



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 5283 / 1
File Number: 2011/004721-1
Duration of Permit: From 16 November 2012 to 16 November 2014

PERMIT HOLDER

Alcoa of Australia Limited

LAND ON WHICH CLEARING IS TO BE DONE

Lot 151 on Plan 10914 (OAKLEY 6208)

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 0.21 hectares of native vegetation within the combined areas cross-hatched yellow on attached Plan 5283/1a, Plan 5283/1b and Plan 5283/1c.

CONDITIONS

Nil.

Handwritten signature of Roxane Shadbolt in black ink.

Roxane Shadbolt
A/MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

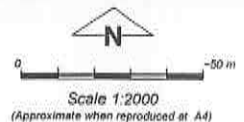
25 October 2012

Plan 5283/1a



LEGEND

- | | |
|------------------------------|--|
| Local Government Authorities | Recently added Coverage |
| Road Centrelines | Clearing Instruments |
| Cadastral Image Index | Areas Approved to Clear |
| <small>Image Index</small> | Pinjarra 50cm Orthomosaic - Landgate 2008 |



Geocentric Datum Australia 1994

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

R. Shadbolt Date *25/10/12*

Roxane Shadbolt

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.

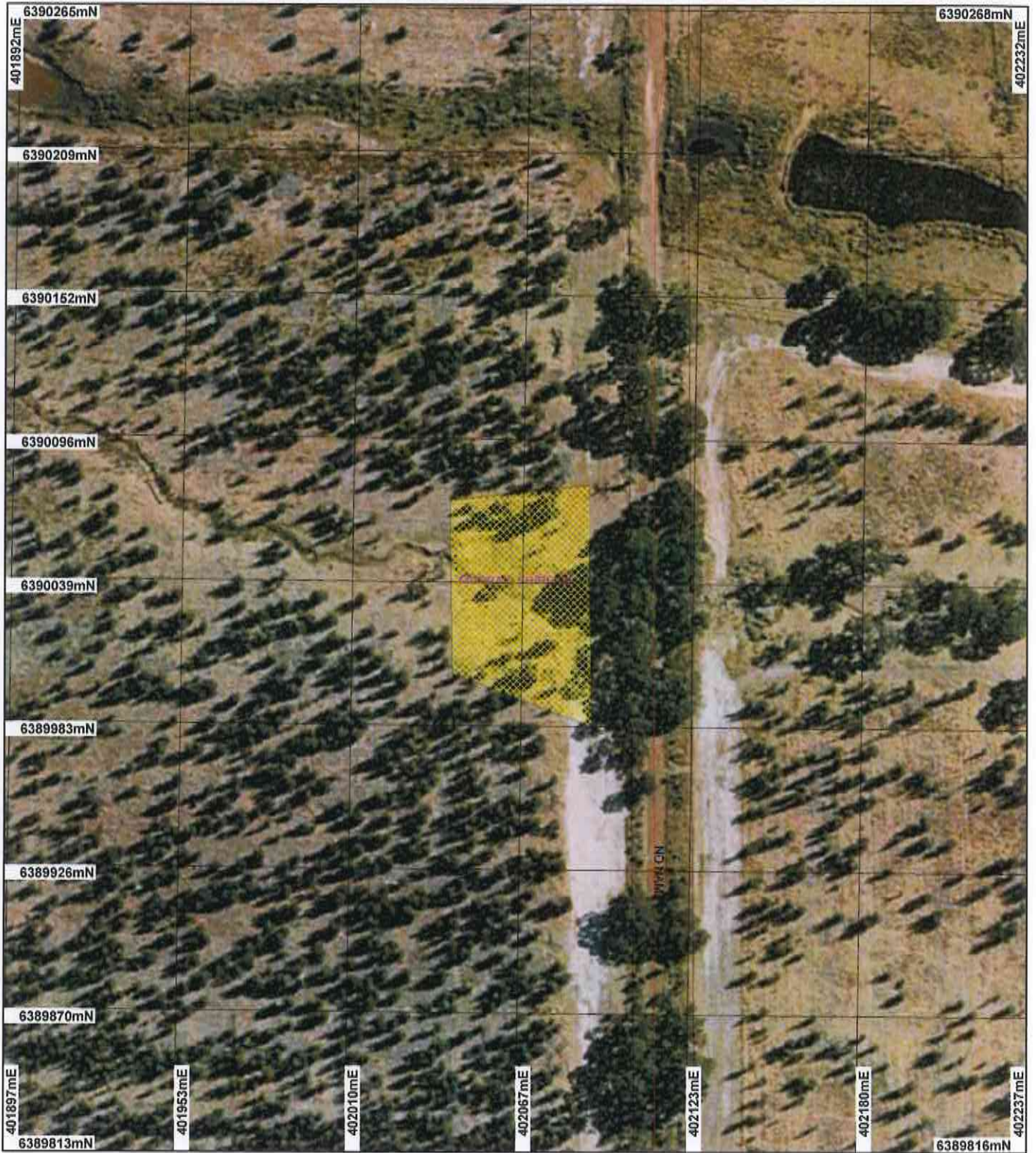


Department of Environment and Conservation

Our environment. our future
WA Crown Copyright 2002

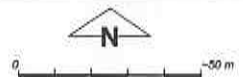
* Project Data is denoted by asterisk. This data has not been quality assured. Please contact map author for details.

