

#### Application details 1

T. Application details						
1.1. Permit application de	etails					
Permit application No.: Permit type:	578/1 Area Permit					
1.2. Proponent details Proponent's name:	Water Corporation					
1.3. Property details Property:	ROAD RESERVE					
Local Government Area: Colloquial name:	City Of Armadale Swamp Rd Road Reserve					
1.4.ApplicationClearing Area (ha)No. T0.01	rees Method of Clearing Mechanical Removal	For the purpose of: Miscellaneous				
<ol> <li>Site Information</li> <li>Existing environmen</li> <li>1.1. Description of the national statements</li> </ol>	t and information ve vegetation under application					
, Vegetation Description	Clearing Description	Vegetation Condition	Comment			
Beard vegetation association 125 - Bare areas, salt lakes (Shepherd et al 2001, Hopkins et al 2001).	The clearing as proposed consists of two small areas totalling 50 square meters within the Swamp Road road reserve. The clearing is required to	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	The Beard vegetation association 125 (bare areas, salt lakes; Shepherd et al 2001, Hopkins et al 2001) does not appear to describe the area under application correctly, given that the Heddle vegetation complex, Southern River Complex (Heddle et al 1980), has a description of Eucalvotus marginata. E. rudis			
Heddle vegetation complex: Southern River Complex - open woodland of Corymbia calophylla, Eucalyptus marginata, Banksia species with fringing woodland of E. rudis and Melaleuca	upgrade existing Water Corporation infrastructure. From the aerial photographs provided by the proponent, the vegetation within these areas is sparse and seems to consist mainly of shrubs with little to no trees present.					

rhaphiophylla along creek beds (Heddle et al 1980).

Eucalyptus marginata, E. rudis and other plant species that do not tolerate salt. As the Heddle vegetation study was concentrated to the Swan Coastal Plain, the Southern River vegetation complex will be used in this assessment.

### 3. Assessment of application against clearing principles

### (a) Native vegetation should not be cleared if it comprises a high level of biological diversity.

#### Comments Proposal is not likely to be at variance to this Principle

The clearing as proposed consists of two small areas totalling 50 square meters within a road reserve. From the aerial photographs provided by the proponent, the road reserve appears to consist mainly of shrubs with a few trees. As the areas surrounding this road reserve are Bush Forever sites, it is unlikely that the areas under application would be of higher biodiversity value than these Bush Forever sites.

Methodology Aerial photographs provided by proponent (DoE Trim No IN 21113)

- **GIS Databases:**
- Swan Coastal Plain North Orthomosaic DLI 04
- Bush Forever MFP 07/01

## (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.

#### Comments Proposal is not likely to be at variance to this Principle

The clearing as proposed consists of two small areas totalling 50 square meters with little to no connectivity to larger tracts of vegetation. It is highly unlikely that the areas under application consist of vegetation that supports or maintains habitat for indigenous fauna, or facilitates the movement of fauna. Therefore it is

	considered unlikely that the clearing as proposed would have a significant impact on fauna in the local area.				
Methodology	Aerial photographs provided by the proponent (DoE Trim No IN 21113) GIS Databases: - Swan Coastal Plain North Orthomosaic - DLI 04				
(c) Native	vegetation should not be cleared if it includes, or is necessary for the continued existence of,				
rare flo					
Comments	<b>Proposal is not likely to be at variance to this Principle</b> There are no Declared Rare or Priority Flora within the immediate vicinity of the proposed clearing. Given the small area and the degraded nature of the vegetation under application, it is unlikely that the clearing as proposed would contain species of conservation significance or impact upon these species.				
Methodology	Information provided by the proponent (DoE Trim No IN 21113) GIS Databases: - Declared Rare and Priority Flora List - CALM 15/07/03				
	vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the nance of a threatened ecological community.				
Comments	<b>Proposal is not likely to be at variance to this Principle</b> There are no Threatened Ecological Communities (TECs) within the immediate vicinity of the proposed clearing. Given the small size and degraded nature of the area under application, it is unlikely that a TEC occurs within the areas under application or will be affected by the clearing as proposed.				
Methodology	Information provided by the proponent (DoE Trim No IN 21113) GIS Databases: - Threatened Ecological Communities - CALM 15/07/03				
(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 likely to be at variance to this Principle				
	The vegetation under application consists of Beard vegetation association 125 (Shepherd et al 2001, Hopkins et al 2001) and the Heddle vegetation complex Southern River Complex (Heddle et al 1980). However, the description for Beard vegetation association 125 is bare areas, salt lakes which does not appear to describe the vegetation under application, therefore will not be considered in the assessment of this Principle.				
	The State Government is committed to the National Objectives and Targets for Biodiversity Conservation which outlines a target that prevents clearance of ecological communities with an extent below 30% of that present pre- European (Department of Natural Resources and Environment 2002, EPA 200). The Southern River complex within the areas under application is below this 30% minimum, however given the degraded nature of the area under application, it is considered unlikely that the vegetation under application is an accurate representation of this Heddle complex. Therefore, the clearing as proposed is unlikely to be at variance to this Principle.				
Methodology	Shepherd et al (2001) Hopkins et al (2001) Heddle et al (2001) Department of Natural Resources and Environment (2002) EPA (2000)				
(f) Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.					
Comments	<b>Proposal is not likely to be at variance to this Principle</b> The clearing as proposed consists of two small sections within the Swamp Road road reserve. The western part of the under application is within the boundary of a Conservation Category Wetland, while the eastern part is not. Both areas, however, are within the boundary of the Gibbs Road Swamp System which has been listed on the National Directory of Wetlands. However given the degraded nature of the vegetation it is unlikely that the areas under application are an accurate example or quality stand of wetland vegetation. Therefore it is considered that the clearing as proposed is not likely to be at variance to this Principle.				
Methodology	GIS Databases: - ANCA wetlands - CALM 08/01 - Geomorphic wetlands (Mgmt Categories) - Swan Coastal Plain - DOE 15/09/04				

