



GOVERNMENT OF
WESTERN AUSTRALIA

CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Purpose Permit Number: 2050 / 1

File Number: A1381/200701

Duration of Permit: From 19 January 2008 to 31 January 2013

PERMIT HOLDER

Alcoa of Australia Limited

LAND ON WHICH CLEARING IS TO BE DONE

LOT 100 ON PLAN 23015 (House No. 80 ANKETELL HOPE VALLEY 6165)

LOT 60 ON DIAGRAM 73814 (House No. 303 HOPE VALLEY HOPE VALLEY 6165)

LOT 61 ON DIAGRAM 73814 (House No. 270 ABERCROMBIE HOPE VALLEY 6165)

LOT 3 ON DIAGRAM 31429 (House No. 307 HOPE VALLEY HOPE VALLEY 6165)

LOT 4 ON DIAGRAM 31429 (House No. 321 HOPE VALLEY HOPE VALLEY 6165)

LOT 5 ON DIAGRAM 31429 (House No. 339 HOPE VALLEY HOPE VALLEY 6165)

PURPOSE FOR WHICH THE CLEARING MAY BE DONE

1. Clearing for the purposes of construction of a residue storage facility and associated infrastructure.

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1.1 PART I – CLEARING AUTHORISED

1. Land on which clearing is to be done

Up to 19.1 ha for construction of a residue storage facility and associated infrastructure as hatched yellow or red on attached Plan 2050/1.

2. Area of Clearing

The permit holder must not clear more than 19.1 hectares of native vegetation.

3. Application

This Permit allows the permit holder to authorise persons, including employees, contractors and agents of the permit holder, to clear native vegetation for the purposes of this Permit subject to compliance with the conditions of this Permit and approval from the Permit Holder.

4. Compliance with Assessment Sequence and Management Procedures

Prior to clearing any native vegetation under conditions 1 and 2 of this Permit, the permit holder must comply with the Assessment Sequence and the Management Procedures set out in Part II of this Permit.

1.2 PART II – ASSESSMENT SEQUENCE AND MANAGEMENT PROCEDURES

5. Avoid, minimise or reduce clearing

In determining the amount of native vegetation to be cleared for the purposes of construction of the boundary fence and monitoring bores in the area as hatched red on attached Plan 2050/1 the Permit Holder must have regard to the following principles, set out in order of preference:

- (i) avoid the clearing of native vegetation;
- (ii) minimise the amount of native vegetation to be cleared; and
- (iii) reduce the impact of clearing on any environmental value.

6. Weed control

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

- (i) clean earth-moving or clearing machinery of soil and vegetation prior to entering and leaving the area hatched red on attached Plan 2050/1; and
- (ii) ensure that no *weed*-affected *mulch* or *fill* are brought into the area hatched red on attached Plan 2050/1.

7. Fauna management

- (a) Prior to clearing within the areas described in Clearing Authorised above, the areas shall be inspected by a *fauna specialist* who shall identify trees that contain hollows suitable to be utilised as habitat by fauna listed in the Wildlife Conservation (Specially Protected Fauna) Notice 2006.
- (b) Prior to clearing, any habitat identified by condition 7(a) and being utilised by fauna species listed above shall be inspected by a *fauna specialist*.
- (c) Prior to clearing the Permit Holder shall ensure that any fauna identified in condition 7(b) shall be removed and relocated by a *fauna clearing person*, in accordance with a licence issued by the Department of Environment and Conservation.
- (d) Prior to clearing, hollows identified by condition 7(a) shall be removed by an *arborist*. These shall be constructed into nesting boxes and attached to trees in the area as hatched red on attached Plan 2050/1. In construction and attaching the nesting boxes to trees the Permit Holder shall ensure that:
 - (i) the internal diameter, entry diameter, length and position of the nesting box are such that the nesting box is suitable to be utilised as habitat by fauna listed in the Wildlife Conservation (Specially Protected Fauna) Notice 2006;
 - (ii) each tree containing a constructed nesting box is more than 20 metres away from any other tree containing a constructed nesting box;
 - (iii) each constructed nesting box is attached to the tree at a height of between 3 and 9 metres from the ground; and
 - (iv) each tree to which a constructed nesting box is attached must have a diameter at *breast height* of at least 300 millimetres.

8. Offsets

The Permit Holder shall:

- (i) Develop and implement a management plan for the TEC located between the Kwinana Residue Area Access Road and Anketell Road. The management plan shall include but not be limited to weed control, planting and grazing control;
- (ii) Infill plant *Eucalyptus gomphocephala* (Tuart) trees within the area hatched red on attached Plan 2050/1 at a density agreed with the Department of Environment and Conservation; and
- (iii) Manage the planting carried out in accordance with Condition 8(ii) for a period of 3 years to ensure the agreed density is maintained.

1.3 PART III – RECORD KEEPING AND REPORTING

9. Records must be kept

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

- (a) In relation to the clearing and revegetation of native vegetation undertaken pursuant to this permit:
 - i. The species composition, structure and density of the cleared area;
 - ii. The location where the clearing occurred, recorded using Geocentric Datum Australia 1994;
 - iii. The date that the area was cleared;
 - iv. The size of the area cleared (in hectares); and
 - v. The purpose of the clearing.
- (b) In relation to Fauna Management pursuant to condition 7.

- i. The location of each habitat tree;
- ii. The species of fauna relocated;
- iii. Location the species is removed from;
- iv. Fauna relocation site;
- v. Date of fauna relocation; and
- vi. Location of nesting boxes, recorded using Geocentric Datum Australia 1994.

10. Reporting

The Permit Holder must provide to the Director, Environment, Department of Industry and Resources, on or before 30 June of each year, a written report demonstrating adherence to the conditions of this permit and setting out the records required under condition 9 between 1 January and 31 December of the preceding year.

11. Definitions

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

arborist means a person who holds the Australian Qualifications Framework Diploma in Horticulture (Arboriculture) or its equivalent, and has specific work experience in arboriculture;

breast height means a height of 1.3m above the ground;

dieback means the effect of *Phytophthora* species on native vegetation;

EP Act means the *Environmental Protection Act 1986*;

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;

fauna specialist means a person with training and specific work experience in fauna identification or faunal assemblage surveys of Western Australian fauna;

fauna clearing person means a person who has obtained a licence from the Department of Environment and Conservation, issued pursuant to the *Wildlife Conservation Regulations 1970* (as amended) authorising them to take fauna in order to carry out the approved clearing associated with 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;

revegetation means the re-establishment of a cover of native vegetation in an area such that the species composition, structure and density is similar to pre-clearing vegetation types in that area, and can involve regeneration, direct seeding and/or planting;

term means the duration of this Permit, including as amended or renewed;

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



Ian Briggs
A/DIRECTOR
ENVIRONMENT DIVISION
DEPARTMENT OF INDUSTRY AND RESOURCES
Officer with delegated authority under Section 20
of the Environmental Protection Act 1986

20 December 2007