



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Purpose Permit Number: 2912 / 1
File Number: A1868/200801
Duration of Permit: From 28 March 2009 to 31 July 2014

PERMIT HOLDER

Pilbara Manganese Pty Ltd

LAND ON WHICH CLEARING IS TO BE DONE

Mining Lease 45/430
Mining Lease 45/431

PURPOSE FOR WHICH THE CLEARING MAY BE DONE

1. Clearing for the purposes of mineral production.

CONDITIONS

1. The Permit Holder must not clear more than 70 hectares of native vegetation. All clearing must be within the area cross-hatched yellow on attached Plan 2912/1.

Avoid, minimise etc clearing

2. 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:

- (a) avoid the clearing of native vegetation;
- (b) minimise the amount of native vegetation to be cleared; and
- (c) reduce the impact of clearing on any environmental value.

Weed control

3. 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.

Retain vegetative material and topsoil, revegetation and rehabilitation

4. (a) The Permit Holder shall 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 six months of the area no longer being required for mineral production, the Permit Holder must revegetate and rehabilitate the area cross-hatched yellow on attached Plan 2912/1 by:

- (i) laying the vegetative material and topsoil retained under condition 4a on the cleared area;
- (ii) 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
- (iii) ensuring only local provenance seeds and propagating material are used to revegetate and rehabilitate the area.

(c) Within twelve months of undertaking revegetation and rehabilitation in accordance with condition 4(b) of this Permit, the Permit Holder must:

- (i) 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 4(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, the Permit Holder must undertake additional planting or direct seeding of native vegetation in accordance with the requirements of condition 4(b)(ii) and (iii) of this Permit.

Watercourse management

- 5. The Permit Holder shall not clear native vegetation within 50 metres of the riparian vegetation of any watercourse or wetland within the area shaded red on Plan 2912/1.

Records to be kept

- 6. In relation to the clearing of native vegetation authorised under this Permit:
 - (a) 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;
 - (b) the date that the area was cleared;
 - (c) the size of the area cleared (in hectares): and
 - (d) purpose for which clearing was undertaken.

Reporting

- 7. The Permit Holder shall provide a report to the Director, Environment Division, 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 6 of this permit in relation to clearing carried out between 1 July and 30 June of the previous year.

Definitions

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

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

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 *Agricultural and Related Resources Protection Act 1976*.

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;



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

26 February 2009