



## CLEARING PERMIT

*Granted under section 51E of the Environmental Protection Act 1986*

### PERMIT DETAILS

Area Permit Number: 3930/1  
File Number: 2010 / 006556  
Duration of Permit: From 14 November 2010 to 14 November 2015

### PERMIT HOLDER

Forrest and Forrest Pty Ltd (as Trustee for the Minderoo Pastoral Station Company)

### LAND ON WHICH CLEARING IS TO BE DONE

Lot 162 on Plan 220265 (Talandji 6710)

### AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 1 hectare of native vegetation within the area shaded yellow on attached Plan 3930/1.

### CONDITIONS

#### 1. Weed control

When undertaking any clearing or other activity authorised under this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of *weeds*:

- (a) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
- (b) ensure that no *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- (c) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

#### 2. Retain vegetative material and topsoil, revegetation and rehabilitation

The Permit Holder shall:

- (a) retain the vegetative material and topsoil removed by clearing authorised under this Permit and stockpile the vegetative material and topsoil in an area that has already been cleared.
- (b) within 3 months following clearing authorised under this permit, *revegetate* and *rehabilitate* the area(s) that are no longer required for the purpose for which they were cleared under this Permit by:
  - (i) re-shaping the surface of the land so that it is consistent with the surrounding 5 metres of uncleared land; and
  - (ii) ripping the pit floor and contour batters within the extraction site; and
  - (ii) laying the vegetative material and topsoil retained under condition 2(a) on the cleared area(s).
- (c) within 2 years of laying the vegetative material and topsoil on the cleared area in accordance with condition 2(b) of this Permit:

- (i) engage an *environmental specialist* to determine the species composition, structure and density of the area *revegetated* and *rehabilitated*; and
- (ii) where, in the opinion of an *environmental specialist*, the composition structure and density determined under condition 2(c)(i) of this Permit will not result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, *revegetate* the area by deliberately *planting* and/or *direct seeding* native vegetation that will result in a similar species composition, structure and density of native vegetation to pre-clearing vegetation types in that area and ensuring only *local provenance* seeds and propagating material are used.

### 3. Records to be kept

The Permit Holder must maintain the following records for activities done pursuant to this Permit:

- (a) In relation to the clearing of native vegetation authorised under this Permit:
  - (i) the location where the clearing occurred, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings;
  - (ii) the date that the area was cleared; and
  - (iii) the size of the area cleared (in hectares).
- (b) In relation to the *revegetation* and *rehabilitation* of areas pursuant to condition 2 of this Permit:
  - (i) the location of any areas *revegetated* and *rehabilitated*, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings;
  - (ii) a description of the *revegetation* and *rehabilitation* activities undertaken;
  - (iii) the size of the area *revegetated* and *rehabilitated* (in hectares); and
  - (iv) the species composition, structure and density of *revegetation* and *rehabilitation*.

### 4. Reporting

- (a) The Permit Holder must provide to the CEO on or before 30 June of each year, a written report:
  - (i) of records required under condition 3(a) and (b) of this Permit; and
  - (ii) concerning activities done by the Permit Holder under this Permit between 1 January and 31 December of the preceding year.
- (b) Prior to 14 August 2015, the Permit Holder must provide to the CEO a written report of records required under condition 3 of this Permit where these records have not already been provided under condition 4(a) of this Permit.

### Definitions

The following meanings are given to terms used in this Permit:

**fill** means material used to increase the ground level, or fill a hollow;

**mulch** means the use of organic matter, wood chips or rocks to slow the movement of water across the soil surface and to reduce evaporation;

**weed/s** means a species listed in Appendix 3 of the "Environmental Weed Strategy" published by the Department of Conservation and Land Management (1999), and plants declared under section 37 of the *Agriculture and Related Resources Protection Act 1976*.

**direct seeding** means a method of re-establishing vegetation through the establishment of a seed bed and the introduction of seeds of the desired plant species;

***environmental specialist*** means a person who is engaged by the Permit Holder for the purpose of providing environmental advice, who holds a tertiary qualification in environmental science or equivalent, and has experience relevant to the type of environmental advice that an environmental specialist is required to provide under this Permit;

***local provenance*** means native vegetation seeds and propagating material from natural sources within #1 kilometres of the area cleared.

