



## Waste Management Plan (WMP)

SWP Ref: 1505626

Date: 25 July 2016

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# WASTE MANAGEMENT PLAN (WMP)

65-73 Dunheved Circuit, St Marys NSW 2760

Lot 1 DP 117580

## Revision History

Revision	Date	Reason for Issue
A	25/07/2015	Issued for Development Application



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## 1. Introduction

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### 1.1. Background

The Waste Management Plan (WMP) has been prepared in assisting the Development Application (DA) for the operation of a landscape supplies production facility at Lot 1, 65-73 Dunheved Circuit, St Marys NSW 2760.

This WMP aims to provide clear direction on the selection and implementation of appropriate waste management techniques at the proposed facility during the operational phase only.

The proposed landscape supplies production facility does not include any construction or demolition works.

On this basis, the treatment of waste during the construction and demolition phase has not been considered in this WMP.



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## 1.2. Project Description

### Location

The proposed landscape supplies production facility is located on Lot 1, 65-73 Dunheved Circuit, St Marys NSW 2760 as shown on the locality in **Figure 1**.

The site is located within Precinct 1 of the Dunheved/ St Marys Industrial Area and is zoned General Industrial IN1.

Current surrounding area contains a mix of industrial, manufacturing, storage and transport type industries.



**Figure 1- Site Locality Proposed of Landscape Supplies Production Facility**



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## Operational Activities

The proposed facility receives and processes Virgin Excavated Natural Materials (VENM), predominantly sandstone into certified civil landscape materials.

The proposed facility utilises heavy plant equipment including trucks, excavator and a 50 tonne J1175 mobile crusher as part of its operations in processing the VEMN.

The proposed facility anticipates a transportation total of 1000 tonnes of material per day equating to approximately 40 truck movements per day.

## Hours of Operation

The proposed facility's normal hours of operation is between 6.00am to 7.00pm, 6 days, Monday – Saturday.

During peak operations, site activity may extend to 24 hours, however traffic movement is not anticipated outside the normal hours of operations.

At no time on Sundays or public holidays would the facility operate.

### 1.3. WMP Objectives

- To estimate the operational waste generated at the site
- To minimise waste generated at the site and reduce to volume of waste requiring disposal to landfill.
- To prevent disposal of waste from site to receiving environments.
- To maintain the site in a neat and tidy state without build-up of litter.
- To ensure compliance with the following legislation:
  - *Protection of the Environment Operations Act 1997 (POEO Act)*
  - *Protection of the Environment Operations (Waste) Regulation 2005* Environmental Management Program

### 1.4. Waste Generation Estimate at Proposed Facility

The proposed facility anticipates 240L of waste will be generated at the site every two (2) weeks.

The estimated waste are predominately waste generated from staff and contractors at the site and not from the process of landscape supplies production.



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## **1.5. Potential Environmental Impact of Waste Generated at Proposed Facility**

Potential environmental impact of the waste generated at the proposed facility includes the following:

- Litter entering surrounding environment
- Recyclable not being recycled
- On-site build-up of litter resulting in a health, fire or safety hazard

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## **2. Implementation**

### **2.1. Components of the WMP**

The potential environmental impact of the waste generated at the proposed facility identified in this WMP are specific to the operational phase of the proposed facility. The WMP has been prepared in an issues-based format covering:

- Environmental issue.
- Environmental objectives.
- Control measures.
- Responsibility.
- Monitoring.
- Reporting.
- Performance Indicators.
- Corrective Action.

### **2.2. Risk Assessment**

A risk assessment has been undertaken on the potential environmental impacts in relation to the waste generated at the proposed facility:

The risk assessment process is based on the Australian Standard, (AS/NZS 4360:2004) Risk Management and (ISO14001), which provides qualitative measures in estimating the consequence or impact of an event, against the likelihood of occurrence. Each risk was assessed as being low (L), medium (M) or high (H) in terms of both consequence and likelihood. The Risk Analysis Matrix shown in Table 3 was applied to assess the priority of the various hazards identified.



