



## CLEARING PERMIT

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

### PERMIT DETAILS

Area Permit Number: 5036/2  
File Number: 2012/003030-1  
Duration of Permit: From 12 October 2013 to 12 October 2023

### PERMIT HOLDER

Joshua John Giumelli  
Joanna Louise Giumelli

### LAND ON WHICH CLEARING IS TO BE DONE

Lot 305 on Deposited Plan 63847, Henty

### AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 2.8 hectares of native vegetation within the area hatched yellow on attached Plan 5036/2.

### CONDITIONS

#### 1. Dieback control

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

- (a) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
- (b) shall only move soils in *dry conditions*;
- (c) ensure that no *dieback*-affected soil, *mulch*, *fill* or other material is brought into an area that is not affected by *dieback*; and
- (d) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

#### 2. Management plan and plantings

In relation to the area hatched red on attached Plan 5036/2, the Permit Holder must implement and adhere to the "Pit Restoration/Offset Area Planting and Maintenance Management Plan, Lot 305 Gravel Pit Road, Henty, Shire of Dardanup, April 2013", attached as Appendix A to this permit.

#### 3. Records must be kept

The Permit Holder must maintain the following records in relation to management plan and plantings pursuant to condition 2 of this Permit:

- (a) the location of any areas *planted*, 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;
- (b) a description of the *planting* activities undertaken;
- (c) the number of trees *planted*; and
- (d) the species composition, structure and density of *planting*.

#### 4. 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 3 of this Permit; and
  - (ii) concerning activities done by the Permit Holder under this Permit between 1 January to 31 December of the preceding calendar year.
- (b) If no clearing authorised under this Permit was undertaken between 1 January to 31 December of the preceding calendar, a written report confirming that no clearing under this permit has been carried out, must be provided to the CEO on or before 30 June of each year.
- (c) Prior to 12 July 2023, the Permit Holder must provide to the CEO a written report of records required under condition 3 of this Permit where these records have not already been provided under condition 4(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;

**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; and

**planting/planted** means the re-establishment of vegetation by creating favourable soil conditions and planting seedlings of the desired species.



M Warnock  
SENIOR MANAGER  
CLEARING REGULATION

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

31 December 2014

# Appendix A

**PIT RESTORATION/OFFSET AREA PLANTING  
AND  
MAINTENANCE MANAGEMENT PLAN**

**LOT 305  
GRAVEL PIT ROAD, HENTY  
SHIRE OF DARDANUP**

PREPARED FOR

**CARBONE BROS PTY LTD**

BY

**LUNDSTROM ENVIRONMENTAL**

EARTH, WATER AND ENVIRONMENTAL CONSULTANTS

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**APRIL 2013**

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# 1. INTRODUCTION

## 1.1 PURPOSE

The purpose of this document is to describe the measures that will be taken to rehabilitate the area of land impacted by gravel quarrying on Lot 305 Gravel Pit Road, Henty, Shire of Dardanup. Also, this document describes the measures that will be taken in the establishment of the proposed offset site, where 500 native trees will be planted. It also includes the methods to be used for monitoring and maintenance of rehabilitation on the property and the completion criteria to be used.

## 1.2 BACKGROUND

Prior to the application for an extractive industry licence, an application to the Department of Environment and Conservation (DEC) was made for the clearing of the entire remnant portion of vegetation, which is 4.23ha. The DEC responded with a request to “avoid, minimise or offset” the negative environmental issues associated with this clearing. In response to this, a survey of the trees was undertaken in order to determine the conservation values. As a result of this survey, the following avoidance, minimisation and offset actions were proposed:

- To decrease the clearing footprint from 4.23ha to 2.8ha
- To install 6 artificial nesting boxes
- To plant 500 endemic trees elsewhere on the site as an offset against the clearing.

The DEC accepted the proposals and indicated that it was likely that the clearing permit would be granted on this basis. It should be noted that the DEC were informed (and did acknowledge) that the clearing area was to be used as a pastured catchment area for a dam.

A referral of the proposal was made to the Federal Department of Sustainability, Environment, Water, Population and Community (SEWPaC) and after an investigation; the proposal was declared “Not a controlled action”.

An application for an extractive industries licence (EIL) was then made to the Shire of Dardanup and the rehabilitation proposals within this application described the process summarised above. The application also described the proposed end use for the area as an agricultural dam for livestock watering.

The Dardanup Shire Council conditionally approved the project subject to the submission of a rehabilitation plan for the site.

## 2. OWNERSHIP AND LOCALITY

Property Description: Lot 305 on Deposited Plan 63847  
Gravel Pit Road  
Shire of Dardanup

Area: 34.010 hectares

Ownership: J.A Giumelli

Lot 305 is situated at the end of Gravel Pit Road, approximately five kilometres north east of the township of Dardanup. Figure 1 shows the locality.