***mulch*** means the use of organic matter, wood chips or rocks to slow the movement of water across the soil surface and to reduce evaporation;

***planting*** means the re-establishment of vegetation by creating favourable soil conditions and planting seedlings of the desired species;

***regenerate/ed/ion*** means re-establishment of vegetation from in situ seed banks and propagating material (such as lignotubers, bulbs, rhizomes) contained either within the topsoil or seed-bearing *mulch*;

***rehabilitate/ed/ion*** means actively managing an area containing native vegetation in order to improve the ecological function of that area;

***revegetate/ed/ion*** means the re-establishment of a cover of *local provenance* native vegetation in an area using methods such as natural *regeneration*, *direct seeding* and/or *planting*, so that the species composition, structure and density is similar to pre-clearing vegetation types in that area.

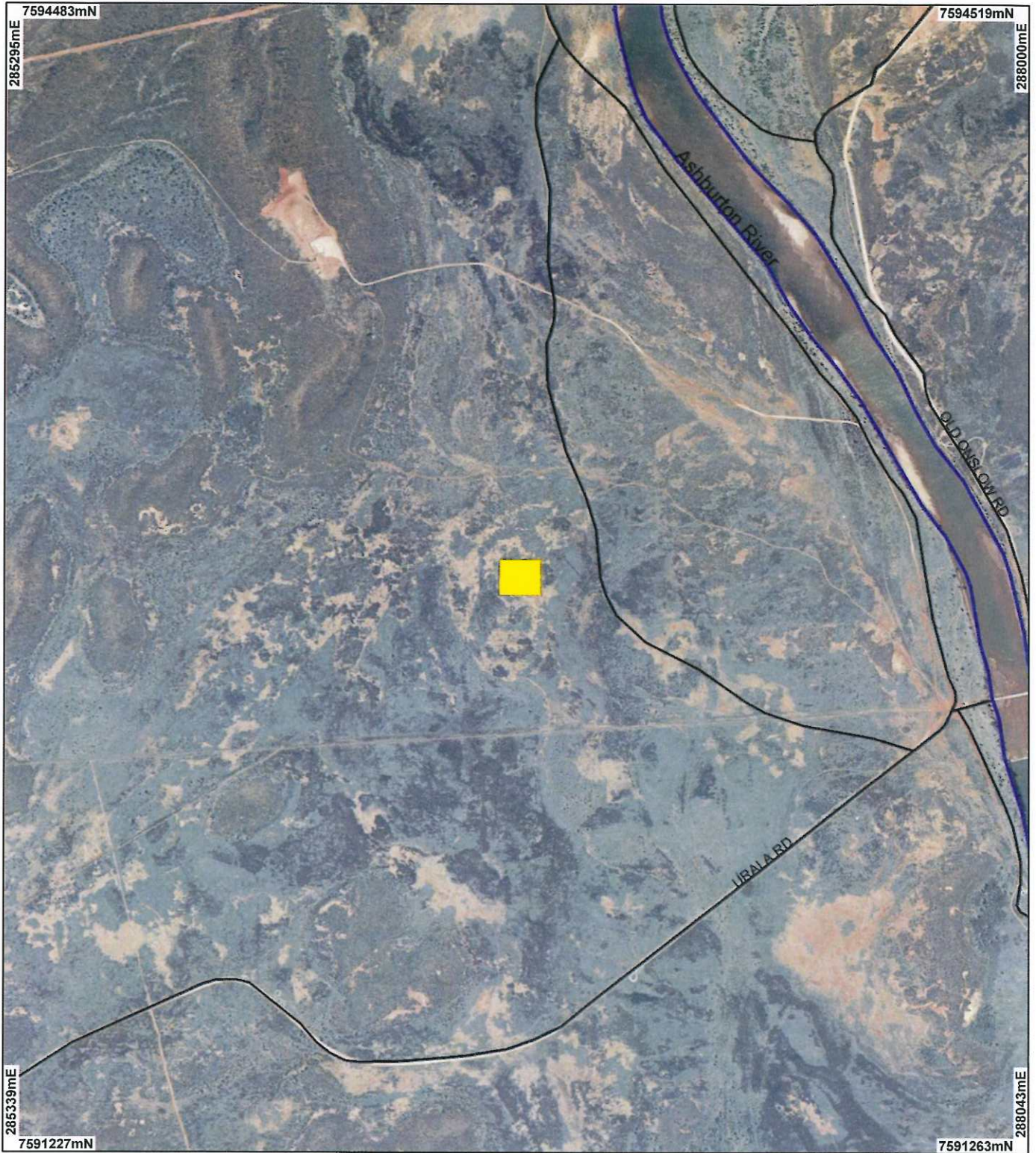


Matthew Warnock  
ACTING MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

*Officer delegated under Section 20  
of the Environmental Protection Act 1986*

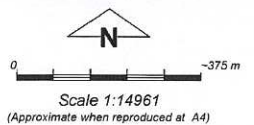
14 October 2010

# Plan - 3930/1



## LEGEND

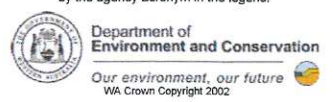
- Road Centrelines
- Tubridgi 1.4m Orthomosaic - Landgate 2001
- Clearing Instruments
- Areas Approved to Clear
- Hydrography, linear (hierarchy)
- Estuarine



Geocentric Datum Australia 1994  
 Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

*Matthew Warnock* Date 16/10/10

Matthew Warnock  
 Officer with delegated authority under Section 20 of the Environmental Protection Act 1986  
 Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.



\* Project Data. This data has not been quality assured. Please contact map author for details.



## 1. Application details

### 1.1. Permit application details

Permit application No.: 3930/1  
Permit type: Area Permit

### 1.2. Proponent details

Proponent's name: Forrest and Forrest Pty Ltd as Trustee for the Minderoo Station Pastoral Company

### 1.3. Property details

Property: LOT 162 ON PLAN 220265 ( TALANDJI 6710)  
Local Government Area:  
Colloquial name: Minderoo Station

### 1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
1		Mechanical Removal	Pastoral Diversification

## 2. Site Information

### 2.1. Existing environment and information

#### 2.1.1. Description of the native vegetation under application

Vegetation Description	Clearing Description	Vegetation Condition	Comment
