



## CLEARING PERMIT

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

<b>Purpose Permit number:</b>	CPS 3956/2
<b>Permit Holder:</b>	PMR Quarries Pty Ltd
<b>Duration of Permit:</b>	28 March 2011 – 28 March 2021

The Permit Holder is authorised to clear native vegetation subject to the following conditions of this Permit.

### PART I – CLEARING AUTHORISED

**1. Purpose for which clearing may be done**

Clearing for the purpose of limestone and sand extraction.

**2. Land on which clearing is to be done**

Lot 5 on Plan 12441

**3. Area of Clearing**

The Permit Holder must not clear more than 16.82 hectares of native vegetation within the combined areas hatched yellow and green on the attached Plan 3956/2.

**4. Period in which clearing is authorised**

(a) Clearing may commence immediately within the area hatched yellow; and

(b) Prior to the commencement of clearing within the area hatched green, revegetation and rehabilitation in accordance with condition 11(a) and 11(b) of this permit, must commence within the area hatched yellow.

(c) Clearing of native vegetation under this permit may only occur in the months of May, June and July.

**5. 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.

**6. Type of clearing authorised**

This Permit authorises the Permit Holder to clear native vegetation for activities to the extent that the Permit Holder has the power to clear native vegetation for those activities under the *Land Administration Act 1997* or any other written law.

**7. Compliance with Assessment Sequence and Management Procedures**

Prior to clearing any native vegetation under conditions 1, 2 and 3 of this Permit, the Permit Holder must comply with the Assessment Sequence and the Management Procedures set out in Part II of this Permit.

## PART II – ASSESSMENT SEQUENCE AND MANAGEMENT PROCEDURES

### **8. Avoid, minimise etc clearing**

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.

### **9. Dieback and weed control**

- (a) 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.
- (b) At least once in each 12 month period for the term of this Permit, the Permit Holder must remove or kill any *weeds* growing within areas cleared under this Permit.

### **10. Fauna management**

- (a) Prior to undertaking any clearing authorised under this Permit, the area(s) shall be inspected by a *fauna specialist* who shall:
  - (i) identify *habitat trees* that have potential to be utilised by Carnaby's black cockatoo (*Calyptorhynchus latirostris*) or Forest Red-tailed black cockatoo (*Calyptorhynchus banksii naso*); and
  - (ii) inspect *habitat trees* identified under condition 10(a)(i) for the presence of Carnaby's black cockatoo (*Calyptorhynchus latirostris*) or Forest Red-tailed black cockatoo (*Calyptorhynchus banksii naso*).
- (b) Where *habitat trees* identified under condition 10(a) contain hollows that have potential for use by Carnaby's black cockatoo (*Calyptorhynchus latirostris*) or Forest Red-tailed black cockatoo (*Calyptorhynchus banksii naso*), the Permit Holder shall retain these *habitat trees* in situ, or if this is not possible the Permit Holder shall:
  - (i) remove and retain intact hollows;
  - (ii) each removed and retained intact hollow shall be attached to a tree located within the area hatched red on attached Plan 3956/2;
  - (iii) each removed and retained intact hollow shall be attached to a tree within 3 months of removing it; and
  - (iv) identify surrogate trees and locations for relocation of the hollows identified in condition 10(a).
- (c) Where *habitat trees* identified under condition 10(a) contain hollows that have potential for use by Carnaby's black cockatoo (*Calyptorhynchus latirostris*) or Forest Red-tailed black cockatoo (*Calyptorhynchus banksii naso*), the Permit Holder shall retain these *habitat trees* in situ, or if this is not possible the Permit Holder shall construct and install 6 artificial nesting hollows, per each habitat tree removed, as follows:
  - (i) each artificial nesting hollow shall be constructed using either salvaged natural hollow, black industrial pipe or PVC pipe not less than 0.3m in diameter, 25mm thickness and between 0.5m to 2.5m in length;
  - (ii) each artificial nesting hollow shall include an external perch constructed of wood, and an internal ladder constructed of 60mm to 100mm heavy wire mesh affixed to the wall, to enable access;