### 3. THE PROPOSED DEVELOPMENT

#### 3.1 GRAVEL EXTRACTION

The laterite has an average thickness of one metre and over the 3.1ha site and the total gravel resource is estimated at 31,000 bank cubic meters (50,000 tonnes). Extraction will be conducted using a bulldozer and front-end loader. The approximate annual gravel extraction will be 10,000 tonnes, but this will be dependent on demand. Figure 2 shows the extraction area.

Proposed mining actions are as follows:

- A 2.8ha area will be cleared of vegetation. Cleared trees will be used as fence posts and firewood on the property,
- The area will be stripped of topsoil to be placed in windrows around the edges of the working area. If any additional overburden exists, this will be placed separately where it can be used for storm water management.
- Within the cell, a bulldozer will rip and blade material to a crusher, with crushed materials being stockpiled alongside. Trucks will enter the pit to be loaded from the stockpiles by a front-end loader.
- Excavation will proceed until the laterite has been removed and this will result in a lowering of the ground level by approximately 1m.
- Where possible, topsoil will be replaced and seeded in worked out areas just prior to the wet season.
- The area will be sown to pasture grasses after mining has been completed.
- Batters of 1:6 will be maintained throughout the operation.
- On the western edge of the extraction area a dam will be constructed to hold approximately 2,400kl of water. This will serve a stormwater management and livestock watering function. Construction details of the dam are shown on Figure 3.



## 4. REHABILITATION OF EXTRACTION AREA AND PLANTING THE OFFSET

### 4.1 REHABILITATION GOALS

The rehabilitation goals proposed for the site are as follows:

- Within the gravel pit to create a landform that is stable, erosion resistant, aesthetically pleasing and safe for humans and animals both on and surrounding the site.
- To restore the extraction area to pasture grasses and to create a dam for livestock watering at the lowest point to the west of the site.
- To create an offset area where the major endemic tree species that occur in the extraction area are planted so that habitat for Black Cockatoos is replaced as quickly as possible.

Specific strategies to achieve these goals are discussed below.

### 4.2 SPECIFIC STRATEGIES

The specific strategies that will be implemented to achieve the restoration goals are as follows:

#### 4.2.1 Extraction Site

The proposed extraction area is small (3.1ha) and therefore mining actions (ripping blading and crushing) will be of short duration (approximately 6 weeks). After mining actions a stockpile of gravel will remain on approximately one third of the area and the rehabilitation of the remaining extraction area will take place shortly thereafter. The objective of rehabilitation for this project is to establish a stable land form and a self-sustaining pasture grass cover with little to no weed species.

Rehabilitation will be undertaken as follows:

- All slopes behind the active working face will be contoured to achieve a slope of no more than 1:6 vertical to horizontal. In so doing, care will be taken not to impact fringing vegetation. Proposed final contours are illustrated in Figure 3.
- The quarry floor will be ripped along contour to remove potential compaction and to establish low mounds for stormwater management purposes.
- Stockpiled topsoil/overburden will be re-spread to create a land surface which is aesthetically pleasing and easily trafficable by agricultural machinery.

- A mixture of suitable pasture grass species will be seeded to achieve the desired vegetation cover.
- Rehabilitation work will only be carried out just prior to or during the wet winter season.
- Carbone Bros Pty Ltd will undertake integrated weed management to manage and control weeds during operations and rehabilitation of the site. This will comprise a combination of cultural and chemical controls. A contractor specialised in weed management will be used to conduct the herbicide applications.
- Monitoring and maintenance will be implemented as described in Table 1. procedures will be carried out where necessary and may include:
  - Repair of any erosion damage.
  - Reseeding areas that may not have regenerated.
  - Weed control.

**Table 1: Closure Criteria, Objectives and Interim Targets**

Criteria	Objective	Interim Targets
1. Safety	The site is safe to humans.	• Site is safe to humans during operations.
2. Sustainability	The site is sustainable in the long term without additional management inputs.	-
3. Suitability	The site is suitable for the agreed land uses.	-
4. Visual amenity and heritage	The rehabilitated extraction area blends into the surrounding environment.	-
5. Off-site impacts	Significant adverse off-site impacts are prevented.	-
6. Hydrology	a. Site hydrology does not prevent the establishment of desired vegetation. b. Site hydrology does not reduce the stability of the landform. c. Stormwater is contained within the site.	• Stormwater is contained within the site during operations. • Identification and mitigation of any hydrology related issues during operations.
7. Soils and stability	a. Soil profiles and structures are sufficient to ensure vegetation establishment. b. The landform is stable.	• Topsoil is respread in all rehabilitation areas. • Identification and mitigation of potential erosion scars and scours during operations.
8. Vegetation	a. Pasture grasses cover the entire extraction area. b. Pasture grass cover is sufficiently resilient to sustain grazing pressure.	-
9. Weeds	a. Declared pest weeds are absent. b. The level of weed species should not be detrimental to the planted seedlings or pasture grasses.	• Declared weed species removed systematically during operations.

