



Weed Management Plan

LOTS 1498 and 1504 FINN ROAD, MYALUP



Harley Dykstra[®]

PLANNING & SURVEY SOLUTIONS





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1 INTRODUCTION

An Extractive Industry development application has been prepared by Harley Dykstra on behalf of Letto Farms Pty Ltd for the application of an extractive industry over a portion of Lots 1498 and 1504, Finn Road, Myalup.

This report details the Weed Management practices and procedures and is prepared to support the application for the Extractive Industry Licence and Development Approval.

This provides further opportunity to control any weeds long term on the site.

The principal objectives of the Weed Management Plan (WMP) is to:

- Prevent the introduction and /or spread of new weed species to the site;
- Minimise the risk of weeds contaminating the resource; and
- Address the management of identified declared weeds which should take the form of a control program.

Figure 1 below shows the subject site.



Figure 1 – Subject Site



2 SITE INFORMATION

Lots 1498 and 1504 are situated approximately 2km west of the Forrest Highway, the primary Regional Road connecting Perth and Bunbury and within the Shire of Harvey. Access to the site is from Finn Road.

The site is approximately 11km north of Myalup townsite and 13km south of Preston Beach townsite in the locality of Parkfield as shown in Figure 1 – Locality Plan.

The project area is bounded by Lake Preston to the west; grazed pastures, bushland and the Yalgorup National Park to the north; grazed pastures, state forest and pine forests to the east; grazed pastures, limestone quarries and intensive horticulture to the south and southeast. Other extractive industries are operating in the area.

The project area is largely flat cleared open pasture with isolated remnant paddock trees and is currently stocked with cattle. The existing remnant paddock trees consist of regrowth Tuart (*Eucalyptus gomphocephala*) and Peppermint (*Agonis flexuosa*) Jarrah (*Eucalyptus marginata*), and Paperbark (*Melaleuca spp.*).

The existing sand extraction pit and expansion area in the north west portion of the site (Pit A) covers approximately 20.8ha while future expansion to the north east (Pit B) is approximately 6.9ha and the south east (Pit C) has an area of approximately 2.6ha.



3 WEED MANAGEMENT

3.1 On-site weeds

The non native species currently found on site include those listed in the table below. The vast majority of the weeds are associated with the stockpiles with very little in the way of weeds within the active sand pit area.

Common Name	Botanical Name
Castor Oil Tree	<i>Ricinus communis</i>
Typha	<i>Typha orientalis</i>
Wild Oats	<i>Avena fatua</i>
Tagasaste	<i>Cytisus proliferus</i>
General annual grasses	<i>various</i>
Geraldton Wax	<i>Chamelaucium uncinatum</i>
Blue Lupin	<i>Lupinus angustifolius</i>
Wild Radish	<i>Raphanus raphanistrum</i>
Soursob	<i>Oxalis pes-caprae</i>
Dock	<i>Rumex sp</i>
Narrow Leaf Cotton Bush	<i>Gomphocarpus fruticosus</i> – DECLARED WEED
Couch	<i>Cynodon dactylon</i>
Various annual flat weeds	<i>various</i>
Wild Geranium	<i>Pelargonium australe</i>
Veldt Grass Perennial Veldt Grass	<i>Ehrharta calycinia</i>
African Love Grass	<i>Eragrostic curvula</i>
Hop Clover	<i>Trifolium campestra</i>
Glady	<i>Gladiolus angustus</i>
Vetch	<i>Vicia sp</i>

The land around the extraction pits is mainly composed of grazing pastures with vegetated areas mainly on the western edge of the site. This vegetation is likely the original vegetation is considered to belong to the Beard vegetation association – Spearwood 998 (Medium woodland, tuart) and the *Yoongarillup* Complex (woodland to tall woodland of *Eucalyptus gomphocephala* with *Agonis flexuosa* – sometimes, *E. marginata*, *Corymbia callophylla*).

3.2 On-Site Works Related to Weed Management

The following is an outline of the works that will take place to minimise the risk of any detrimental plant material being moved onto or off the site as part of the existing extraction works including general control of the existing weeds on site.

3.3 General Weed Control during sand extraction

The minimal weeds present on the active sand extraction face means that the risk of transporting weeds off site is low. To minimise this risk a weed control program using herbicide and spot hand pulling will be undertaken on the active faces when and if required.

The herbicide to be used will predominately be a mix of glyphosate and metsulfuron methyl. The rate to be applied will be as per the recommended dosage for the weeds being target (as per the container label). Other selective herbicides may be used, should particularly weeds not susceptible to the above be found.



Inspection for weeds are to be undertaken on a 3 month basis for the life of the pit, with control to follow as required.

To complement this weed control in the active pit, control actions will also be undertaken within stockpile areas. This is covered in more detail in the following section.

3.4 Weed Control for Declared weeds

The only declared plant identified on the site is Narrow Leaf Cotton Bush - *Gomphocarpus fruticosus*. In accordance with DAFWA requirements the following weed management zones are established to control the Cotton Bush and any other potential Declared Weeds that may appear.

Monitoring for declared weeds within both zones will take place on a 3 monthly basis from June to November and 6 monthly from December to May.

This is to be undertaken a minimum of 4 times a year, including at least twice in winter and once in spring and summer. If any declared weeds are noted they will be controlled via the most appropriate method. This may include hand pulling, mechanical removal and herbicide application. The herbicide used is to be an appropriately registered herbicide. Any Declared weeds noted will be killed prior to seed set.

The area of infestation is also to be quarantined so that no vehicles enter this zone or remove sand from it.

Throughout this period all vehicles exiting the site are to be cleaned of any weed material prior to departure.

General nuisance weeds will also be controlled on a needs basis around the edge of the pit with herbicide and mechanical removal.



4 MONITORING AND MAINTENANCE

Monitoring and maintenance for general and declared weeds will be ongoing for the life of the extraction works as well as throughout the restoration period as outlined in the rehabilitation plan.

Monitoring will be on a 3 monthly basis from June to November and 6 monthly from December to May. Weed control work will respond to the outcomes identified through monitoring.

The monitoring and maintenance is to include reviewing the area 20m around the site to make sure no declared weeds have moved into the bushland. Immediate action will be taken to remove declared weeds from the bushland area.

Monitoring and maintenance will focus on the following aspects:

- Identification of any significant general weed growth.
- Control of weeds by herbicide application or mechanical removal.
- Follow up monitoring on the success of any weed control required.