- (iii) each artificial nesting hollow shall have a free-draining floor constructed of heavy duty stainless steel, galvanised metal, treated metal, thick hardwood timber slab or marine ply and lined with charcoal, hardwood woodchips or wood debris to a depth of 10cm to 50cm;
  - (iv) each artificial nesting hollow shall be attached to a tree located within the area hatched red on attached Plan 3956/2;
  - (v) each artificial nesting hollow shall be attached to a tree that must have a diameter, at 1.5 metres above the ground, of at least 300 millimetres;
  - (vi) each artificial nesting hollow shall be attached to a tree at a height of no less than 3 metres above the ground, and no closer than 20 metres from any other tree to which a constructed artificial nesting hollow is attached; and
  - (vii) each artificial nesting hollow shall be attached to a tree in an inconspicuous position with the entrance hole facing away from the prevailing winds and rain, and protected from direct sunlight.
- (d) Within one week prior to undertaking any clearing authorised under this Permit, the Permit Holder shall engage a *fauna clearing person* to remove any unfledged fauna identified under condition 10(a)(ii) and transfer to a registered Department of Environment and Conservation Wildlife Carer, authorised under the *Wildlife Conservation Regulation 1970*.
- (e) artificial nesting boxes and surrogate trees for relocation with vacant hollows are to be inspected annually and maintenance undertaken, where necessary, for the duration of the permit.

#### **11. 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 24 months following completion of the 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:
  - (i) reshaping the surface of the land so that it is consistent with the surrounding 20 metres of uncleared land; and
  - (ii) ripping the ground on the contour to remove soil compaction; and
  - (iii) ripping the pit floor and contour batters within the extraction site; and
  - (iv) laying the vegetative material and topsoil retained under condition 11(a) on the cleared area(s); and
  - (v) 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
  - (vi) ensuring only *local provenance* seeds and propagating material are used to *revegetate* and *rehabilitate* the area.
- (c) within 24 months of undertaking *revegetation* and *rehabilitation* in accordance with condition 11(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 11(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 11(b)(v) and (vi) of this Permit.
- (d) where additional *planting* or *direct seeding* of native vegetation is undertaken in accordance with condition 11(c)(ii) of this permit, the Permit Holder shall repeat condition 11(c)(i) and 11(c)(ii) within 24 months of undertaking the additional *planting* or *direct seeding* of native vegetation.

- (e) where a determination by an *environmental specialist* that the composition, structure and density within areas *revegetated* and *rehabilitated* will result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, as determined in condition 11(c)(i) and (ii) of this permit, that determination shall be submitted for the CEO's consideration. If the CEO does not agree with the determination made under condition 11(c)(ii), the CEO may require the Permit Holder to undertake additional *planting* and *direct seeding* in accordance with the requirements under condition 11(c)(ii).

## 12. Revegetation and rehabilitation

The Permit Holder shall:

- (a) within 12 months of commencement of clearing authorised under this Permit *revegetate* and *rehabilitate* the area hatched red on attached Plan 3956/2 by:
  - (i) ripping the ground on the contour to remove soil compaction; and
  - (ii) deliberately *planting* and/or *direct seeding* native vegetation to a density of 1000 trees per hectare;
  - (iii) the species shall consist of *Banksia* species, *Eucalyptus gomphocephala*, *Eucalyptus marginata* and *Corymbia calophylla*;
  - (iv) ensuring only *local provenance* seeds and propagating material are used to *revegetate* and *rehabilitate* the area.
- (b) within 24 months of undertaking *revegetation* and *rehabilitation* in accordance with condition 12(a) of this Permit:
  - (i) engage an *environmental specialist* to determine the density of the tree species under condition 12(a)(iii) in the area *revegetated* and *rehabilitated*; and
  - (ii) where, in the opinion of an *environmental specialist*, the density determined under condition 12(b)(i) of this Permit is less than 800 trees per hectare, the Permit Holder must undertake additional *planting* or *direct seeding* of native vegetation in accordance with the requirements of condition 12(a)(ii),(iii) and (iv) of this Permit.
- (c) where additional *planting* or *direct seeding* of native vegetation is undertaken in accordance with condition 12(b)(ii) of this permit, the Permit Holder shall repeat condition 12(b)(i) and 12(b)(ii) within 24 months of undertaking the additional *planting* or *direct seeding* of native vegetation.
- (d) where a determination by an *environmental specialist* that the density within areas *revegetated* and *rehabilitated* will result in a density of at least 800 trees per hectare, as determined in condition 12(b)(i) and (ii) of this permit, that determination shall be submitted for the CEO's consideration. If the CEO does not agree with the determination made under condition 12(b)(ii), the CEO may require the Permit Holder to undertake additional *planting* and *direct seeding* in accordance with the requirements under condition 12(b)(ii).

## PART III - RECORD KEEPING AND REPORTING

### 13. 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 of native vegetation authorised under this Permit:
  - (i) the species composition, structure and density of the cleared area;
  - (ii) 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;
  - (iii) the date that the area was cleared; and
  - (iv) the size of the area cleared (in hectares).
- (b) In relation to the fauna management of areas pursuant to condition 10 of this Permit:
  - (i) the location of any habitat tree, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings; and

- (ii) the location of the artificial nesting hollows, recorded; using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings.
  - (iii) the location of surrogate trees for relocation with vacant hollows, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings;
  - (iv) the location and date where relocated fauna was released, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings; and
  - (v) inspection and maintenance undertaken on artificial nesting boxes and surrogate trees for relocation with vacant hollows.
- (c) In relation to the *revegetation* and *rehabilitation* of areas pursuant to condition 11 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*.
- (d) In relation to the *revegetation* and *rehabilitation* of areas pursuant to condition 12 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*.

#### 14. 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 13 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 28 December 2020, the Permit Holder must provide to the CEO a written report of records required under condition 13 of this Permit where these records have not already been provided under condition 14(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;

***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;

***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;

***fauna clearing person*** means a person who has obtained a licence from the Department, issued pursuant to the *Wildlife Conservation Regulations 1970* authorising them to take fauna;

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

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

***habitat tree(s)*** means trees that have a diameter, at average adult human chest height, of greater than 50cm, that are likely to contain hollows and roosts suitable for native fauna, or where these are not present then healthy but with the potential to contain hollows and roosts;

***local provenance*** means native vegetation seeds and propagating material from natural sources within 20 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;