#### 4.2.2 Offset Planting Site

- **Ground Preparation and Weed Management.** Appropriate weed management and ground preparation will take place before planting.
- **Seedling planting.** 500 seedlings will be planted at 3 x 4m spacing at the commencement of winter. Species to be used are *Eucalyptus marginata* (200), *Corymbia calophylla* (200) and *Eucalyptus haematoxylon* (100). Tree guards will be used to protect the plants from kangaroos. An experienced tree planting contractor will be used to implement the project.
- **Fencing.** The offset area will be fenced to limit damage by predation from herbivores.
- **Monitoring and maintenance.** Regular monitoring against completion criteria described below will be undertaken and appropriate actions implemented where necessary. Monitoring will continue until the completion criteria have been fulfilled. Maintenance procedures will be carried out where necessary and will include:
  - Repair of any damage.
  - Replanting.
  - Weed control.
- Seedlings will be monitored on a weekly basis within the first 6 weeks after planting and any dead plants will be replaced immediately.
- Weed management will be undertaken by an experienced contractor with appropriate weed management measures being undertaken at least twice a year in spring and autumn.
- Success criteria for these plantings will be a 90% survival rate at the end of winter 2013, with all dead seedlings being replaced the following wet season. In this manner it is planned to achieve a 100% survival rate after 5 years. After this period an attrition process will be allowed to enable the plant density to be determined by natural factors.
- Carbone Bros will maintain and manage the offset area over the full period that they are active on the property, after which the trees will be large enough to be self-maintaining.



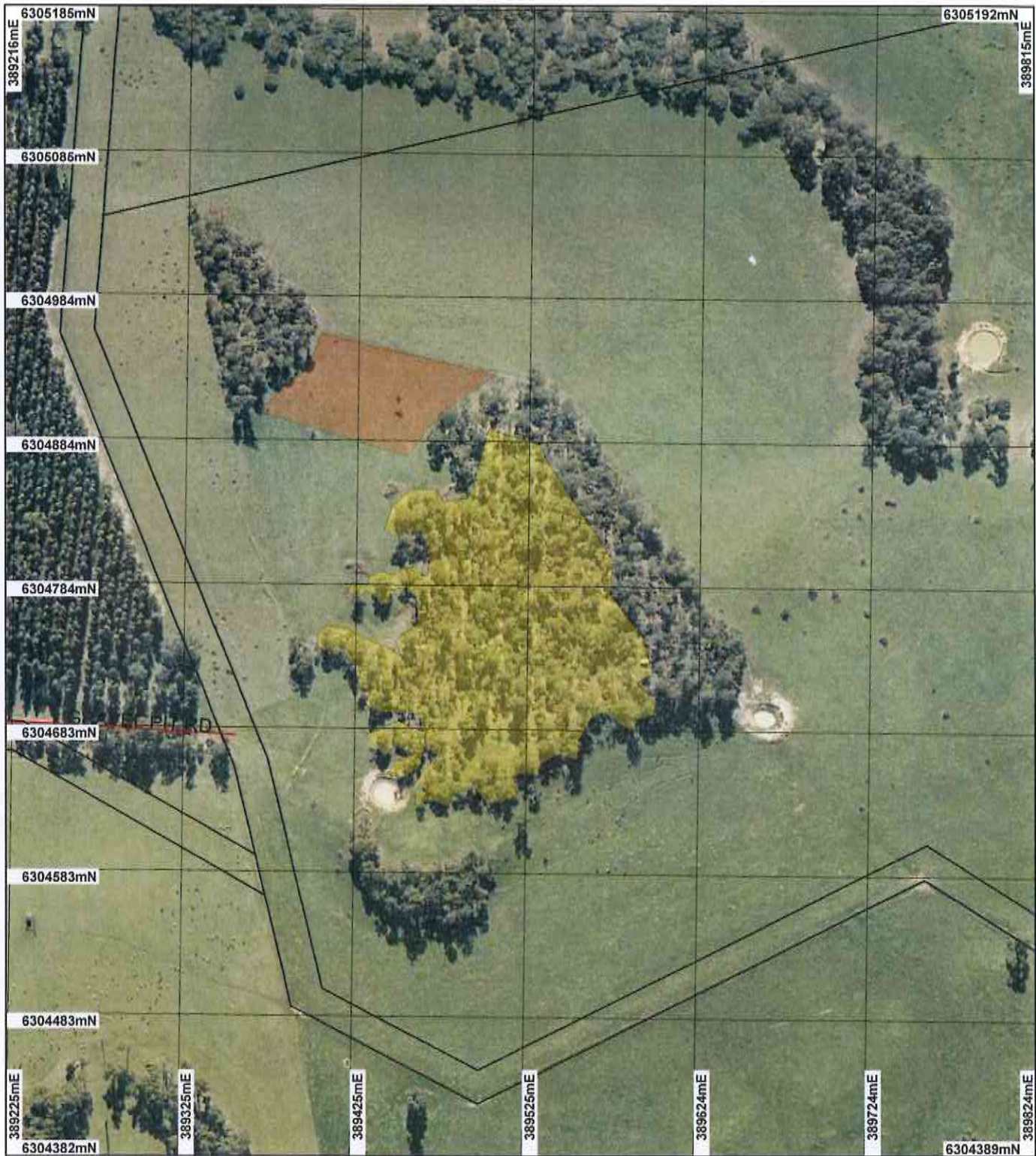
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 Datum: Australian Geocentric 1994 (GDA94)