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Table 1 - Risk Management

	Consequences				
Likelihood	Insignificant	Minor	Moderate	Major	Catastrophic
Almost Certain	L	M	H	H	H
Likely	L	M	H	H	H
Moderate	L	M	H	H	H
Unlikely	L	L	L	M	H
Rare	L	L	L	M	M



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### 2.3. Operational WMP Control Measures

Waste Management			
<b>Potential Impact</b>	<ul style="list-style-type: none"> <li>Litter entering surrounding environment</li> <li>Recyclable not being recycled.</li> <li>On-site build-up of litter resulting in a health, fire or safety hazard.</li> </ul>	<b>Risk Rating</b>	<p>L</p> <p>L</p> <p>L</p>
<b>WMP Objective</b>	<ul style="list-style-type: none"> <li>To estimate the operational waste generated at the site</li> <li>To minimise waste generated at the site and reduce to volume of waste requiring disposal to landfill.</li> <li>To prevent disposal of waste from site to receiving environments.</li> <li>To maintain the site in a neat and tidy state without build-up of litter.</li> <li>To ensure compliance with the following legislation:               <ul style="list-style-type: none"> <li>– <i>Protection of the Environment Operations Act 1997 (POEO Act)</i></li> <li>– <i>Protection of the Environment Operations (Waste) Regulation 2005</i></li> </ul> </li> </ul>		
<b>Management Strategies</b>	<p>The following practices and procedures will be adopted to reduce the amount of waste being disposed of at landfill:</p> <ul style="list-style-type: none"> <li>The site will include two (2) 240L separate collection bins designated for general waste and recycling of recycling of paper/cardboard, glass, PET plastic and aluminium cans.</li> <li>The bins will be collected and emptied every two (2) weeks.</li> <li>Consideration will be given to the waste management hierarchy outlined in the Waste Avoidance and Resource Recovery Act 2001:               <ul style="list-style-type: none"> <li>– Avoidance.</li> <li>– Resource recovery</li> <li>– Disposal.</li> </ul> </li> <li>Ensure that a dedicated storage area for the separation, collection and recycling of waste with good access by all staff and contractors and for collection by recycling companies is provided and maintained.</li> <li>Between collection periods, all waste / recyclable materials generated upon the site shall be kept in enclosed bins with securely fitting lids so that the contents are not able to leak or overflow.</li> </ul>		







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	<ul style="list-style-type: none"> <li>• Appropriate signage shall be displayed to inform personnel and visitors of waste disposal procedures and to encourage recycling.</li> </ul>
<b>Monitoring</b>	<ul style="list-style-type: none"> <li>• Monitor quantities (volume and/or weight) of waste recovery during early stages of operation to determine whether collection frequencies are adequate.</li> <li>• Regular inspection of the surrounding areas shall be undertaken to ensure no waste has escaped from the proposed facility.</li> </ul>
<b>Reporting</b>	<ul style="list-style-type: none"> <li>• All accidental waste discharged into the surrounding areas of the proposed facility will be reported to the Site Supervisor.</li> <li>• Failure of any aspect of the waste management system shall result in a review of the reasons for the failure and the implementation of corrective actions.</li> </ul>
<b>Performance Indicators</b>	<ul style="list-style-type: none"> <li>• Visual inspection of on-site storage and permanent drains shall be used to assess compliance with waste management plan. The following shall indicate a failure and the need for corrective action:             <ul style="list-style-type: none"> <li>- presence of litter on the property;</li> <li>- presence of litter in adjacent environments; and</li> <li>- presence of pests or nuisance species.</li> </ul> </li> <li>• Compliance with the Work Health and Safety Act 2011, regulations for waste management and public health and the guidelines for relevant statutory authorities.</li> </ul>
<b>Corrective Action</b>	<ul style="list-style-type: none"> <li>• Should extensive littering occur, a review of the waste management systems will be undertaken and appropriate measures (e.g. bin placement, education) shall be implemented, such as provision of additional waste containers (either general or specific purpose) or an increase in the frequency of waste collection.</li> </ul>



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### 3. Closure

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We trust this WMP provides clear direction on the selection and implementation of appropriate waste management techniques at the proposed facility during its operational phase in accordance with relevant environmental legislations.

Should you require further information or clarification on the matter, please do not hesitate to contact the undersigned.

Yours Faithfully,

**Silver Wolf Projects Pty Ltd**

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