***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; and

***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*.

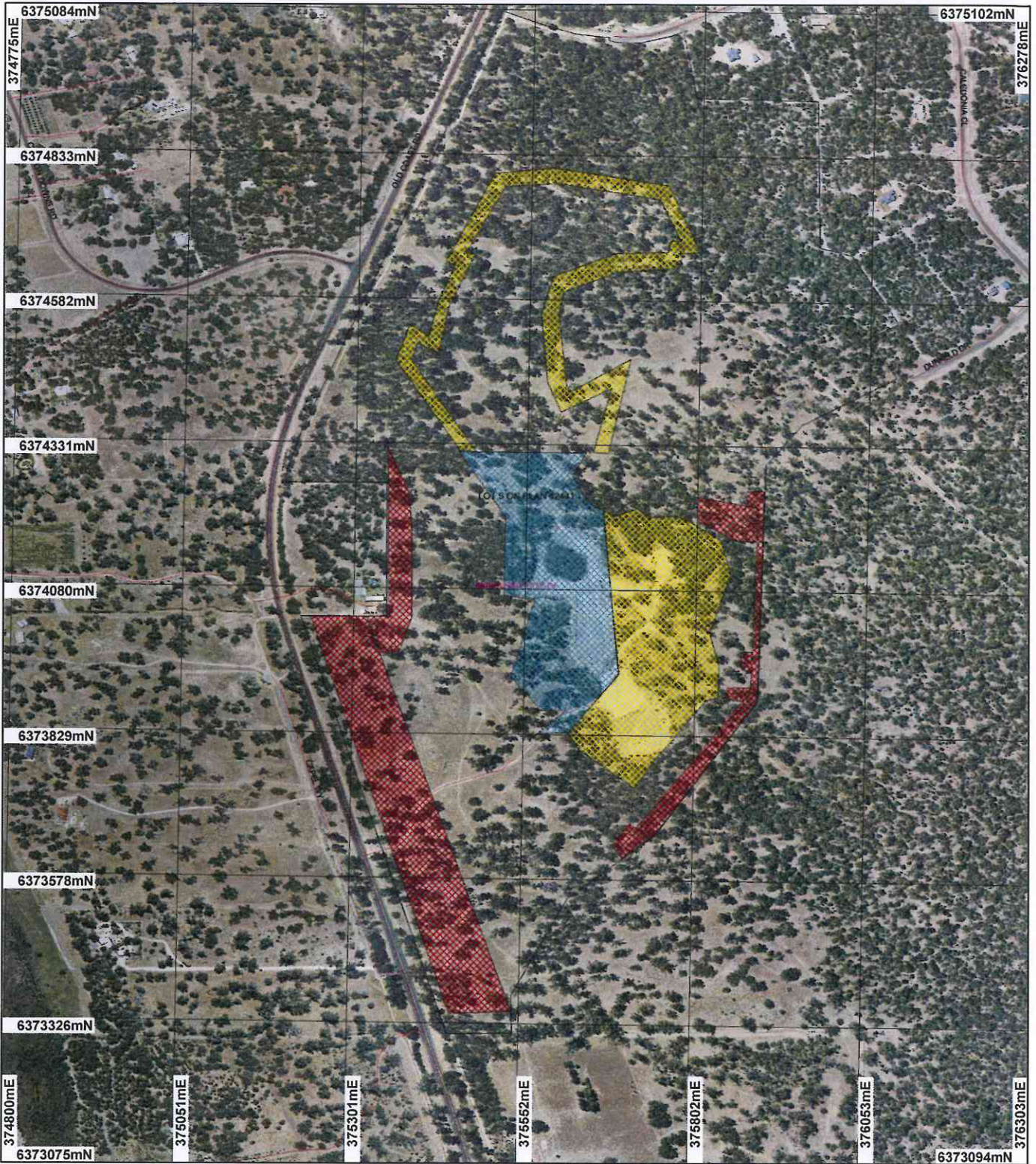


Matt Warnock  
A/ MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

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

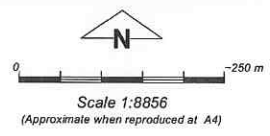
22 December 2011

# Plan 3956/2



## LEGEND

- |  |   |   |
|--|---|---|
| <p><b>Clearing Instruments</b></p> <ul style="list-style-type: none"> <li> Areas Applied to Clear</li> <li> Areas Subject to Conditions</li> <li> Road Centrelines</li> <li> Cadastre for labelling</li> </ul> | <p> Local Government Authorities</p> <p>Augusta Townsite 20cm Orthomosaic - Landgate 2004</p> | <p><b>Clearing Instruments_1</b></p> <ul style="list-style-type: none"> <li> Areas Applied to Clear</li> </ul> <p>Swan Coastal Plain South 20cm Orthomosaic - Landgate 2009</p> |
|--|---|---|

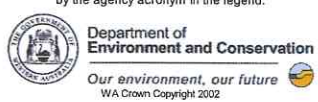


Geocentric Datum Australia 1994  
 Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

*M Warnock* Date 22/12/11  
**M 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 is denoted by asterisk. This data has not been quality assured. Please contact map author for details.