



GOVERNMENT OF
WESTERN AUSTRALIA

CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Purpose Permit Number: 4187/2
File Number: A0309/201101
Duration of Permit: From 7 May 2011 to 7 May 2021

PERMIT HOLDER

Tuma Holdings Pty Ltd

LAND ON WHICH CLEARING IS TO BE DONE

Mining Lease 70/836

PURPOSE FOR WHICH THE CLEARING MAY BE DONE

1. Clearing for the purpose of Sand Extraction.

CONDITIONS

Type of clearing authorised

1. The Permit Holder must not clear more than 5 hectares of native vegetation. All clearing must be within the area cross-hatched yellow on attached Plan 4187/2A.

Period in which clearing is authorised

2. The Permit Holder shall not clear native vegetation unless actively mining within 6 months of the authorised clearing being undertaken.

Avoid, minimise etc clearing

3. In determining the amount of native vegetation to be cleared authorised under this Permit, 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.

Dieback and Weed control

4. 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* and *dieback*:
 - (i) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
 - (ii) shall only move soils in *dry conditions*;
 - (iii) ensure that no *dieback* or *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
 - (iv) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

Fencing

5. The Permit Holder shall construct and maintain a fence to exclude all classes of livestock from the area cross-hatched red on attached Plan 4187/2B.

Revegetation and Rehabilitation

6. (a) The permit holder must at an *optimal* time *plant* a minimum of 1000 stems per hectare using *local provenance* Acacia, Eucalyptus, Melaleuca and Casuarina species within the area cross-hatched red on attached Plan 4187/2B.
- (b) Within 12 months of undertaking *planting* in accordance with Condition 6(a) of this Permit, the Permit holder shall:
- (i) engage an *environmental specialist* to determine the survival rate of the Acacia, Eucalyptus, Melaleuca and Casuarina species *planted* in accordance with Condition 6(a); and
 - (ii) where in the opinion of an *environmental specialist*, the survival rate of the Acacia, Eucalyptus, Melaleuca and Casuarina species determined under Condition 6(b)(i) of this Permit will not result in a survival rate of a minimum of 850 stems per hectare, undertake additional plantings until a minimum survival rate of 850 stems per hectare is achieved.
- (c) Where additional *planting* of Acacia, Eucalyptus, Melaleuca and Casuarina species is undertaken in accordance with Condition 6(b)(ii) of this Permit, the Permit Holder shall repeat Condition 6(b)(i) and 6(b)(ii) within 12 months of undertaking the additional *planting* of Acacia, Eucalyptus, Melaleuca and Casuarina species.
- (d) Where there is a determination by an *environmental specialist* that the survival rate of 850 stems per hectare is achieved, as determined in Condition 6(b)(i) and (ii) of this permit, that determination shall be submitted for the Executive Director, Environment, Department of Mines and Petroleum's consideration. If the Executive Director does not agree with the determination made under Condition 6(b)(ii), the Executive Director may require the Permit Holder to undertake additional *planting* in accordance with the requirements under Condition 6(b)(ii).

Records to be kept

7. 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 or decimal degrees;
 - (ii) the date that the area was cleared;
 - (iii) the size of the area cleared (in hectares); and
 - (iv) purpose for which clearing was undertaken.
- (b) In relation to the revegetation and rehabilitation of areas pursuant to Condition 6 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 or decimal degrees;
 - (ii) a description of the activities undertaken; and
 - (iii) the size of the area revegetated and rehabilitated (in hectares).

Reporting

8. (a) The Permit Holder shall provide a report to the Executive Director, Environment, Department of Mines and Petroleum by 31 July each year for the life of this permit, demonstrating adherence to all conditions of this permit, and setting out the records required under Condition 7 of this permit in relation to clearing carried out between 1 July and 30 June of the previous financial year.
- (b) Prior to 7 May 2021, the Permit Holder must provide to the Executive Director, Environment, Department of Mines and Petroleum a written report of records required under Condition 7 of this Permit where these records have not already been provided under Condition 8(a) of this Permit.

Definitions

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

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

dry conditions means when soils (not dust) do not freely adhere to rubber tyres, tracks, vehicle chassis or wheel arches;

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;

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

local provenance means native vegetation seeds and propagating material from natural sources within 100 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;

optimal time means the period from April to August for undertaking planting;

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

weeds 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*.



Phil Gorey
EXECUTIVE DIRECTOR
ENVIRONMENT
DEPARTMENT OF MINES AND PETROLEUM

Officer with delegated authority under Section 20
of the Environmental Protection Act 1986

22 September 2011