Beard Vegetation Association 589: Mosaic: Short bunch grassland - savanna / grass plain (Pilbara) / Hummock grasslands, grass steppe; soft spinifex (Shepherd, 2009).	The proposal is to clear upto 1ha of native vegetation in a degraded (Keighery, 1994) condition for the purpose of extracting limestone blocks. The applicant advises that only 'spinifex and low shrubs' remain (DEC REF A328434).	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	Vegetation condition was determined from photographs supplied by the applicant and aerial photography.

## 3. Assessment of application against clearing principles

### Comments

The proposal to clear up to 1 hectare of native vegetation for the purpose of extracting limestone for use in the construction of a proposed weir is unlikely to have any significant environmental impacts. The vegetation is considered to be in a degraded (Keighery, 1994) condition and has been classified as 'Mosaic: Short bunch grassland - savanna / grass plain (Pilbara) / Hummock grasslands, grass steppe; soft spinifex' (Shepherd, 2009).

There are no declared rare flora species or threatened ecological communities recorded in the vicinity of the area proposed to be cleared. The vegetation to be cleared is well represented in the local area; the clearing of 1ha is unlikely to have a detrimental effect on fauna or fauna habitat.

Given the proposed clearing consists of 1ha of degraded, but well represented vegetation, it is unlikely the area under application is considered as significant fauna habitat, or likely to cause or exacerbate land degradation, or influence water quality or flooding.

It is considered that the clearing as proposed is not likely to be at variance with any of the clearing principles.

**Methodology** Keighery (1994)  
Shepherd (2009)  
GIS Layers:  
- DEC tenure  
- Clearing Regulations - Environmentally Sensitive Areas  
- Groundwater Salinity  
- Hydrography, linear  
- Pre-European vegetation  
- Mean Annual Rainfall

## Planning instrument, Native Title, Previous EPA decision or other matter.

### Comments

Given the proposed clearing activity is not related to the purpose of a pastoral lease, proponent should seek advice from the Pastoral Lands Board.

### Methodology

## 4. References

- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Shepherd, D.P. (2009) Adapted from: Shepherd, D.P., Beeston, G.R., and Hopkins, A.J.M. (2001), Native Vegetation in Western Australia. Technical Report 249. Department of Agriculture Western Australia, South Perth.

## 5. Glossary

Term	Meaning
BCS	Biodiversity Coordination Section of DEC
CALM	Department of Conservation and Land Management (now BCS)
DAFWA	Department of Agriculture and Food
DEC	Department of Environment and Conservation
DEP	Department of Environmental Protection (now DEC)
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 DEC)