Plan 5283/1b



LEGEND

- | | |
|------------------------------|--|
| Local Government Authorities | Recently added |
| Road Centrelines | Coverage |
| Cadastre | Clearing Instruments |
| Image Index (from) | Areas Approved to Clear |
| | Pinjarra 50cm Orthomosaic - Landgate 2006 |



Scale 1:2000
(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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

R. Shadbolt Date: 25/10/12
Roxane Shadbolt

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.

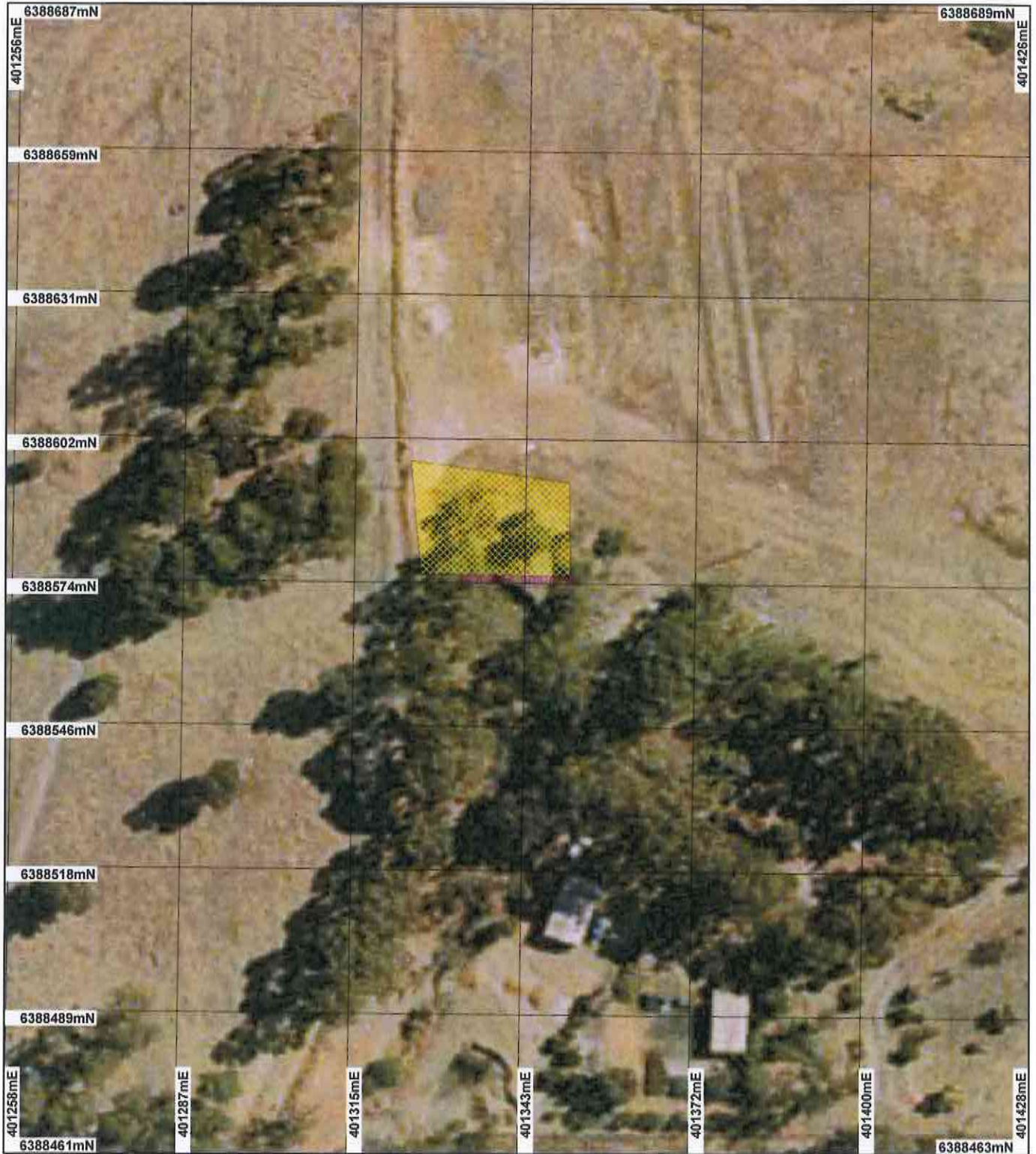


Department of Environment and Conservation

Our environment, our future
WA Crown Copyright 2002

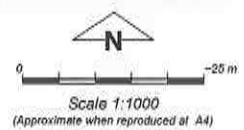
* Project Data is denoted by asterisk. This data has not been quality assured. Please contact map author for details.

