



Turning waste into a resource

Landscaping Management Plan

Woodlawn Mechanical Biological Treatment Facility

Veolia Environmental Services Australia Pty Ltd

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1 Introduction

This Landscape Management Plan (LMP) has been prepared to detail the landscaping and vegetation treatments for the MBT Facility to minimise impact to local visual amenity both during its construction and operational phases. The LMP forms part of the Construction Environmental Management Plan (CEMP).

The landscaping shall be confined to the edges of the MBT Facility to ensure that operations can be completed with a minimum of soil disturbance. The species selected for treatment as required shall be predominantly native species, selected for their suitability to site conditions as well as their appearance and screening abilities.

1.1 Conditions of Consent/Approvals

Litter Control

9. The Proponent shall:
 - (a) implement suitable measures to prevent the unnecessary proliferation of litter both on and off site; and
 - (b) inspect and clear the site (and if necessary, surrounding area) of litter on a daily basis.

VISUAL AMENITY

Lighting

35. The Applicant shall ensure that all external lighting associated with the development:
 - (a) does not create a nuisance to surrounding properties or roadways; and
 - (b) complies with AS 4282(INT) 1995 – *Control of Obtrusive Effects of Outdoor Lighting*.
36. The Proponent shall construct all new buildings associated with the project using materials and colours that complement the surrounding landscape.

Landscaping Management

37. The Proponent shall prepare and implement a Landscaping Management Plan for the project to the satisfaction of the Director-General. The plan shall:
 - (a) be approved by the Director-General prior to the commencement of construction;
 - (b) detail landscaping and vegetation treatments for the project with particular attention to minimising the visibility of the project from residences and public vantage points including Collector Road; and
 - (c) describe the on-going measures that would be implemented to maintain landscaping and vegetation on the site for the life of the project.



2 Goals of the LMP

2.1 Objectives

The objective of the LMP is to provide details of the management practices that will be undertaken on the MBT Facility site to ensure that the built environment of the MBT Facility does not have an adverse impact on the surrounding receivers.

2.2 Responsibilities

Responsibilities for implementation of the LMP are summarised in Table 2.1 below.

Table 2.1 Summaries of Responsibilities – LMP

Action	Responsibility
Overall implementation of the LMP	Woodlawn Eco Project Site Management and EMR or nominee
Inspection of site areas prior to, during and after construction	Construction Manager and EMR and/or nominee
Implement methodology for landscaping and vegetation treatment	Woodlawn Eco Project Site Management, Construction Manager and EMR or nominee
Collate and maintain records of complaints, respond to complainant	EMR and/or nominee
Identify remediation areas/maintenance needs and notify Construction Manager/EMR	Construction Manager, Contractor and EMR and/or nominee
Authorise and confirm the implementation of mitigation measures and reporting	Construction Manager, EMR or nominee



3 Site Description and Background

3.1 Local and Regional Setting

The proposed MBT Facility site is located approximately 40 kilometres (km) southwest of Goulburn, near the town of Tarago in the Goulburn Mulwaree Council Local Government Area (LGA). The LGA is characterized primarily by grazing land, dense forested areas and plantations (EA) (Environmental Assessment – Woodlawn Alternative Waste Technology Project, Umwelt, 2006).

In the local area surrounding the MBT Facility site, the landscape is dominated by cleared land, predominantly used for grazing, and disturbed areas remnant from the historical mining use at the Woodlawn Mine. Areas of vegetation occur sporadically on the northern, eastern and southern locations adjacent to the site. This vegetation has been used to screen the existing evaporation dams on the Woodlawn Eco Project site (Umwelt, 2006).

The area is further characterized by rolling hills associated with the Southern Tablelands landform, with gradients between 690 and 1000 metres Australian Height Datum (Umwelt, 2006).

3.2 Visual Assessment Findings

The findings of the visual assessments undertaken both in the original EA (Umwelt, 2006) and the modification EA (Veolia, 2013) indicate that the MBT Facility will have low visibility from the local road network and surrounding properties, which have been identified in Table 3.1.

Table 3.1 Location of Surrounding Properties

Property and Location	Approximate distance from MBT Facility (km)
Collector Road (directly to the north of the Development)	1.2
Somerset Property on Collector Road (Top of ridge North, North West of the Development)	5.9
Collector Road (North West of the Development)	4.7
Nardoo Property on Taylors Creek Road (South East of the Development)	9.4



Dowling on Taylors Creek Road (South East of the Development)	9.2
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An assessment of the potential visual impact of the proposed MBT Facility location was undertaken from each of the properties listed above; it was considered that the built environment of the MBT Facility would pose low to moderate impact due to the relative distance of the properties.

3.3 Treatment Requirements

Any landscaping treatment, as necessary, undertaken during the course of and following construction of the MBT Facility, will need to address the construction activities undertaken.

- Any of the vegetation removed around the MBT Facility, the site access road and the land adjacent to the site access road shall have to be re-contoured to reflect the extended upgraded road alignment;
- Topsoil will need to be placed over the new planting areas to improve the establishment and vigour of the new plantings.
- New plantings may be required to replace the removed vegetation;
- Hydroseeding of native grasses may also be applied.

The following section discusses how the components above have been considered and incorporated into this LMP.



4 Landscape and Vegetation Management Plan

4.1 Vegetation and Topsoil Removal

- Vegetation to be removed during the course of construction of the MBT Facility may include shrubs;
- Any fallen trees may be chipped into mulch and stockpiled and composted for use as mulch on planting areas;
- Tree trunks and heavier branches maybe disposed of in the Woodlawn Bioreactor or removed offsite as practicable;
- Grass cover will be stripped off areas for construction and may be stockpiled with the local topsoil for reuse, where possible; and
- Stripped grass may provide mulch and a source of grass seed to aid revegetation.

4.2 Planting

- Plantings maybe installed as tube stock or via hydroseeding to increase plant survival;
- All planting, where necessary should be undertaken by hand or small machinery to minimise disturbance to the local soils;
- If appropriate, topsoil may be imported from other areas of the Eco Project Site to improve the soil conditions;
- Organic matter may also be utilised to improve soil fertility and should be dug into the planting area prior to planting;
- An application of slow release fertiliser may be required at the time of planting;
- Where possible, the chipped and composted vegetative material cut on-site could be used a mulch around each plant; and
- A typical selection of suitable local native plant species will be utilised for any planting that is undertaken as part of the MBT Facility landscaping.



4.3 Treatment of Other Areas

- Following the completion of the earthworks for the upgraded site access road alignment, any adjacent areas may need to be regraded to an even, stable grade;
- Any topsoil stockpiled during earthworks from the MBT Facility site, if not required elsewhere on the Eco Project Site, may be spread over the nominated planting areas;
- Any available organic matter may be mixed into the topsoil during the spreading operation to improve soil fertility;
- Local native trees and shrubs may be planted, as necessary at appropriate spacings in the nominated planting areas.
- Where possible, the intervening spaces between the planted trees and shrubs may be mulched with a layer of suitable chipped vegetative material including the chipped material from the trees and shrubs removed from the mounded area. The mulch will improve growing conditions for the plants and reduce soil erosion of the mounded slopes.

4.4 Maintenance

- A maintenance establishment period will be necessary to ensure the successful development of all planting areas.
- On-going maintenance will be less intensive than the establishment period and will be limited to occasional plant replacement, and slashing the grassed areas to reduce fire hazard and weed proliferation.