Carbone Bros Pty Ltd  
 Lot 305 Henty  
 Shire of Dardanup

LOCALITY  
 Figure 1

# Plan 5036/2



## LEGEND

- |                             |   |
|-----------------------------|---|
| <b>Clearing Instruments</b> | <input type="checkbox"/> Cadastre                                 |
| Areas Subject to Conditions | <input type="checkbox"/> Bunbury 50cm Orthomosaic - Landgate 2008 |
| Areas Approved to Clear     |   |
| Road Centrelines            |   |



0 100 m

Scale 1:3539  
(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.

*M Warnock* Date 31/12/14

Officer with delegated authority under Section 20 of the Environmental Protection Act 1988

Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.



Government of Western Australia  
Department of Environment Regulation

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# Clearing Permit Decision Report

Government of Western Australia  
Department of Environment Regulation

## 1. Application details

### 1.1. Permit application details

Permit application No.: 5036/2  
Permit type: Area Permit

### 1.2. Proponent details

Proponent's name: Joshua John Giumelli  
Joanna Louise Giumelli

### 1.3. Property details

Property: LOT 305 ON PLAN 63847 (HENTY 6236)  
Local Government Area: Shire of Dardanup  
Colloquial name:

### 1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
2.8		Mechanical Removal	Extractive Industry

### 1.5. Decision on application

Decision on Permit Application: Grant  
Decision Date: 31 December 2014

## 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 the following: Beard Vegetation Association - 1017 - Medium open woodland; jarrah & marri, with low woodland; banksia (Shepherd et al. 2001)	The application is to clear 2.8 hectares within Lot 305 on Deposited Plan 63847, Henty, Shire of Dardanup, for the purpose of gravel extraction, with the site to be used post extraction as a dam and pasture for stock grazing.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	The application area consists of upper-storey vegetation with a sparse understorey and groundcover and grassy weed invasion, and exhibits signs of disturbance through some grazing and historical gravel extraction (DEC, 2012a).
Mattiske Vegetation Complex - Whicher Scarp - Open forest of Eucalyptus marginata subsp. marginata-Corymbia calophylla on escarpment with some Corymbia haematoxylon, 4 Banksia attenuata and Xylomelum occidentale in the humid zone (Mattiske and Havel, 1998)		To  Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery 1994)	Remaining vegetation comprises of a Eucalyptus marginata, Corymbia calophylla low forest with a very sparse understorey of Banksia grandis, Persoonia longifolia, Banksia sessilis, Kingia australis and a sparse groundcover of Xanthorrhoea gracilis and other low herb species (DEC, 2012a).  The vegetation types and condition were obtained from a former Department of Environment and Conservation site inspection (DEC, 2012a).

## 3. Assessment of application against clearing principles

### Comments

Clearing Permit CPS 5036/1 has been amended to alter the location of the offset area and remove Mr John Giumelli as the permit holder due to a change of land ownership.

The assessment against the clearing principles has not changed and can be found in the Clearing Permit Decision Report CPS 5036/1.

### Methodology

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

### Comments

The assessment against planning instruments and other matters has not changed and can be found in the Clearing Permit Decision Report CPS 5036/1.

No submissions for the application have been received.

### Methodology

## 4. References

- DEC (2012a) Site Inspection Report for Clearing Permit Application CPS 5036/1, Lot 305 on Plan 63847, Shire of Dardanup. Site inspection undertaken 22 May 2012. Department of Environment and Conservation, Western Australia (DEC Ref: A508124).
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- Mattiske, E.M. and Havel, J.J. (1998) Vegetation Complexes of the South-west Forest Region of Western Australia. Maps and report prepared as part of the Regional Forest Agreement, Western Australia for the Department of Conservation and Land Management and Environment 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.