Plan 5283/1c



LEGEND

- | | |
|------------------------------|--|
| Local Government Authorities | Recently added |
| Road Centrelines | Coverage |
| Cadastre | Clearing Instruments |
| Image Index | Areas Approved to Clear |
| <small>locust</small> | Pinjarra 50cm Orthomosaic - Landgate 2006 |



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

R. Shadbolt 25/10/12
 Roxane Shadbolt

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.



Department of Environment and Conservation

Our environment, our future
 WA Crown Copyright 2002

* Project Data is denoted by asterisk. This data has not been quality assured. Please contact map author for details.



1. Application details

1.1. Permit application details

Permit application No.: 5283/1
Permit type: Area Permit

1.2. Proponent details

Proponent's name: Alcoa of Australia Ltd

1.3. Property details

Property: LOT 151 ON PLAN 10914 (OAKLEY 6208)

Local Government Area: Shire of Murray

Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.21		Mechanical Removal	Road construction or maintenance

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 25 October 2012

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
The vegetation under application is mapped as: Beard vegetation association: 968: Medium woodland; jarrah, marri and wandoo 3: Medium forest; jarrah-marri (Shepherd et al., 2001).	The proposed clearing of 0.21 ha within Lot 151 on deposited plan 10914 is for the purpose of constructing an access road.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	The vegetation condition and description was determined from aerial photography (Pinjarra 50cm Orthomosaic - Landgate 2006) and from supporting documentation provided by applicant (Alcoa 2012).
Heddle vegetation complex: Guildford complex: Open forest to tall open forest and woodland with fluvial deposits as well as open forest and fringing woodland with ridge hill shelf (Hedde et al 1980).	The vegetation proposed to be cleared consists of marri trees over weeds in a degraded condition (Alcoa, 2012). The vegetation proposed to be cleared consists of marri trees over weeds in a degraded condition (Alco Alcoa World Alumina Australia, 2012).		

3. Assessment of application against clearing principles

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

The application to clear is for up to 0.21 hectares of native vegetation over three areas and consists of Marri trees over weeds in a degraded (Keighery, 1994;) condition (Alcoa, 2012) and therefore is not considered to consist of high biodiversity.

Given the small area and degraded (Keighery 1994) condition, it is not considered for the application area to contain habitat for rare or priority flora or fauna occurring in the local area. It is also not considered likely for the application area to consist of a threatened ecological community or represent a highly cleared vegetation community.

No conservation area occurs in close proximity to the application area. Given this, and the small size of the proposed clearing, the application areas are not likely to be at variance to principle h.

A minor perennial watercourse has been mapped within one of the application areas. However, the application consists of Marri trees which are not wetland dependent and therefore the application area is not likely to be at

variance principle f.

The proposed clearing may cause soil erosion and associated sedimentation of surface water of this watercourse however; this impact is considered to be short term and minor given the relatively small area and degraded (Keighery 1994) condition of the proposed clearing. Therefore, it is not considered for the clearing to cause appreciable land degradation, impact on water quality or cause flooding.

The assessment of the application identified that the clearing is not likely to be at variance to any of the principles.

Methodology

Reference

- Alcoa (2012)
- Keighery (1994)
- Alcoa (2012)

GIS databases:

- Hydrography, linear
- Heddle Vegetation Complexes
- Pre-European vegetation
- SAC Biodatasets (16/10/2012)
- Pinjarra 50cm Orthomosaic (Landgate 2006)
- DEC Managed Lands

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

Comments

No submissions from the public have been received.

The proposed clearing of 0.21 ha within Lot 151 on deposited plan 10914 is for the purpose of constructing an access road.

Two out of the three application areas occurs within an Aboriginal site of significance. It is the applicant's responsibility to liaise with Department of Indigenous Affairs in regards to their responsibilities under the Aboriginal Heritage Act 1972.

The area under application occurs within the Murray River and Tributaries, Rights in Water and Irrigation Act 1914, surface water area. If the applicant is going to impact on the bed or banks of a water course, a Bed and Banks permit may be required from the Department of water.

Methodology

- Town Planning Scheme Zone
- RIWI Act Areas
- Aboriginal Sites of Significance

4. References

- Alcoa (2012) Clearing Permit Application for CPS 5283/1. DEC ref A549072.
- 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.
- 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., 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)