/95; CALM (2005).							
(e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.								
Comments	Proposal is not at varian	ce to this Pri Pre-European area (ha) *	•	Remaining %*	Conservation Status**	% in reserves/ CALM managed land		
	IBRA Bioregion - Pilbara	17,944,694	17,944,694	~100%	Least concern	15.17		
	Shire of Ashburton No information available							
	Beard vegetation associations - 82	2,920,910	2,920,910	~100%	Least concern	10.1		
	* Shepherd et al. (2001) ** Department of Natural Resources and Environment (2002) *** Area within the Intensive Landuse Zone - if this is applicable							
	The State Government is committed to the National Objectives and Targets for Biodiversity Conservation which includes a target that prevents clearance of ecological communities with an extent below 30% of that present pre- European settlement (Department of Natural Resources and Environment, 2002).							
	Vegetation complexes within this application are above 30% representation. The vegetation of the site is a component of Beard Vegetation Association 82 (Hopkins et al, 2001), of which there is ~100% of the pre-European extent still remaining (Shepherd et al, 2001). The vegetation type is therefore of 'least concern' for biodiversity conservation (Department of Natural Resources and Environment, 2002).							
Methodology	GIS database: Pre-European	n Extent - DA 07	1/01;					

	Department of Natural Resources and Environment (2002); Hopkins et al. (2001); Shepherd et al. (2001).
	vegetation should not be cleared if it is growing in, or in association with, an environment ated with a watercourse or wetland.
Comments	Proposal is not at variance to this Principle The vegetation to be cleared is not associated with a watercourse or wetland.
Methodology	GIS Database: Hydrology, linear - DOE 1/02/04 Aerial Photograph
	vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable gradation.
Comments	Proposal is not likely to be at variance to this Principle The likely land degradation risks posed by the clearing of vegetation are minimal as the immediate surrounding area is already largely cleared for mining operations and will be managed as part of the mine infrastructure. Water and wind erosion, water logging and land salinisation is not likely to be increased should the vegetation on this site be cleared.
Methodology	GIS Database: Aerial Photgraph; Soils, Statewide - DA 11/99; Groundwater Salinity, Statewide - 22/02/00.
	vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on vironmental values of any adjacent or nearby conservation area.
Comments	Proposal is not at variance to this Principle Karijini National Park is located 16km east of the area under application. However, the proposed clearing area is within an operating mine site and therefore is unlikely to cause an appreciable additional impact on this conservation area (CALM, 2005).
Methodology	GIS Database: CALM Managed Land and Waters - 1/06/04; CALM (2005)
	vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration quality of surface or underground water.
Comments	Proposal is not likely to be at variance to this Principle The clearing of vegetation within the operating mine area is unlikely to impact on surface water quality or groundwater resources in the area. The proposed clearing area is not in a Public Drinking Water Source Area.
Methodology	GIS Database: - Public Drinking Water source Areas (PDWSA's) -DOE 29/11/04; - Hydrography, linear (hierachy) - DOE 13/4/05
	vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the nee of flooding.
Comments	Proposal is not likely to be at variance to this Principle The average rainfall of the area is ~400mm. It is unlikely that the removal of 11.3 ha of vegetation will have a significant influence on the run-off and flood regimes in the local area.
Methodology	GIS Database: Rainfall, Mean Annual - BOM 30/09/01
Planning in	strument, Native Title, Previous EPA decision or other matter.
Comments	No objections have been received regarding the clearing native vegetation in the area under application. The vegetation to be cleared is within Mineral Lease AML70/4 granted in accordance with the Iron Ore (Hamersley Range) Agreement Act 1963 and the Mining Act 1908. There is one Native Title Claim over the area under application by the Eastern Guruma peoples. However, the Mineral Lease has been granted so therefore the granting of a clearing permit does not constitute a future act under the Native Title Act 1993. The proposed area lies within the Mulba area on the Interim register on the Aboriginal Sites of Significance. A scarred tree, which is on the permanent register of Aboriginal sites of Significance, is also located within the Page

proposed clearing area. The applicant has advised that this site has been previously salvaged in November 2000 under section 18 permit 266 and fulfilment of the s18 conditions were acknowledged by the Department of Aboriginal Affairs on 20 February 2001 (Pilbara Iron, pers. comm., 2005). This application to clear is not at variance to the EPA advice given under s48 level 2 (CRN 104411) (Environmental Protection Authority, 1996). There are no other RIWI Act Licences or Works Approvals that will affect the area that has been applied to clear. This application is not at variance to the conditions set by EP licence number 4762.
 Methodology GIS Database:- Aboriginal Sites of Significance - DIA 04/07/02; Pilbara Iron, pers. comm. (2005); Environmental Protection Authority (1996).

4. Assessor's recommendations

Purpose	Method Ap	plied	Decision	Comment / recommendation
		ea (ha)/ trees		
Mining	Mechanical [·] Removal	11.3	Grant	Assessable criteria have been addressed and no objections were raised. 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, Wester Australia. DoE Reference: Trim KNI903; Reference IN22822. Department of the Environment and Heritage Database Reporting Tool (coordinates: -22.7486, 117.7454; 3km buffer)

- Environmental Protection Authority (1996) Level of assessment for Scheme TPS 6 District Scheme, Shire of Ashburton, Scheme Not Assessed - Advice Given (no appeals). DoE Reference: Trim KTI5341.
- Hamersley Iron Pty Ltd (2003) Tom Price Mine Expansion Rare Flora Survey; West Pit Road, Area NTD2EX-WD and Area Between WEPBSXTEN2 & WEPIWDS2. Unpublished Document. Department of Environment Reference: TRIM KNI718
- 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.

Pilbara Iron (2005) E-mail: Aboriginal Site at Tom Price. Personal Communication. DoE Reference: Trim KTI5281 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.

6. Glossary

Term	Meaning
CALM	Department of Conservation and Land Management
DAWA	Department of Agriculture
DEP	Department of Environmental Protection (now DoE)
DoE	Department of Environment
DoIR	Department of Industry and Resources
DRF	Declared Rare Flora
EPP	Environmental Protection Policy
GIS	Geographical Information System
ha	Hectare (10,000 square metres)
TEC	Threatened Ecological Community
WRC	Water and Rivers Commission (now DoE)