(g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.						
Comments	The areas under a described as sandy Sandy soils are pro	oplication have dunes interver one to wind eros	t variance to this Principle a Class 1 (Moderate to high) Acid Sulphate Soil (ASS) Risk. The soils are hing sandy and clayey swamp flats with chief soils being leached sands. sion, however given the small areas under application (50 square meters) it is sed would cause appreciable on site or off site land degradation.			
Methodology	GIS Databases: - Acid Sulphate Soil risk map, SCP - DOE 01/02/04 - Soils, Statewide - DA 11/99					
(h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.						
Comments	The proposed clea under application, t	ring is approxim the degraded na	t variance to this Principle nately 300m from the Forrestdale Lake Nature Reserve. Given the small area ature of the vegetation and the lack of connectivity with other vegetation, it is sed would have a significant effect on this nature reserve.			
Methodology	GIS Databases: - CALM Managed I - Swan Coastal Pla		ers - CALM 01/08/04 nosaic - DLI 04			
(i) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.						
Comments	The areas under approtection zone (EF	oplication are no PP area). Given proposed woul	t variance to this Principle ot within a Public Drinking Water Source Area (PDWSA) or a groundwater in the small size (50 square meters) of the area under application, it is unlikely Id increase the sedimentation or eutrophication of water bodies or increase			
Methodology	GIS Databases: - Public Drinking Water Source Areas (PDWSA) - DOE 29/11/04 - EPP, Areas - DEP 06/95 - Groundwater Salinity, Statewide - 22/02/00					
	vegetation should		ed if clearing the vegetation is likely to cause, or exacerbate, the			
Comments	<b>Proposal is not likely to be at variance to this Principle</b> Given the small size of the area under application and the relatively flat terrain of the surrounding area, it is unlikely that the clearing as proposed would exacerbate peak flood height or duration.					
Methodology	GIS Databases: - Topographic Contours, Statewide - DOLA 12/09/02					
Planning ins	strument, Native	Title, Previou	s EPA decision or other matter.			
Comments		ing was obtaine	ng is to take place is within a City of Armadale road reserve, permission for ad from the Armadale Council. The Council expressed that they had no			
Methodology	There is no other RIWI Act Licence, Works Approval or EP Act Licence that will affect the area that has been applied to clear. Letter from City of Armadale - (DoE Trim No IN22410)					
4. Assessor's recommendations						
Purpose Met	hod Applied	Decision	Comment / recommendation			
MiscellaneousMech Remo		Grant	The Principles have been addressed and it is considered that the clearing as proposed is not likely to be at variance to any of them.			

Given the small size (50 square meters) and the degraded nature of the vegetation under application, the assessing officer recommends that the permit be granted.

# 5. References

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.

EPA (2000) Environmental protection of native vegetation in Western Australia. Clearing of native vegetation, with particular reference to the agricultural area. Position Statement No. 2. December 2000. Environmental Protection Authority.

Heddle, E. M., Loneragan, O. W., and Havel, J. J. (1980) Vegetation Complexes of the Darling System, Western Australia. In Department of Conservation and Environment, Atlas of Natural Resources, Darling System, Western Australia.

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.

### 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)